HENSLEY®

G.E.T.
SPECIFICATION MANUAL

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3rd EDITION

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HENSLEY
G.E.T. SPECIFICATION MANUAL
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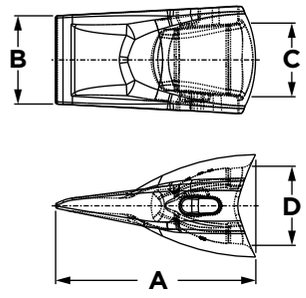
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IDENTIFICATION GUIDE

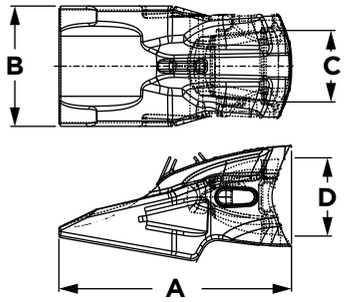
Teeth

IDENTIFICATION GUIDE
Tooth Style Guide

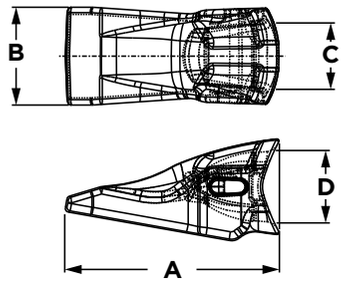
XS STYLE TEETH



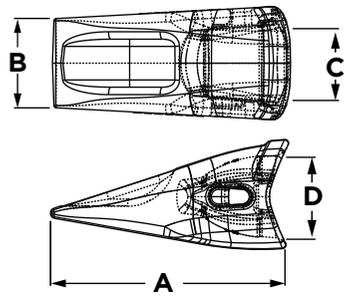
XS
Standard



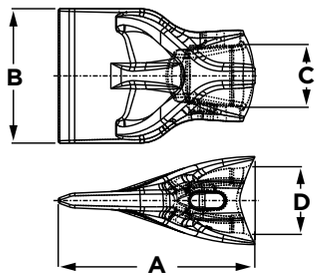
ABR
High Abrasive



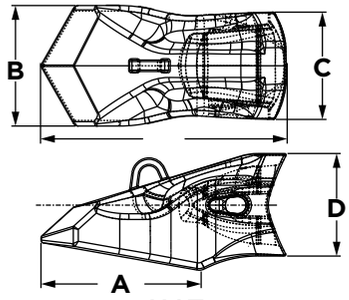
AG
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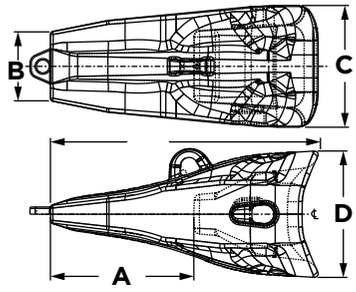
BPS
General Purpose
Loader



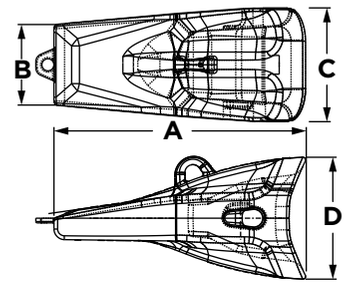
F
Flare



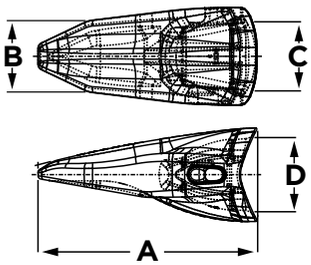
HAT
Heavy Abrasion



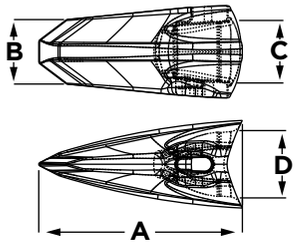
HD
Heavy Duty



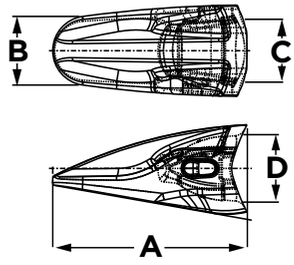
HSD
Heavy Severe Duty



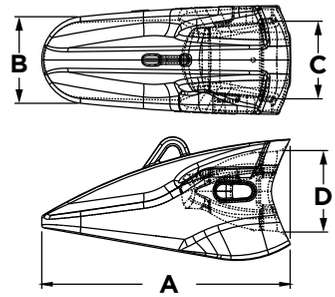
HP
Heavy Rock



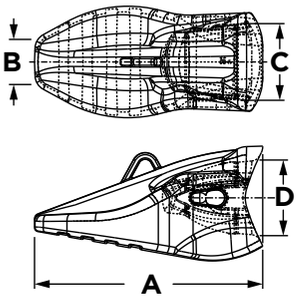
RC
Rock Chisel



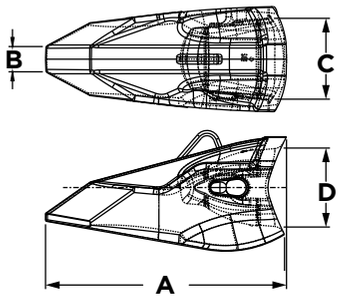
RP1/RP2
Rock Penetrator



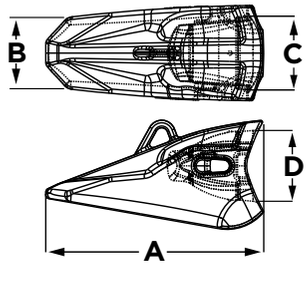
RP3
Rock Penetrator



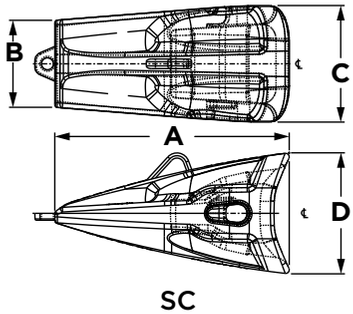
RPHL
Rock Penetrator



RPL
Rock Penetrator



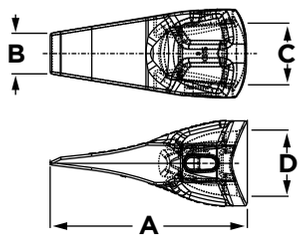
RPX
Rock Penetrator



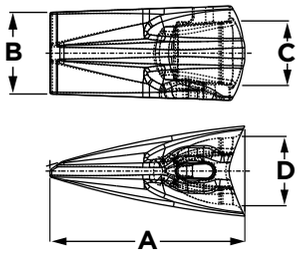
SC
Short Chisel

IDENTIFICATION GUIDE
Tooth Style Guide

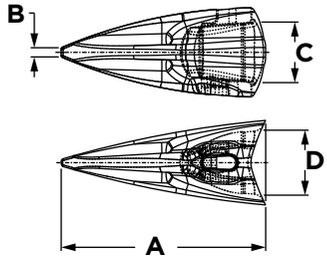
XS STYLE TEETH CONTINUED



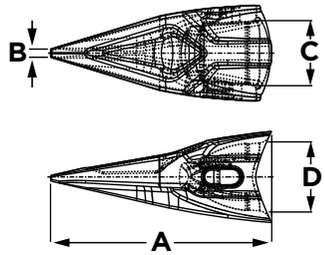
SD
Chisel



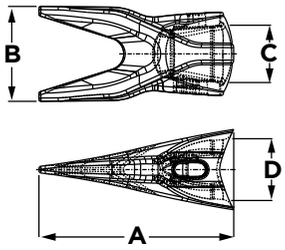
SYL
Sharp, Ribbed



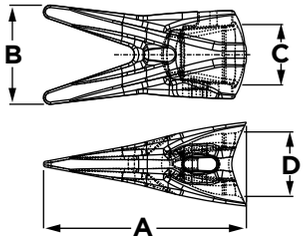
T
Tiger



TV
Tiger

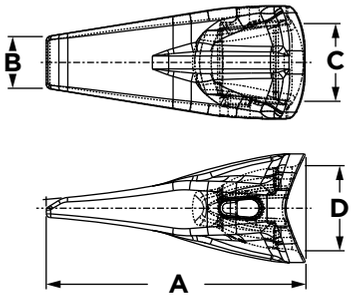


UT
Twin Tiger

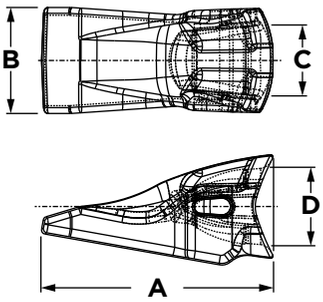


WT
Twin Tiger

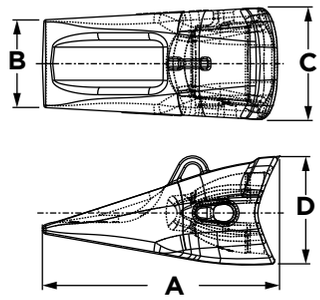
KMAX STYLE TEETH



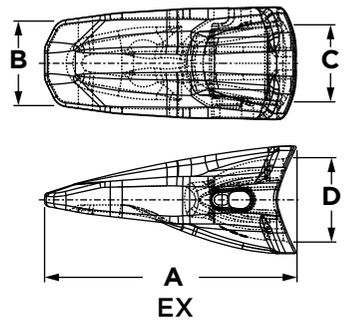
ABR
High Abrasive



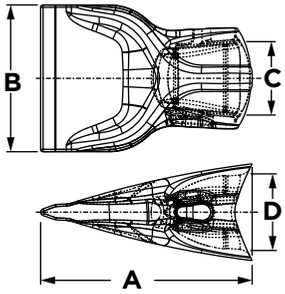
AG
High Abrasive



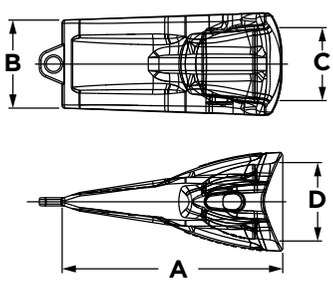
BPS
General Purpose
Loader



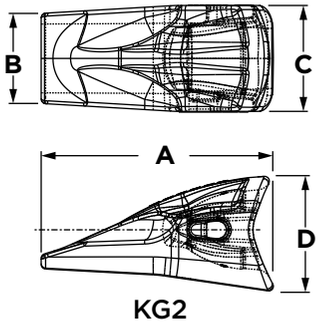
EX
Heavy Rock Penetrator



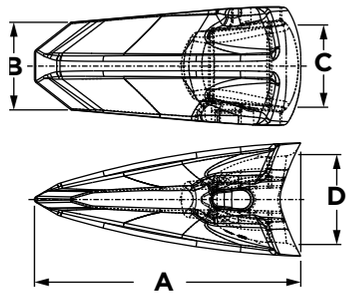
F
Flare



HS
Heavy Standard



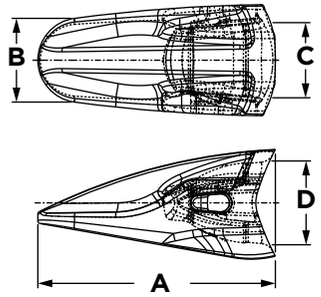
KG2
Penetrator



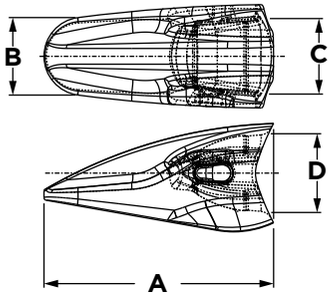
RC
Rock Chisel

IDENTIFICATION GUIDE
Tooth Style Guide

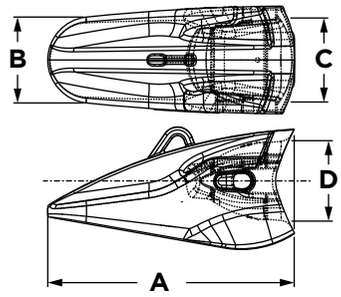
KMAX STYLE TEETH CONTINUED



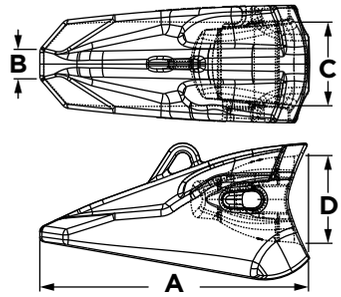
RP1
Rock Penetrator



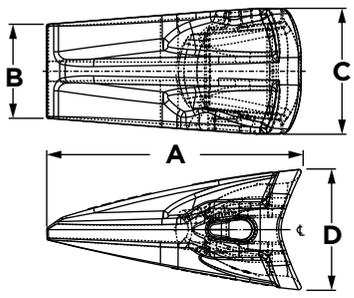
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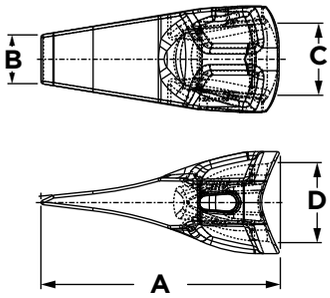
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Rock Penetrator



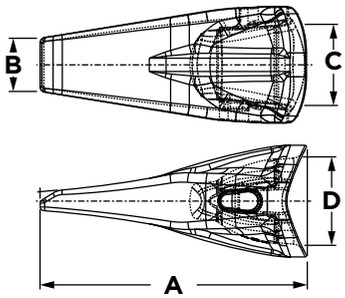
RPX
Rock Penetrator



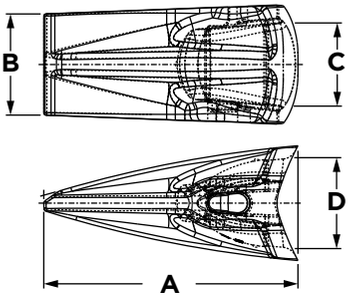
SC
Short Chisel



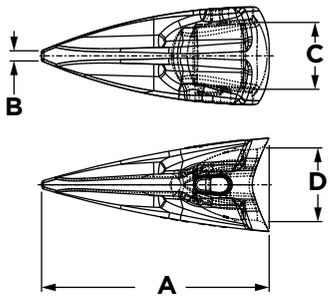
SD
Chisel



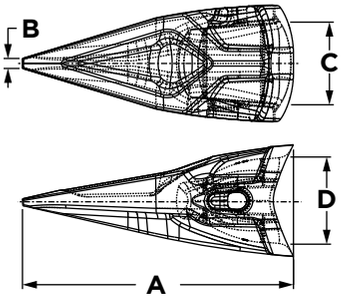
SDX
Heavy Chisel



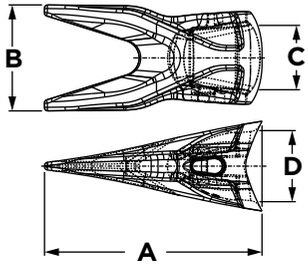
SYL
Sharp, Ribbed



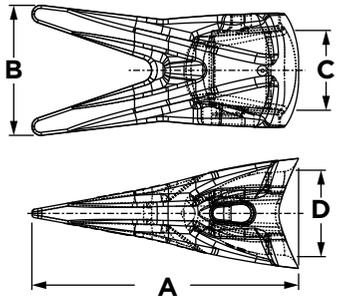
T
Tiger



TV
Tiger



UT
Twin Tiger



WT
Twin Tiger

2.1

PROPRIETARY PRODUCTS

XS - System

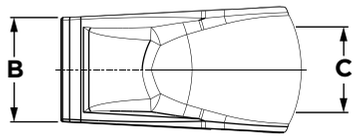
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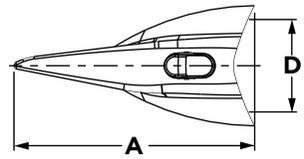
SERIES RECOMMENDATIONS
Exclusively for XS Extreme Service Dealers

EXCAVATORS	SERIES RECOMMENDATION BASED ON OPERATING WEIGHT							
SERIES	STANDARD / HEAVY DUTY				EXTREME SERVICE			
	Start		End		Start		End	
	lb	kg	lb	kg	lb	kg	lb	kg
04	0	0	9,700	4,404	0	0	7,275	3,303
05	9,700	4,404	15,700	7,128	7,275	3,303	11,775	5,346
10	15,700	7,128	22,000	9,988	11,775	5,346	16,500	7,491
15	22,000	9,988	34,500	15,663	16,500	7,491	25,875	11,747
20	34,500	15,663	47,700	21,656	25,875	11,747	35,775	16,242
25	47,700	15,663	64,800	29,419	35,775	16,242	48,600	22,064
30	64,800	29,419	87,800	39,861	48,600	22,064	65,850	29,896
40	87,800	39,861	117,200	53,209	65,850	29,896	87,900	39,907
50	117,200	53,209	148,300	67,328	87,900	39,907	111,225	50,496
70	148,300	67,328	195,400	88,712	111,225	50,496	146,550	66,534
85	195,400	88,712	262,600	119,220	146,550	66,534	196,950	89,415
115 / 122	262,600	119,220	413,700	187,820	196,950	89,415	310,275	140,865
145 / 152	413,700	187,820	595,200	270,221	310,275	140,865	446,400	202,666
250 / 252	595,200	270,221	775,000	351,850	446,400	202,666	581,250	263,887
340 / 342	775,000	351,850	980,000	444,920	581,250	263,887	800,000	363,200

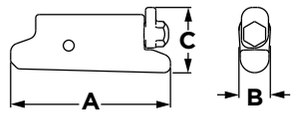
LOADERS	SERIES RECOMMENDATION BASED ON OPERATING WEIGHT							
SERIES	STANDARD / HEAVY DUTY				EXTREME SERVICE			
	Start		End		Start		End	
	lb	kg	lb	kg	lb	kg	lb	kg
04	0	0	8,800	3,995	0	0	7,040	3,196
05	8,800	3,995	19,000	8,626	7,040	3,196	15,200	6,901
10	19,000	8,626	25,300	11,486	15,200	6,901	20,240	9,189
15	25,300	11,486	36,800	16,707	20,240	9,189	29,440	13,366
20	36,800	16,707	55,000	24,970	29,440	13,366	44,000	19,976
25	55,000	24,970	71,700	32,552	44,000	19,976	57,360	26,041
30	71,700	32,552	87,800	39,861	57,360	26,041	70,240	31,889
40	87,800	39,861	108,300	49,168	70,240	31,889	86,640	39,334
50	108,300	49,168	130,000	59,020	86,640	39,334	104,000	47,216
70	130,000	59,020	157,800	71,641	104,000	47,216	126,240	57,313
85	157,800	71,641	199,000	90,346	126,240	57,313	159,200	72,277
115 / 122	199,000	90,346	247,000	112,138	159,200	72,277	197,600	89,710
145 / 152	247,000	112,138	295,000	113,930	-	-	-	-

04 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



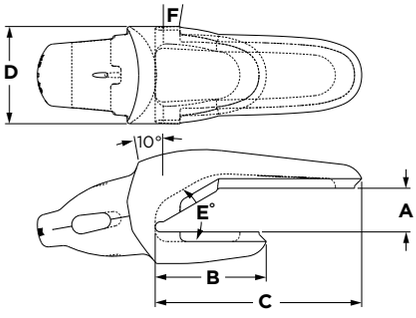


TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
04	XS04	XS04P	4.6	117	2.0	51	1.7	42	1.8	45	1.6	0.7
	XS04F		5.2	131	3.5	90	1.7	42	1.8	45	2.6	1.2
	XS04RC		5.4	137	1.7	43	1.7	42	1.8	45	2.0	0.9
	XS04S		4.5	114	1.8	47	1.7	42	1.8	45	1.5	0.7
	XS04SYL		5.0	127	2.1	53	1.7	42	1.8	45	1.9	0.9
	XS04T		5.6	142	0.3	6	1.7	42	1.8	45	1.7	0.8
	XS04TV		5.6	142	0.2	5	1.7	42	1.8	45	1.7	0.8
	XS04UT		5.6	142	2.7	69	1.7	42	1.8	45	1.8	0.8
	XS04WT		5.6	142	2.7	69	1.7	42	1.8	45	1.9	0.9

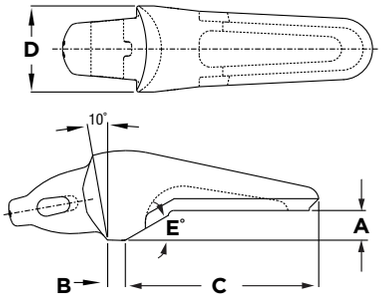


PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Standard Duty	XS04P	2.25	57	0.4	11	0.9	23	0.3	0.1	5/16	8
Removal Tool	PRTXS04										

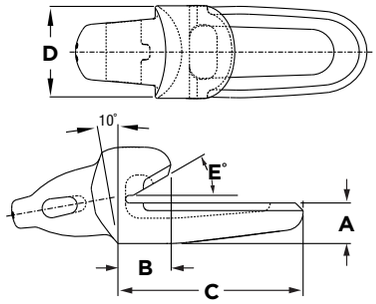
04 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



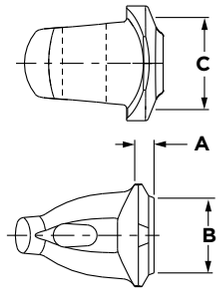
Type 1



Type 2



Type 4

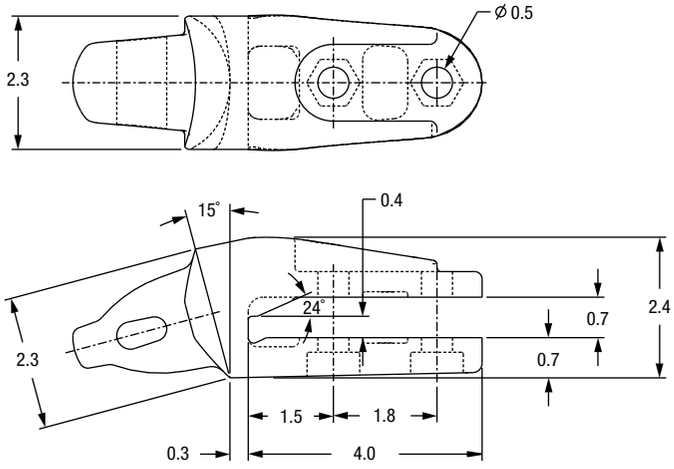


Weld-on Nose

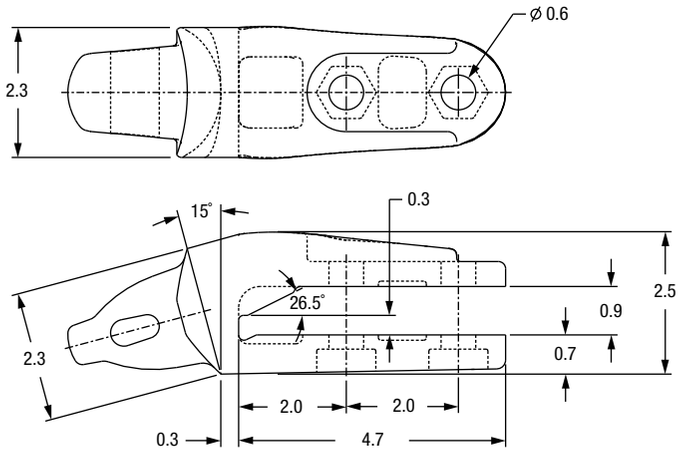
ADAPTERS

XS Series	Part Number	Type	Dimensions								E Bevel Degree	Lip Thickness		Weight	
			A		B		C		D						
			"	mm	"	mm	"	mm	"	mm		"	mm	lb	kg
04	1625XS04	1	0.7	17	2.3	60	4.6	116	2.3	58	30°	0.6	15	3.5	1.6
	7625XS04	4	1.0	25	1.313	33	4.6	116	2.3	58	30°	0.6	15	3.6	1.6
	7833XS04	4	0.7	18	1.0	25	3.25	83	2.3	58	30°	0.6	15	2.8	1.3
	1075XS04	1	0.8	21	2.3	59	4.5	115	2.3	58	30°	0.75	20	3.4	1.5
	2020MXS04	2	0.8	20	0.5	12	5.1	130	2.3	58	30°	0.8	20	4.2	1.9
	1100XS04	1	1.1	27	2.5	63	4.7	118	2.3	58	30°	1.0	25	3.1	1.4
	XS04WN	Weld-on Nose	0.4	10	2.0	52	2.3	58						1.2	0.5

3016MXS04
Center
16mm Lip, 4.3 lb/1.9 kg
Plow Bolt Assembly: Hex Head Bolt - 12mm X 50mm

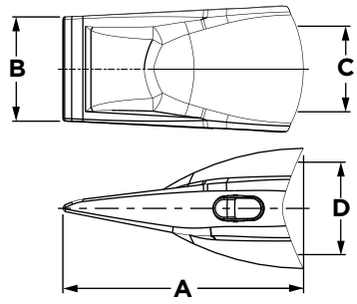


3020MXS04
Center
20mm Lip, 4.7 lb/2.1 kg
Plow Bolt Assembly: Hex Head bolt - 14mm x 55mm

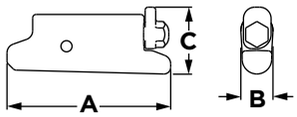


Note: Measurements are in inches.

05 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers

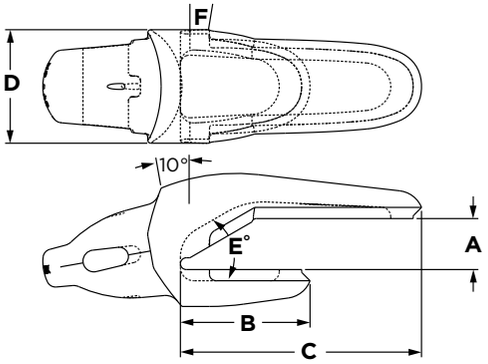


TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
05	XS05	XS05P	5.25	133	2.3	59	2.0	52	2.1	53	2.4	1.1
	XS05F		6.1	154	4.1	105	2.0	52	2.1	53	4.2	1.9
	XS05RC		6.3	160	2.0	51	2.0	52	2.1	53	3.3	1.5
	XS05SYL		6.0	151	2.4	61	2.0	52	2.1	53	3.0	1.4
	XS05T		6.6	167	0.3	7.5	2.0	52	2.1	53	2.8	1.3
	XS05TV		6.6	167	0.2	6	2.0	52	2.1	53	2.6	1.2
	XS05UT		6.6	167	3.2	82	2.0	52	2.1	53	3.2	1.5
	XS05WT		6.6	167	3.2	82	2.0	52	2.1	53	2.9	1.3

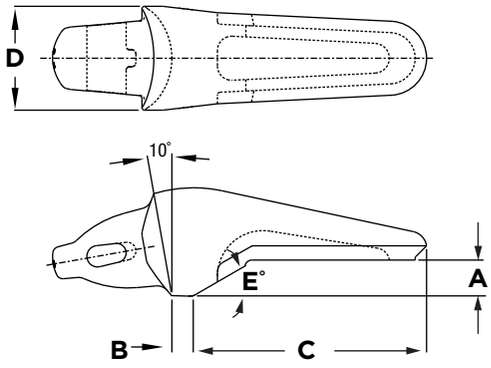


PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Standard Duty	XS05P	2.6	66	0.5	11	1.1	27	0.3	0.1	5/16	8
Removal Tool	PRTXS04										

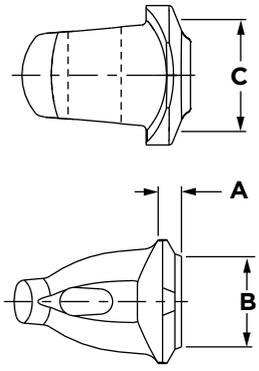
05 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



Type 1



Type 2



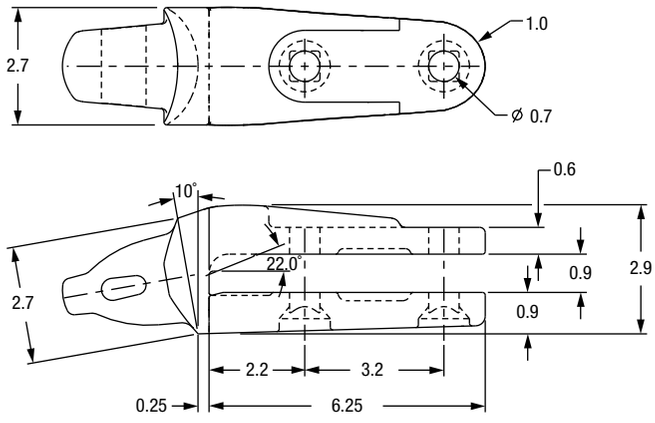
Weld-on Nose

ADAPTERS

XS Series	Part Number	Type	Dimensions								E Bevel Degree	Lip Thickness		Weight	
			A		B		C		D						
			"	mm	"	mm	"	mm	"	mm		"	mm	lb	kg
05	9016MXS05	2	0.6	16	0.5	14	6.0	152	2.7	67	25°	0.5	13	6.9	3.1
	1100XS05	1	1.1	27	2.8	71	5.3	135	2.7	67	30°	1.0	25	5.6	2.5
	1875XS05	1	0.9	24	2.7	67	5.3	133	2.7	67	30°	1.0	25	5.4	2.4
	XS05WN	Weld-on Nose	0.4	11	2.4	60	2.7	67						2.2	1.0

WB93, PC35, PC40

3020MXS05
Center
20mm Lip, 8.0 lb/3.6 kg
Plow bolt Assembly: A58-234
Replaces one-piece tooth Komatsu #KSA4054

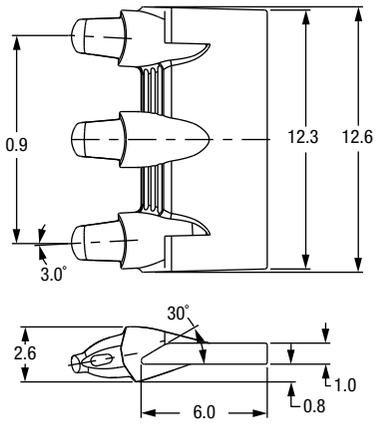


Note: Measurements are in inches.

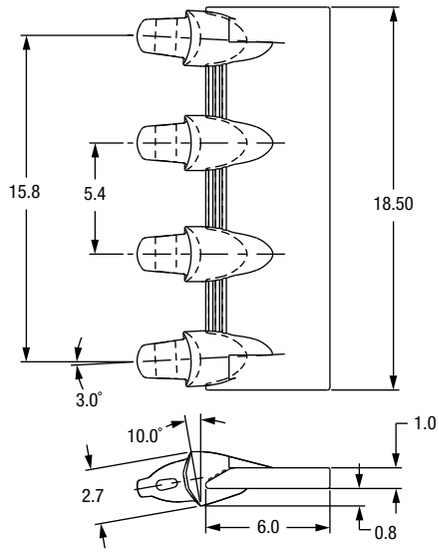
05 SERIES SPECIFICATIONS - CAST LIPS
Exclusively for XS Extreme Service Dealers

XS 05 Cast Lips

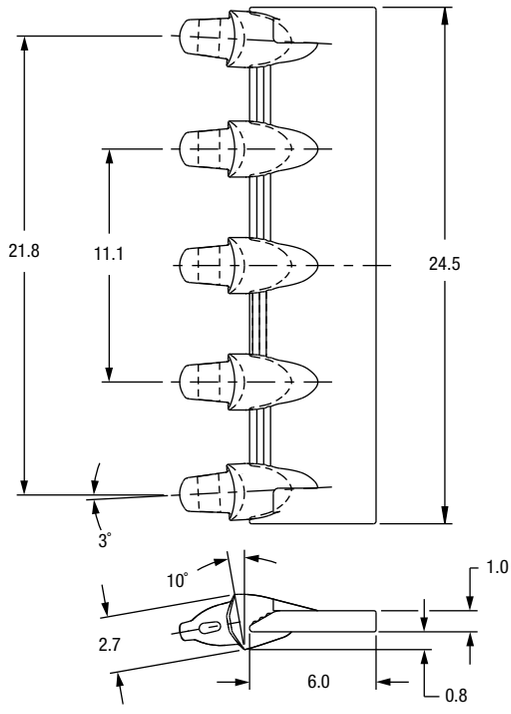
12XS05LIP
1.0” Lip, 31.0 lb/14.1 kg



18XS05LIP
1.0” Lip, 43.3 lb/19.6 kg

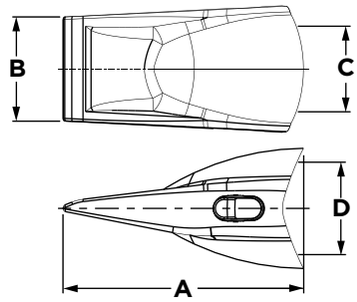


24XS05LIP
1.0” Lip, 57.0 lb/25.9 kg

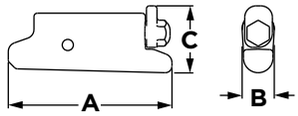


Note: Measurements are in inches.

10 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers

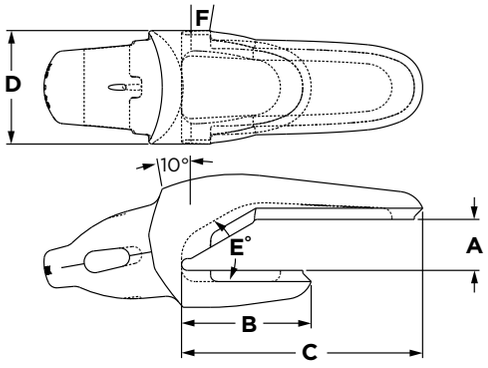


TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
10	XS10	XS10P	6.5	166	2.7	69	2.3	59	2.5	63	4.4	2.0
	XS10F		7.1	181	4.9	124	2.3	59	2.5	63	6.9	3.1
	XS10RC		7.4	188	2.4	60	2.3	59	2.5	63	5.0	2.3
	XS10RP1		7.1	180	2.5	63	2.3	59	2.5	63	6.3	2.9
	XS10SYL		6.9	176	2.8	71	2.3	59	2.5	63	5.1	2.3
	XS10T		7.7	196	0.3	9	2.3	59	2.5	63	4.3	2.0
	XS10TV		7.7	196	0.3	7	2.3	59	2.5	63	4.4	2.0
	XS10UT		7.7	196	3.8	96	2.3	59	2.5	63	5.0	2.3
	XS10WT		7.7	196	3.8	96	2.3	59	2.5	63	4.5	2.0

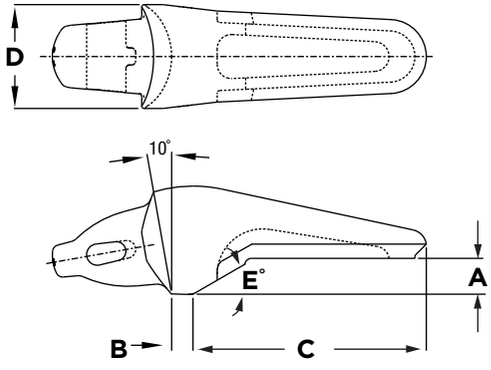


PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Standard Duty	XS10P	3.1	78	0.5	14	1.2	30	0.5	0.2	5/16	8
Removal Tool	PRTXS04										

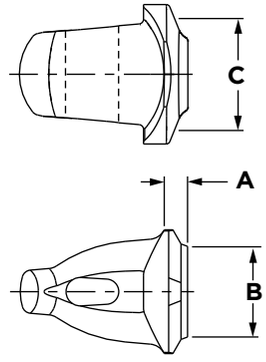
10 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



Type 1



Type 2

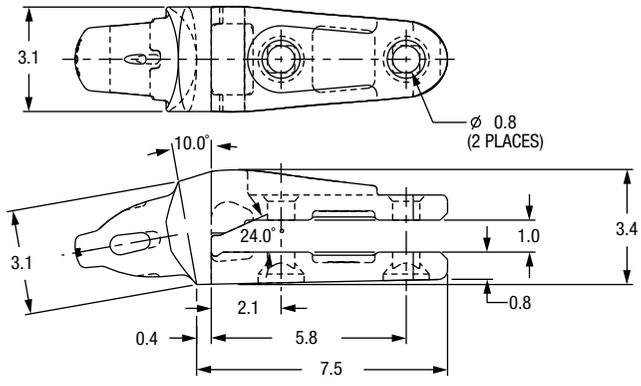


Weld-on Nose

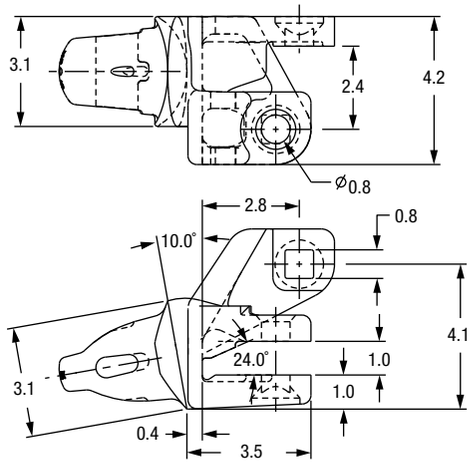
ADAPTERS														
XS Series	Part Number	Type	Dimensions										Weight	
			A		B		C		D		E Bevel Degree	Lip Thickness		
			"	mm	"	mm	"	mm	"	mm		"	mm	lb	kg
10	1100XS10	1	1.1	27	3.2	82	6.2	158	3.1	79	30°	1.0	25	8.9	4.0
	1030MXS10	1	1.3	32	3.3	84	6.3	160	3.1	79	30°		30	8.8	4.0
	2030MXS10	2	1.1	29			7.0	178	3.1	79	30°		30	11.0	5.0
	1125XS10	1	1.3	33	3.3	84	6.3	160	3.1	79	30°	1.25	30	8.4	3.8
	XS10WN	Weld-on Nose	0.5	14	2.75	70	3.1	79						3.5	1.6

WA120, WA150-5

3022MXS10
Center
22mm Lip, 12.0 lb/5.4 kg
Plow bolt Assembly: AC34-300

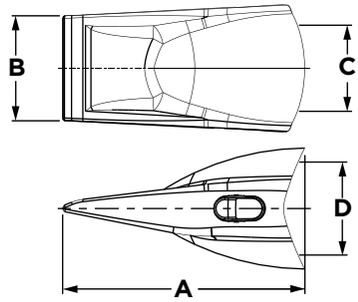


3022MXS10R (L)
LH opposite
22mm Lip, 10.6 lb/4.8 kg
Plow bolt Assembly: AC34-300 / AC34-212



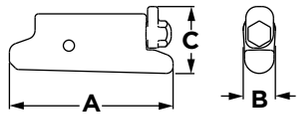
Note: Measurements are in inches.

15 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



TEETH

XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
15	XS15	XS15PC	7.6	192	3.1	79	2.7	67	2.9	74	6.8	3.1
	XS15BPS		8.2	209	3.0	77	2.7	67	2.9	74	10.2	4.6
	XS15F		8.1	205	5.6	142	2.7	67	2.9	74	10.2	4.6
	XS15RC		8.6	217	2.7	69	2.7	67	2.9	74	7.5	3.4
	XS15RP1		8.2	208	2.9	73	2.7	67	2.9	74	9.5	4.3
	XS15RP2		8.5	216	2.9	74	2.7	67	2.9	74	11.4	5.2
	XS15SD		8.6	217	1.8	45	2.7	67	2.9	74	7.9	3.6
	XS15SYL		8.2	207	3.2	82	2.7	67	2.9	74	7.3	3.3
	XS15T		8.9	227	0.4	10	2.7	67	2.9	74	6.4	2.9
	XS15TV		8.9	227	0.3	8	2.7	67	2.9	74	6.5	2.9
	XS15UT		8.9	227	4.4	111	2.7	67	2.9	74	7.2	3.3
	XS15WT		8.9	98	4.4	111	2.7	67	2.9	74	6.4	2.9

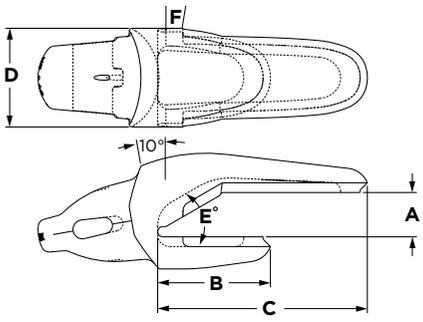


PIN ASSEMBLY

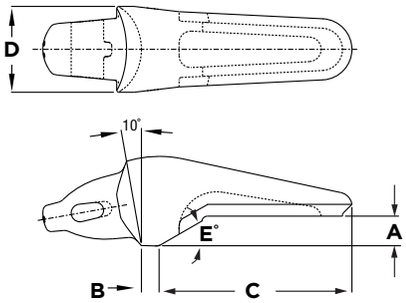
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Standard Duty	XS15PC	3.6	91	0.6	16	1.3	34	0.5	0.2	3/8	10
Slag*	XS15PS	3.6	91	0.6	16	1.3	34	0.8	0.4	3/8	10

*Slag pin is NOT reusable

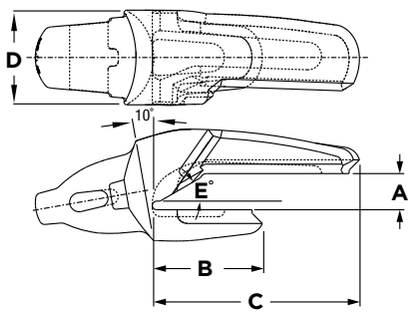
15 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



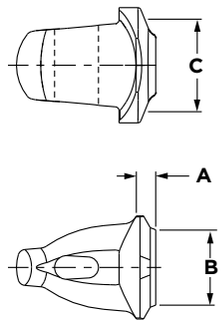
Type 1



Type 2



Type 3



Weld-on Nose

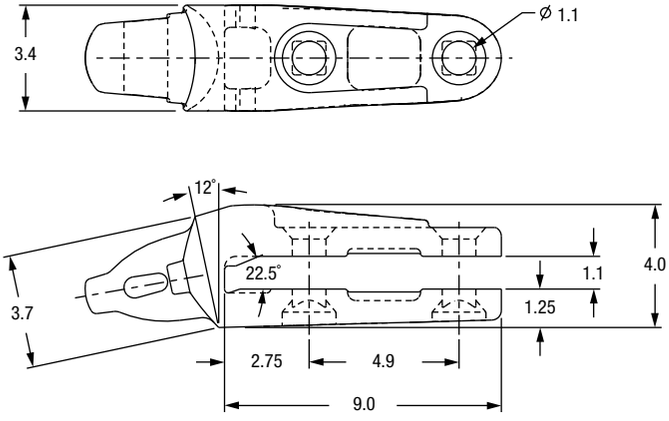
ADAPTERS														
XS Series	Part Number	Type	Dimensions										Weight	
			A		B		C		D		E Bevel Degree	Lip Thickness		
			"	mm	"	mm	"	mm	"	mm		"	mm	lb	kg
15	2025MXS15	2	1.0	27	0.5	13	8.1	206	3.4	87	30°		25	17.5	7.9
	1100XS15	1	1.7	27	4.0	100	7.4	187	3.4	87	30°	1.0	25	13.1	5.9
	1030MXS15	1	1.3	32	3.9	98	7.4	187	3.4	87	30°		30	12.9	5.9
	1125XS15	1	1.3	33	3.9	98	7.4	187	3.4	87	30°	1.25	30	12.7	5.8
	6125XS15L*	3	1.3	33	4.0	102	7.5	191	3.4	87	30°	1.25	30	14.5	6.6
	6125XS15R*	3	1.3	33	4.0	102	7.5	191	3.4	87	30°	1.25	30	14.5	6.6
	1150XS15	1	1.6	40	3.9	100	7.4	189	3.4	87	30°	1.5	35	12.9	5.9
	XS15WN	Weld-on Nose	0.6	15	3.25	83	3.4	87						5.6	2.5

*Notched Corner

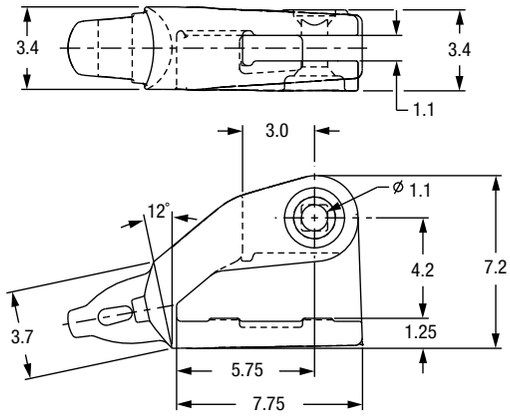
15 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers

Cat 955, 938, 943, 951, 953

1U257XS15
Center
1" Lip, 20.5 lb/9.3 kg
Plow bolt Assembly: AC10-334

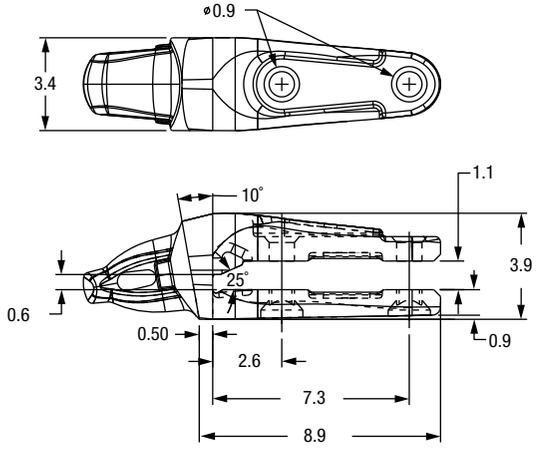


3G4259XS15 (RH Shown)
3G4258XS15 (LH Opposite)
1" Lip, 32.7 lb/14.8 kg
Plow bolt Assembly: AC10-314

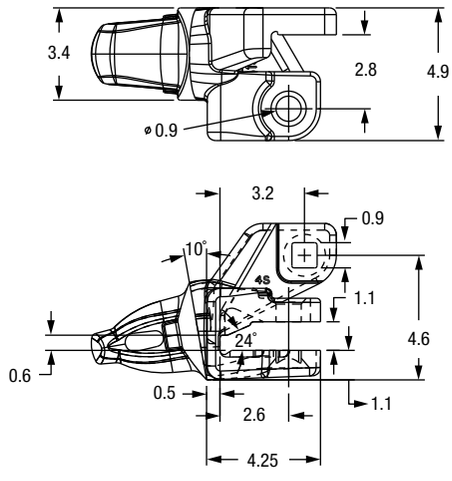


WA180, 200

3025MXS15
Center
1" Lip, 19.0 lb/8.6 kg
Plow bolt Assembly: AC78-312

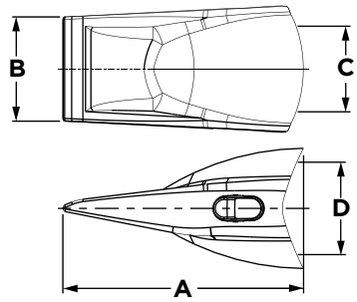


3025MXS15R (RH Shown)
3025MXS15L (LH Opposite)
1" Lip, 17.3 lb/17.9 kg
Plow bolt Assembly: AC78-312

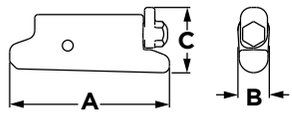


Note: Measurements are in inches.

20 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



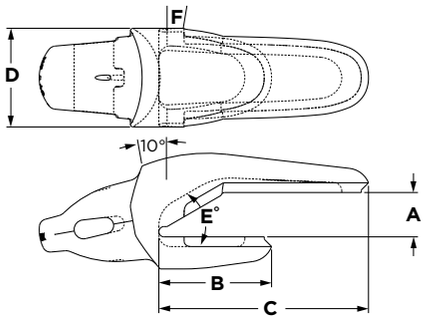
TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
20	XS20	XS20PC	8.6	218	3.5	90	3.0	76	3.3	83	10.0	4.5
	XS20BPS		9.3	237	3.5	88	3.0	76	3.3	83	15.0	6.8
	XS20F		9.4	238	6.4	162	3.0	76	3.3	83	14.2	6.4
	XS20RC		9.7	247	3.1	79	3.0	76	3.3	83	11.9	5.4
	XS20RP1		9.3	237	3.3	83	3.0	76	3.3	83	14.0	6.4
	XS20RP2		9.7	246	3.3	83	3.0	76	3.3	83	16.8	7.6
	XS20SD		9.7	247	2.0	51	3.0	76	3.3	83	11.6	5.3
	XS20SYL		9.25	235	3.7	94	3.0	76	3.3	83	11.4	5.2
	XS20T		10.2	258	0.5	13	3.0	76	3.3	83	9.7	4.4
	XS20TV		10.2	258	0.4	10	3.0	76	3.3	83	9.6	4.4
	XS20UT		10.2	258	4.9	126	3.0	76	3.3	83	10.7	4.9
	XS20WT		10.2	258	4.9	126	3.0	76	3.3	83	10.5	4.8



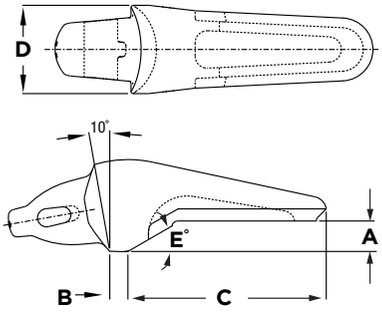
PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Heavy Duty	XS20PC	4.1	103	0.7	18	1.5	39	0.9	0.4	7/16	11
Slag*	XS20PS	4.1	103	0.7	18	1.5	39	0.9	0.4	7/16	11

*Slag pin is NOT reusable

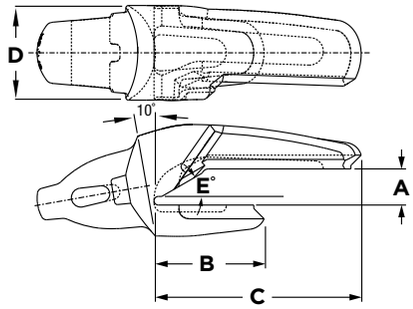
20 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



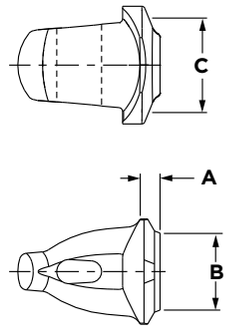
Type 1



Type 2



Type 3



Weld-on Nose

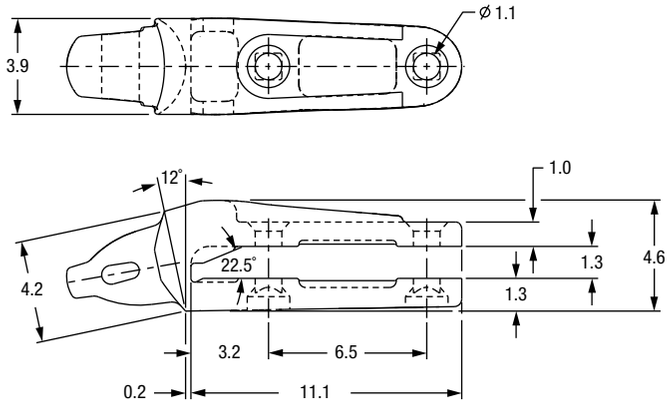
ADAPTERS															
XS Series	Part Number	Type	Dimensions											Weight	
			A		B		C		D		E Bevel Degree	Lip Thickness			
			"	mm	"	mm	"	mm	"	mm		"	mm	lb	kg
20	1030MXS20	1	1.3	32	4.2	107	8.3	210	3.9	100	30°		30	19.8	9.0
	2030MXS20	2	1.3	32			9.3	237	3.9	100	30°		30	24.4	11.1
	1125XS20	1	1.3	33	4.2	107	8.3	210	3.9	100	30°	1.25	30	18.0	8.2
	6125XS20L*	3	1.3	33	4.6	116	8.5	216	3.9	100	30°	1.25	30	21.8	9.9
	6125XS20R*	3	1.3	33	4.6	116	8.5	216	3.9	100	30°	1.25	30	21.8	9.9
	1150XS20	1	1.6	40	4.3	108	8.2	209	3.9	100	30°	1.5	35	18.3	8.3
	6150XS20L*	3	1.6	40	4.4	112	8.4	213	3.9	100	30°	1.5	35	20.8	9.4
	6150XS20R*	3	1.6	40	4.4	112	8.4	213	3.9	100	30°	1.5	35	20.8	9.4
	1040MXS20	1	1.7	42	4.2	107	8.2	209	3.9	100	30°		40	18.2	8.3
	XS20WN	Weld-on Nose	0.7	18	3.75	95	3.9	100						8.5	3.9

*Notched Corner

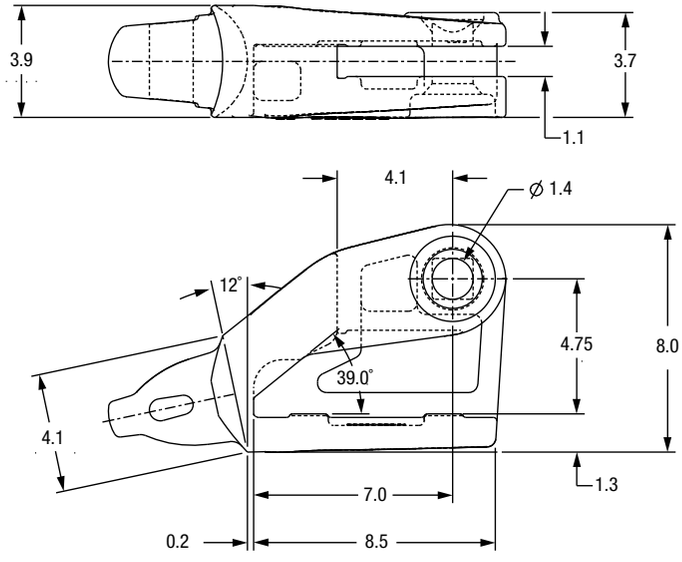
20 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers

Cat 955, 960, 962, 963

4T4307XS20
Center
1.25" Lip, 31.6 lb/14.3 kg
Plow bolt Assembly: AC10-414

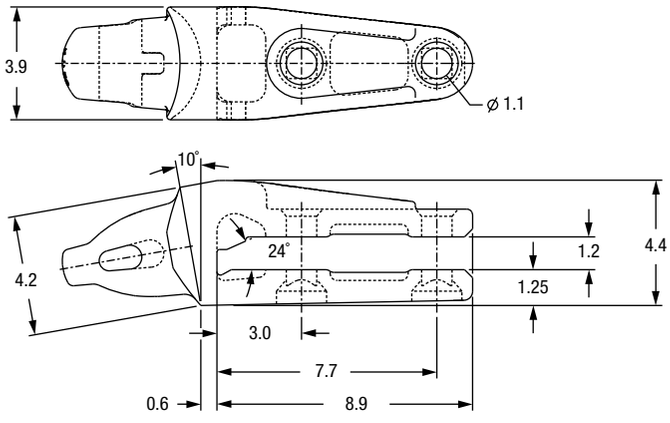


3G4309XS20 (RH Shown)
3G4308XS20 (LH Opposite)
1.25" Lip, 44.6 lb/20.2 kg
Plow bolt Assembly: AC114-400

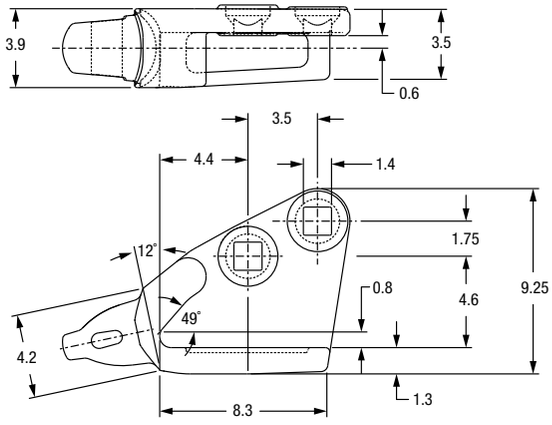


WA250, 320

3028MXS20
Center
28 mm Lip, 31.6 lb/14.3 kg
Plow bolt Assembly: AC10-414

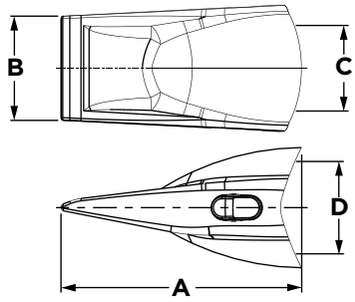


8E5309XS20 (RH Shown)
8E5308XS20 (LH Opposite)
1.25" Lip, 38.6 lb/17.5 kg
Plow bolt Assembly: AC114-400

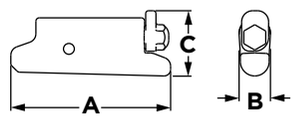


Note: Measurements are in inches.

25 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



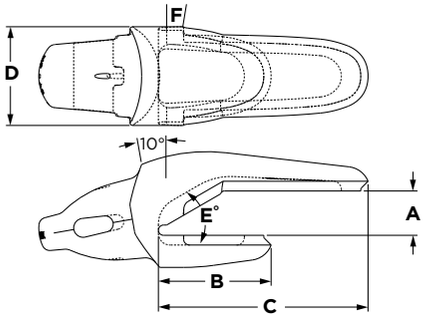
TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
25	XS25	XS25PC	9.75	248	4.0	102	3.4	87	3.75	95	14.3	6.5
	XS25BPS		10.5	267	3.9	100	3.4	87	3.75	95	21.5	9.8
	XS25F		10.6	270	7.25	184	3.4	87	3.75	95	20.8	9.4
	XS25RC		11.0	279	3.5	89	3.4	87	3.75	95	16.7	7.6
	XS25RP1		10.6	268	3.7	95	3.4	87	3.75	95	20.3	9.2
	XS25RP2		11.0	279	3.7	95	3.4	87	3.75	95	24.8	11.2
	XS25SD		11.0	279	2.3	58	3.4	87	3.75	95	16.4	7.4
	XS25SYL		10.5	267	4.2	106	3.4	87	3.75	95	15.9	7.2
	XS25T		11.5	292	0.6	14	3.4	87	3.75	95	15.1	6.8
	XS25TV		11.5	292	0.4	11	3.4	87	3.75	95	13.8	6.3
	XS25UT		11.5	292	5.6	142	3.4	87	3.75	95	15.3	6.9
	XS25WT		11.5	293	5.6	143	3.4	87	3.75	95	15.2	6.9



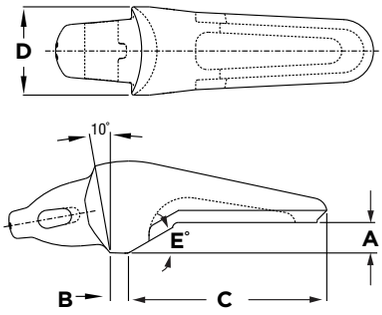
PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Heavy Duty	XS25PC	4.6	118	0.8	21	1.7	44	1.1	0.5	7/16	11
Slag*	XS25PS	4.6	118	0.8	21	1.7	44	1.1	0.5	7/16	11

*Slag pin is NOT reusable

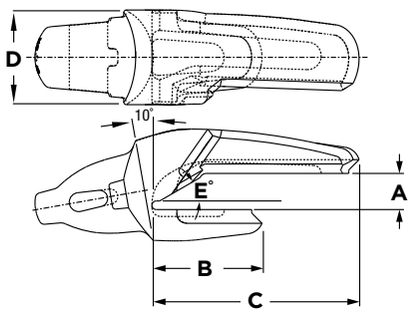
25 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



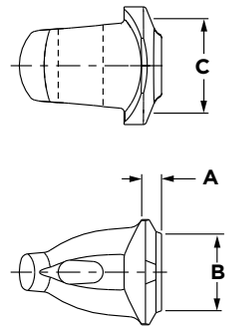
Type 1



Type 2



Type 3

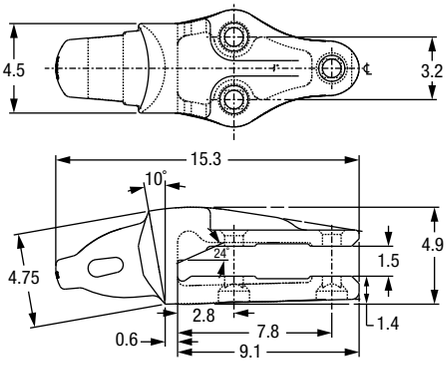


Weld-on Nose

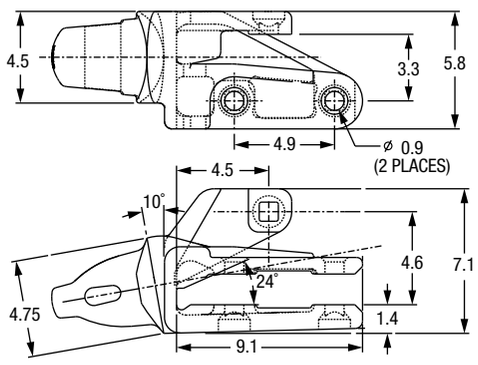
ADAPTERS														
XS Series	Part Number	Type	Dimensions										Weight	
			A		B		C		D		E Bevel Degree	Lip Thickness			
			"	mm	"	mm	"	mm	"	mm		"	mm	lb	kg
25	1035MXS25	1	1.5	37	4.8	121	9.4	238	4.5	114	30°		35	28.2	12.8
	2035MXS25	2	1.4	37	0.6	16	10.5	267	4.5	114	30°		35	37.8	17.1
	1150XS25	1	1.6	40	4.8	121	9.4	238	4.5	114	30°	1.5	35	27.5	12.5
	6150XS25L*	3	1.6	40	5.1	130	9.6	244	4.5	114	30°	1.5	35	30.7	13.9
	6150XS25R*	3	1.6	40	5.1	130	9.6	244	4.5	114	30°	1.5	35	30.7	13.9
	1040MXS25	1	1.7	42	4.8	121	9.3	235	4.5	114	30°		40	27.3	12.4
	1175XS25	1	1.8	46	4.8	121	9.3	237	4.5	114	30°	1.75	45	26.9	12.2
	6175XS25L*	3	1.8	46	5.0	127	9.5	241	4.5	114	30°	1.75	45	30.8	14.0
	6175XS25R*	3	1.8	46	5.0	127	9.5	241	4.5	114	30°	1.75	45	30.8	14.0
	XS25WN	Weld-on Nose	0.8	20	4.3	110	4.5	114						12.5	5.7

*Notched Corner

3036MXS25
Center
36mm Lip, 31.8 lb/14.4 kg
Plow bolt Assembly AC78-400



3036MXS25R (RH Shown)
3036MXS25L (LH Opposite)
36mm Lip, 37.5 lb/17.0 kg
Plow bolt Assembly AC78-400

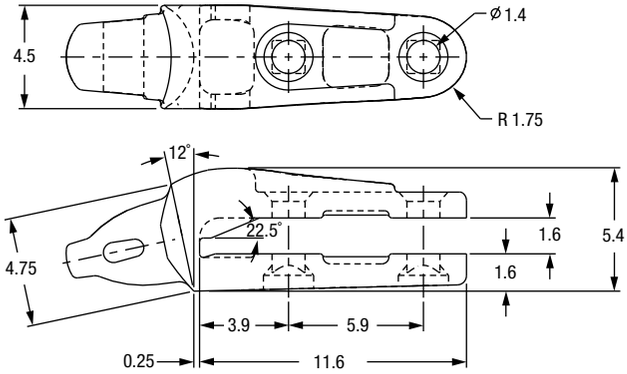


Note: Measurements are in inches.

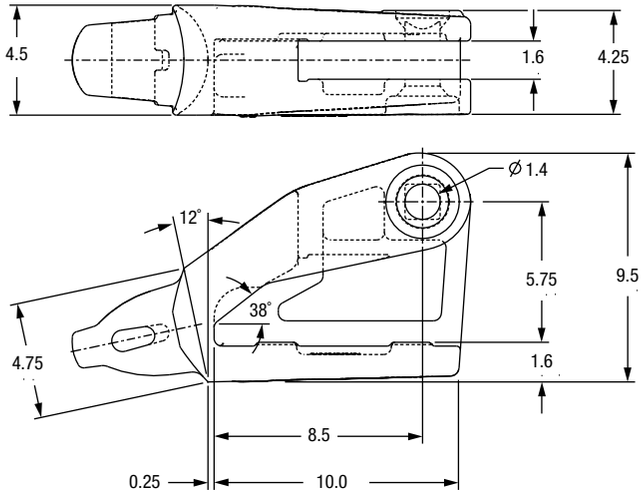
25 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers

Cat 966, 970, 972, 973, 977

3G3357XS25
Center
1.5” Lip, 45.2 lb/20.5 kg
(2) Plow bolt Assembly: AC114-500

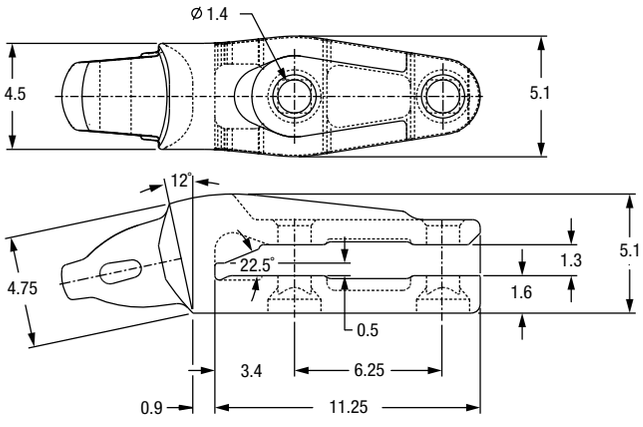


3G5359XS25 (RH Shown)
3G5358XS25 (LH Opposite)
1.625” Lip, 67.0 lb/30.4 kg
Plow bolt Assembly: AC114-400

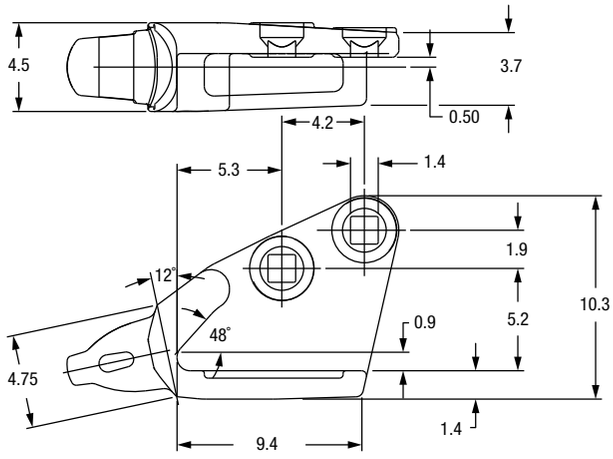


Cat 963B, 966C

3G7357XS25
1.25” Lip, 51.0 lb/23.2 kg
Plow bolt Assembly: A114-500



8E5359XS25 (RH Shown)
8E5358XS25 (LH Opposite)
1.25” Lip, 57.8 lb/26.1 kg
Plow bolt Assembly: A114-400

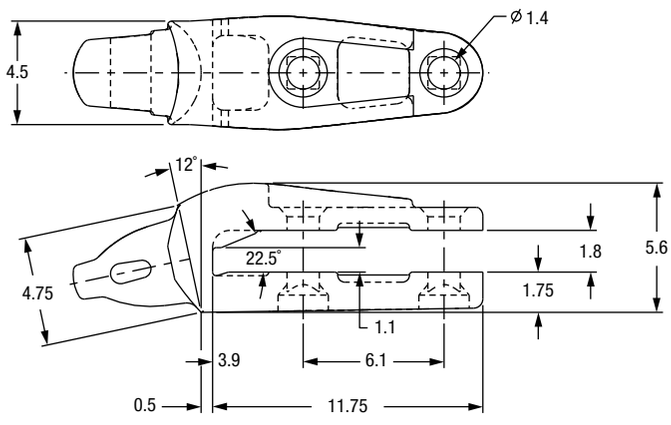


Note: Measurements are in inches.

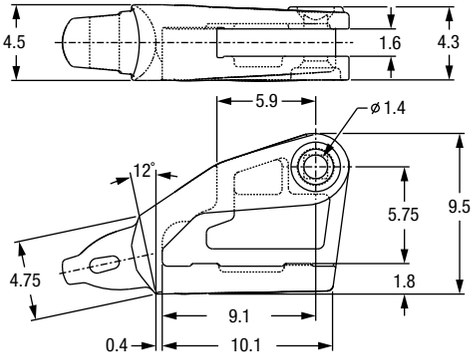
25 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers

Cat 980C, 980F

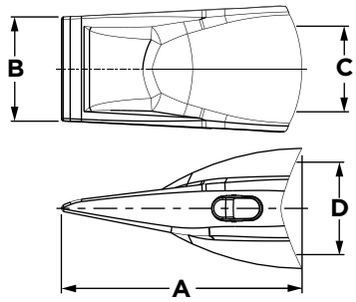
1U1357XS25
Center
1.75” Lip, 52.0 lb/23.6 kg
Plow bolt Assembly: AC114-500



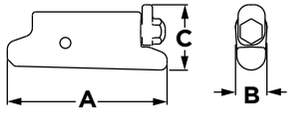
1U1359XS25 (RH Shown)
1U1358XS25 (LH Opposite)
1.75” Lip, 67.0 lb/30.4 kg
Plow bolt Assembly: AC114-400



30 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



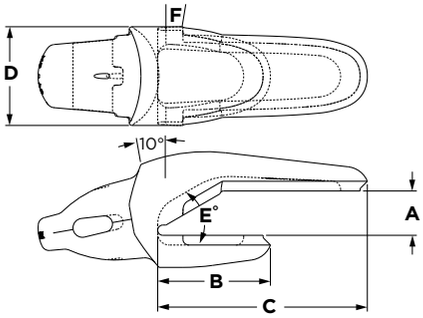
TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
30	XS30	XS30PC	10.8	274	4.4	113	3.8	97	4.2	106	19.4	8.8
	XS30BPS		11.6	295	4.3	110	3.8	97	4.2	106	28.6	13.0
	XS30F		11.75	298	8.0	204	3.8	97	4.2	106	30.1	13.7
	XS30HP		12.3	313	4.0	102	3.8	97	4.2	106	24.6	11.2
	XS30RC		12.3	313	4.1	103	3.8	97	4.2	106	22.0	10.0
	XS30RP1		11.7	297	4.1	105	3.8	97	4.2	106	27.2	12.3
	XS30RP2		12.2	309	4.1	105	3.8	97	4.2	106	33.6	15.2
	XS30SD		12.3	313	2.5	64	3.8	97	4.2	106	22.8	10.3
	XS30SYL		11.6	295	4.6	117	3.8	97	4.2	106	20.8	9.4
	XS30T		12.7	323	0.6	14	3.8	97	4.2	106	17.6	8.0
	XS30TV		12.7	323	0.5	12	3.8	97	4.2	106	18.4	8.3
	XS30UT		12.7	323	6.2	157	3.8	97	4.2	106	21.0	9.5
	XS30WT		12.7	323	6.2	157	3.8	97	4.2	106	21.0	9.5



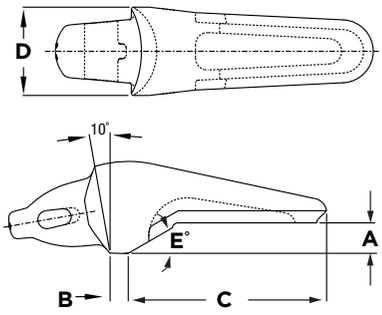
PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Heavy Duty	XS30PC	5.1	130	0.9	23	1.9	48	1.3	0.6	7/16	11
Slag*	XS30PS	5.1	130	0.9	23	1.9	48	1.3	0.6	7/16	11

*Slag pin is NOT reusable

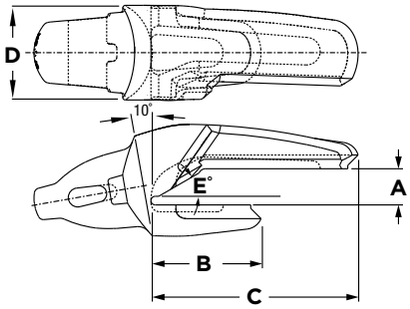
30 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



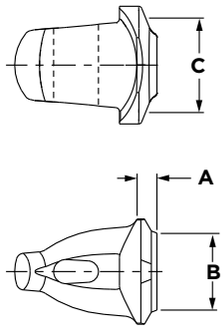
Type 1



Type 2



Type 3

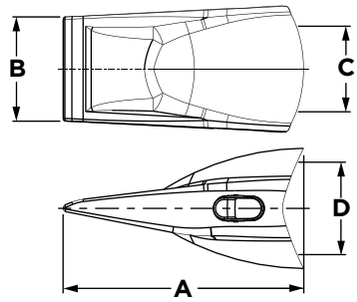


Weld-on Nose

ADAPTERS														
XS Series	Part Number	Type	Dimensions										Weight	
			A		B		C		D		E Bevel Degree	Lip Thickness		
			″	mm	″	mm	″	mm	″	mm		″	mm	lb	kg
30	1040MXS30	1	1.6	42	5.0	128	10.2	258	4.9	125	30°		40	38.6	17.5
	1040MXS30L	1	1.7	42	5.6	141	10.5	267	4.9	125	30°		40	41.3	18.7
	1040MXS30R	1	1.7	42	5.6	141	10.5	267	4.9	125	30°		40	41.3	18.7
	2040MXS30	2	1.6	42	0.7	17.5	11.6	294	4.9	125	30°		40	46.4	21.0
	1045MXS30	1	1.9	47	5.0	127	10.1	256	4.9	125	30°		45	37.2	16.9
	1175XS30	1	1.8	46	5.0	128	10.2	258	4.9	125	30°	1.75	45	36.6	16.6
	6175XS30L*	3	1.8	46	5.5	140	10.5	266	4.9	125	30°	1.75	45	37.6	17.1
	6175XS30R*	3	1.8	46	5.5	140	10.5	266	4.9	125	30°	1.75	45	38.2	17.3
	1050MXS30	1	2.1	53	4.9	124	10.0	254	4.9	125	30°		50	33.4	15.2
	1200XS30	1	2.1	53	5.0	126	10.1	256	4.9	125	30°	2.0	50	34.9	15.8
	6200XS30L*	3	2.1	53	5.25	133	10.5	267	4.9	125	30°	2.0	50	38.2	17.3
	6200XS30R*	3	2.1	53	5.25	133	10.5	267	4.9	125	30°	2.0	50	38.2	17.3
	XS30WN	Weld-on Nose	0.9	22	4.8	121	4.9	125						17.6	8.0

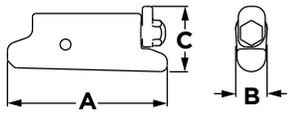
*Notched Corner

40 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



TEETH

XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
40	XS40	XS40PC	11.5	292	4.7	120	3.9	100	4.4	111	23.8	10.8
	XS40ABR		13.0	331	6.7	171	3.9	100	4.4	111	53.0	24.0
	XS40AG		13.0	330	5.9	150	3.9	100	4.4	111	45.2	20.5
	XS40BPS		12.4	314	4.5	114	3.9	100	4.4	111	33.0	15.0
	XS40F		12.5	318	8.6	218	3.9	100	4.4	111	38.5	17.5
	XS40HP		13.1	333	4.3	108	3.9	100	4.4	111	30.7	13.9
	XS40RC		13.1	333	4.3	110	3.9	100	4.4	111	30.0	13.6
	XS40RP1		12.4	316	4.4	111	3.9	100	4.4	111	34.4	15.6
	XS40RP2		12.9	328	4.4	111	3.9	100	4.4	111	39.8	18.1
	XS40SD		13.1	333	2.7	68	3.9	100	4.4	111	28.2	12.8
	XS40SYL		12.4	314	4.9	125	3.9	100	4.4	111	26.9	12.2
	XS40T		13.6	345	0.6	15	3.9	100	4.4	111	24.3	11.0
	XS40TV		13.6	345	0.5	13	3.9	100	4.4	111	23.0	10.4
	XS40UT		13.6	345	6.6	168	3.9	100	4.4	111	25.6	11.6
	XS40WT		13.6	345	6.6	168	3.9	100	4.4	111	25.8	11.7



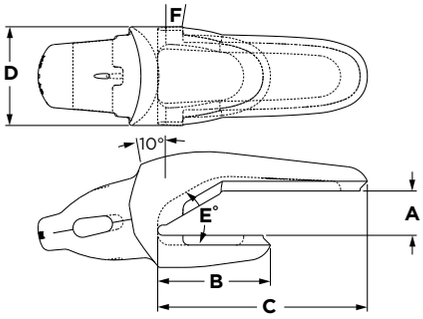
PIN ASSEMBLY

Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Heavy Duty	XS40PC	5.4	138	1.0	24	2.0	52	1.8	0.8	9/16	14
Slag*	XS40PS	5.4	138	1.0	24	2.0	52	1.8	0.8	9/16	14

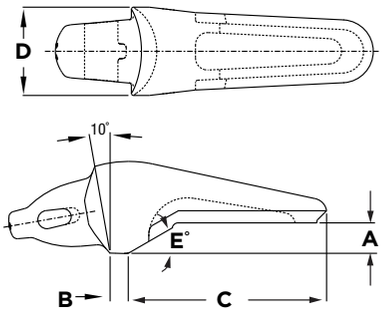
*Slag pin is NOT reusable

40 SERIES SPECIFICATIONS - ADAPTERS & NOSES

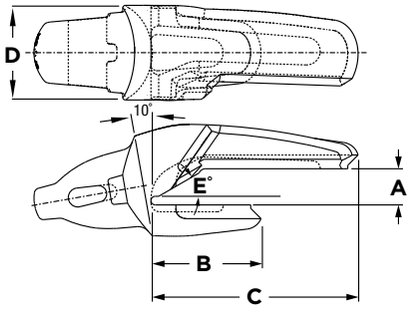
Exclusively for XS Extreme Service Dealers



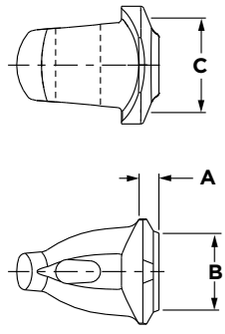
Type 1



Type 2



Type 3



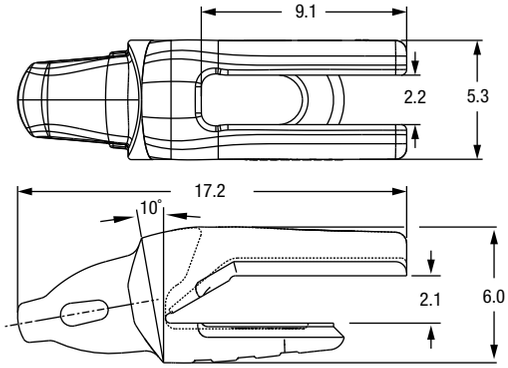
Weld-on Nose

ADAPTERS																
XS Series	Part Number	Type	Dimensions												Weight	
			A		B		C		D		E Bevel Degree	F Spade Angle	Lip Thickness			
			"	mm	"	mm	"	mm	"	mm			"	mm	lb	kg
40	1045MXS40	1	1.9	47	5.75	146	11.0	279	5.3	134	30°	-		45	43.2	19.6
	2045MXS40	2	1.8	47	0.75	19	12.3	312	5.3	134	30°	-		45	59.0	26.8
	1200XS40	1	2.1	53	5.6	143	11.0	280	5.3	134	30°	-	2.0	50	43.5	19.7
	1200XS40L	1 Spade	2.1	53	5.9	149	11.1	283	5.3	134	30°	12°	2.0	50	46.2	21.0
	1200XS40R	1 Spade	2.1	53	5.9	149	11.1	283	5.3	134	30°	12°	2.0	50	46.2	21.0
	6200XS40L*	3	2.1	53	5.8	148	11.25	286	5.3	134	30°	-	2	50	48.7	22.1
	6200XS40R*	3	2.1	53	5.8	148	11.25	286	5.3	134	30°	-	2	50	48.7	22.1
	1055MXS40	1	2.3	57	5.6	143	10.7	271	5.3	134	30°	-		55	43.3	19.6
	1060MXS40	1	2.5	62	5.6	141	11.0	279	5.3	134	30°	-		60	42.9	19.5
	1250XS40	1	2.6	66	5.75	146	11.2	284	5.3	134	30°	-	2.5	60	46.8	21.2
	XS40WN	Weld-on Nose	0.9	23	5.1	129	5.3	134							20.0	9.1

*Notched Corner

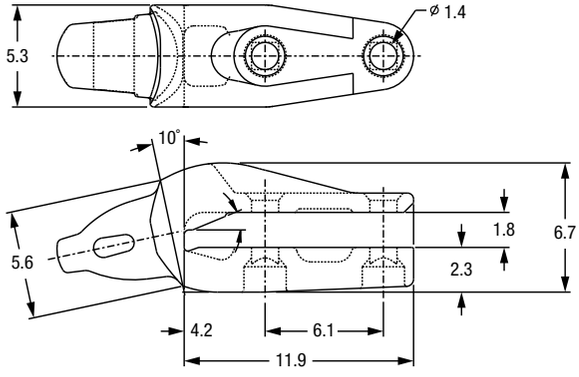
40 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers

1200XS40SL
Corner Straddle Leg
2' Lip, 54.0 lb/24.5 kg

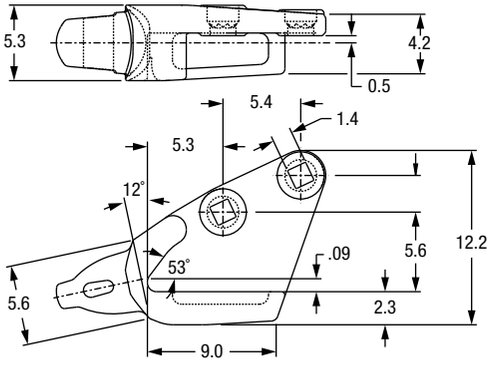


Cat 980F, G

6I9898XS40
Center
1.75" Lip, 71.0 lb/31.3 kg
Plow Bolt Assemby AC114-500

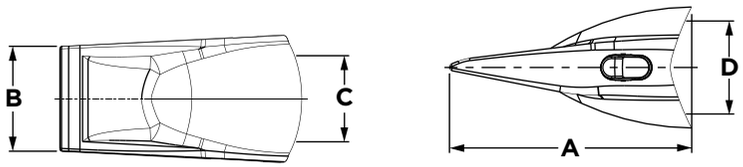


6I8243XS40 (RH Shown)
6I8244XS40 (LH Opposite)
1.75" Lip, 87.0 lb/39.5 kg
Plow Bolt Assemby AC114-500



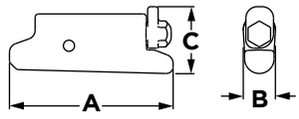
Note: Measurements are in inches.

50 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



TEETH

XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			″	mm	″	mm	″	mm	″	mm	lb	kg
50	XS50	XS50PC	12.75	324	5.25	133	4.5	114	4.9	125	33.1	15.0
	XS50ABR		14.6	370	7.5	191	4.5	114	4.9	125	71.0	32.2
	XS50AG		14.5	368	6.6	167	4.5	114	4.9	125	63.0	28.6
	XS50BPS		13.8	351	5.1	130	4.5	114	4.9	125	47.9	21.7
	XS50F		13.9	353	9.5	241	4.5	114	4.9	125	51.3	23.3
	XS50HP		14.6	370	4.7	120	4.5	114	4.9	125	42.2	19.1
	XS50RC		14.4	366	4.6	117	4.5	114	4.9	125	38.3	17.4
	XS50RP1		13.8	351	4.9	124	4.5	114	4.9	125	48.4	22.0
	XS50RP2		14.4	365	4.9	124	4.5	114	4.9	125	55.0	24.9
	XS50RPX		14.8	376	4.8	123	4.5	114	4.9	125	70.0	31.8
	XS50SD		14.4	366	3.0	75	4.5	114	4.9	125	38.3	17.4
	XS50SYL		13.9	352	5.6	141	4.5	114	4.9	125	38.2	17.3
	XS50T		15.1	383	0.7	17	4.5	114	4.9	125	33.5	15.2
	XS50TV		15.1	383	0.6	14	4.5	114	4.9	125	31.5	14.3
	XS50UT		15.1	383	7.3	186	4.5	114	4.9	125	32.5	14.7
	XS50WT		15.1	383	7.3	187	4.5	114	4.9	125	33.8	15.3



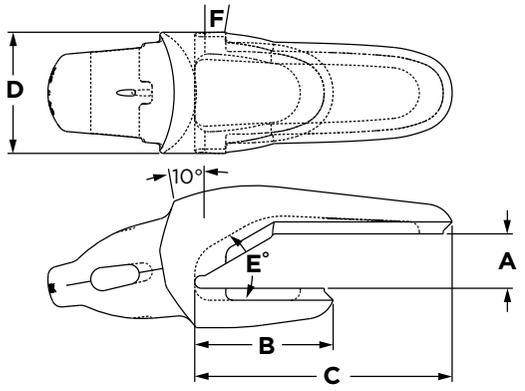
PIN ASSEMBLY

Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		″	mm	″	mm	″	mm	lb	kg	″	mm
Heavy Duty	XS50PC	6.1	156	1.1	27	2.3	57	2.5	1.1	9/16	14
Slag*	XS50PS	6.1	156	1.1	27	2.2	56	2.5	1.1	9/16	14

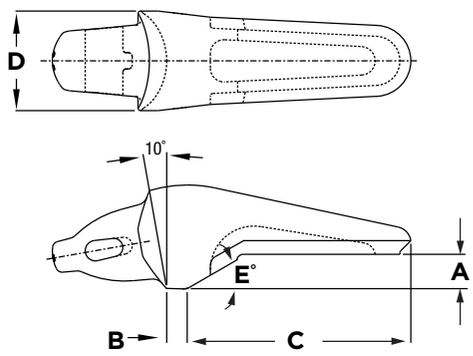
*Slag pin is NOT reusable

50 SERIES SPECIFICATIONS - ADAPTERS & NOSES

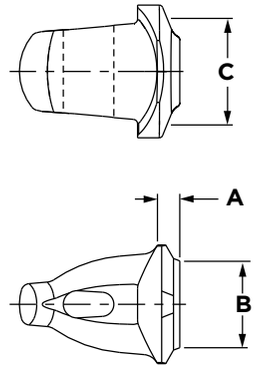
Exclusively for XS Extreme Service Dealers



Type 1



Type 2



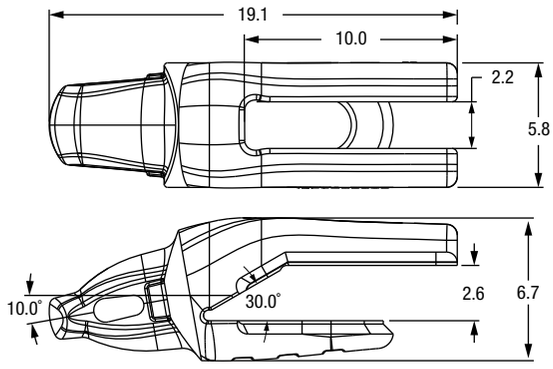
Weld-on Nose

ADAPTERS																
XS Series	Part Number	Type	Dimensions												Weight	
			A		B		C		D		E Bevel Degree	F Spade Angle	Lip Thickness			
			"	mm	"	mm	"	mm	"	mm			"	mm	lb	kg
50	1200XS50	1	2.1	53	6.25	159	11.8	301	5.8	148	30°	-	2.0	50	60.0	27.2
	1200XS50L	1 Spade	2.1	53	6.75	171	12.5	318	5.8	148	30°	12°	2.0	50	63.0	28.6
	1200XS50R	1 Spade	2.1	53	6.75	171	12.5	318	5.8	148	30°	12°	2.0	50	63.0	28.6
	1200XS50WC	1	2.1	53	9.75	248	11.9	302	6.1	154	30°	-	2.0	50	80.0	36.3
	1200XS50RWC	1 Spade	2.1	53	9.75	248	11.9	302	6.1	154	30°	15°	2.0	50	83.0	37.7
	1200XS50LWC	1 Spade	2.1	53	9.75	248	11.9	302	6.1	154	30°	15°	2.0	50	83.0	37.7
	2050MXS50	2	2.0	52	1.0	25	13.7	348	5.8	148	30°	-	2	50	87.0	39.5
	1060MXS50	1	2.5	62	6.25	159	11.8	300	5.8	148	30°	-		60	60.0	27.2
	2060MXS50	2	2.4	60	1.0	25	13.9	352	5.8	148	30°	-		60	83.0	37.6
	1250XS50	1	2.6	66	6.25	159	11.8	300	5.8	148	30°	-	2.5	60	60.0	27.2
	1250XS50L	1 Spade	2.6	66	6.7	170	12.4	316	5.8	148	30°	12°	2.5	60	67.0	30.4
	1250XS50R	1 Spade	2.6	66	6.7	170	12.4	316	5.8	148	30°	12°	2.5	60	67.0	30.4
	1250XS50WC*	1	2.6	66	10.0	254	12.1	308	6.1	154	30°	-	2.5	60	80.0	36.3
	1250XS50RWC*	1 Spade	2.6	66	10.0	254	12.1	308	6.1	154	30°	15°	2.5	60	83.0	37.7
	1250XS50LWC	1 Spade	2.6	66	10.0	254	12.1	308	6.1	154	30°	15°	2.5	60	83.0	37.7
	1065MXS50	1	2.7	67	6.25	159	11.8	300	5.8	148	30°	-		65	59.0	26.8
	1275XS50	1	2.8	72	6.3	160	11.8	300	5.8	148	30°	-	2.75	70	60.0	27.2
	XS50WN	Weld-on Nose	1.0	26	5.6	143	5.8	148							28.8	13.1

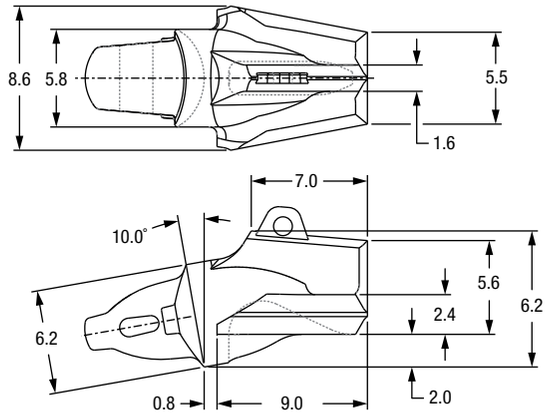
*Uses wear cap U50HX

50 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers

1250XS50SL
Corner Straddle Leg
2.5” Lip, 74.0 lb/33.6 kg

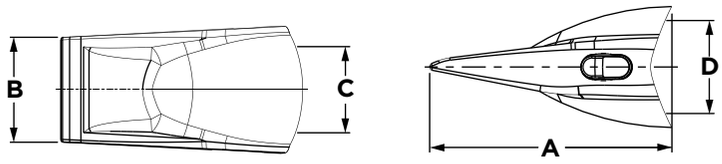


1060MX50CC
T Corner Adapter
60mm Lip, 91.0 lb/41.3 kg

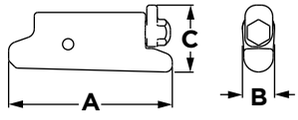


Note: Measurements are in inches.

70 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
70	XS70	XS70PC	13.8	351	5.7	144	4.9	124	5.3	136	41.5	18.8
	XS70ABR		15.7	398	8.1	206	4.9	124	5.3	136	91.0	41.3
	XS70AG		15.7	398	7.1	181	4.9	124	5.3	136	77.0	34.9
	XS70BPS		12.4	316	5.5	141	4.9	124	5.3	136	62.0	28.1
	XS70F		14.9	378	10.2	259	4.9	124	5.3	136	63.0	28.6
	XS70HP		15.7	399	5.1	130	4.9	124	5.3	136	51.6	23.4
	XS70RC		15.6	397	5.0	126	4.9	124	5.3	136	46.1	20.9
	XS70RP1		15.0	381	4.8	122	4.9	124	5.3	136	56.0	25.4
	XS70RP2		15.5	394	5.2	132	4.9	124	5.3	136	69.0	31.3
	XS70RPX		16.0	406	5.2	133	4.9	124	5.3	136	86.0	39.0
	XS70SD		15.6	397	3.2	82	4.9	124	5.3	136	47.8	21.7
	XS70SYL		15.0	381	6.0	152	4.9	124	5.3	136	44.6	20.2
	XS70T		16.3	414	0.7	18	4.9	124	5.3	136	41.4	18.8
	XS70TV		16.3	414	0.6	15	4.9	124	5.3	136	39.5	17.9
	XS70UT		16.3	414	7.9	201	4.9	124	5.3	136	44.6	20.2
	XS70WT		16.3	415	8.0	202	4.9	124	5.3	136	43.7	19.8

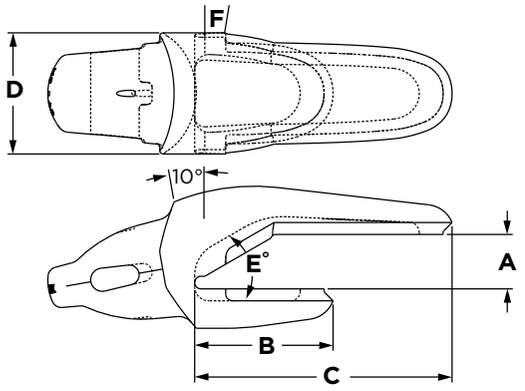


PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Heavy Duty	XS70PC	6.7	169	1.2	29	2.5	63	3.2	1.5	9/17	15
Slag*	XS70PS	6.7	169	1.2	29	2.5	63	3.2	1.5	9/16	14

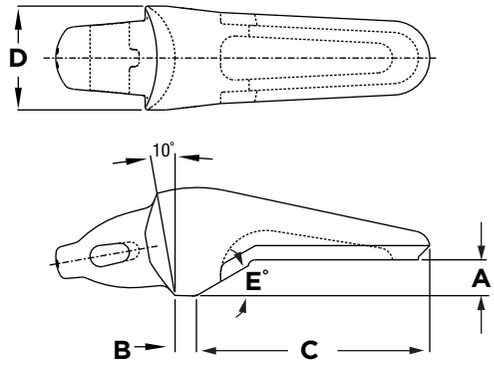
*Slag pin is NOT reusable

70 SERIES SPECIFICATIONS - ADAPTERS & NOSES

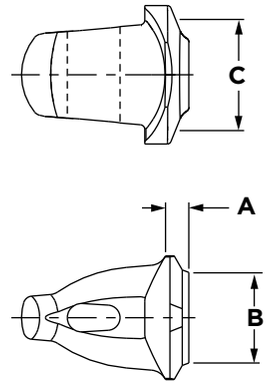
Exclusively for XS Extreme Service Dealers



Type 1



Type 2



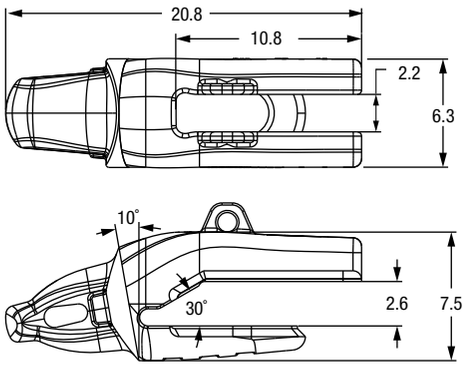
Weld-on Nose

ADAPTERS																
XS Series	Part Number	Type	Dimensions												Weight	
			A		B		C		D		E Bevel Degree	F Spade Angle	Lip Thickness			
			"	mm	"	mm	"	mm	"	mm			"	mm	lb	kg
70	1200XS70	1	2.1	53	7.0	178	13.4	340	6.3	161	30°	-	2	50	79.0	35.8
	1250XS70	1	2.6	66	7.0	178	13.3	338	6.3	161	30°	-	2.5	60	75.0	34.0
	1250XS70L	1 Spade	2.6	66	7.1	179	13.4	340	6.3	161	30°	12°	2.5	60	84.0	38.1
	1250XS70R	1 Spade	2.6	66	7.1	179	13.4	340	6.3	161	30°	12°	2.5	60	84.0	38.1
	1250XS70WC*	1	2.6	66	11.3	288	13.2	335	6.3	161	30°	12°	2.5	60	97.0	44.0
	1250XS70RWC*	1 Spade	2.6	66	11.25	286	13.1	333	6.3	161	30°	12°	2.5	60	105.0	47.6
	1250XS70LWC*	1 Spade	2.6	66	11.25	286	13.1	333	6.3	161	30°	12°	2.5	60	105.0	47.6
	2065MXS70	2	2.7	67	1.1	28	15.0	381	6.3	161	30°	-		65	106.0	48.1
	1070MXS70	1	2.9	72	7.2	184	13.5	342	6.3	161	30°	-	2.75	70	81.0	36.7
	1275XS70	1	2.8	72	7.25	184	13.5	343	6.3	161	30°	-	2.75	70	81.0	36.7
	1275XS70L	1 Spade	2.8	72	7.5	191	13.75	349	6.3	161	30°	12°	2.75	70	86.0	39.0
	1275XS70R	1 Spade	2.8	72	7.5	191	13.75	349	6.3	161	30°	12°	2.75	70	86.0	39.0
	1275XS70WC*	1	2.8	72	11.25	286	13.5	343	6.3	161	30°	12°	2.75	70	98.0	44.5
	1275XS70RWC*	1 Spade	2.8	72	11.25	286	13.5	343	6.3	161	30°	12°	2.75	70	103.0	46.7
	1275XS70LWC*	1 Spade	2.8	72	11.25	286	13.5	343	6.3	161	30°	12°	2.75	70	103.0	46.7
	1300XS70	1	3.1	79	7.25	184	13.5	343	6.3	161	30°	-	3	75	72.0	32.7
	1080MXS70	1	3.2	82	7.25	184	13.5	343	6.3	161	30°	-	3.0	80	78.0	35.4
	1080MXS70L	1 Spade	3.2	82	7.5	191	13.5	343	6.3	161	30°	12°	3.0	80	84.0	38.1
	1080MXS70R	1 Spade	3.2	82	7.5	191	13.5	343	6.3	161	30°	12°	3.0	80	84.0	38.1
	XS70WN	Weld-on nose	1.1	28	6.1	156	6.3	161							37.3	16.9

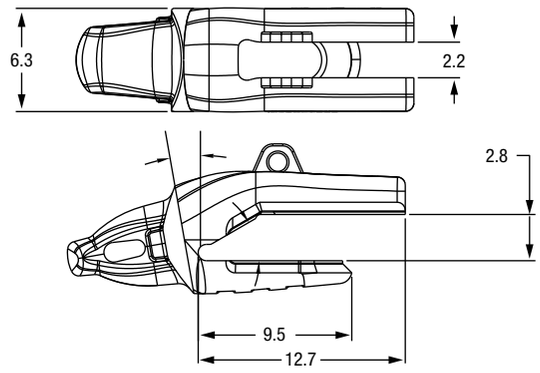
*Requires U70HX Wear Cap

70 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers

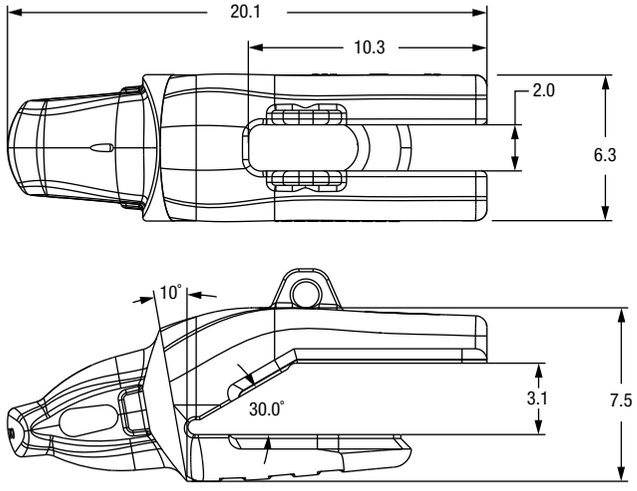
1250XS70SL
Corner Straddle Leg
2.5” Lip, 102.5 lb/46.5 kg



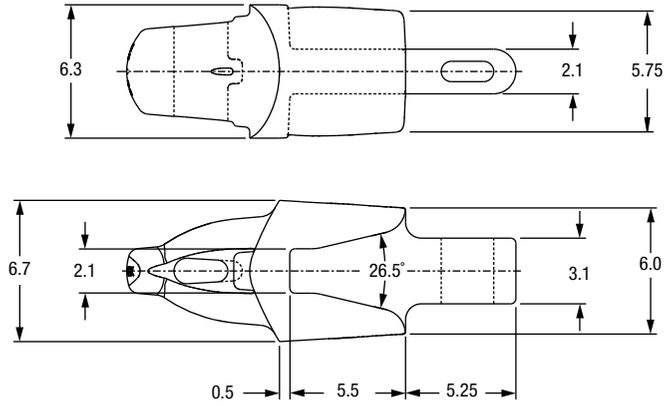
1275XS70SL
Corner Straddle Leg
2.5” Lip, 98.0 lb/44.5 kg



1300XS70SL
Corner Straddle Leg
3.0” Lip, 98.2 lb/44.5 kg

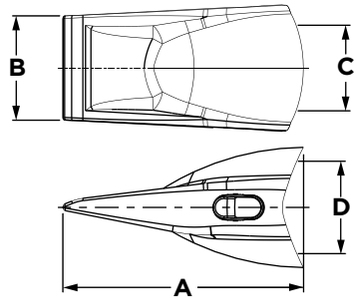


158XS70
Center Dragline
3.0” Lip, 80.0 lb/36.3 kg

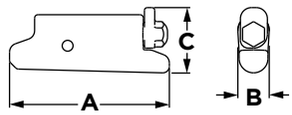


Note: Measurements are in inches.

85 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



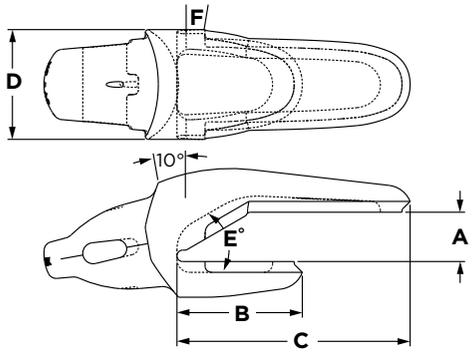
TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
85	XS85AG	XS85PX	16.7	424	7.6	194	5.2	133	5.7	144	97.0	44.0
	XS85RC		16.8	426	5.3	136	5.2	133	5.7	144	55.0	24.9
	XS85RP2		17.1	435	5.6	141	5.2	133	5.7	144	93.0	42.2
	XS85RP3		17.1	435	6.0	152	5.2	133	5.7	144	104.0	47.2
	XS85RPX		17.2	436	5.6	142	5.2	133	5.7	144	111.0	50.3
	XS85SD		15.6	396	4.25	108	5.2	133	5.7	144	56.0	25.4
	XS85SYL		15.9	403	6.4	163	5.2	133	5.7	144	53.5	24.3
	XS85T		17.4	441	0.8	20	5.2	133	5.7	144	47.0	21.3
	XS85TV		17.4	441	0.6	16	5.2	133	5.7	144	50.5	22.9
	XS85UT		17.4	441	8.5	215	5.2	133	5.7	144	55.0	24.9
	XS85WT		17.4	441	8.5	215	5.2	133	5.7	144	56.0	25.4



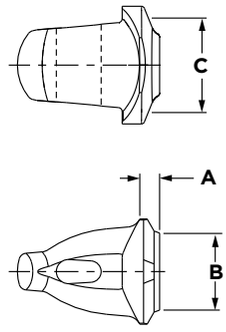
PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Heavy Duty	XS85PX	7.0	178	1.2	31	2.6	65	3.8	1.7	9/16	14
Standard	XS85PC	7.0	178	1.2	31	2.6	65	3.8	1.7	9/16	14
Slag*	XS85PS	7.0	178	1.2	31	2.6	65	3.2	1.5	9/17	15

*Slag pin is NOT reusable

85 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



Type 1



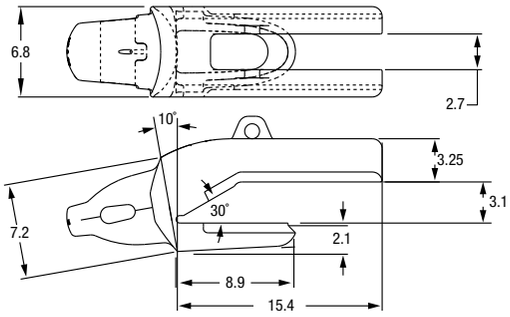
Weld-on Nose

ADAPTERS																
XS Series	Part Number	Type	Dimensions												Weight	
			A		B		C		D		E Bevel Degree	F Spade Angle	Lip Thickness			
			″	mm	″	mm	″	mm	″	mm			″	mm	lb	kg
85	1250XS85	1	2.6	66	7.5	191	14.0	364	6.8	173	30°	-	2.5	60	98.0	44.5
	1275XS85	1	2.8	72	7.5	191	14.0	365	6.8	173	30°	-	2.75	70	94.0	42.6
	1275XS85L	1 Spade	2.8	72	7.4	189	14.0	360	6.8	173	30°	12°	2.75	70	103.0	46.7
	1275XS85R	1 Spade	2.8	72	7.4	189	14.0	360	6.8	173	30°	12°	2.75	70	103.0	46.7
	1300XS85	1	3.1	79	7.5	191	14.25	362	6.8	173	30°	-	3.0	75	97.0	44.0
	1300XS85L	1 Spade	3.1	78	7.4	188	14.2	359	6.8	173	30°	12°	3.0	75	108.0	49.0
	1300XS85R	1 Spade	3.1	78	7.4	188	14.25	359	6.8	173	30°	12°	3.0	75	108.0	49.0
	1310XS85*	1	3.1	79	8.5	215	14.2	361	6.8	173	30°	-	3.0	75	102.0	46.3
	1310XS85L*	1 Spade	3.1	78	8.6	217	14.3	364	6.8	173	30°	12°	3.0	75	107.0	48.5
	1310XS85R*	1 Spade	3.1	78	8.6	217	14.3	364	6.8	173	30°	12°	3.0	75	107.0	48.5
	1080MXS85	1	3.2	82	7.5	191	14.2	361	6.8	173	30°	-	3.0	80	99.0	44.9
	1080MXS85L	1 Spade	3.2	82	8.0	203	14.5	368	6.8	173	30°	12°	3.0	80	99.0	44.9
	1080MXS85R	1 Spade	3.2	82	8.0	203	14.5	368	6.8	173	30°	12°	3.0	80	99.0	44.9
	1090MXS85	1	3.6	92	7.3	186	14.1	357	6.8	173	30°	-	3.5	90	99.0	44.9
	1350XS85	1	3.6	91	7.4	189	14.0	360	6.8	173	30°	-	3.5	90	93.0	42.2
	1350XS85L	1 Spade	3.6	91	7.4	187	14.2	359	6.8	173	30°	12°	3.5	90	95.0	43.1
	1350XS85R	1 Spade	3.6	91	7.4	187	14.2	359	6.8	173	30°	12°	3.5	90	95.0	43.1
	XS85WN	Weld-on Nose	0.9	23	6.5	165	6.7	171							43.0	19.5

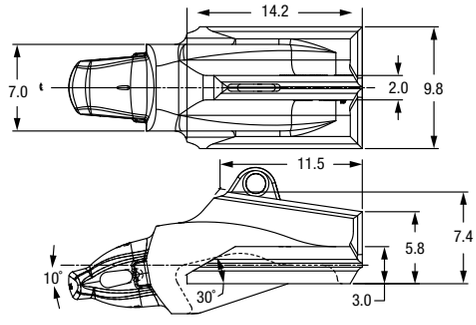
*Available as assembly with wear cap

85 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers

1310XS85SL
Corner Straddle Leg
3.0” Lip, 121.0 lb/54.9 kg

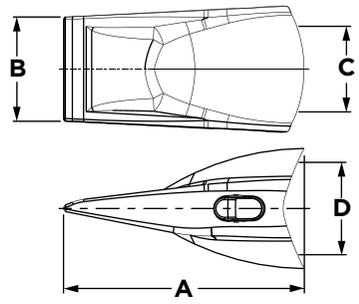


1303XS85CC
Corner
3.0” Lip, 207.0 lb/93.9 kg



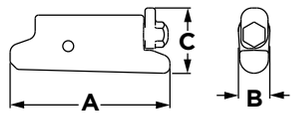
Note: Measurements are in inches.

115 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



TEETH

XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
115	XS115RC	XS115PX	18.7	476	6.0	152	6.4	164	6.4	163	88.5	40.1
	XS115RP2		18.7	476	5.5	140	6.4	164	6.4	163	128.5	58.3
	XS115RPX		19.3	491	6.3	161	6.4	164	6.4	163	152.5	69.2
	XS115SC		16.25	413	6.25	159	6.4	164	6.4	163	77.0	34.9
	XS115SD		17.9	454	4.5	114	6.4	164	6.4	163	82.0	37.2
	XS115SYL		17.9	454	7.2	182	6.4	164	6.4	163	78.0	35.4
	XS115T		19.1	486	1.1	28	6.4	164	6.4	163	76.0	34.5
	XS115TV		19.1	486	1.1	28	6.4	164	6.4	163	76.0	34.5
	XS115UT		19.1	486	9.6	243	6.4	164	6.4	163	78.0	35.4

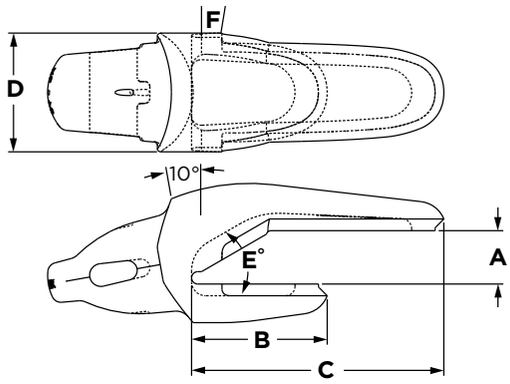


PIN ASSEMBLY

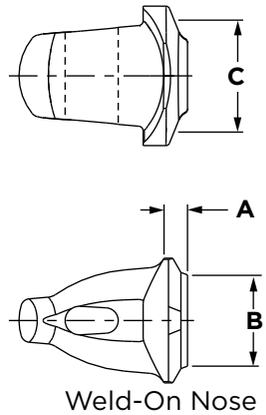
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Heavy Duty	XS115PX	8.0	203	1.5	39	2.7	69	5.5	2.5	5/8	16
Standard	XS115PC	8.0	203	1.5	39	2.7	69	5.2	2.4	5/8	16
Slag*	XS115PS	8.0	203	1.5	39	2.7	69	5.2	2.4	5/8	16

*Slag pin is NOT reusable

115 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



Type 1

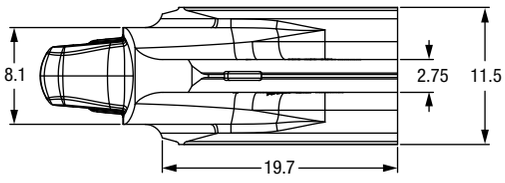


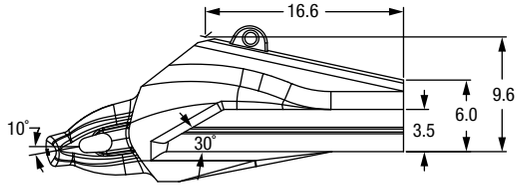
Weld-On Nose

ADAPTERS															
XS Series	Part Number	Type	Dimensions												Weight	
			A		B		C		D		E Bevel Degree	F Spade Angle	Lip Thickness			
			″	mm	″	mm	″	mm	″	mm			″	mm	lb	kg
115	1070MXS115	1	2.9	72	8.5	216	16.0	410	7.7	195	30°	-	2.8	70	146	66.2
	300XS115*	1	3.1	79	12.0	304	16.0	412	7.7	195	30°	-	3.0	75	143	64.9
	301XS115*	1	3.1	79	11.9	301	16.0	410	7.7	195	30°	15°	3.0	75	154	69.9
	302XS115*	1	3.6	91	8.5	216	16.1	409	7.7	195	30°	15°	3.0	75	154	69.9
	1090MXS115*	1	3.6	92	11.9	301	16.0	406	7.7	195	30°	-	3.5	90	135	61.2
	1090MXS115L*	1	3.6	92	11.9	301	16.0	406	7.7	195	30°	15°	3.5	90	141	64.0
	1090MXS115R*	1	3.6	92	11.9	301	16.0	406	7.7	195	30°	15°	3.5	90	141	64.0
	350XS115	1	3.6	92	8.5	216	16.0	410	7.7	195	30°	-	3.5	90	128	58.1
	351XS115	Spade	3.6	91	8.5	216	16.1	410	7.7	195	30°	10°	3.5	90	138	62.6
	352XS115	Spade	3.6	91	8.5	216	16.1	409	7.7	195	30°	10°	3.5	90	138	62.6
	516XS115**	1	3.1	79	12.1	307	16.2	412	7.7	195	30°		3.5	90	156	70.9
	XS115WN	Weld-on Nose	9.8	249	7.3	185									62.0	28.3
	WC115HX	Wear Cap													12.0	5.7

*Available as assembly with wear cap
**16˚ nose angle

90XS115CC
T Corner Adapter
3.5” Lip, 374.0 lb/169.6 kg

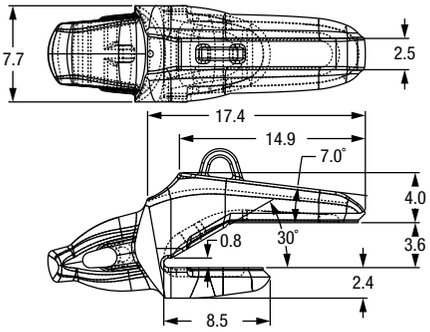




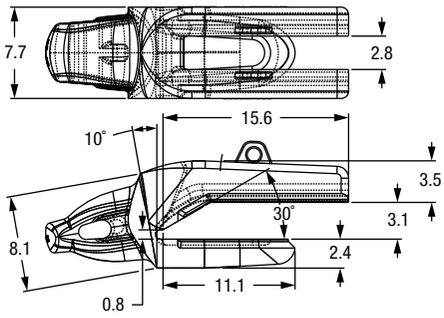
Note: Measurements are in inches.

115 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers

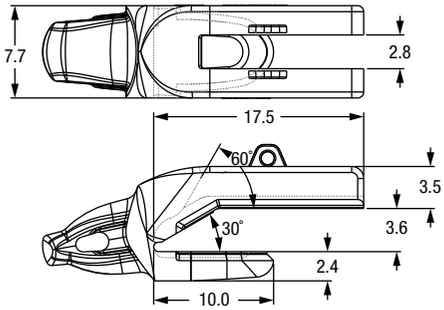
350XS115C
Corner
144.0 lb / 65.3kg
Fits 3.5” lip and
max 2.5” cheek plate thickness



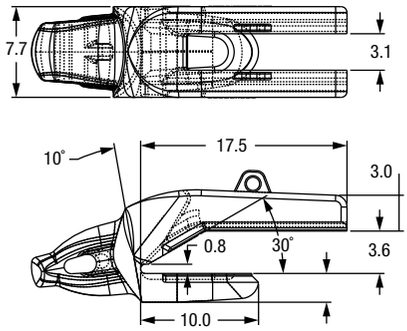
303XS115SL
Corner
162.0 lb / 73.5 kg
Fits 3.0” lip and
max 2.75” cheek plate thickness



356XS115
Center
170.0 lb / 77.1 kg
Fits 3.5” lip and
max 3.75” cheek plate thickness

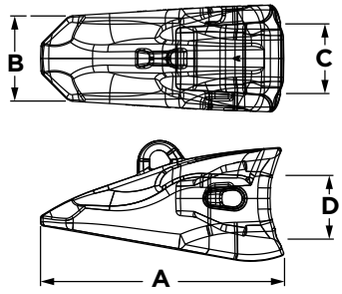


357XS115SL
Corner
170.0 lb / 77.1 kg
Fits 3.5” lip and
max 3.0” cheek plate thickness



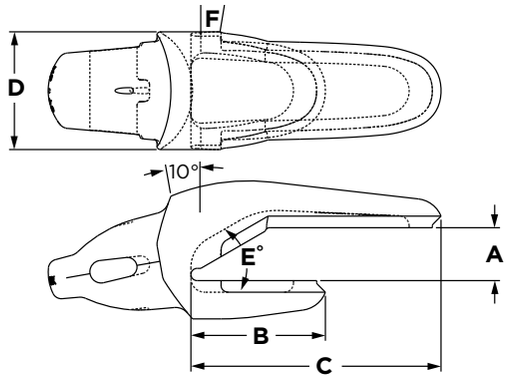
Note: Measurements are in inches.

122 SERIES SPECIFICATIONS - TEETH
Exclusively for XS Extreme Service Dealers



TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			“	mm	“	mm	“	mm	“	mm	lb	kg
XS122	XS122RC	XS115PX	18.7	475	6.0	151	5.8	147	6.3	160	104.0	47.2
	XS122RP2		19.3	490	6.7	171	5.8	147	6.3	160	125.0	56.7
	XS122RP3		19.3	490	6.7	171	5.8	147	6.3	160	155.2	70.4
	XS122SYL		17.7	450	7.2	182	5.8	147	6.3	160	88.6	40.2
	XS122TV		18.9	481	1.1	28	5.8	147	6.3	160	91.0	41.3

122 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers

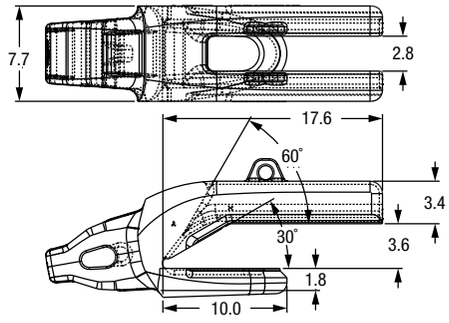


Type 1

ADAPTERS																
XS Series	Part Number	Type	Dimensions												Weight	
			A		B		C		D		E Bevel Degree	F Spade Angle	Lip Thickness			
			“	mm	“	mm	“	mm	“	mm			“	mm	lb	kg
122	350XS122	1	3.6	91	8.4	213	16.0	407	8.0	195	30°	–	3.5	–	173.0	78.5
	351XS122(RH)	1	3.6	91	8.5	217	16.0	407	8.0	203	30°	10˚	3.5	–	162.0	73.5
	352XS122(LH)		3.6	91	8.5	217	16.0	407	8.0	203	30°	10˚	3.5	–	162.0	73.5
	357XS122SL	1	Under Development										3.5	–	185.0	83.9
	358XS122 (RH)	1	Under Development										3.5	–	162.0	73.5
	359XS122 (LH)	1	Under Development										3.5	–	162.0	73.5
	1090MXS122*	1	3.6	92	11.9	301	16.0	407	7.2	183	30°	–	–	90	156.0	70.8
	1090MXS122L*	1	3.6	92	11.9	301	16.0	406	7.3	187	30°	15°	–	90	159.2	72.2
	1090MXS122R*	1	3.6	92	11.9	301	16.0	406	7.3	187	30°	15°	–	90	159.2	72.2
	XS122WN	Weld-on Nose	Under Development													
	WC122HX	Wear Cap													21.8	9.9

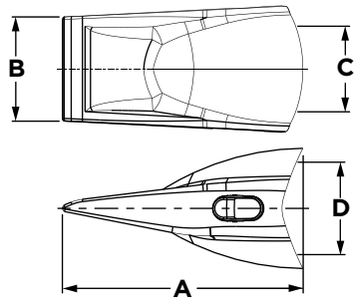
*Uses with wear cap WC122HX.

356XS122SL
Corner
199.0 lb / 90.0 kg
fits 3.5” lip and 2.75” cheek plate



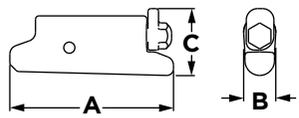
Note: Measurements are in inches.

145 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



TEETH

XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
145	XS145HAT	XS145PX	14.0	355	10.5	267	7.25	184	7.0	178	240	108.9
	XS145RC		20.9	530	6.7	169	7.25	184	7.0	178	123	55.8
	XS145RP2		21.6	548	7.7	195	7.25	184	7.0	178	188	85.3
	XS145RP3		21.5	546	7.5	190	7.25	184	7.0	178	205	93.0
	XS145RPHL		21.5	546	10.5	267	7.25	184	7.0	178	225	102.1
	XS145RPL		21.5	546	6.5	165	7.25	184	7.0	178	204	92.5
	XS145SC		18.0	457	7.0	178	7.25	184	7.0	178	109.5	49.7
	XS145SD		20	506	5.0	127	7.25	184	7.0	178	108	49.0
	XS145SYL		20	508	8.0	203	7.25	184	7.0	178	113	51.3
	XS145TV		21.25	540	1.25	31.7	7.25	184	7.0	178	105	47.6

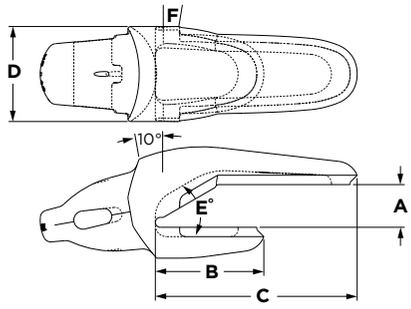


PIN ASSEMBLY

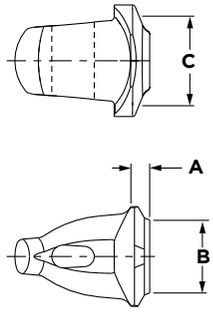
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Heavy Duty	XS145PX	8.9	225	1.7	44	3.1	79	7.6	3.4	5/8	16
Standard	XS145PC	8.9	225	1.7	44	3.0	76	7.2	3.3	5/8	16
Slag*	XS145PS	8.9	226	1.7	44	3.1	79	7.2	3.3	5/8	16

*Slag pin is NOT reusable

145 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



Type 1



Weld-On Nose

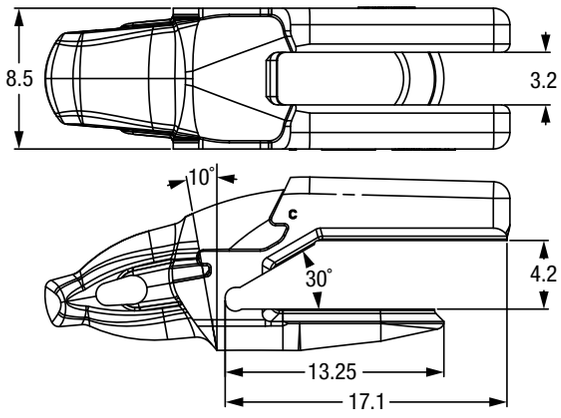
ADAPTERS

XS Series	Part Number	Type	Dimensions												Weight	
			A		B		C		D		E Bevel Degree	F Spade Angle	Lip Thickness			
			"	mm	"	mm	"	mm	"	mm			"	mm	lb	kg
145	134XS145	Mech Crn	4.2	107	9.2	234	15.0	381	10.5	266	0		4.0	102	530.0	240.4
	136XS145	Mech Ctr	4.2	107	19.4	492	19.4	492	8.5	216	0		4.0	102	540.0	244.9
	397XS145	Mechanical	4.2	107	19.5	495	19.5	495	8.5	216	0		4.0	102	385.0	174.6
	400XS145C	Raised Top Leg	4.2	105	13.25	336	17.25	438	8.5	217	30°	-	4.0	102	275.0	124.7
	5R3XS145**	Mechanical										-	4.0	102	395.0	179.2
	894XS145*	1 Spade	4.2	106	13.3	336	17.3	438	8.5	217	30°	15°	4.0	102	205.0	93.0
	895XS145*	1 Spade	4.2	106	13.3	336	17.3	438	8.5	217	30°	15°	4.0	102	205.0	93.0
	896XS145*	1	4.2	106	13.3	336	17.3	438	8.9	225	30°	-	4.0	102	205.0	93.0
	C5R3XS145		6.6	168			18.25	464	12.75	324			4.0	102	395.0	179.2
	443XS145*	1	4.9	123	13.25	337	17.25	438	8.5	217	30°	-	4.75	121	215.0	97.5
	447XS145	1	4.9	123	13.3	336	17.2	438	8.5	217	30°	-	4.75	121	235.0	106.6
	A453XS145*†	Mech Crn			9.2	234	17.3	439	8.3	211	30°	-	4.75	121	388.0	176.0
	A454XS145*†	Mech Ctr	4.2	107	24.4	619	24.4	619	8.3	211	30°	-	4.75	121	420.0	190.5
	J400XS145CB	1	4.2	106	13.25	337	17.25	438	8.5	217	30°	-			275.0	124.7
	J400XS145RCB	1	4.2	106	13.7	350	17.8	451	8.5	217	30°	14°			248.0	112.5
	J400XS145LCB	1	4.2	106	13.7	350	17.8	451	8.5	217	30°	14°			248.0	112.5
	XS145WN	Weld-on Nose	10.9	277	8.0	203	8.5	217	8.5	217					83.0	37.6
	U145HX	Wear Cap													37.0	16.8
	893WC145††	Wear Cap													18.5	8.4
	WC145HX†	Wear Cap													29.0	13.2
	WC397HX†††	Wear Cap													24.0	10.9

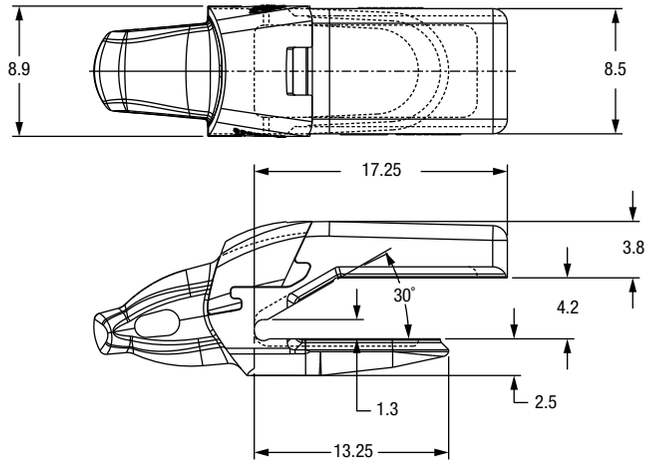
*Uses wear cap WC145HX.
**J-bolt adapter for Saber lip system uses LSWB12 weld base and SFA150J4 j-bolt assembly
†Used with 443, 896, 894 & 895XS145 adapters
††Used with 893XS145 & 893XS145CA adapters
†††Used with 397XS145 adapter
*† Laminite welded to bottom leg. CB130

145 SERIES SPECIFICATIONS - ADAPTERS
Exclusively for XS Extreme Service Dealers

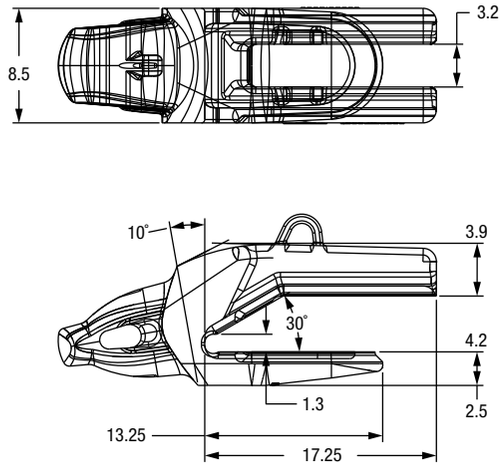
893XS145
Uses wear cap 893WC145
22.0 lb / 103.0 kg



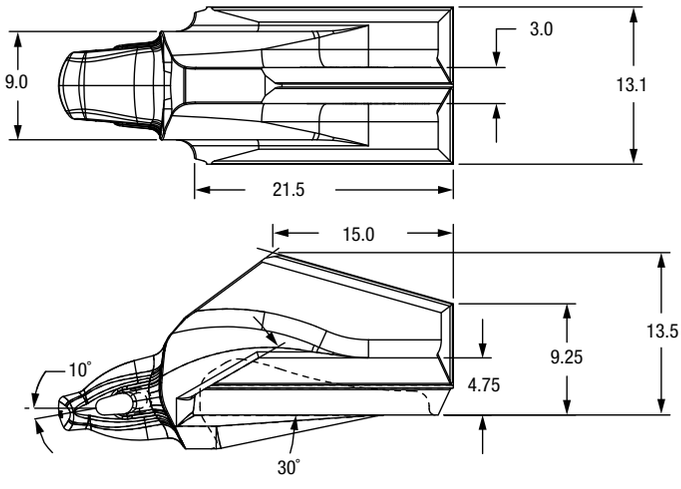
893XS145CA
Corner, Closed Leg
Uses wear cap 893WC145
298.5 lb / 135.4 kg



899XS145SL
Corner Straddle, 3" Cheek Plate
247.0 lb / 112.0 kg

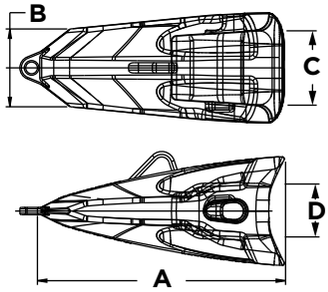


120XS145CC
T Corner Adapter
3.0" Lip, 581.0 lb / 263.5 kg



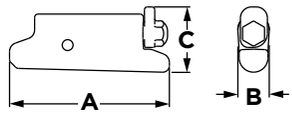
Note: Measurements are in inches.

152 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



TEETH

XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			″	mm	″	mm	″	mm	″	mm	lb	kg
152	XS152RC	XS145PX	21.2	538	6.6	169	6.6	168	7.2	184	142.0	64.4
	XS152RP2		21.9	556	7.5	191	6.6	168	7.2	184	189.0	85.7
	XS152RP3		21.9	555	7.5	191	6.6	168	7.2	184	218.6	99.2
	XS152RPL		21.7	552	6.5	165	6.6	168	7.2	184	206.7	93.8
	XS152RPHL		23.2	588	10.5	266	6.6	168	7.2	184	229.0	103.9
	XS152SC		Under Development									
	XS152SD		20.0	509	4.9	124	6.6	168	7.2	184	120.0	54.4
	XS152SYL		Under Development									
	XS152TV		21.1	535	1.2	30	6.6	168	7.2	184	121.7	55.2

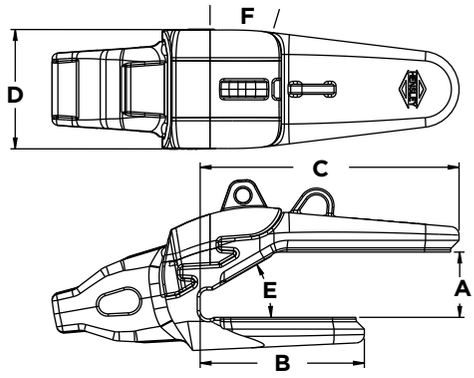


PIN ASSEMBLY

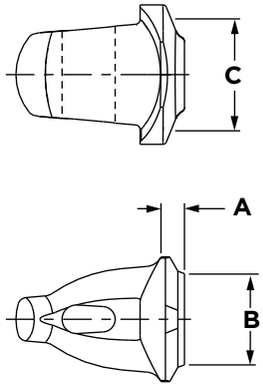
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		″	mm	″	mm	″	mm	lb	kg	″	mm
Heavy Duty	XS145PX	8.9	225	1.7	44	3.1	79	7.6	3.4	5/8	16
Standard	XS145PC	8.9	225	1.7	44	3.0	76	7.2	3.3	5/8	16
Slag*	XS145PS	8.9	226	1.7	44	3.1	79	7.2	3.3	5/8	16

*Slag pin is NOT reusable

152 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



Type 1



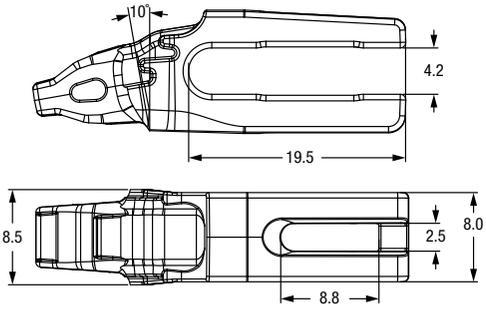
Weld-On Nose

ADAPTERS															
XS Series	Part Number	Type	Dimensions												Weight	
			A		B		C		D		E Bevel Degree	F Spade Angle	Lip Thickness			
			″	mm	″	mm	″	mm	″	mm			″	mm	lb	kg
152	894XS152*	1	4.2	106	13.9	353	17.9	454	8.5	217	30°	15°	4.0	102	226.5	102.7
	895XS152*	1 Spade	4.2	105	13.9	352	17.9	454	8.1	204	30°	15°	4.0	102	226.5	102.7
	896XS152*	1 Spade	4.2	106	13.9	353	17.9	454	8.5	217	30°	-	4.0	102	224.0	101.6
	443XS152*	1	4.9	123	13.2	334	20.0	503	8.5	217	30°	-	4.75	121	232.0	105.2
	WC152HX	Wear Cap													32.0	14.5
	XS152WN	Weld On Nose	Under Development													

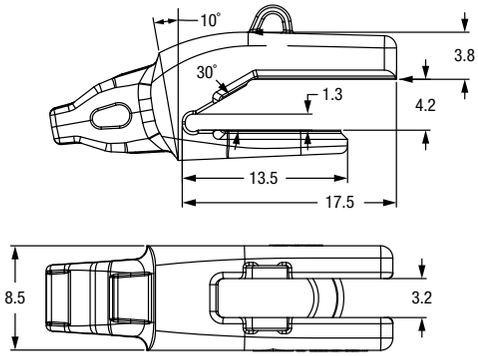
*Uses wear cap WC152HX

152 SERIES SPECIFICATIONS - ADAPTERS & SHROUDS
Exclusively for XS Extreme Service Dealers

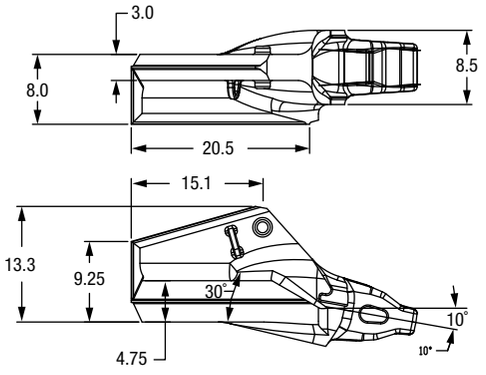
397XS152
Center, Uses Wear Cap 397WC152
382.0 lb / 173.3 kg



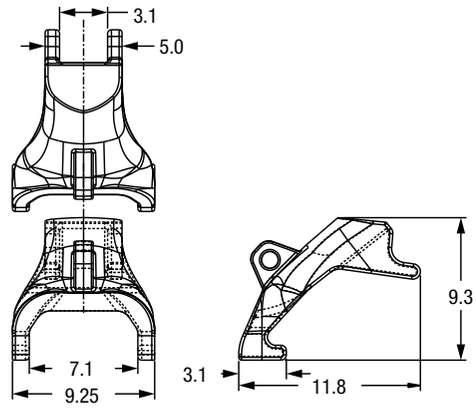
899XS152SL
Corner, Straddle
264.5 lb / 120.0 kg



475XS152CR (RH SHown)
475XS152L (LH Opposite)
Corner, Users Wear Cap WC152HX
4.75" Lip, 493.0 lb / 223.6 kg

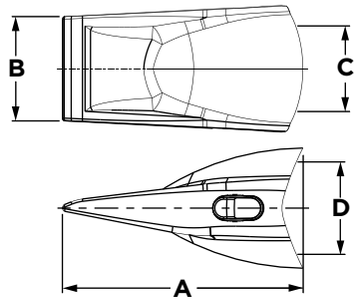


475WS152
Lower Wing Shroud
43.0 lb / 19.5 kg

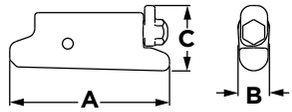


Note: Measurements are in inches.

250 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



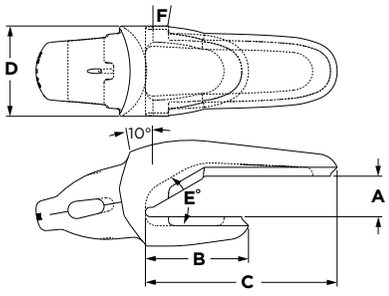
TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
250	XS250RC	XS250PX	23.6	600	7.6	192	8.1	206	7.9	202	179.0	81.2
	XS250SD		22.5	572	5.7	144	8.1	206	7.9	202	161.0	73.0
	XS250SYL		22.5	572	9.0	229	8.1	206	7.9	202	160.0	72.6
	XS250T		24.0	610	1.4	35	8.1	206	7.9	202	153.0	69.4
	XS250UT		24.0	610	11.4	289	8.1	206	7.9	202	160.0	72.6



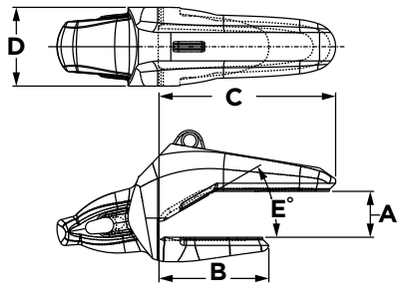
PIN ASSEMBLY										
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Heavy Duty	XS250PX	10.1	256	2.0	50	3.4	86	10.5	4.8	5/8	16
Standard	XS250PC	10.1	255	2.0	50	3.4	87	10.5	4.8	5/8	16
Slag*	XS250PS	10.1	255	2.0	50	3.4	87	10.5	4.8	5/8	16

*Slag pin is NOT reusable

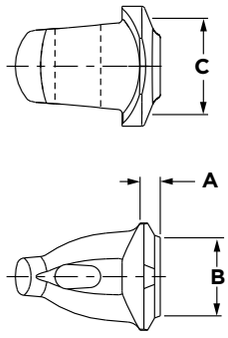
250 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



Type 1



Type 10



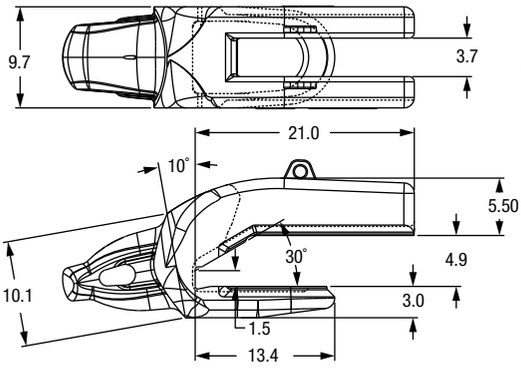
Weld-On Nose

ADAPTERS

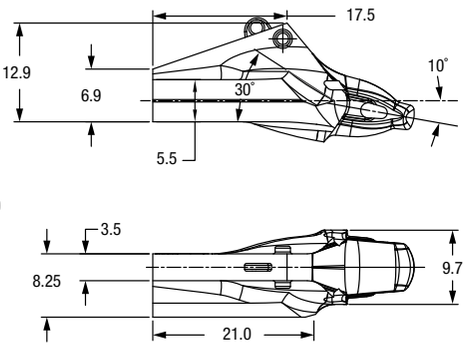
XS Series	Part Number	Type	Dimensions								E Bevel Degree	F Spade Angle	Lip Thickness		Weight	
			A		B		C		D							
			"	mm	"	mm	"	mm	"	mm			"	mm	lb	kg
250	257XS250*	1	4.9	125	13.0	330	21.4	542	9.8	249	30°	-	4.75	121	305.0	138.3
	475XS250C***	10	4.9	124	3.5	89	20.4	518	9.7	246	30°	-	4.75	121	346.0	156.9
	255XS250*	1	4.9	124	13.4	340	21.8	553	9.7	246	30°	-	5.5	140	280.0	127.0
	550XS250C***	10	5.7	144	13.5	343	21.7	552	9.7	246	30°	-	5.5	140	340.0	154.2
	XS250WN	Weld-on Nose	1.6	41	9.0	229	9.7	246							121.0	54.9
	550WS250**	Shroud													52.0	23.6
	WC250HX	Wear Cap													33.0	15.0

*Available as assembly with wear cap
**Lower vertical shroud used with 550XS250CR & CL adapters
*** For 3.5" max cheek plate thickness

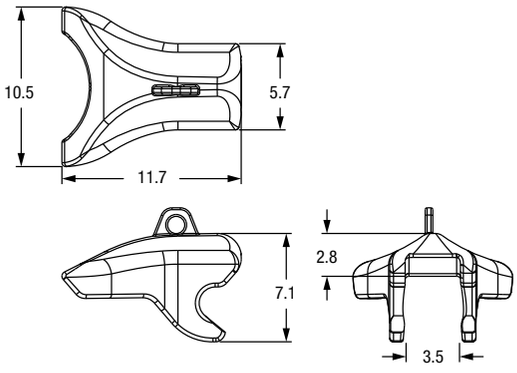
120XS250SL
Center
402.0 lb / 182.3 kg



550XS250CR (RH Shown)
550XS250CL (LH Opposite)
Corner
4.75" Lip, 527.0 lb / 239.0 kg

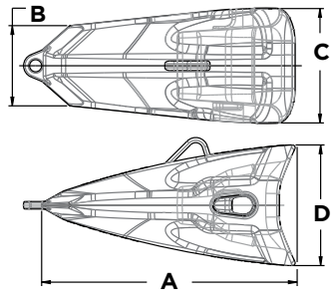


550WS250
Lower Wing Shroud
52.0 lb / 23.6 kg

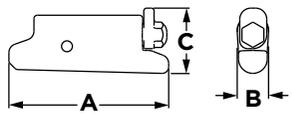


Note: Measurements are in inches.

252 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



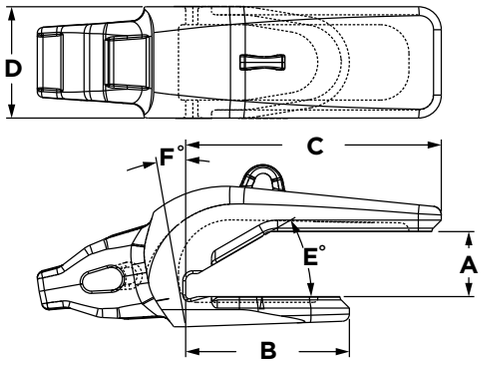
TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
252	XS252HD	XS250PX	23.5	597	8.0	203	7.2	181	8.2	208	241.5	109.5
	XS252HSD		23.5	597	7.5	191	7.2	181	8.2	208	225.0	102.1
	XS252RC		23.5	597	7.4	188	7.2	181	8.2	208	213.0	96.6
	XS252SC		21.3	541	7.9	201	7.2	181	8.2	208	177.0	80.3
	XS252SD		22.5	570	5.7	144	7.2	181	8.2	208	187.0	84.8
	XS252SYL		Under Development									
	XS252TV		24.2	615	1.4	36	7.2	181	8.2	208	194.5	88.2



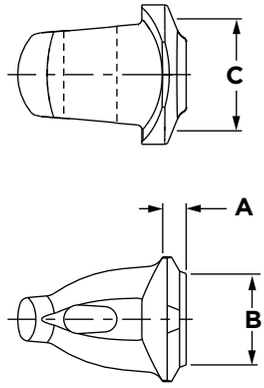
PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Heavy Duty	XS250PX	10.1	256	2	50	3.4	86	10.5	4.8	5/8	16
Standard	XS250PC	10.1	255	2	50	3.4	87	10.5	4.8	5/8	16
Slag*	XS250PS	10.1	255	2	50	3.4	87	10.5	4.8	5/8	16

*Slag pin is NOT reusable

252 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



Type 1



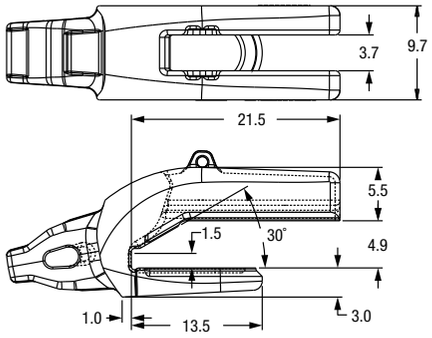
Weld-On Nose

ADAPTERS

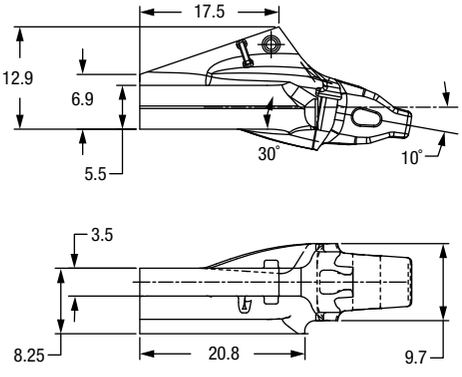
XS Series	Part Number	Type	Dimensions								E Bevel Degree	F Spade Angle	Lip Thickness		Weight	
			A		B		C		D							
			"	mm	"	mm	"	mm	"	mm			"	mm	lb	kg
252	144XS252	1	5.7	144	14.25	362	22.25	565	9.7	246	30°	-	5.5	140	410.0	186.0
	255XS252*	1	5.7	144	14.5	368	22.5	572	9.7	246	30°	-	5.5	140	333.0	151.0
	121XS252	1	4.9	123	14.3	362	21.6	549	9.7	246	30°	-	4.75	121	425.0	192.8
	257XS252*	1	4.9	123	14.5	368	22.5	572	9.7	246	30°	-	4.75	121	353.0	160.1
	475XS252C		Under Development													
	550XS252C		Under Development													
	XS252WN	Weld-On Nose													142.5	64.6
	550WS252	Shroud													52.0	23.6
	WC252HX	Wear Cap	1.6	40											43.0	19.5

*Available as assembly with wear cap

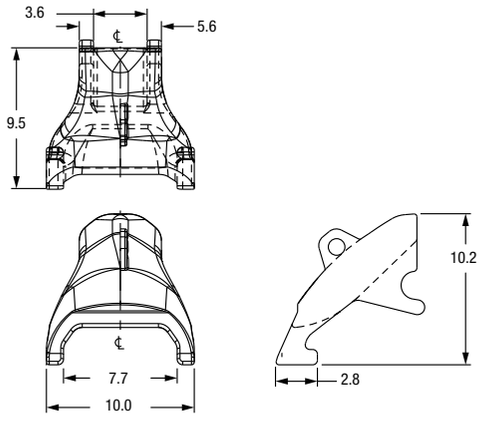
120XS252SL
Center
400.0 lb / 181.0 kg



550XS252CR (RH SHown)
550XS252CL (LH Opposite)
Corner
4.75” Lip, 572.0 lb / 259.5 kg

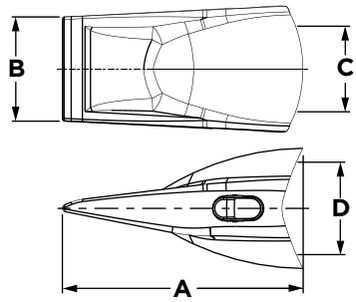


550WS252
Lower Wing Shroud
52.0 lb / 23.6 kg

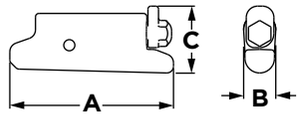


Note: Measurements are in inches.

340 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



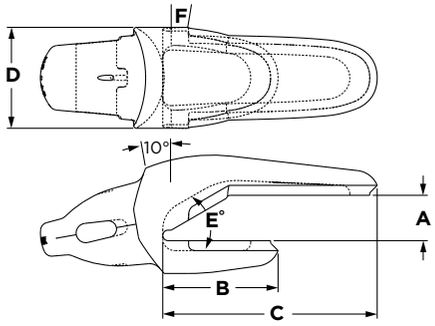
TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
340	XS340RC	XS340PX	24.75	629	8.5	216	8	202	8.8	225	226.0	102.5
	XS340SD		23.5	598	6.2	158	8	202	8.8	225	222.0	100.7
	XS340TV		25.2	640	1.6	40	8	202	8.8	225	219.0	99.3



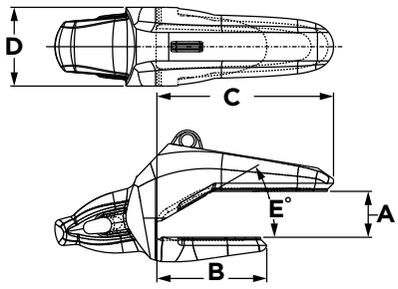
PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Heavy Duty	XS340PX	9.6	244	1.9	48	3.5	90	11.0	5.0	5/8	16
Slag*	XS340PS	9.6	244	1.8	47	3.5	88	10.9	4.9	5/8	16

*Slag pin is NOT reusable

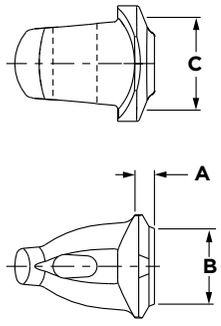
340 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



Type 1



Type 10



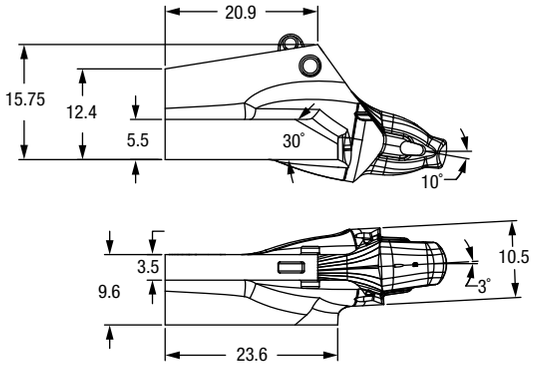
Weld-On Nose

ADAPTERS

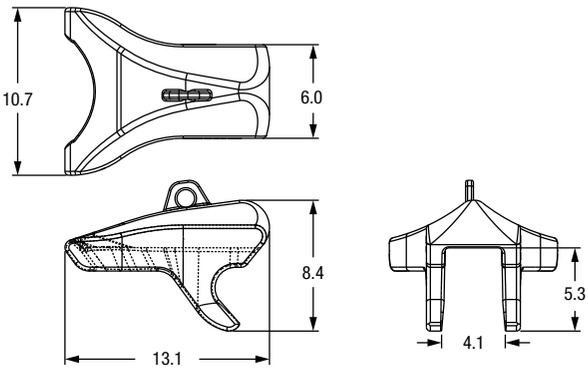
XS Series	Part Number	Type	Dimensions								E Bevel Degree	F Spade Angle	Lip Thickness		Weight	
			A		B		C		D							
			"	mm	"	mm	"	mm	"	mm			"	mm	lb	kg
340	140XS340*	1	5.7	144	13.4	340	20.3	516	10.5	267	30°	-	5.5	140	341	154.7
	550XS340C**	10	5.7	144	13.7	347	20.6	524	10.5	266	30°	-	5.5	140	375	170.1
	XS340WN	Weld-on Nose	1.8	47											158	71.7
	550WS340	Shroud													57	25.9
	WC140HX	Wear Cap													40	18.1

*Available as assembly with wear cap
** For 3.5" max cheek plate thickness

550XS340CR (RH Shown)
550XS340CL (LH Opposite)
Corner
5.5" Lip, 859.0 lb / 389.6 kg

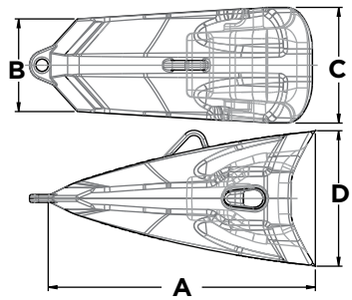


550WS340
Lower Wing Shroud
57.0 lb / 25.9 kg

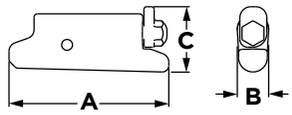


Note: Measurements are in inches.

342 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers



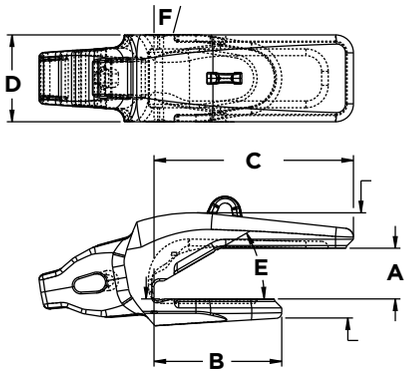
TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
342	XS342RC	XS340PX	24.5	621	8.5	215	6.8	17	8.9	226	246.5	111.8
	XS342SC		20.1	509	7.9	201	6.8	17	8.9	226	209.0	94.8
	XS342SD		23.6	600	6.2	159	6.8	17	8.9	226	231.0	104.8
	XS342TV		26.0	661	1.5	39	6.8	17	8.9	226	241.0	109.3



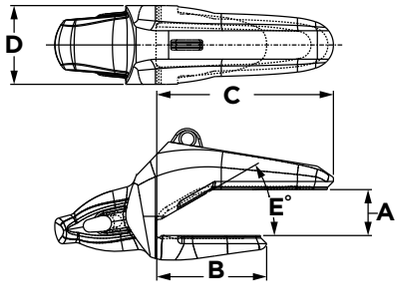
PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Heavy Duty	XS340PX	9.6	244	1.9	48	3.5	90	11.0	5.0	5/8	16
Slag*	XS340PS	9.6	244	1.8	47	3.5	88	10.9	4.9	5/8	16

*Slag pin is NOT reusable

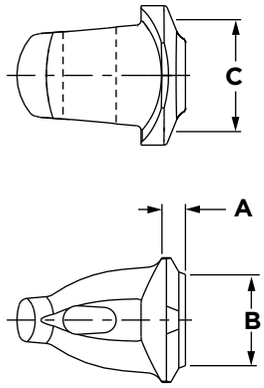
342 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



Type 1



Type 10



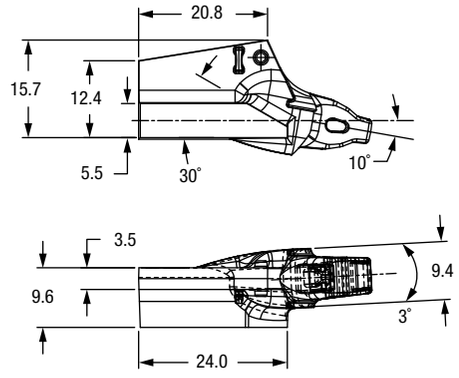
Weld-On Nose

ADAPTERS

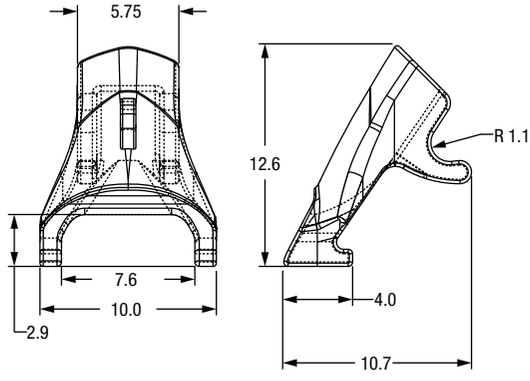
XS Series	Part Number	Type	Dimensions								E Bevel Degree	F Spade Angle	Lip Thickness		Weight	
			A		B		C		D							
			"	mm	"	mm	"	mm	"	mm			"	mm	lb	kg
342	140XS342*	1	5.7	144	14.1	359	22.2	564	9.7	246	30°	-	5.5	140	390	176.9
	144XS342	1	5.7	144	14.25	362	22.25	565	9.7	246	30°	-	5.5	140	428	194.1
	550XS342C	10	Under Development													
	XS342WN	Weld-on Nose	1.8	47											175	79.4
	550WS342	Shroud													61	27.7
	WC342HX	Wear Cap													53	24.0

*Available as assembly with wear cap
**for 3.5" max cheek plate thickness

550XS342CR (RH Shown)
550XS342CL (LH Opposite)
Corner
5.5" Lip, 833.0 lb / 377.8 kg



550WS342
Lower Wing Shroud
61.0 lb / 27.7 kg



Note: Measurements are in inches.

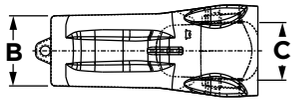
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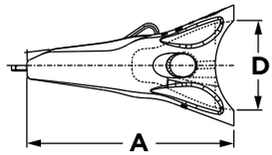
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PROPRIETARY PRODUCTS

XSC - System

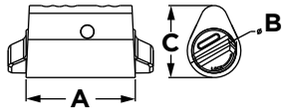
XSC12 SERIES SPECIFICATIONS - TEETH & FASTENERS
Exclusively for XS Extreme Service Dealers





TEETH

XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
XSC12	XSC12RM	XSC12P	23.6	600	8.0	203	65.0	164	10.4	263	235.0	106.6
	XSC12RMHL		25.1	638	7.5	191	65.0	164	10.4	263	282.0	127.9
	XSC12RMX		26.0	660	8.0	203	65.0	164	10.4	263	328.0	148.8
	XSC12S		28.0	711	7.2	184	65.0	164	10.4	263	271.0	122.9
	XSC12SD		28.0	711	10.5	267	65.0	164	10.4	263	292.0	132.4
	XSC12TS		27.2	689	7.8	198	65.0	164	10.4	263	262.0	118.8
	XSCW12RMHL		31.1	790	7.5	190	65.0	164	10.4	263	306.0	138.8

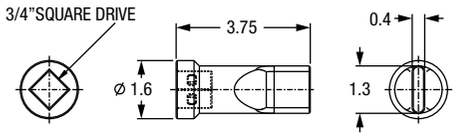


PIN ASSEMBLY

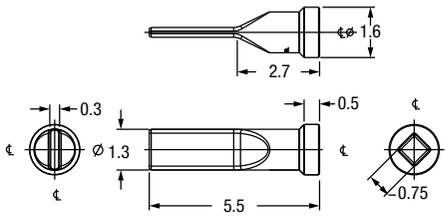
Duty Rating	Part Number	Dimensions						Weight	
		A		B		C			
		"	mm	"	mm	"	mm	lb	kg
Heavy Duty	XSC12P	6.1	156	3.0	76	4.0	102	13.8	6.3
Removal Tool	XSC12RT							0.7	0.3
Protective Plug, RH	12PL							0.1	0.0
Protective Plug, LH	12PLL							0.1	0.0

XSC12 SERIES SPECIFICATIONS - REMOVAL TOOLS
Exclusively for XS Extreme Service Dealers

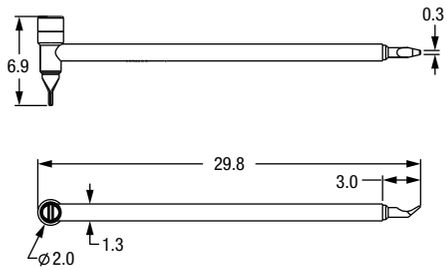
XSC12RT
Removal Tool
1.0 lb / 0.5 kg



XSC12RTL
Removal Tool
1.2 lb / 0.5 kg

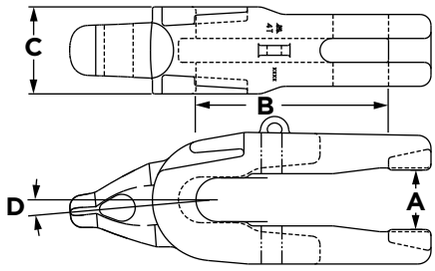


PRTXSC12
Pin Removal Tool
7.0 lb / 3.2 kg



Note: Measurements are in inches.

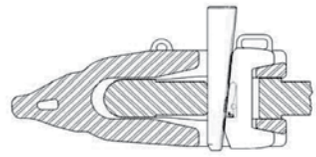
XSC12 SERIES SPECIFICATIONS - ADAPTERS
Exclusively for XS Extreme Service Dealers



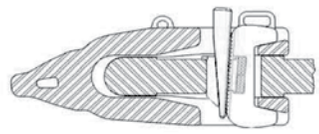
ADAPTERS													
XS Series	Part Number	Type	Dimensions									Weight	
			A		B		C		D Down Pitch	Wear Cap	Fastener Group Number		
			"	mm	"	mm	"	mm				lb	kg
XSC12	468XSC12	WH-8	5.3	133	20.3	514	8.8	222	0˚		1,2	515.0	233.6
	491XSC12	WH-10	6.8	171	22.1	562	10.0	254	0˚	WCXSC12	3,4,5,6	669.0	303.5
	492XSC12	WH-10	6.8	171	22.1	562	10.0	254	5˚	WCXSC12	3,4,5,6	680.0	308.4
	493XSC12	WH-10	6.8	171	22.1	562	10.0	254	5˚		3,4,5,6	684.0	310.3
	498XSC12	WH-10	6.8	171	22.1	562	10.0	254	0˚		3,4,5,6	680.0	308.4
	591XSC12	WH-12	6.8	171	23.9	607	10.0	254	0˚	WCXSC12	3,7,8,9	690.0	313.0
	592XSC12	WH-12	6.8	171	23.9	607	10.0	254	5˚	WCXSC12	3,7,8,9	682.0	309.4
	593XSC12	WH-12	6.8	171	23.9	607	10.0	254	5˚		3,7,8,9	706.0	320.2
	598XSC12	WH-12	6.8	171	23.9	607	10.0	254	0˚		3,7,8,9	714.0	323.9
	4530XSC12	Berkely	4.6	117	23.7	602	10.0	254	0˚		6	745.0	337.9
	5109XSC12	Berkely	6.4	162	23.5	597	11.7	298	0˚		10	762.0	345.6
	5521XSC12	Berkely	4.9	125	21.0	533	10.0	254	0˚		6	767.0	347.9
	5608XSC12	Berkely	6.4	162	23.5	597	11.8	298	5˚		10	790.0	358.3
	5609XSC12	Berkely	6.4	162	23.5	597	11.8	298	5˚	WCXSC12	10	780.0	353.8
	WCXSC12	Wear Cap										49.0	22.2

XSC12 SERIES SPECIFICATIONS - FASTENERS
Exclusively for XS Extreme Service Dealers

FASTENERS					
XS Series	**Group Number**	**Part Number**	**Type**	**Style**	**Hammerless**
XSC12	1	469C	WH-8	Fluted	No
		469W1 (Std)			
		469W2 (O/S)			
		469W3 (O/S)			
	2	R469C	WH-8	Ratchet	No
		R469EL			
	3	E499C	WH-10	Fluted	No
		E499W1 (Std)			
		E499W2 (O/S)			
		E499W3 (O/S)			
		E499W4 (O/S)			
	4	R499C	WH-10	Ratchet	No
		R499EL			
	5	CR499C	WH-10	3-Piece	No
		CR499W1 (Std)			
		CR499W2 (O/S)			
		CR499SHIM			
	6	H499CR	WH-10	HLCC	Yes
		H499WR (Std)			
		H599WR (O/S)			
		H499SHIM			
	7	R599C	WH-12	Ratchet	No
		R599EL			
	8	CR599C	WH-12	3-Piece	No
		CR499W1 (Std)			
		CR499W2 (O/S)			
		CR599SHIM			
	9	H599CR	WH-12	HLCC	Yes
		H599WR (Std)			
		H599W2R (O/S)			
		H599SHIM			
	10	H5608CR	WH-10	HLCC	Yes
		H499WR (Std)			
		H599WR (O/S)			
		H499SHIM			
		H599SHIM			



GROUP 2, 4, 7

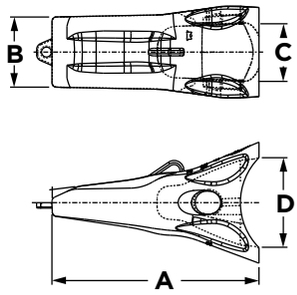


GROUP 5, 8

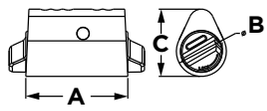


GROUP 6, 9, 10

XSC127 SERIES SPECIFICATIONS - TEETH & FASTENERS
Exclusively for XS Extreme Service Dealers



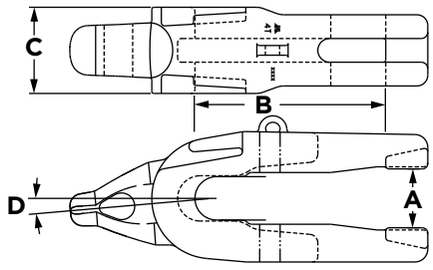
TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
XSC127	XSC127RM	XS340PX	21.5	546	8.0	203	6.5	165	10.5	255	238.0	108.0
	XSC127RMHL		25.1	637	7.5	190	6.5	165	10.5	255	252.0	114.3
	XSC127TS		27.2	689	7.8	198	6.5	165	10.5	255	266.0	120.7
	XSCW127V		31.2	791	9.3	235	6.5	165	10.5	255	316.0	143.3



PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Heavy Duty	XS340PX	9.6	244	1.8	47	3.5	88	11.0	5.0	5/8	16
Slag*	XS340PS	9.6	244	1.8	47	3.5	88	11.0	5.0	5/8	16

*Slag pin is NOT reusable

XSC127 SERIES SPECIFICATIONS - ADAPTERS
Exclusively for XS Extreme Service Dealers

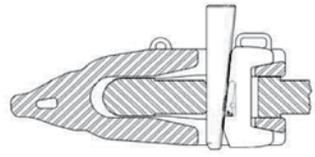


ADAPTERS													
XS Series	Part Number	Type	Dimensions									Weight	
			A		B		C		D Down Pitch	Wear Cap	Fastener Group Number		
			"	mm	"	mm	"	mm				lb	kg
XSC127	468XSC127	WH-8	5.25	133	24.0	609	8.75	222	0˚		1,2	530.0	240.4
	491XSC127	WH-10	6.75	173	21.0	561	10.0	254	0˚	WCSXC12	3,4,5,6	677.0	307.1
	492XSC127	WH-10	6.75	173	21.0	561	10.0	254	5˚	WCSXC12	3,4,5,6	675.0	306.2
	493XSC127	WH-10	Under Development								3,4,5,6	684.0	310.3
	498XSC127	WH-10	6.75	171	22.0	562	10.0	254	0˚		3,4,5,6	693.0	314.3
	5608XSC127	WH-10	6.4	161	23.5	597	11.75	298	5˚			790.0	358.3
	591XSC127	WH-12	6.75	171	24.0	607	10.0	254	0˚	WCSXC12	3,7,8,9	690.0	313.0
	592XSC127	WH-12	6.8	173	23.9	606	10.0	254	5˚	WCSXC12	3,7,8,9	700.0	317.5
	593XSC127	WH-12	6.8	173	23.9	606	10.0	254	5˚		3,7,8,9	706.0	320.2
	594XSC127*	WH-12	6.8	173	23.9	606	10.0	254	0˚	WCSXC12	3,7,8,9	735.0	333.4
	595XSC127*	WH-12	6.8	173	23.9	606	10.0	254	5˚		3,7,8,9	705.0	319.8
	597XSC127*	WH-12	6.8	173	23.9	606	10.0	254	5˚	WCSXC12	3,7,8,9	693.0	314.3
	598XSC127	WH-12	6.75	171	24.0	607	10.0	254	0˚		3,7,8,9	714.0	323.9
XSC12	WCXSC12	Wear Cap										49.0	22.2

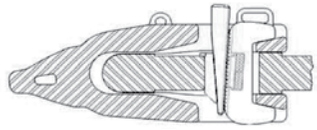
* Reverse Stabilizer

XSC127 SERIES SPECIFICATIONS - FASTENER
Exclusively for XS Extreme Service Dealers

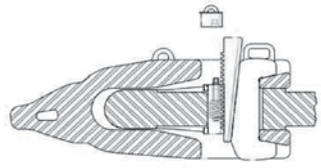
FASTENERS					
XS Series	**Group Number**	**Part Number**	**Type**	**Style**	**Hammerless**
XSC127	1	469C	WH-8	Fluted	No
		469W1 (Std)			
		469W2 (O/S)			
		469W3 (O/S)			
	2	R469C	WH-8	Ratchet	No
		R469EL			
	3	E499C	WH-10	Fluted	No
		E499W1 (Std)			
		E499W2 (O/S)			
		E499W3 (O/S)			
		E499W4 (O/S)			
	4	R499C	WH-10	Ratchet	No
		R499EL			
	5	CR499C	WH-10	3-Piece	No
		CR499W1 (Std)			
		CR499W2 (O/S)			
		CR499SHIM			
	6	H499CR	WH-10	HLCC	Yes
		H499WR (Std)			
		H599WR (O/S)			
		H499SHIM			
	7	R599C	WH-12	Ratchet	No
		R599EL			
	8	CR599C	WH-12	3-Piece	No
		CR499W1 (Std)			
		CR499W2 (O/S)			
		CR599SHIM			
	9	H599CR	WH-12	HLCC	Yes
		H599WR (Std)			
		H599W2R (O/S)			
		H599SHIM			
	10	H5608CR	WH-10	HLCC	Yes
		H499WR (Std)			
		H599WR (O/S)			
		H499SHIM			
		H599SHIM			



GROUP 2, 4, 7



GROUP 5, 8



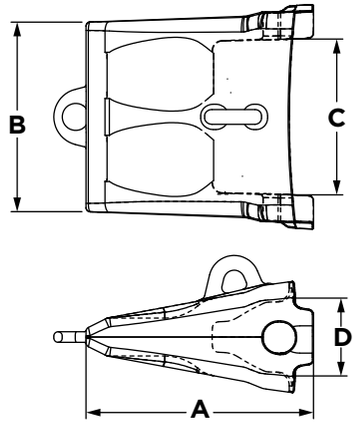
GROUP 6, 9, 10

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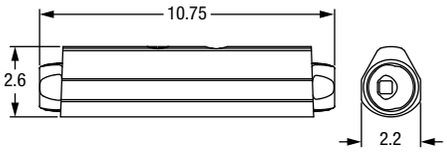
PROPRIETARY PRODUCTS
TS - System

922 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers

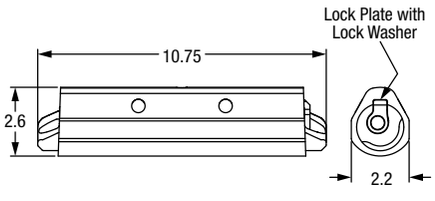


TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								
			Overall Tooth				Tooth Pocket				Weight
			A		B		C		D		
			"	mm	"	mm	"	mm	"	mm	lb	kg
TS922	TS922DPS	TS922PSL	12.0	305	11.5	292	9.4	239	4.1	103	93.0	42.2
	TS922MA		13.5	343	11.2	286	9.4	239	4.1	103	122.0	55.3
	TS922RC		Under Development									
	TS922RML		14.2	360	10.75	273	9.4	239	4.1	103	138.0	62.6
	TS922TAP		12.5	318	13.1	333	9.4	239	4.1	103	84.5	38.3

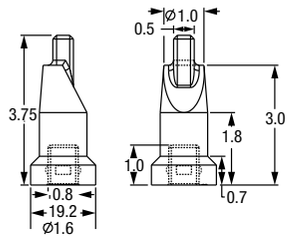
TS922PSL
10.4 lb / 4.7 kg



TS922PEL
Pin Assembly with Lock
(optional pin)
10.5 lb / 4.8 kg



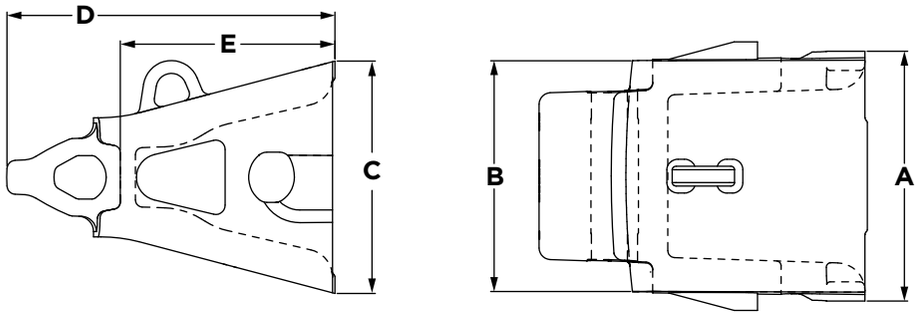
TS922RT
Square Removal Tool
0.9 lb / 0.4 kg



Can also use 1/2" extension with 3/4" drive

Note: Measurements are in inches.

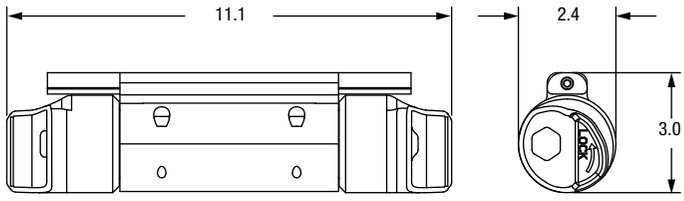
922 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



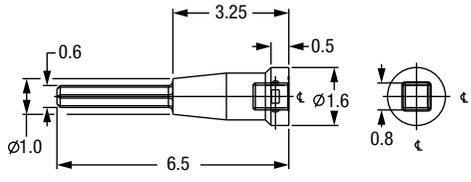
INTERMEDIATE ADAPTERS												
XS Series	Part Number	Dimensions										Weight
		A		B		C		D		E		
		"	mm	"	mm	"	mm	"	mm	"	mm	lb	kg
TS922	110TS922†	13.9	352	12.4	314	12.6	319	18.6	471	12.5	318	265.0	120.2
	132TS922††	12.0	305	12.4	314	12.1	306	16.4	417	10.4	264	290.0	131.5
	390TS922†††	12.75	324	12.5	318	12.4	316	18.0	458	12.0	305	270.0	122.5
	A390TS922*	12.75	324	12.5	318	12.4	316	18.0	458	12.0	305	270.0	122.5
	95TS922NR**	12.1	308	12.5	318	11.25	286	17.0	433	11.0	279	234.0	106.1
	394TS922***	14.4	365	12.5	318	12.4	314	18.0	458	12.0	305	281.0	127.5

† Use SP110S Spool amd 110ELW Wedge
†† Fastener not available
††† Use XS390TPX
* Sold with Laminite wear buttons.
** Use 955PS Spool and 95W1W Wedge, 95W2W Oversize
*** Use XS394P

XS394P
Pin, Assembly
21.8 lb / 9.9 kg

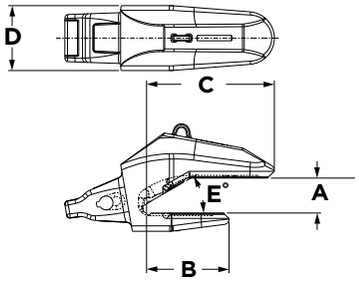


TS1122RTL
Hex Removal Tool
or 1/2" extension
1.2 lb / 0.5 kg

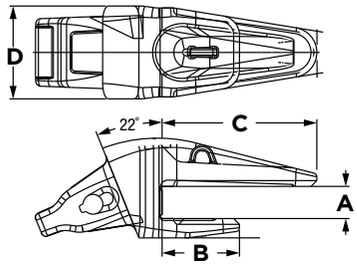


Note: Measurements are in inches.

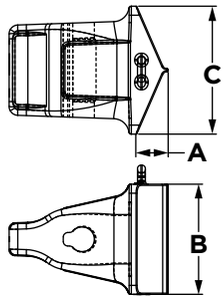
922 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



Type 15



Type 16



Weld-On Nose

BASE (LIP) ADAPTERS

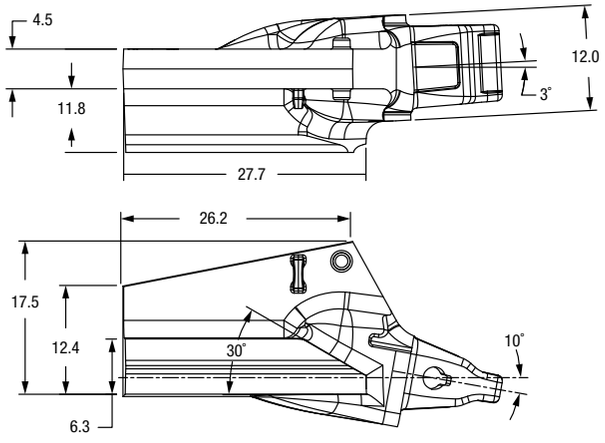
XS Series	Part Number	Type	Dimensions								Down Pitch Degree	Lip Thickness		Weight	
			A		B		C		D						
			"	mm	"	mm	"	mm	"	mm		"	mm	lb	kg
390	160XS390*	16	6.5	164	14.7	373	23.0	586	12.0	305	10°	6.3	160	590.0	267.6
	163XS390C***	15	6.5	164	15.2	387	23.6	600	12.0	305	10°	6.3	160	770.0	349.3
	400XS390**	16	4.2	106	10.0	254	20.0	508	12.0	305	22°	4.2	107	590.0	267.6
	500XS390**	16	5.1	130	12.0	305	22.0	559	11.5	292	20.5°	5.2	132	650.0	294.8
	WC390HX	Wear Cap												86.0	39.0
	XS390WN	Weld-On Nose	Under Development												

* Available as assembly with wear cap (WC390HX)
** Dragline adapter
***for max. 5.0" cheek plate thickness

Note: Measurements are in inches.

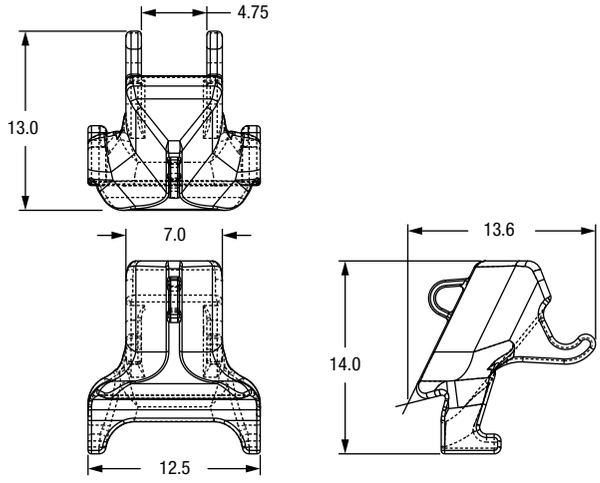
922 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers

630XS390CR (RH Shown)
630XS390CL (LH Opposite)
Corner
1,313.0 lb / 595.6 kg

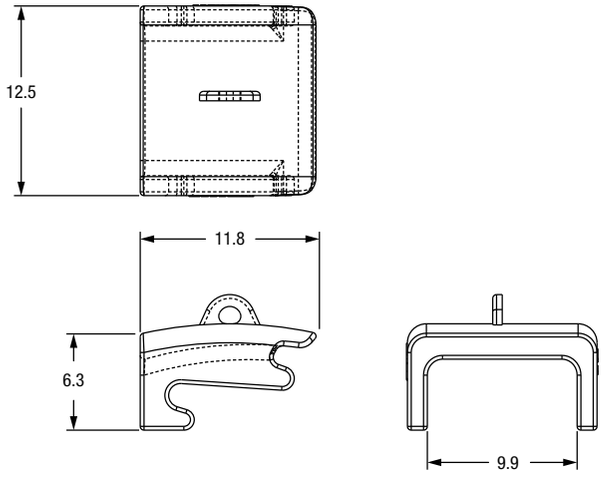


Available as assembly with wear cap

625WS390
Lower Vertical Shroud
134.0 lb / 60.8 kg

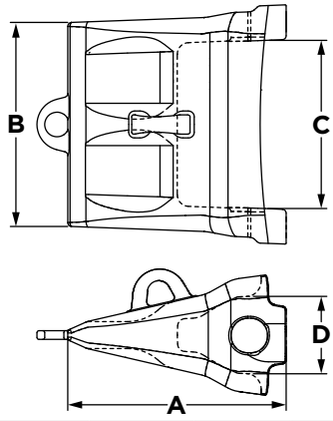


WC390HX
Wear Cap
78.0 lb / 35.4 kg



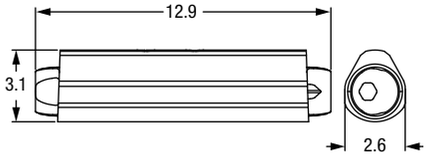
Note: Measurements are in inches.

1122 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers

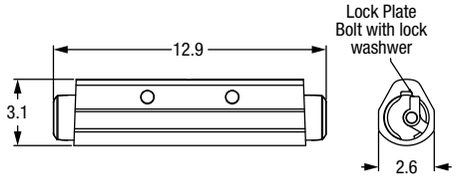


TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
TS1122	TS1122BP	TS1122PSL	16.1	10	13.25	337	11.5	292	5.1	130	150.0	68.0
	TS1122DPS		13.0	330	13.0	330	11.5	292	5.1	130	124.0	56.2
	TS1122H		14.3	362	13.25	337	11.5	292	5.1	130	142.0	64.4
	TS1122RML		14.3	362	12.75	324	11.5	292	5.1	130	185.0	83.9
	TS1122RXL		15.8	400	12.75	324	11.5	292	5.1	130	213.0	96.6
	TS1122TAP		14.7	374	15.25	387	11.5	292	5.1	130	128.0	58.1
	TS1122TAPL		16.7	424	15.25	387	11.5	292	5.1	130	194.0	88.0
	TS1122TAPS		16.7	424	14.5	368	11.5	292	5.1	130	210.0	95.3

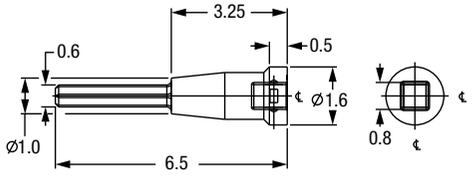
TS1122PSL
19.0 lb / 8.6 kg



TS1122PEL
Optional Pin, Exterior Lock
19.0 lb / 8.6 kg

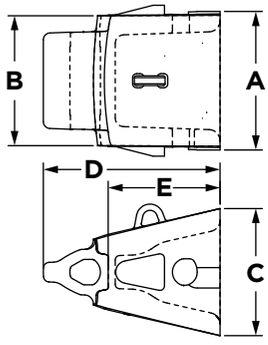


TS1122RTL
Hex Removal Tool
or 1/2" extension
1.2 lb / 0.5 kg

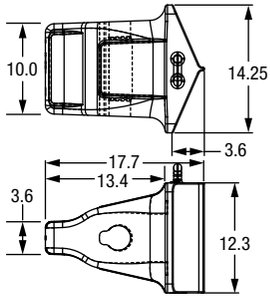


Note: Measurements are in inches.

1122 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers



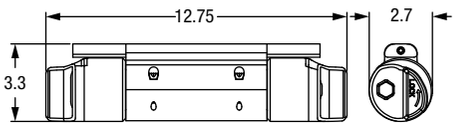
XS640WN
Weld-on nose
366.0 lb / 166.0 kg



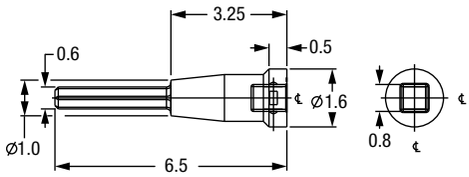
INTERMEDIATE ADAPTERS													
XS Series	Part Number	Dimensions										Weight	
		A		B		C		D		E			
		"	mm	"	mm	"	mm	"	mm	"	mm	lb	kg
TS1122	130TS1122†	15.8	401	14.5	368	14.9	378	21.5	545	13.9	354	398.0	180.5
	534TS1122NR††	14.2	361	14.5	368	13.7	349	19.6	498	12.5	316	382.0	173.3
	640TS1122†††	14.75	375	14.5	368	14.0	356	19.4	494	12.25	311	386.0	175.1
	644TS1122††††	12.25	387	14.5	368	14.0	356	19.4	494	12.25	311	400.0	181.4
	800TS1122NR†††††	16.25	413	14.5	368	15.8	402	21.7	551	14.5	368	548.0	248.6
	A640TS1122*	14.75	375	14.5	368	14.0	356	19.4	494	12.25	311	402.0	182.3
	A64OTS1122B	14.75	375	14.5	368	14.0	356	19.4	494	12.25	311	402.0	182.3
	A644TS1122B	12.25	387	14.5	368	14.0	356	19.4	494	12.25	311	400.0	181.4

* Sold with Laminite wear buttons
† Use 130ELW wedge & SP130 Spool.
†† Use 534ELW wedge & 534SP Spool.
††† Use XS640TPX
†††† Use XS644P
††††† Use XS800TPX

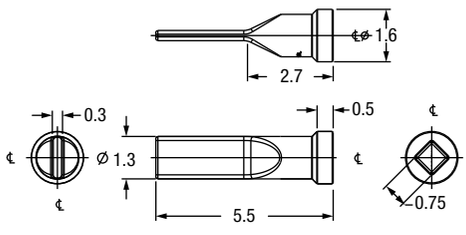
XS644P
Pin Assembly
18.0 lb / 8.2 kg



TS1122RTL
Hex Removal Tool
or 1/2" extension
1.2 lb / 0.5 kg

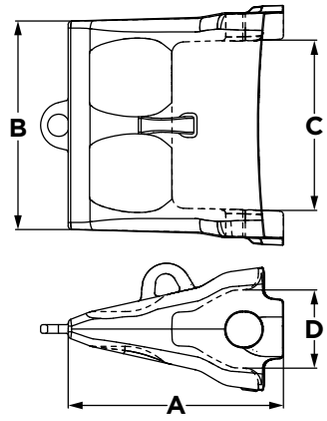


XSC12RTL
Slot removal tool
1.2 lb / 0.5 kg



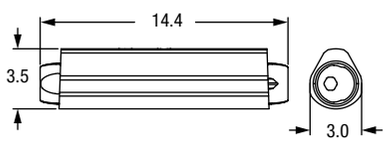
Note: Measurements are in inches.

1222 SERIES SPECIFICATIONS - TEETH & PIN ASSEMBLY
Exclusively for XS Extreme Service Dealers

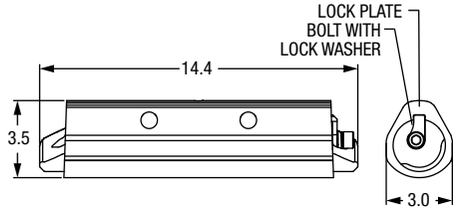


TEETH											
XS Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
TS1222	TS1222DPS	TS1222PSL	15.9	403	14.25	362	12.9	327	5.7	146	192.0	87.1
	TS1222MA		15.5	394	15.0	381	12.9	327	5.7	146	217.0	98.4
	TS1222RML		16.75	425	15.0	381	12.9	327	5.7	146	280.0	127.0
	TS1222TAP		16.0	406	17.2	438	12.9	327	5.7	146	182.0	82.6
	TS1222TAPS		18.75	476	16.5	419	12.9	327	8.9	227	258.0	117.0

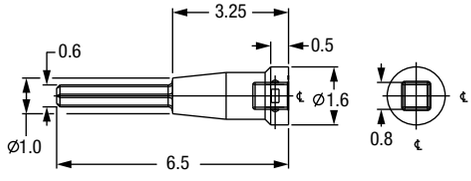
TS1222PSL
Pin
25.4 lb / 11.5 kg



TS1222PEL
Optional Pin, Exterior Lock
27.0 lb / 12.2 kg



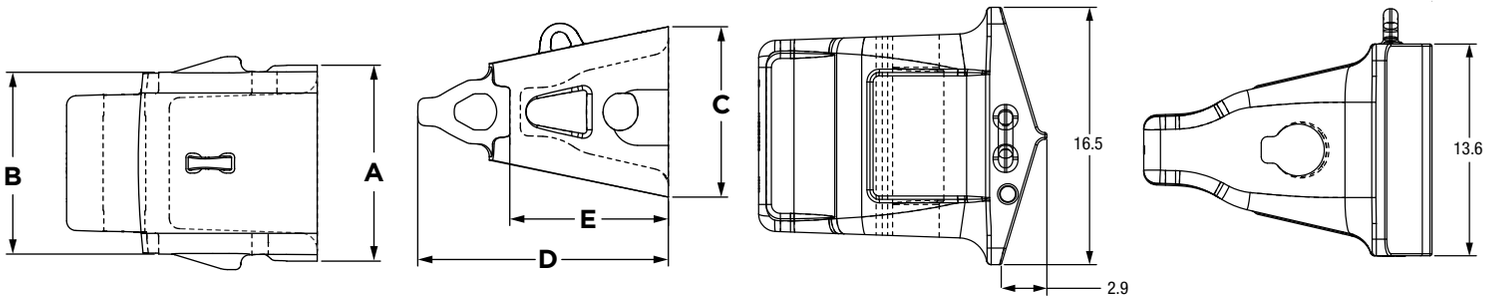
TS1122RTL
Hex Removal Tool
1.2 lb / 0.5 kg



Note: Measurements are in inches.

1222 SERIES SPECIFICATIONS - ADAPTERS & NOSES
Exclusively for XS Extreme Service Dealers

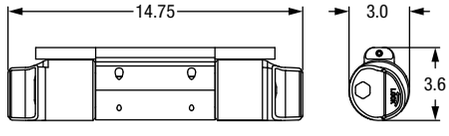
XS800WN
Weld-on Nose
420.o lb / 190.5 kg



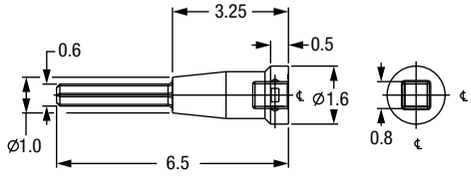
INTERMEDIATE ADAPTERS												
XS Series	Part Number	Dimensions										Weight
		A		B		C		D		E		
		"	mm	"	mm	"	mm	"	mm	"	mm	lb	kg
TS1222	574TS1222**†	18.3	464	16.0	406	17.5	445	23.75	603	15.6	397	595.0	269.9
	640TS1222††	14.75	375	16.0	406	14.25	362	21.1	535	13.0	330	515.0	233.6
	644TS122	15.25	387	16.0	406	14.25	362	21.1	536	13.0	330	521.0	236.3
	800TS1222†††	16.25	413	16.0	406	15.0	381	22.4	568	14.3	362	560.0	254.0
	804TS1222††††	17.25	438	16.0	406	15.0	381	22.1	560	14.0	355	555.0	251.7
	A800TS1222B*	17.25	438	16.0	406	15.0	381	22.1	560	14.0	355	600.0	272.2
	A574TS1222*	18.3	464	16.0	406	17.5	445	23.75	603	15.6	397	625.0	283.5
	A574TS1222B*	18.3	464	16.0	406	17.5	445	23.75	603	15.6	397	655.0	297.1
	A574TS1222D*	18.3	464	16.0	406	17.5	445	23.75	603	15.6	397	645.0	292.6

*Sold with laminite only
**†574W2W Wedge & 574SP Spool
†† XS640TPX
††† XS800TPX
†††† XS804P

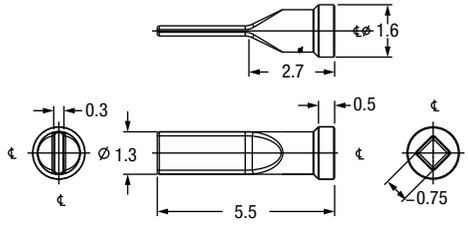
XS804P
Pin, Assembly
31.2 lb / 14.2 kg



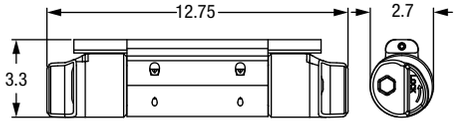
TS1122RTL
Hex Removal Tool
1.2 lb / 0.5 kg



XSC12RTL
Slot removal tool
1.2 lb / 0.5 kg



XS644P
Pin Assembly
18.0 lb / 8.2 kg



Note: Measurements are in inches.

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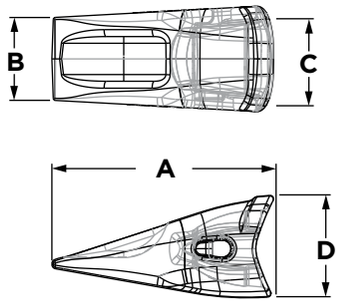
2.2

PROPRIETARY PRODUCTS

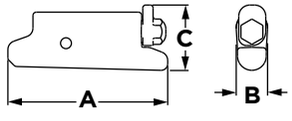
KMAX - Exclusively for Komatsu Dealers

ACCESS TO SPECIFIC ITEMS IN THIS PUBLICATION IS SUBJECT TO YOUR INDIVIDUAL DEALER CLASSIFICATION.

15 SERIES TEETH & PIN ASSEMBLY
Exclusively for Komatsu Dealers



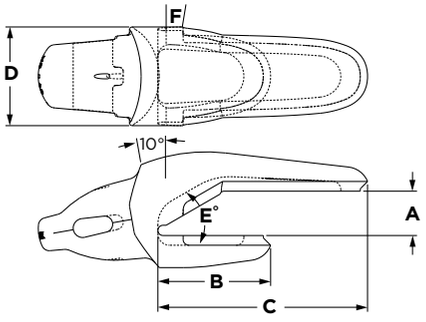
TEETH											
Kmax Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			″	mm	″	mm	″	mm	″	mm	lb	kg
15	K15BPS	KP15C	8.2	209	3.0	77	2.7	67	2.9	74	10.1	4.6
	K15F		8.1	205	5.6	142	2.7	67	2.9	74	10.2	4.6
	K15KG2		8.2	208	3.3	83	2.7	67	2.9	74	9.9	4.5
	K15RC		8.6	217	2.7	69	2.7	67	2.9	74	8.0	3.6
	K15RP1		8.2	209	2.9	73	2.7	67	2.9	74	9.9	4.5
	K15RP2		8.5	216	2.9	74	2.7	67	2.9	74	11.4	5.2
	K15SD		8.6	217	1.8	45	2.7	67	2.9	74	7.9	3.6
	K15SYL		8.2	207	3.2	82	2.7	67	2.9	74	7.6	3.4
	K15T		8.9	227	0.4	10	2.7	67	2.9	74	6.6	3.0
	K15TV		8.9	227	0.3	8	2.7	67	2.9	74	6.4	2.9
	K15UT		8.9	227	4.4	111	2.7	67	2.9	74	7.1	3.2
	K15WT		8.9	227	4.4	111	2.7	67	2.9	74	6.8	3.1



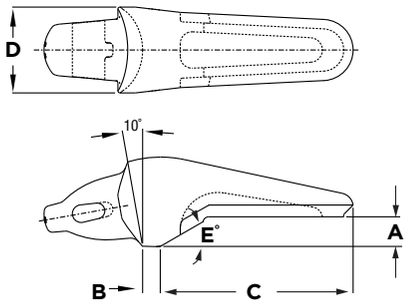
PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		″	mm	″	mm	″	mm	lb	kg	″	mm
Standard Duty	KP15C	3.6	91	0.7	18	1.3	32	0.5	0.2	3/8	10
Slag*	KP15S	3.6	91	0.7	18	1.3	32	0.8	0.4	3/8	10

*Not reusable

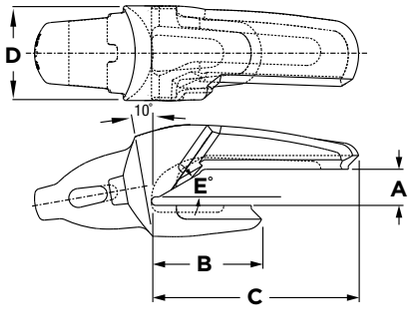
15 SERIES ADAPTERS
Exclusively for Komatsu Dealers



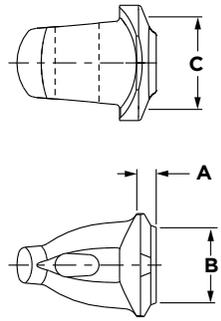
Type 1



Type 2



Type 3



Weld-on Nose

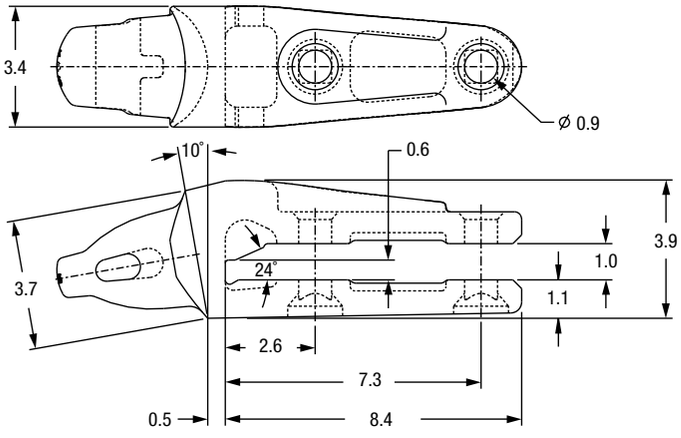
ADAPTERS

Kmax Series	Part Number	Type	Dimensions											Weight	
			A		B		C		D		E Bevel Degree	Lip Thickness			
			″	mm	″	mm	″	mm	″	mm		″	mm	lb	kg
15	K110015	1	1.1	27	3.9	98	7.3	186	3.4	87	30˚	1.0	25	13.1	5.9
	K8025M15	1	1.1	27	3.9	98	7.25	184	3.4	87	25˚	1.0	25	13.5	6.1
	K9025M15	2	1.1	27	0.5	13	8.1	206	3.4	87	25˚	1.0	25	17.8	8.1
	K1030M15	1	1.2	32	3.9	99	7.4	187	3.4	87	30˚		30	12.9	5.9
	K2025M15	2	1.0	27	0.5	13	8.1	206	3.4	87	30˚		30	17.5	7.9
	K112515	1	1.3	33	3.9	99	7.4	187	3.4	87	30˚	1.25	30	12.7	5.8
	K612515L	3 Corner	1.3	33	4.0	102	7.5	191	3.4	87	30˚	1.25	30	14.5	6.6
	K612515R	3 Corner	1.3	33	4.0	102	7.5	191	3.4	87	30˚	1.25	30	14.5	6.6
	K8030M15	1	1.3	32	3.9	98	7.4	187	3.4	87	25˚	1.25	30	13.6	6.2
	K5036M15	5A	1.5	38	4.1	103	7.7	194	3.4	87	Blunt		35	13.1	5.9
	K115015	1	1.6	40	3.9	100	4.4	189	3.4	87	30˚	1.5	40	12.9	5.9
	K15WN	Weld-on Nose	1.25	32	3.25	83	3.4	87						5.6	2.5

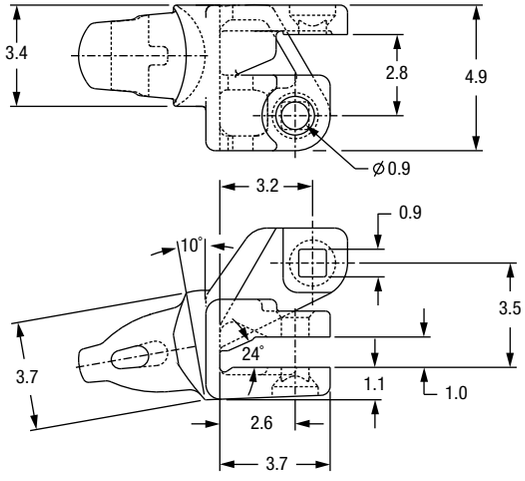
15 SERIES BOLT-ON ADAPTERS
Exclusively for Komatsu Dealers

BOLT-ON ADAPTERS - WA180

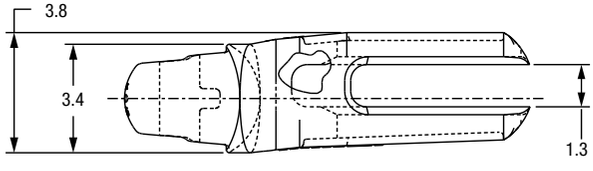
K3025M15
Center
1.0” Lip, 18.9 lb / 8.6 kg
Plow Bolt Assembly: AC78-312

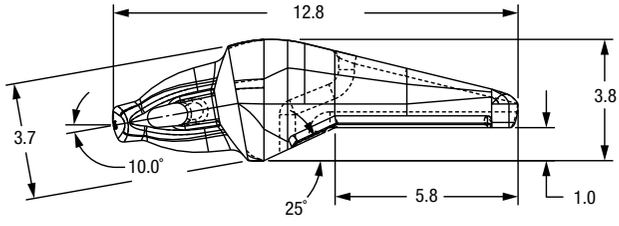


K3025M15R (L)
LH Opposite
1.0” Lip, 17.3 lb / 7.5 kg
Plow Bolt Assembly: AC78-312 & AC78-200



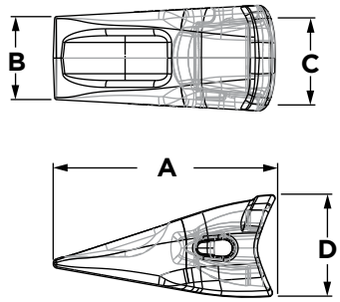
K902515CL (LH Shown)
K902515CR (RH Opposite)
Flush Corner Adapter
1.0” Lip, 20.0 lb / 9.1 kg



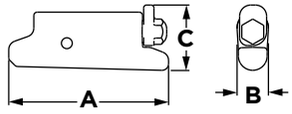


Note: Measurements are in inches.

20 SERIES TEETH & PIN ASSEMBLY
Exclusively for Komatsu Dealers



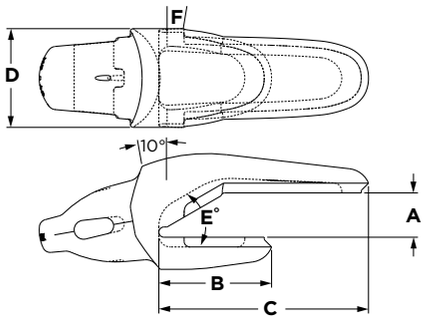
TEETH											
Kmax Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
20	K20BPS	KP20C	9.3	237	3.5	88	3.0	76	3.3	83	14.5	6.6
	K20F		9.4	238	6.4	162	3.0	76	3.3	83	15.7	7.1
	K20KG2		9.3	235	3.6	91	3.0	76	3.3	83	15.8	7.2
	K20RC		9.7	247	3.1	79	3.0	76	3.3	83	11.9	5.4
	K20RP1		9.3	237	3.3	83	3.0	76	3.3	83	14.0	6.4
	K20RP2		9.7	246	3.3	83	3.0	76	3.3	83	17.3	7.8
	K20SD		9.7	247	2.0	51	3.0	76	3.3	83	11.5	5.2
	K20SYL		9.25	235	3.7	94	3.0	76	3.3	83	11.0	5.0
	K20T		10.2	258	0.5	12	3.0	76	3.3	83	10.2	4.6
	K20TV		10.2	258	0.4	10	3.0	76	3.3	83	9.6	4.4
	K20UT		10.2	258	4.9	126	3.0	76	3.3	83	10.9	4.9
	K20WT		10.1	258	4.9	126	3.0	76	3.3	83	10.9	4.9



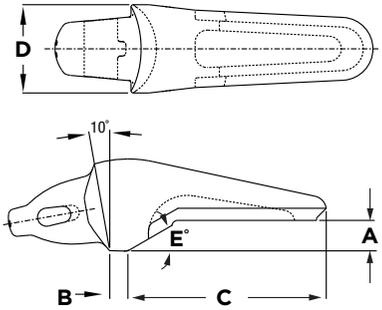
PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Standard Duty	KP20C	4.1	103	0.8	20	1.4	36	0.8	0.4	7/16	11
Slag*	KP20S	4.1	103	0.8	20	1.4	36	0.9	0.4	7/16	11

*Not reusable

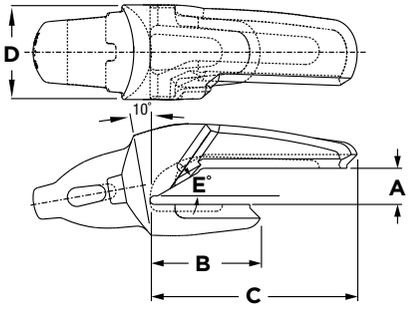
20 SERIES ADAPTERS AND NOSES
Exclusively for Komatsu Dealers



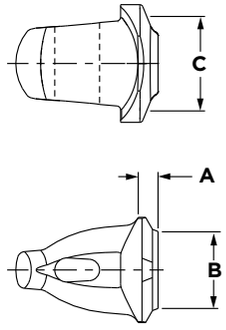
Type 1



Type 2



Type 3



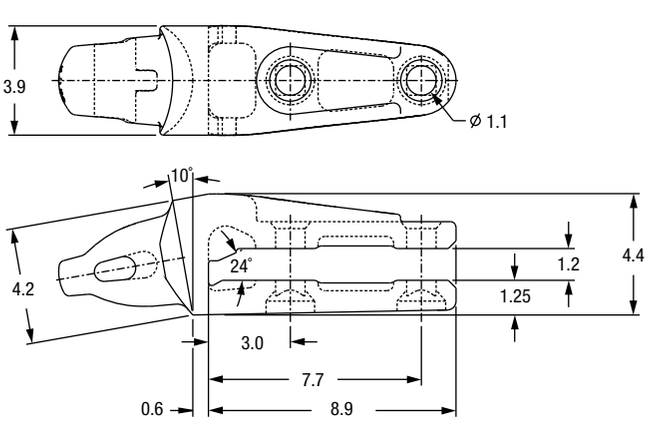
Weld-on Nose

ADAPTERS														
Kmax Series	Part Number	Type	Dimensions											Weight
			A		B		C		D		E Bevel Degree	Lip Thickness		
			"	mm	"	mm	"	mm	"	mm		"	mm	lb	kg
20	K1030M20	1	1.2	32	4.2	107	8.3	210	3.9	100	30˚	1.25	30	19.8	9.0
	K112520	1	1.3	33	4.2	106	8.2	209	3.9	100	30˚	1.25	30	18.0	8.2
	K2030M20	2	1.2	32	0.9	22	9.3	237	3.9	100	30˚	1.25	30	24.4	11.1
	K612520L	3 Corner	1.3	33	4.6	116	8.5	216	3.9	100	30˚	1.25	30	21.8	9.9
	K612520R	3 Corner	1.3	33	4.6	116	8.5	216	3.9	100	30˚	1.25	30	21.8	9.9
	K8030M20	1	1.3	32	4.2	107	8.3	210	3.9	100	25˚	1.25	30	18.0	8.2
	K9030M20	2	1.25	32	0.9	22	9.3	237	3.9	100	25˚	1.25	30	25.4	11.5
	K9030M20CL	2	1.2	32	0.9	22	9.3	232	3.9	100	25˚	1.25	30	29.0	13.2
	K9030M20CR	2	1.2	32	0.9	22	9.3	232	3.9	100	25˚	1.25	30	29.0	13.2
	K5035M20	5A	1.4	37	4.0	102	8.0	203	3.9	100	Blunt	-	35	19.0	8.6
	K115020	1	1.6	40	4.3	108	8.2	209	3.9	100	30˚	1.5	35	18.3	8.3
	K615020L	3 Corner	1.6	40	4.4	112	8.4	213	3.9	100	30˚	1.5	35	20.8	9.4
	K615020R	3 Corner	1.6	40	4.4	112	8.4	213	3.9	100	30˚	1.5	35	20.8	9.4
	K8035M20	1	1.4	37	4.4	111	8.4	213	3.9	100	25˚	1.5	35	18.3	8.3
	K5040M20	5	1.7	42	6.5	165	8.3	210	3.9	100	Blunt	-	40	19.3	8.8
	K1040M20	1	1.6	42	4.2	107	8.2	209	3.9	100	30˚	1.5	40	18.2	8.3
	K20WN	Weld-on Nose	0.6	14	2.5	63	3.9	100						8.5	3.9

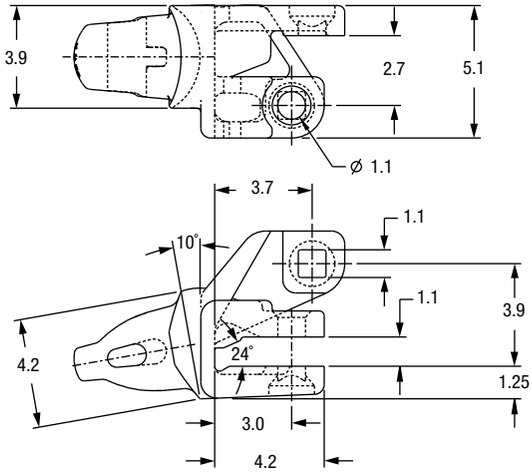
20 SERIES BOLT-ON ADAPTERS
Exclusively for Komatsu Dealers

BOLT-ON ADAPTERS - WA250, WA320

K3028M20
Center
28mm Lip, 25.6 lb / 11.6 kg
Plow Bolt Assembly: AC10-334

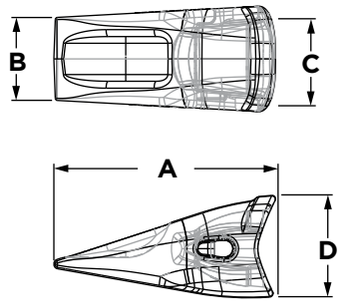


K3028M20R (L)
LH Opposite
28mm Lip, 22.2 lb / 10.1 kg
Plow Bolt Assembly: AC10-334 & AC10-200

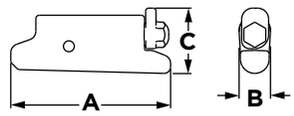


Note: Measurements are in inches.

25 SERIES TEETH & PIN ASSEMBLY
Exclusively for Komatsu Dealers



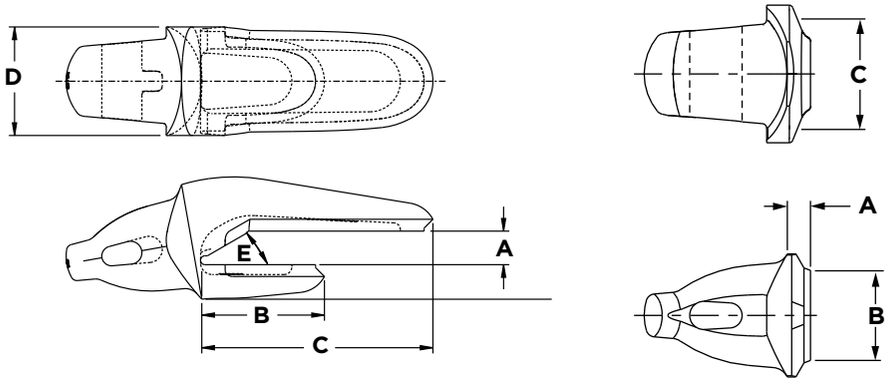
TEETH											
Kmax Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
25	K25BPS	KP25C	3.9	267	3.9	100	3.4	87	3.75	95	21.9	9.9
	K25F		7.25	270	7.25	184	3.4	87	3.75	95	22.2	10.1
	K25RC		3.5	279	3.5	89	3.4	87	3.75	95	16.7	7.6
	K25RP1		3.7	268	3.7	95	3.4	87	3.75	95	20.2	9.2
	K25RP2		3.7	279	3.7	95	3.4	87	3.75	95	25.8	11.7
	K25SD		2.3	279	2.3	58	3.4	87	3.75	95	16.5	7.5
	K25SYL		4.2	267	4.2	106	3.4	87	3.75	95	15.2	6.9
	K25T		0.5	292	0.5	13	3.4	87	3.75	95	14.4	6.5
	K25TV		0.4	292	0.4	11	3.4	87	3.75	95	13.9	6.3
	K25UT		5.6	292	5.6	142	3.4	87	3.75	95	15.3	6.9
	K25WT		5.6	292	5.6	142	3.4	87	3.75	95	15.2	6.9



PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Standard Duty	KP25C	4.6	117	0.9	23	1.6	41	1.1	0.5	7/16	11
Slag*	KP25S	4.6	117	0.9	23	1.6	41	1.1	0.5	7/16	11

*Not reusable

25 SERIES ADAPTERS, NOSES & BOLT-ON ADAPTERS
Exclusively for Komatsu Dealers

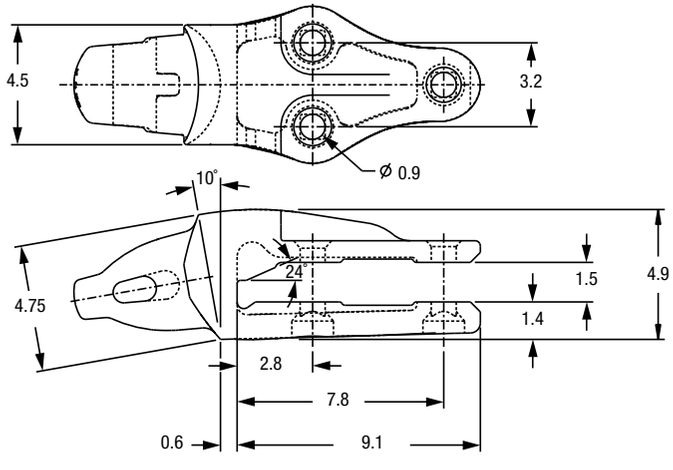


ADAPTERS

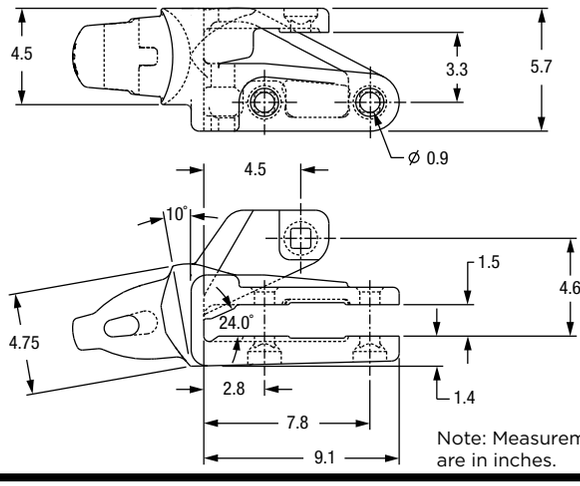
Kmax Series	Part Number	Type	Dimensions											Weight	
			A		B		C		D		E Bevel Degree	Lip Thickness			
			"	mm	"	mm	"	mm	"	mm		"	mm	lb	kg
25	K1035M25	1	1.4	37	4.7	120	9.3	236	4.5	114	30˚	1.5	35	27.6	12.5
	K1040M25	1	1.6	42	4.8	121	9.3	236	4.5	114	30˚	1.5	40	27.3	12.4
	K115025	1	1.6	40	4.8	121	9.4	238	4.5	114	30˚	1.5	40	27.5	12.5
	K2035M25	2	1.4	37	0.6	16	10.5	267	4.5	114	30˚	1.5	35	37.8	17.1
	K615025L	3 Corner	1.6	40	5.1	130	9.6	244	4.5	114	30˚	1.5	40	30.7	13.9
	K615025R	3 Corner	1.6	40	5.1	130	9.6	244	4.5	114	30˚	1.5	40	30.7	13.9
	K8035M25	1	1.5	37	4.75	121	9.4	238	4.5	114	25˚	1.5	35	29.1	13.2
	K8040M25	1	1.6	42	4.8	121	9.3	237	4.5	114	25˚	1.5	40	27.7	12.6
	K9035M25	2	1.4	37	0.6	16	10.5	267	4.5	114	25˚	1.5	35	39.5	17.9
	K117525	1	1.8	46	4.8	121	9.3	237	4.5	114	30˚	1.75	45	26.9	12.2
	K117525L	1 Spade	1.8	46	4.9	123	9.5	241	4.5	114	30˚	1.75	45	28.0	12.7
	K117525R	1 Spade	1.8	46	4.9	123	9.5	241	4.5	114	30˚	1.75	45	28.0	12.7
	K617525L	3 Corner	1.8	46	5.0	127	9.5	241	4.5	114	30˚	1.75	45	30.8	14.0
	K617525R	3 Corner	1.8	46	5.0	127	9.5	241	4.5	114	30˚	1.75	45	30.8	14.0
	K25WN	Weld-on Nose	1.6	40	4.3	110	4.5	114						12.5	5.7

BOLT-ON ADAPTERS - WA380, WA420, WA450, WA470, WA480

K3036M25
Center
36mm, Lip 31.8 lb / 14.4 kg
Plow Bolt Assembly: AC78-400

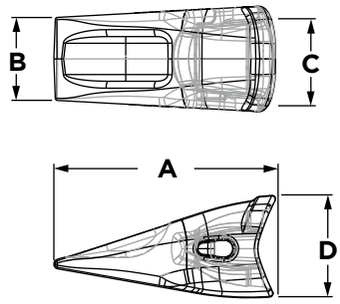


K3036M25R
LH Opposite
36mm, Lip 37.5 lb / 17.0 kg
Plow Bolt Assembly: AC78-400

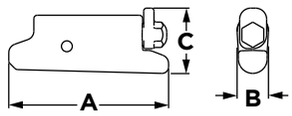


Note: Measurements are in inches.

30 SERIES TEETH & PIN ASSEMBLY
Exclusively for Komatsu Dealers



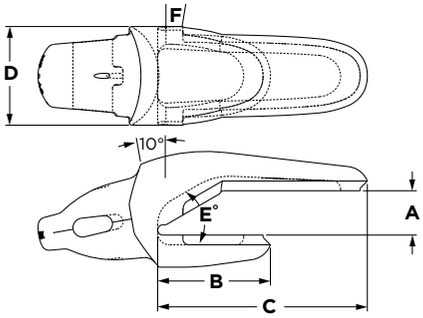
TEETH											
Kmax Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
30	K30BPS	KP30C	11.6	295	4.3	110	3.8	97	4.2	106	29.1	13.2
	K30EX		12.3	313	4.1	105	3.8	97	4.2	106	28.1	12.7
	K30F		11.75	140	8.0	204	3.8	97	4.2	106	31.1	14.1
	K30RC		12.3	313	4.1	103	3.8	97	4.2	106	23.5	10.7
	K30RP1		11.7	297	4.1	105	3.8	97	4.2	106	27.3	12.4
	K30RP2		12.1	308	4.1	104	3.8	97	4.2	106	34.5	15.6
	K30SDX		12.6	319	2.5	64	3.8	97	4.2	106	25.2	11.4
	K30SYL		11.6	295	4.6	117	3.8	97	4.2	106	22.2	10.1
	K30T		12.7	323	0.6	14	3.8	97	4.2	106	19.4	8.8
	K30TV		12.7	323	0.5	12	3.8	97	4.2	106	18.8	8.5
	K30UT		12.7	323	6.2	157	3.8	97	4.2	106	20.5	9.3
	K30WT		12.7	323	6.2	157	3.8	97	4.2	106	18.2	8.3



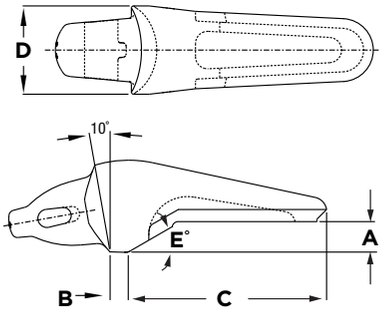
PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Standard Duty	KP30C	5.1	130	1.0	25	1.8	45	1.5	0.7	7/16	11
Slag*	KP30S	5.1	130	1.0	25	1.8	45	1.5	0.7	7/16	11

*Not reusable

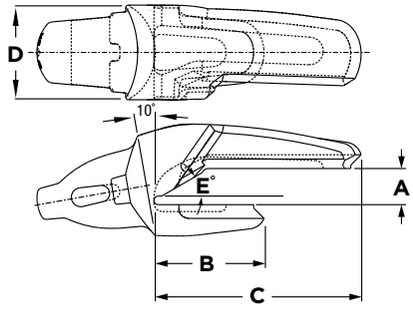
30 SERIES ADAPTERS & NOSES
Exclusively for Komatsu Dealers



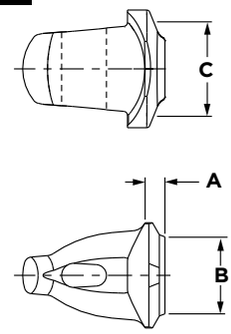
Type 1



Type 2



Type 3



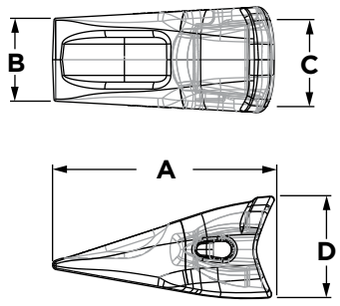
Weld-on Nose

ADAPTERS

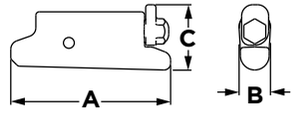
Kmax Series	Part Number	Type	Dimensions											Weight	
			A		B		C		D		E Bevel Degree	Lip Thickness			
			"	mm	"	mm	"	mm	"	mm		"	mm	lb	kg
30	K1040M30	1	1.6	42	5.0	128	10.2	258	4.9	125	30˚	1.5	40	38.6	17.5
	K1040M30L*	1 Spade	1.6	42	5.6	141	10.5	267	4.9	125	30˚	1.5	40	41.3	18.7
	K1040M30R*	1 Spade	1.6	42	5.6	141	10.5	267	4.9	125	30˚	1.5	40	41.3	18.7
	K2040M30	2	1.6	42	0.7	17	11.6	294	4.9	125	30˚	1.5	40	46.4	21.0
	K8040M30	2	1.6	42	5.0	128	10.2	258	4.9	125	25˚	1.5	40	38.9	17.6
	K9040M30	2	1.7	42	0.7	17	11.6	294	4.9	125	25˚	1.5	40	47.6	21.6
	K1045M30	1	1.8	47	4.9	125	10.0	255	4.9	125	30˚	1.75	45	38.8	17.6
	K117530	1	1.8	46	5.0	128	10.2	258	4.9	125	30˚	1.75	45	36.6	16.6
	K617530L	3 Corner	1.8	46	5.5	140	10.5	266	4.9	125	30˚	1.75	45	38.2	17.3
	K617530R	3 Corner	1.8	46	5.5	140	10.5	266	4.9	125	30˚	1.75	45	37.6	17.1
	K1050M30	1	2.1	52	4.9	124	10.0	254	4.9	125	30˚	2.0	50	33.4	15.2
	K120030	1	2.1	53	5.0	126	10.1	256	4.9	125	30˚	2.0	50	34.9	15.8
	K620030L	3 Corner	2.1	53	5.25	133	10.5	267	4.9	125	30˚	2.0	50	38.2	17.3
	K620030R	3 Corner	2.1	53	5.25	133	10.5	267	4.9	125	30˚	2.0	50	38.2	17.3
	K8050M30	1	2.1	53	4.9	125	10.1	256	4.9	125	25˚	2.0	50	35.8	16.2
	K9050M30	2	2.0	51	0.7	17	11.75	298	4.9	125	25˚	2.0	50	48.8	22.1
	K30WN	Weld-on Nose	0.7	18	4.75	121	4.9	125						17.6	8.0

* Used on Spade Lip - 12 degree angle

40 SERIES TEETH & PIN ASSEMBLY
Exclusively for Komatsu Dealers



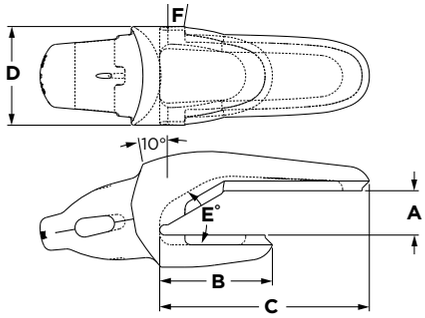
TEETH											
Kmax Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
40	K40ABR	KP40C	13.0	331	6.7	171	3.9	100	4.4	111	53.0	24.0
	K40AG		13.0	330	5.9	150	3.9	100	4.4	111	44.3	20.1
	K40BPS		12.4	316	4.6	117	3.9	100	4.4	111	32.9	14.9
	K40EX		13.1	333	4.4	112	3.9	100	4.4	111	35.0	15.9
	K40F		12.5	318	8.7	218	3.9	100	4.4	111	37.3	16.9
	K40RC		13.1	333	4.3	110	3.9	100	4.4	111	30.0	13.6
	K40RP1		12.4	316	4.4	111	3.9	100	4.4	111	33.5	15.2
	K40RP2		12.9	328	4.4	111	3.9	100	4.4	111	39.8	18.1
	K40SD		13.1	333	2.7	68	3.9	100	4.4	111	29.4	13.3
	K40SDX		13.4	340	2.7	68	3.9	100	4.4	111	30.6	13.9
	K40SYL		12.4	314	4.9	125	3.9	100	4.4	111	26.9	12.2
	K40T		13.6	345	0.6	15	3.9	100	4.4	111	24.4	11.1
	K40TV		13.6	345	0.5	13	3.9	100	4.4	111	23.1	10.5
	K40UT		13.6	345	6.6	168	3.9	100	4.4	111	25.8	11.7
	K40WT		13.6	345	6.6	168	3.9	100	4.4	111	23.4	10.6



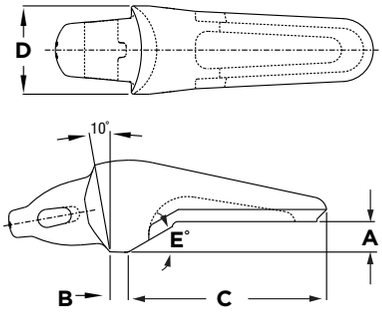
PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Standard Duty	KP40C	2.4	138	1.1	27	1.9	48	1.8	0.8	9/16	14
Slag*	KP40S	2.4	138	1.1	27	1.9	48	1.8	0.8	9/16	14

*Not reusable

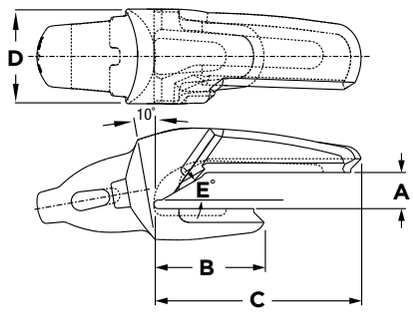
40 SERIES ADAPTERS & NOSES
Exclusively for Komatsu Dealers



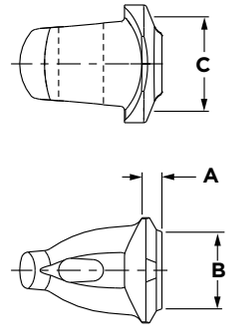
Type 1



Type 2



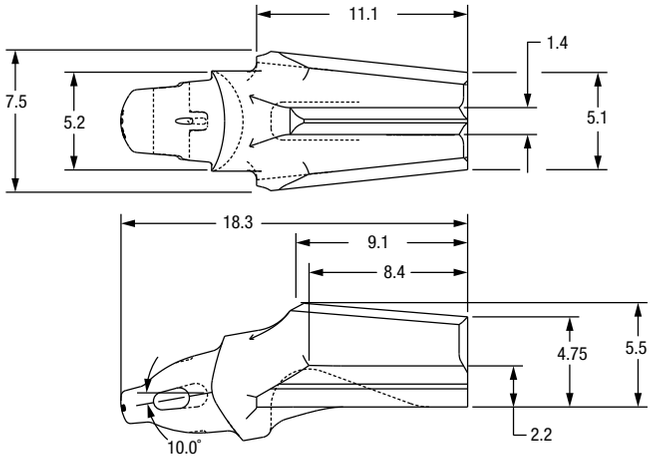
Type 3



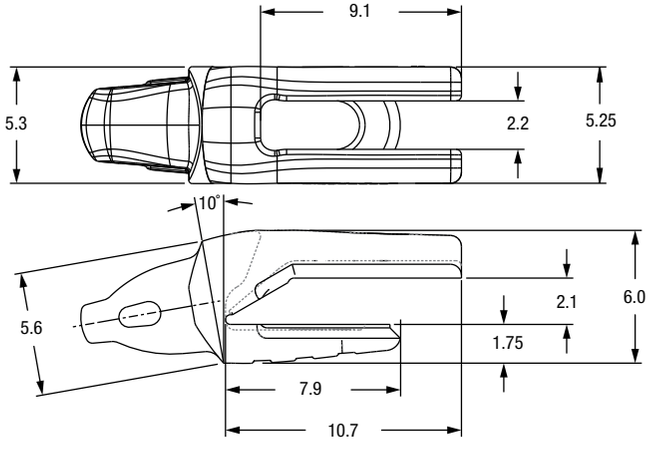
Weld-on Nose

ADAPTERS															
Kmax Series	Part Number	Type	Dimensions											Weight	
			A		B		C		D		E Bevel Degree	Lip Thickness			
			"	mm	"	mm	"	mm	"	mm		"	mm	lb	kg
40	K1045M40	1	1.8	47	5.75	146	11.0	279	5.3	134	30˚	1.8	45	43.2	19.6
	K1055M40	1	2.3	57	5.6	143	10.7	271	5.3	134	30˚	2.2	55	43.3	19.6
	K1060M40	1	2.5	62	5.6	142	11.0	279	5.3	134	30˚	2.5	60	42.9	19.5
	K1060M40L	1	2.5	62	5.9	151	11.1	283	5.3	134	30˚	2.5	60	47.3	21.5
	K1060M40R	1	2.5	62	5.9	151	11.1	283	5.3	134	30˚	2.5	60	47.0	21.3
	K1065M40	1	2.7	67	5.6	141	10.9	277	5.3	134	30˚	2.75	65	43.2	19.6
	K120040	1	2.1	53	5.6	142	11.0	280	5.3	134	30˚	2.0	50	43.5	19.7
	K120040L	1 Spade	2.1	53	5.9	149	11.0	283	5.3	134	30˚	2.0	50	46.2	21.0
	K120040R	1 Spade	2.1	53	5.9	149	11.0	283	5.3	134	30˚	2.0	50	46.2	21.0
	K125040	1	2.6	66	5.8	146	11.2	284	5.3	134	30˚	2.5	60	46.8	21.2
	K2045M40	2	1.8	47	0.8	19	12.3	313	5.3	134	30˚	1.8	45	59.0	26.8
	K5055M40	5	2.3	57	7.5	190	9.1	230	5.3	134	30˚	2.2	55	48.0	21.8
	K620040L	3 Corner	2.1	53	5.8	148	11.25	286	5.3	134	30˚	2.0	50	48.7	22.1
	K620040R	3 Corner	2.1	53	5.8	148	11.25	286	5.3	134	30˚	2.0	50	48.7	22.1
	K40WN	Weld-on Nose	1.9	48	5.6	142	5.3	134						34.7	15.7

K1055M40CC
T Corner Adapter
2.2” Lip, 78.0 lb / 35.4 kg



K120040SL
Straddle Leg Adapter
2.0” Lip, 54.0 lb / 24.5 kg

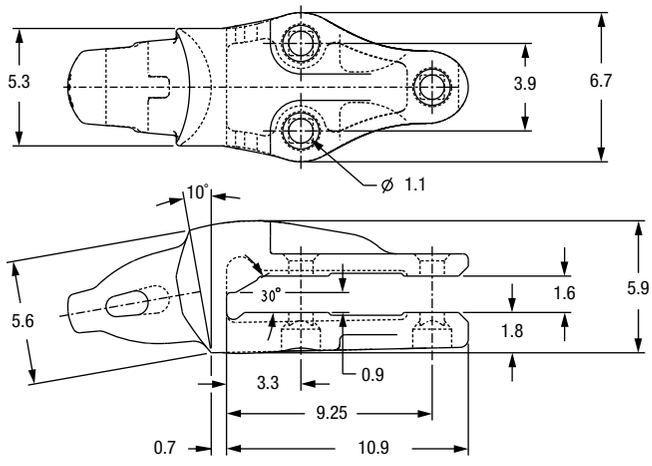


Note: Measurements are in inches.

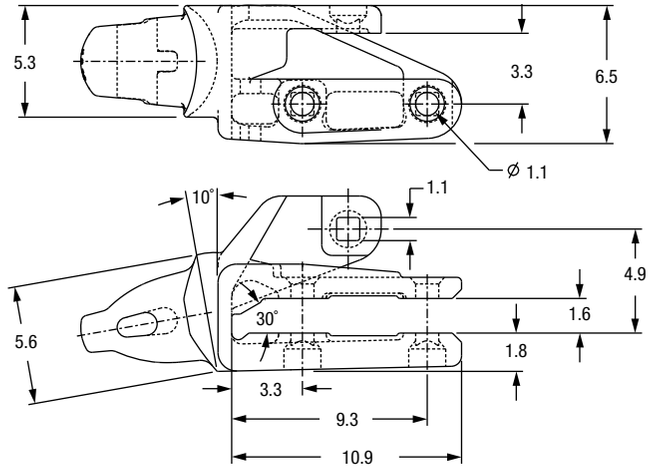
40 SERIES BOLT-ON ADAPTERS
Exclusively for Komatsu Dealers

BOLT-ON ADAPTERS - WA500

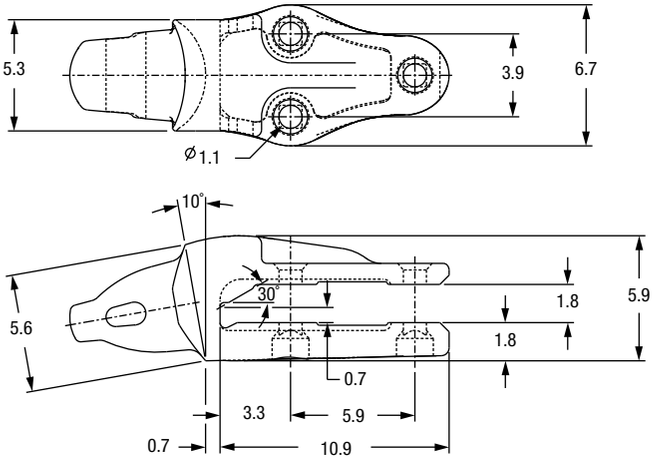
K3040M40
Center
40mm Lip, 56.0 lb / 25.4 kg
Plow Bolt Assembly: AC10-412



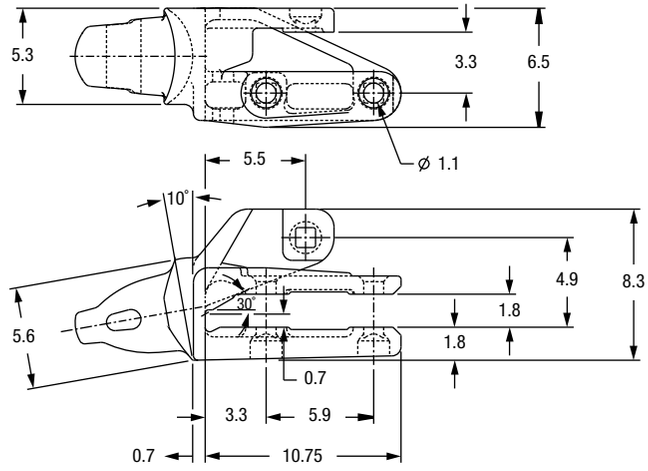
K3040M40R (L)
LH Opposite
40mm Lip, 61.0 lb / 27.7 kg
Plow Bolt Assembly: (3) AC10-412



K317540
Center
1.75" Lip, 61.0 lb / 27.7 kg
Plow Bolt Assembly: AC10-475

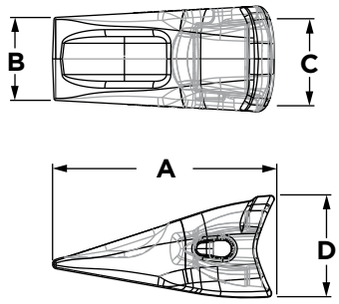


K317540R (L)
LH Opposite
1.75" Lip, 63.0 lb / 28.9 kg
Plow Bolt Assembly: (2) AC10-475 & AC10-450

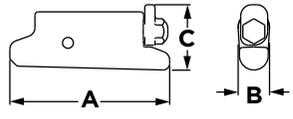


Note: Measurements are in inches.

50 SERIES TEETH & PIN ASSEMBLY
Exclusively for Komatsu Dealers



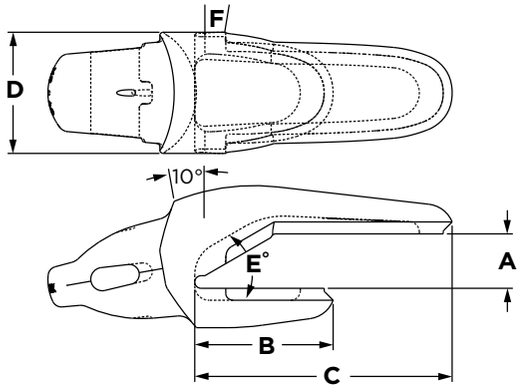
TEETH											
Kmax Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			″	mm	″	mm	″	mm	″	mm	lb	kg
50	K50ABR	KP50C	14.5	368	7.5	190	4.5	114	4.9	125	71.0	32.2
	K50AG		14.5	368	6.6	167	4.5	114	4.9	125	61.0	27.7
	K50BPS		12.4	316	5.1	130	4.5	114	4.9	125	47.9	21.7
	K50EX		14.4	367	4.9	124	4.5	114	4.9	125	46.8	21.2
	K50F		13.9	353	9.5	241	4.5	114	4.9	125	51.3	23.3
	K50RC		14.4	366	4.6	117	4.5	114	4.9	125	36.9	16.7
	K50RP1		13.8	351	4.9	124	4.5	114	4.9	125	46.3	21.0
	K50RP2		14.4	365	4.8	123	4.5	114	4.9	125	55.0	24.9
	K50RPX		14.8	376	4.8	123	4.5	114	4.9	125	70.0	31.8
	K50SC		13.1	332	4.8	122	4.5	114	4.9	125	35.6	16.1
	K50SD		14.4	366	3.0	75	4.5	114	4.9	125	37.5	17.0
	K50SDX		14.9	378	3.0	75	4.5	114	4.9	125	43.0	19.5
	K50SYL		13.9	352	5.6	141	4.5	114	4.9	125	38.2	17.3
	K50T		15.1	383	0.7	17	4.5	114	4.9	125	32.7	14.8
	K50TV		15.1	383	0.6	14	4.5	114	4.9	125	31.4	14.2
	K50UT		15.1	383	7.4	186	4.5	114	4.9	125	36.2	16.4
	K50WT		15.1	383	7.3	187	4.5	114	4.9	125	34.2	15.5



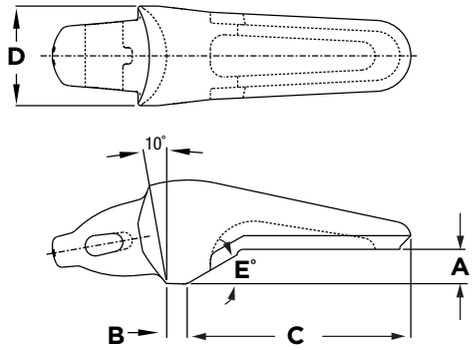
PIN ASSEMBLY											
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		″	mm	″	mm	″	mm	lb	kg	″	mm
Standard Duty	KP50C	6.1	155	1.2	30	2.1	53	2.5	1.1	9/16	14
Slag*	KP50S	6.1	155	1.2	30	2.1	53	2.5	1.1	9/16	14

*Not reusable

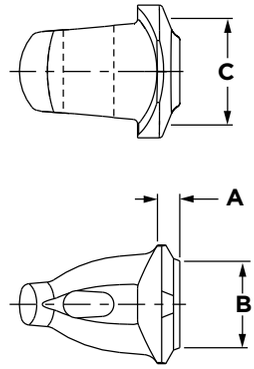
50 SERIES ADAPTERS & NOSES
Exclusively for Komatsu Dealers



Type 1



Type 2



Weld-on Nose

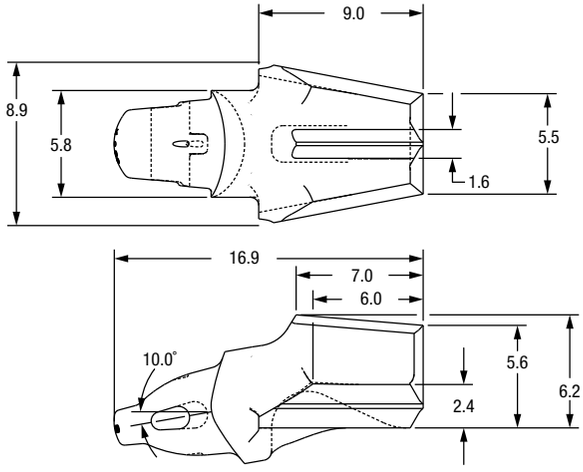
ADAPTERS

Kmax Series	Part Number	Type	Dimensions											Weight	
			A		B		C		D		E Bevel Degree	Lip Thickness			
			″	mm	″	mm	″	mm	″	mm		″	mm	lb	kg
50	K10060M50	5	2.5	62	7.8	198	9.4	238	5.8	148	30˚	2.0	50	65.0	29.5
	K120050	1	2.1	53	6.3	159	11.8	301	5.8	148	30˚	2.0	50	60.0	27.2
	K120050L	1 Spade	2.1	53	6.6	167	12.5	318	5.8	148	30˚	2.0	50	67.0	30.4
	K120050R	1 Spade	2.1	53	6.6	167	12.5	318	5.8	148	30˚	2.0	50	63.0	28.6
	K2050M50	2	2.0	52	1.0	25	13.7	348	5.8	148	30˚	2.0	50	87.0	39.5
	K1060M50	1	2.5	62	6.3	159	11.8	301	5.8	148	30˚	2.5	60	60.0	27.2
	K1060M50L	1 Spade	2.5	62	6.75	171	12.5	318	5.8	148	30˚	2.5	60	67.0	30.4
	K1060M50R	1 Spade	2.5	62	6.75	171	12.5	318	5.8	148	30˚	2.5	60	67.0	30.4
	K125050	1	2.6	66	6.3	159	11.8	300	5.8	148	30˚	2.5	60	60.0	27.2
	K125050L*	1 Spade	2.6	66	6.7	170	12.4	316	5.8	148	30˚	2.5	60	67.0	30.4
	K125050R*	1 Spade	2.6	66	6.7	170	12.4	316	5.8	148	30˚	2.5	60	67.0	30.4
	K2060M50	2	2.4	60	1.0	25	13.9	352	5.8	148	30˚	2.5	60	83.0	37.6
	K5060M50	5	2.5	62	7.9	200	9.4	240	5.8	148	Blunt	2.5	60	65.0	29.5
	K1065M50	1	2.7	67	6.25	159	11.8	300	5.8	148	30˚	2.75	65	59.0	26.8
	K1070M50	1	2.8	72	6.2	158	11.8	298	5.8	148	30˚	3.0	70	60.0	27.2
	K50WN	Weld-On Nose	1.0	25	5.6	143	5.8	148						28.8	13.1

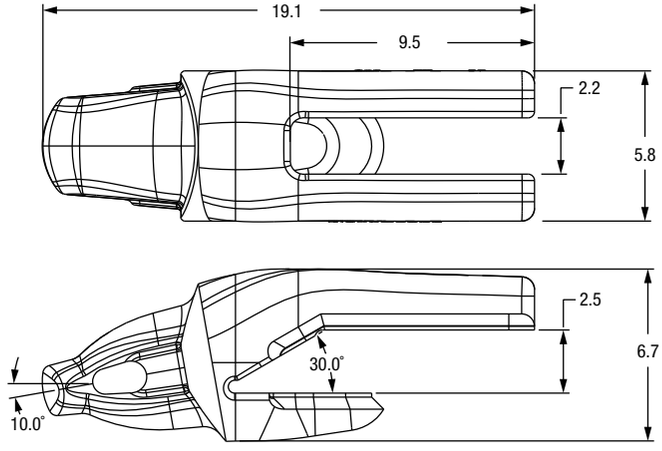
* Used on Spade Lip - 12 degree angle

50 SERIES ADAPTERS
Exclusively for Komatsu Dealers

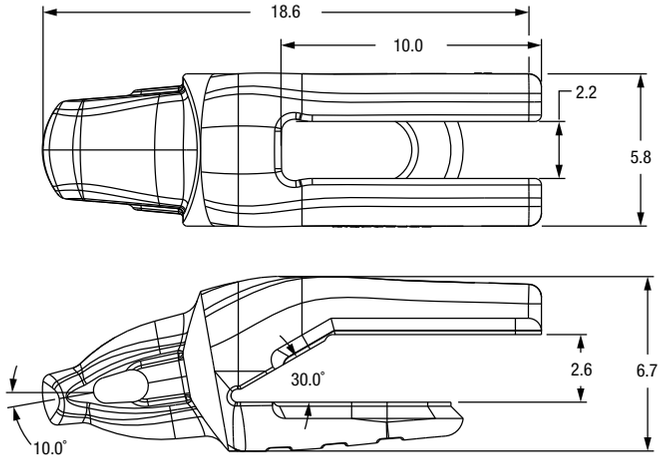
K1060M50CC
T Corner Adapter
2.5” Lip, 89.0 lb / 40.4 kg



K1060M50CS
Straddle Leg Adapter
2.5” Lip, 63.0 lb / 28.6 kg

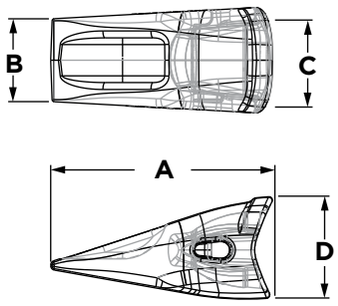


K125050SL
Straddle Leg Adapter
2.5” Lip, 74.0 lb / 33.6 kg

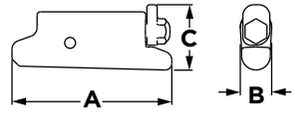


Note: Measurements are in inches.

70 SERIES TEETH & PIN ASSEMBLY
Exclusively for Komatsu Dealers



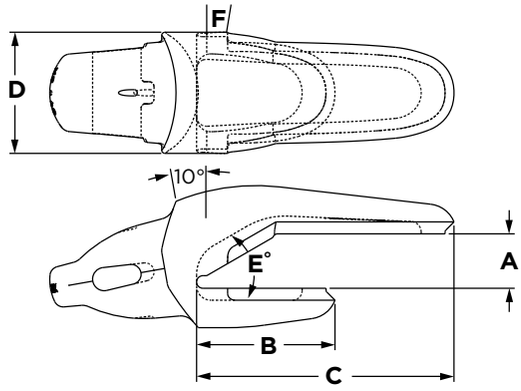
TEETH											
Kmax Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
70	K70ABR	KP70C	15.7	398	8.1	206	4.9	124	5.3	136	89.0	40.4
	K70AG		15.8	401	7.1	181	4.9	124	5.3	136	79.0	35.8
	K70BPS		15.0	382	5.5	141	4.9	124	5.3	136	61.9	28.1
	K70EX		15.6	397	5.3	134	4.9	124	5.3	136	59.0	26.8
	K70F		14.9	378	10.2	259	4.9	124	5.3	136	63.0	28.6
	K70HS		15.0	381	6.0	152	4.9	124	5.3	136	52.6	23.9
	K70RC		15.6	397	5.0	126	4.9	124	5.3	136	47.6	21.6
	K70RP1		15.0	381	5.1	129	4.9	124	5.3	136	54.0	24.5
	K70RP2		15.5	394	5.2	132	4.9	124	5.3	136	69.0	31.3
	K70RPX		16.0	406	5.2	133	4.9	124	5.3	136	85.0	38.6
	K70SD		15.6	397	3.2	82	4.9	124	5.3	136	48.4	22.0
	K70SDX		13.1	408	3.2	81	4.9	124	5.3	136	56.0	25.4
	K70SYL		15.0	381	6.0	152	4.9	124	5.3	136	47.3	21.5
	K70T		16.3	414	0.7	18	4.9	124	5.3	136	40.3	18.3
	K70TV		16.3	414	0.6	15	4.9	124	5.3	136	39.1	17.7
	K70UT		16.3	414	7.9	201	4.9	124	5.3	136	44.2	20.0
	K70WT		16.3	415	8.0	202	4.9	124	5.3	136	42.5	19.3



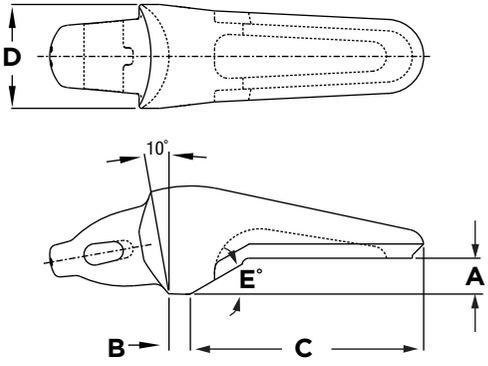
PIN ASSEMBLY										
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Standard Duty	KP70C	6.7	169	1.3	32	2.2	57	3.2	1.5	9/16	14
Slag*	KP70S	6.7	169	1.3	32	2.2	57	3.2	1.5	9/16	14

*Not reusable

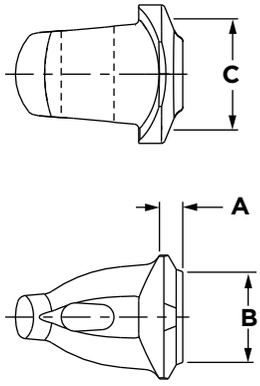
70 SERIES ADAPTERS & NOSES
Exclusively for Komatsu Dealers



Type 1



Type 2



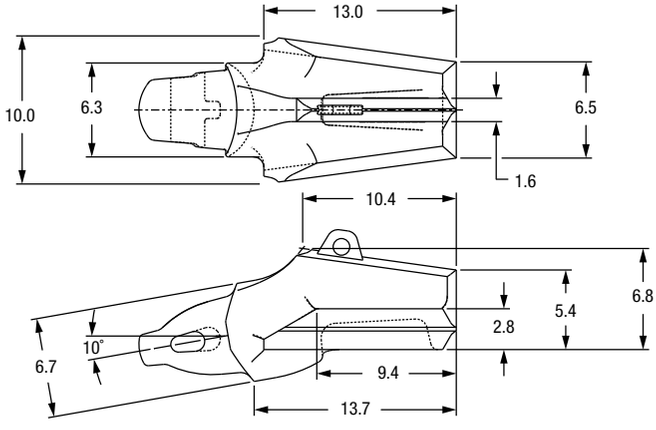
Weld-on Nose

ADAPTERS

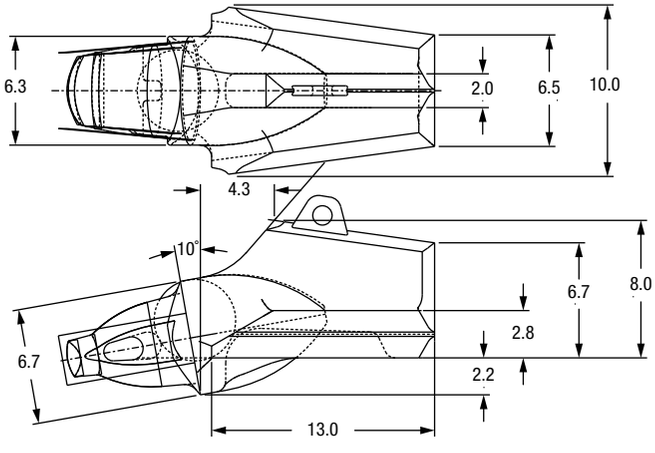
Kmax Series	Part Number	Type	Dimensions								E Bevel Degree	Lip Thickness		Weight	
			A		B		C		D						
			"	mm	"	mm	"	mm	"	mm		"	mm	lb	kg
70	K120070	1	2.1	53	7.0	178	13.4	340	6.3	161	30°	2.0	50	79.0	35.8
	K125070	1	2.6	66	7.0	178	13.3	338	6.3	161	30°	2.5	60	75.0	34.0
	K125070L	1 Spade	2.6	66	7.1	179	13.4	340	6.3	161	30°	2.5	60	84.0	38.1
	K125070R	1 Spade	2.6	66	7.1	179	13.4	340	6.3	161	30°	2.5	60	84.0	38.1
	K2065M70	2	2.7	67	1.1	28	15.0	381	6.3	161	30°	2.5	65	106.0	48.1
	K1070M70	1	2.8	72	7.3	184	13.5	343	6.3	161	30°	2.75	70	81.0	36.7
	K1070M70L*	1 Spade	2.8	72	7.5	191	13.8	349	6.3	161	30°	2.75	70	86.0	39.0
	K1070M70R*	1 Spade	2.8	72	7.5	191	13.8	349	6.3	161	30°	2.75	70	86.0	39.0
	K1080M70	1	3.2	82	7.25	184	13.5	342	6.3	161	30°	3.0	80	78.0	35.4
	K1080M70L*	1 Spade	3.2	82	7.4	187	13.4	340	6.3	161	30°	3.0	80	84.0	38.1
	K1080M70R*	1 Spade	3.2	82	7.4	187	13.4	340	6.3	161	30°	3.0	80	84.0	38.1
	K130070	1	3.1	79	7.25	184	13.5	343	6.3	161	30°	3.0	75	72.0	32.7
	K70WN	Weld-on Nose	1.1	28	6.1	156	6.3	161						37.3	16.9

* Used on Spade Lip - 12 degree angle

K1070M70CC
T Corner Adapter
2.75" Lip, 137.0 lb / 62.2 kg

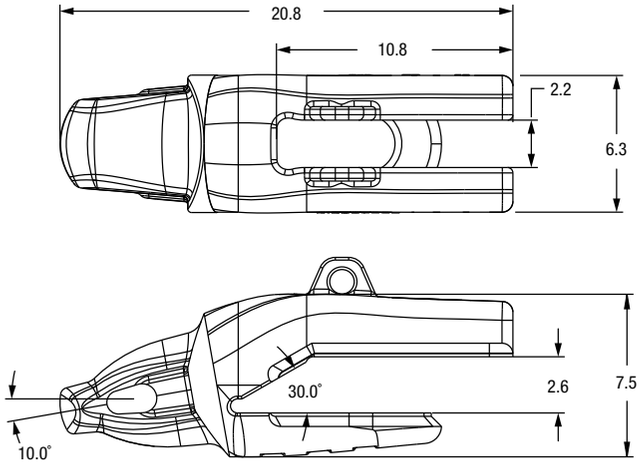


K1070M70CC50
T Corner Adapter
70mm Lip, 150.0 lb / 68.0 kg

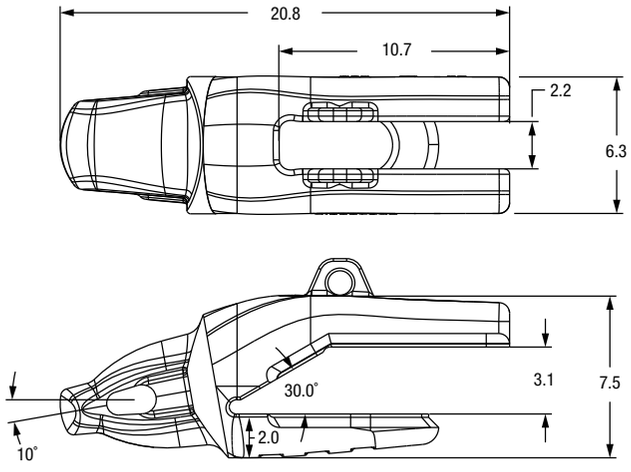


70 SERIES ADAPTERS
Exclusively for Komatsu Dealers

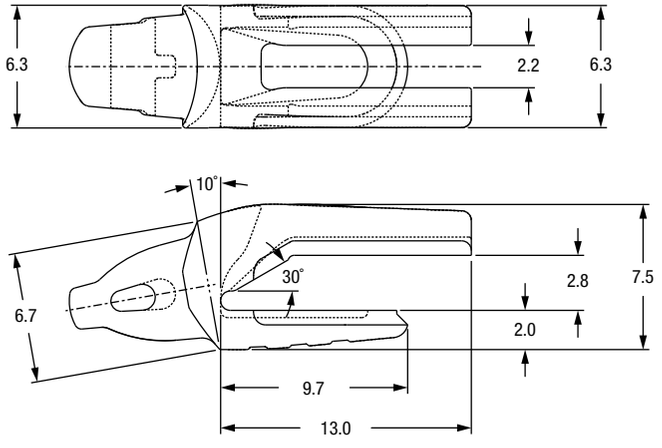
K125070SL
Straddle Leg Adapter
102.5 lb / 46.5 kg



K130070SL
Straddle Leg Adapter
3.0” Lip, 97.6 lb / 44.3 kg

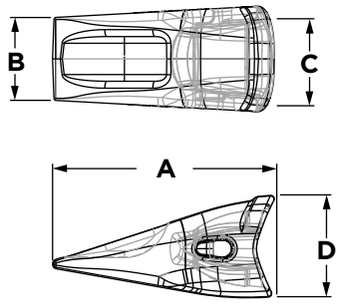


K1070M70SL
Straddle Leg Adapter
70mm Lip, 94.0 lb / 42.7 kg

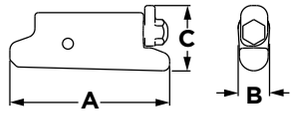


Note: Measurements are in inches.

85 SERIES TEETH & PIN ASSEMBLY
Exclusively for Komatsu Dealers



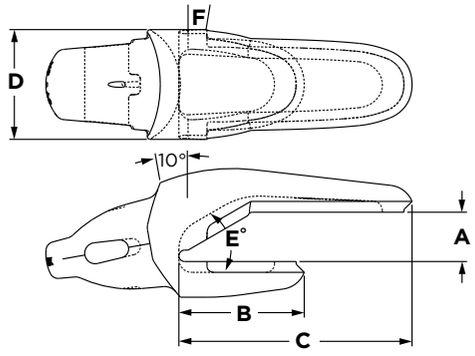
TEETH											
Kmax Series	Part Number	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
85	K85AG	KP85C	16.7	425	7.6	194	5.2	133	5.7	144	99.0	44.9
	K85HS		16.0	407	6.4	162	5.2	133	5.7	144	67.5	30.6
	K85RC		16.8	426	5.3	136	5.2	133	5.7	144	66.0	29.9
	K85RP2		17.1	435	5.6	141	5.2	133	5.7	144	93.0	42.2
	K85RP3		17.1	435	6.0	152	5.2	133	5.7	144	102.0	46.3
	K85RPX		17.1	435	5.6	142	5.2	133	5.7	144	115.0	52.2
	K85SD		15.6	396	4.25	108	5.2	133	5.7	144	55.0	24.9
	K85SYL		15.9	403	6.4	163	5.2	133	5.7	144	57.0	25.9
	K85T		17.4	441	0.8	20	5.2	133	5.7	144	47.0	21.3
	K85TV		17.4	441	5.9	149	5.2	133	5.7	144	48.4	22.0
	K85UT		17.4	441	8.5	215	5.2	133	5.7	144	55.0	24.9
	K85WT		17.4	442	8.5	215	5.2	133	5.7	144	52.5	23.8



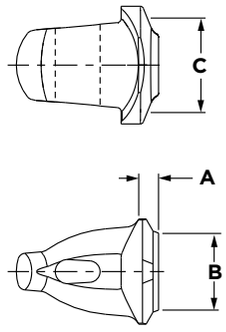
PIN ASSEMBLY										
Duty Rating	Part Number	Dimensions						Weight		Socket	
		A		B		C					
		"	mm	"	mm	"	mm	lb	kg	"	mm
Standard Duty	KP85C	7.0	177	1.3	32	2.2	57	3.2	1.5	9/16	14
Slag*	KP85S	7.0	177	1.3	32	2.2	57	3.2	1.5	9/16	14

*Not reusable

85 SERIES ADAPTERS & NOSES
Exclusively for Komatsu Dealers



Type 1



Weld-on Nose

ADAPTERS

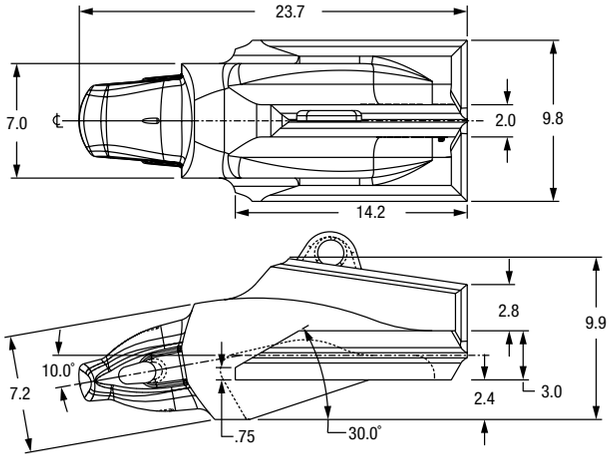
Kmax Series	Part Number	Type	Dimensions											Weight	
			A		B		C		D		E Bevel Degree	Lip Thickness			
			"	mm	"	mm	"	mm	"	mm		"	mm	lb	kg
85	K125085	1	2.6	66	7.5	191	14.3	364	6.8	173	30˚	2.5	60	98.0	44.5
	K127585	1	2.8	72	7.5	191	14.3	365	6.8	173	30˚	2.75	70	94.0	42.6
	K127585L*	1 Spade	2.8	72	7.4	188	14.2	360	6.8	173	30˚	2.75	70	103.0	46.7
	K127585R*	1 Spade	2.8	72	7.4	188	14.2	360	6.8	173	30˚	2.75	70	103.0	46.7
	K1070M85	1	2.8	72	7.4	188	14.3	362	6.8	173	30˚	2.75	70	97.0	44.0
	K1070M85L*	1	2.8	72	7.5	191	14.25	362	6.8	173	30˚	2.75	70	103.0	46.7
	K1070M85R*	1	2.8	72	7.5	191	14.25	362	6.8	173	30˚	2.75	70	103.0	46.7
	K1080M85	1	3.2	82	7.5	191	14.2	361	7.0	177	30˚	3.0	80	99.0	44.9
	K1080M85L*	1	3.2	82	8.0	203	14.5	368	6.8	173	30˚	3.0	80	99.0	44.9
	K1080M85R*	1	3.2	82	8.0	203	14.5	368	6.8	173	30˚	3.0	80	99.0	44.9
	K130085	1	3.1	79	7.4	189	14.2	361	6.8	173	30˚	3.0	75	97.0	44.0
	K130085L*	1	3.1	79	7.5	189	14.2	361	6.8	173	30˚	3.0	75	108.0	49.0
	K130085R*	1	3.1	79	7.5	189	14.2	361	6.8	173	30˚	3.0	75	108.0	49.0
	K131085**	9	3.1	79	8.6	218	14.3	364	6.8	173	30˚	3.0	75	102.0	46.3
	K131085L**	9	3.1	79	8.6	218	14.3	364	6.8	173	30˚	3.0	75	107.0	48.5
	K131085R**	9	3.1	79	8.6	218	14.3	364	6.8	173	30˚	3.0	75	107.0	48.5
	K1090M85	1	3.6	92	7.3	186	14.1	357	6.8	173	30˚	3.5	90	99.0	44.9
	K135085	1	3.6	91	7.4	189	14.2	360	6.8	173	30˚	3.5	90	95.0	43.1
	K135085L*	1	3.6	91	7.3	187	14.2	360	6.8	173	30˚	3.5	90	95.0	43.1
	K135085R*	1	3.6	91	7.3	187	14.2	360	6.8	173	30˚	3.5	90	95.0	43.1
	K85WN	Weld-on Nose	2.3	58	7.2	182	6.8	173						42.9	19.5

* Used on Spade Lip - 12 degree angle

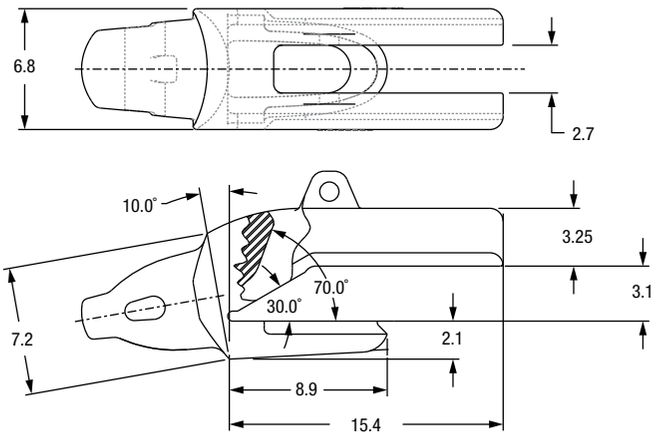
** Uses WC85HX wear cap

85 SERIES ADAPTERS
Exclusively for Komatsu Dealers

K130385CC
Corner Adapter
215.5 lb / 97.8 kg



K131085SL
Straddle Leg Adapter
3.0" Lip, 121.0 lb / 54.9 kg



Note: Measurements are in inches.

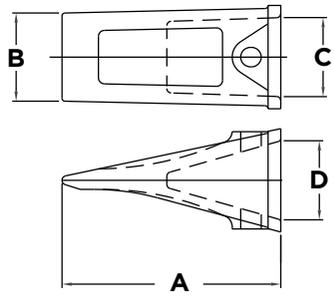
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3.1

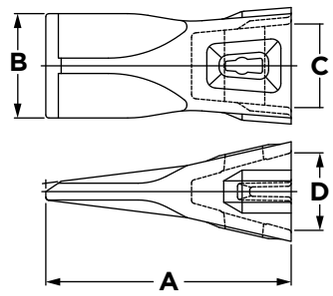
DIRECT REPLACEMENT PRODUCTS

HENSLEY DURA

STANDARD & SYL TEETH
Hensley Parabolic Style Parts

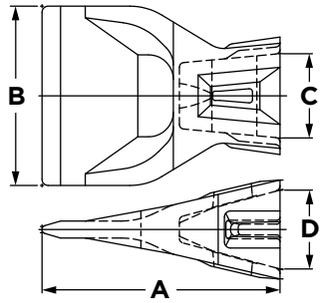


STANDARD											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
156	DX156	4.5	114	1.8	46	1.6	41	1.6	41	1.4	0.6
156	DX156H	5.5	140	2.0	51	1.6	41	1.6	41	2.6	1.1
156	DX156L	5.1	130	1.9	49	1.6	41	1.6	41	1.7	0.8
290	DX290	8.0	203	3.25	83	3.7	94	2.7	68	8.1	3.7
330	DX330	9.1	232	3.6	92	3.4	86	3.1	80	12.2	5.5



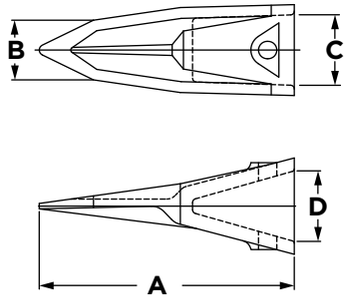
SYL											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
290	DX290SYL	8.75	222	3.7	94	3.7	94	2.7	68	8.5	3.8
330	DX330SYL	10.0	254	4.25	108	3.4	86	3.1	80	13.3	6.0
370	DX370SYL	11.25	286	4.6	117	3.6	92	3.4	86	18.2	8.3
400	DX400SYL	10.75	273	4.9	124	4.0	102	3.0	76	18.3	8.3
410	DX410SYL	12.5	317	5.1	130	4.1	103	3.75	95	26.3	11.9
450	DX450SYL	13.75	349	5.6	143	4.6	116	4.3	110	34.3	15.6

FLARE & TIGER TEETH
Hensley Parabolic Style Parts



FLARE

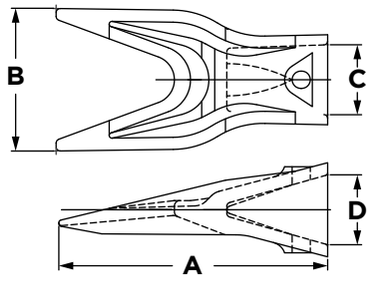
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		"	mm	"	mm	"	mm	"	mm	lb	kg
220	DX220F	7.0	178	4.5	114	2.25	57	2.1	54	7.5	3.4
290	DX290F	8.0	203	6.25	159	3.7	94	2.7	68	10.9	4.9
330	DX330F	9.6	244	7.25	184	3.4	86	3.1	80	17.8	8.1
400	DX400F	10.25	260	8.0	203	4.0	102	3.0	76	22.6	10.3
410	DX410F	11.4	289	9.0	229	4.1	103	3.75	95	34.5	15.7



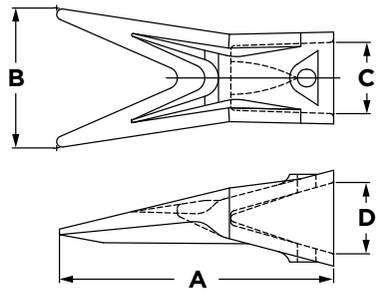
TIGER

Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		"	mm	"	mm	"	mm	"	mm	lb	kg
156	DT156	5.9	149	N/A	N/A	1.6	41	1.6	41	1.9	0.9
156	DT156L	6.25	159	N/A	N/A	1.6	41	1.6	41	1.8	0.8
220	DT220L	8.4	213	N/A	N/A	2.25	57	2.1	54	6.0	2.7
290	DT290	9.6	244	N/A	N/A	3.7	94	2.7	68	8.1	3.7
330	DT330	11.0	279	N/A	N/A	3.4	86	3.1	80	12.2	5.5
370	DT370	12.0	305	N/A	N/A	3.6	92	3.4	86	15.9	7.2
400	DT400L	12.25	311	N/A	N/A	4.0	102	3.0	76	17.4	7.9
410	DT410	13.4	340	N/A	N/A	4.1	103	3.75	95	23.5	10.7
450	DT450	15.0	381	N/A	N/A	4.6	116	4.3	110	31.3	14.2
500	DT500	16.4	416	N/A	N/A	5.0	127	4.7	119	39.4	17.9

UT TIGER & REGULAR TWIN TIGER TEETH
Hensley Parabolic Style Parts

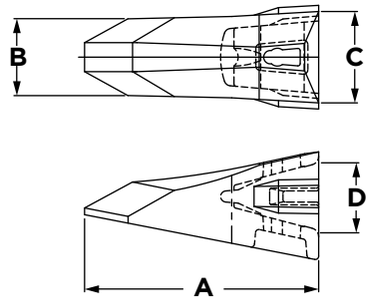


UT TIGER											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
156	DX156UT	6.25	159	3.3	84	1.6	41	1.6	41	2.5	1.1
220	DX220UT	8.4	213	4.3	109	2.25	57	2.1	54	7.5	3.4
290	DX290UT	9.6	244	4.9	124	3.7	94	2.7	68	10.1	4.6
330	DX330UT	11.0	279	5.6	141	3.4	86	3.1	80	14.4	6.5
370	DX370UT	12.0	305	6.3	160	3.6	92	3.4	86	21.5	9.8
400	DX400UT	12.25	311	6.5	165	4.0	102	3.0	76	22.0	9.9
410	DX410UT	13.4	340	7.0	178	4.1	103	3.75	95	30.3	13.7
450	DX450UT	15.0	381	7.4	189	4.6	116	4.3	110	36.6	16.6
500	DX500UT	16.4	416	8.3	211	5.0	127	4.7	119	50.0	22.7

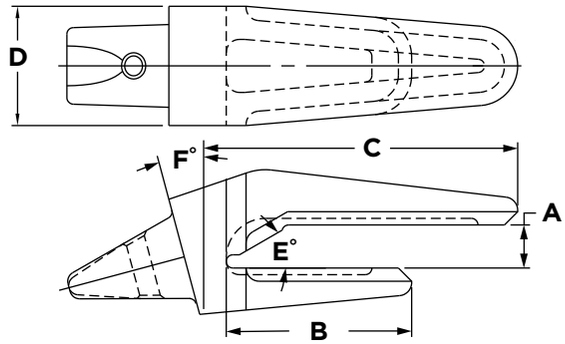


REGULAR TWIN TIGER											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
156	DX156WTL	6.25	159	3.2	81	1.6	41	1.6	41	2.1	0.9

LOADER PENETRATOR TEETH AND ADAPTERS
Hensley Parabolic Style Parts

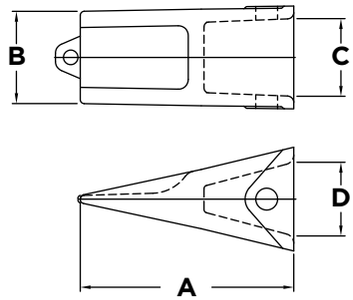


LOADER PENETRATOR											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
410	DX410RP3	13.1	333	4.3	109	4.1	103	3.75	95	42.2	19.1
450	DX450RP2	13.25	336	4.75	121	4.6	116	4.3	110	43.7	19.8
500	DX500RP3	16.1	410	5.25	133	5.0	127	4.7	119	80.0	36.3

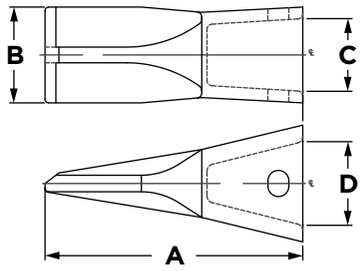


ADAPTERS															
Series	Part Number	Type	Dimensions												Weight	
			A		B		C		D		E Bevel Degree	F Nose Angle	Lip Thickness			
			″	mm	″	mm	″	mm	″	mm			″	mm	lb	kg
156	D552X156	1	0.8	21	3.5	89	5.5	140	2.25	57	30˚	15˚	0.75	21	5.4	2.4
156	D550X156	1	1.1	29	2.75	70	6.25	159	2.1	56	26˚	13˚	1.0	25	4.7	2.1
220	D109X220	1	1.3	33	5.25	133	8.25	210	3.0	76	30˚	15˚	1.25	32	15.5	7.0
290	D127X290	1	1.3	33	4.75	121	10.0	254	3.6	92	30˚	12˚	1.25	32	21.5	9.8
290	D158X290	1	1.5	39	6.4	163	9.5	241	3.6	92	30˚	12˚	1.5	38	21.5	9.8
330	D158X330	1	1.6	40	6.75	171	10.25	260	4.25	108	30˚	15˚	1.5	38	34.3	15.6
400	D802X400	1	2.1	53	6.0	152	12.2	310	5.1	130	30˚	15˚	2.0	50	50.3	22.8
410	D940X410	1	2.1	54	5.25	133	12.0	305	5.1	130	30˚	12˚	2.0	50	45.4	20.6

STANDARD & SYL TEETH
Caterpillar® Style Parts



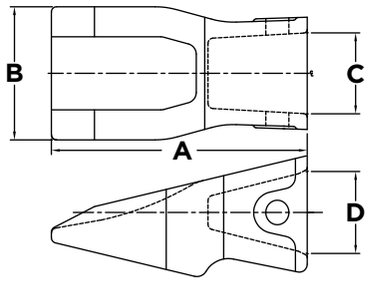
STANDARD											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
J200	D1U3202	5.75	146	2.0	51	1.6	40	1.8	47	2.8	1.3
J225	D6Y3222	6.6	168	2.25	57	1.9	49	2.3	60	4.6	2.1
J250	D1U3252	7.5	191	2.6	65	2.2	55	2.7	68	6.4	2.9
J250	D9N4252	7.9	200	2.4	61	2.2	55	2.7	68	8.4	3.8
J300	D1U3302	8.6	217	3.0	76	2.6	67	3.0	77	9.8	4.4
J300	D9N4302	8.75	222	2.75	70	2.6	67	3.0	77	12.3	5.6
J350	D1U3352	9.5	241	3.6	92	2.9	75	3.3	84	13.5	6.1
J350	D9N4352	9.9	251	3.5	89	2.9	75	3.3	84	18.0	8.2
J400	D7T3402	10.5	267	4.25	108	3.5	88	3.7	93	22.9	10.4
J400	D8E4402	11.0	279	4.0	102	3.5	88	3.7	93	24.8	11.3
J460	D9W8452	11.4	289	4.5	114	3.9	98	3.9	99	25.5	11.6
J460	D9N4452	12.5	317	4.5	114	3.9	98	3.9	99	37.6	17.1
J550	D9W8552	13.2	335	5.6	143	4.7	119	4.3	110	37.9	17.2
J550	D9N4552	13.75	394	5.75	146	4.7	119	4.3	110	61.0	27.7
J600	D6I6602	15.0	381	6.5	165	5.6	143	5.2	133	72.0	32.7
J700	D4T4702	16.5	419	7.1	181	6.0	152	5.7	144	95.0	43.1



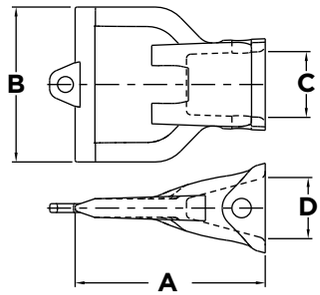
SYL											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
J300	D1U3302SYL	9.25	235	3.4	87	2.6	67	3.0	77	11.8	5.4
J350	D1U3352SYL	10.5	267	4.0	102	2.9	75	3.3	84	16.1	7.3
J400	D7T3402SYL	11.75	298	4.7	119	3.5	88	3.7	93	30.1	13.7
J460	D9W8452SYL	12.75	324	5.1	384	3.9	98	3.9	99	31.9	14.5
J550	D9W8552SYL	14.5	368	6.0	152	4.7	119	4.3	110	47.3	21.5

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ABRASION & HEAVY FLARE TEETH
Caterpillar® Style Parts



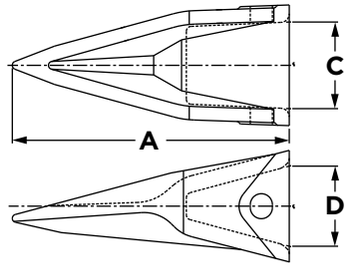
ABRASION											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
J200	D4T2203	5.75	146	2.4	60	1.6	40	1.8	47	2.9	1.3
J460	D9N4453	12.25	311	6.4	162	3.9	98	3.9	99	48.8	22.1
J550	D6Y2553	14.0	356	7.5	191	4.7	119	4.3	110	63.8	28.9
J700	D4T4703	16.4	416	9.4	238	6.0	152	5.7	144	104	47.2



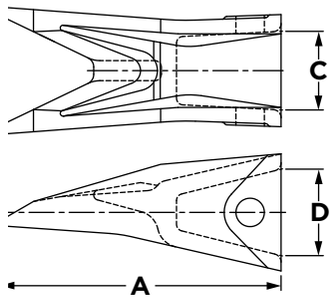
HEAVY FLARE											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
J200	D1U3202FH	5.75	146	3.75	95	1.6	40	1.8	47	3.6	1.6
J220	D6Y3222FH	6.75	171	4.5	114	1.9	49	2.3	60	6.0	2.7
J250	D3G8250FH	7.9	200	5.0	127	2.2	55	2.7	68	9.5	4.3
J300	D4T1300FH	8.75	222	6.0	152	2.6	67	3.0	77	14.3	6.5
J350	D8J3350FH	9.75	248	7.0	178	2.9	75	3.3	84	20.0	9.1
J400	D7T3402FH	11.0	279	8.25	209	3.5	88	3.7	93	21.0	9.5
J460	D8J1450FH	11.75	298	9.0	229	3.9	98	3.9	99	36.5	16.6
J550	D7J9550FH	13.5	343	11.0	279	4.7	119	4.3	110	58.0	26.3

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TIGER & REGULAR TWIN TIGER TEETH
Caterpillar® Style Parts



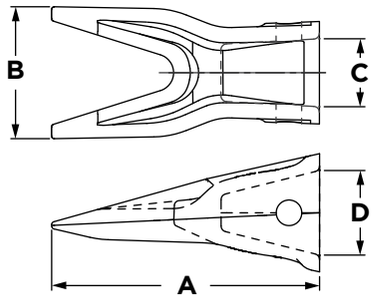
TIGER											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		"	mm	"	mm	"	mm	"	mm	lb	kg
J200	DT1U3202	6.5	165	N/A	N/A	1.6	40	1.8	47	2.4	1.1
J225	DT6Y3222L	7.9	200	N/A	N/A	1.9	49	2.3	60	4.7	2.1
J250	DT6Y3222L	8.5	216	N/A	N/A	2.2	55	2.7	68	5.7	2.6
J250	DT1U3252	8.0	203	N/A	N/A	2.2	55	2.7	68	6.2	2.8
J300	DT1U3302L	9.5	241	N/A	N/A	2.6	67	3.0	77	9.3	4.2
J350	DT1U3352L	11.25	286	N/A	N/A	2.9	75	3.3	84	13.2	6.0
J400	DT7T3402	12.5	318	N/A	N/A	3.5	88	3.7	93	21.2	9.6
J460	DT1U3452L	14.1	357	N/A	N/A	3.9	98	3.9	99	28.7	13.0
J550	DT1U3552L	15.0	381	N/A	N/A	4.7	119	4.3	110	35.9	16.3
J600	DT6I6602	18.0	457	N/A	N/A	5.6	143	5.2	133	68.0	30.8



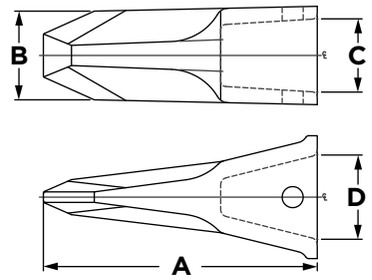
REGULAR TWIN TIGER											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		"	mm	"	mm	"	mm	"	mm	lb	kg
J200	D1U3202WT	6.5	165	3.0	76	1.6	40	1.8	47	3.0	1.4
J250	D1U3252WT	8.0	203	3.5	89	2.2	55	2.7	68	7.5	3.4
J300	D1U3302WTL	9.5	241	4.2	106	2.6	67	3.0	77	10.7	4.8
J350	D1U3352WTL	10.5	267	4.75	121	2.9	75	3.3	84	15.7	7.1
J350	D1U3352WTL	11.25	286	4.75	121	2.9	75	3.3	84	14.2	6.4
J400	D7T3402WT	12.5	318	5.6	141	3.5	88	3.7	93	23.8	10.8
J460	D1U3452WTL	14.1	357	6.2	158	3.9	98	3.9	99	31.7	14.4
J550	D1U3552WTL	15.0	381	7.25	184	4.7	119	4.3	110	40.1	18.2

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UT TWIN TIGER AND ROCK CHISEL TEETH
Caterpillar® Style Parts



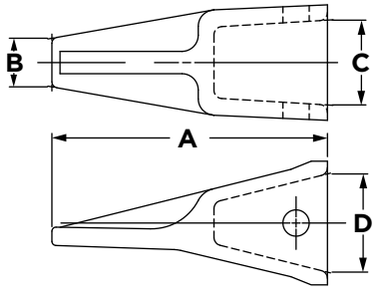
UT TWIN TIGER											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		"	mm	"	mm	"	mm	"	mm	lb	kg
J225	D6Y3222UT	7.9	200	3.7	94	1.9	49	2.3	60	5.7	2.6
J250	D1U3252UT	8.5	216	4.2	106	2.2	55	2.7	68	8.5	3.8
J300	D1U3302UT	10.1	257	4.75	121	2.6	67	3.0	77	12.0	5.4
J350	D1U3352UT	11.25	286	5.6	141	2.9	75	3.3	84	16.8	7.6
J400	D7T3402UT	12.5	317	6.1	156	3.5	88	3.7	93	23.0	10.4
J460	D1U3452UT	14.1	357	6.9	175	3.9	98	3.9	99	32.5	14.7
J550	D1U3552UT	15.0	381	8.25	209	4.7	119	4.3	110	50.0	22.7
J600	D6I6602UT	18.0	457	9.9	251	5.6	143	5.2	133	85.0	38.6



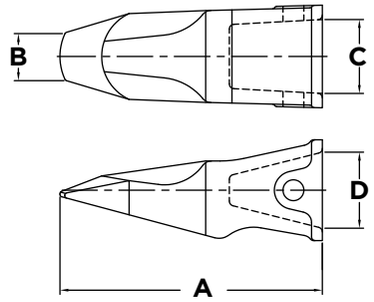
ROCK CHISEL											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		"	mm	"	mm	"	mm	"	mm	lb	kg
J300	D1U3302RC	9.75	248	2.9	73	2.6	67	3.0	77	11.9	5.4
J350	D1U3352RC	11.0	279	3.6	92	2.9	75	3.3	84	20.6	9.3
J400	D7T3402RC	12.1	308	3.9	98	3.5	88	3.7	93	26.4	12.0
J460	D1U3452RC	13.0	330	4.25	108	3.9	98	3.9	99	31.2	14.2
J550	D1U3552RC	15.0	381	5.1	130	4.7	119	4.3	110	55.9	25.4
J600	D6I6602RC	17.4	443	6.9	176	5.6	143	5.2	133	83.0	37.7
J700	D4T4702RC	19.0	483	7.5	190	6.0	152	5.7	144	110.0	49.9

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PENETRATOR & LOADER PENETRATOR TEETH
Caterpillar® Style Parts



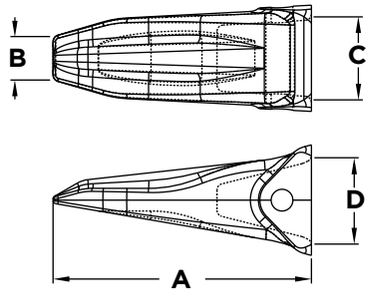
PENETRATOR											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		"	mm	"	mm	"	mm	"	mm	lb	kg
J300	D9J4309T	8.5	216	1.5	38	2.6	67	3.0	77	8.6	3.9
J350	D9J4359T	9.9	251	8.0	51	2.9	75	3.3	84	12.3	5.6
J460	D9W8459	11.6	295	8.0	51	3.9	98	3.9	99	22.0	10.0



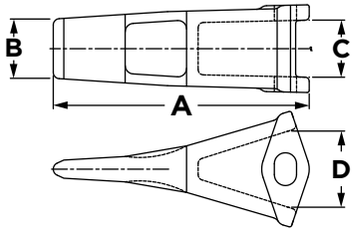
LOADER PENETRATOR											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		"	mm	"	mm	"	mm	"	mm	lb	kg
J250	D1U3252PT2	9.5	241	1.5	37	2.2	55	2.7	68	11.8	5.3
J300	D1U3302PT2	10.3	261	1.8	46	2.6	67	3.0	77	16.2	7.3
J350	D1U3352PT2	11.8	300	2.0	52	2.9	75	3.3	84	24.2	11.0
J400	D7T3402PT2	13.2	334	2.4	60	3.5	88	3.7	93	31.5	14.3
J460	D9W8452PT2	14.0	356	2.6	66	3.9	98	3.9	99	41.2	18.7
J550	D9W8552PT2	15.2	386	2.8	72	4.7	119	4.3	110	58.0	26.3
J600	D1359600	17.6	447	6.7	170	5.6	143	5.2	133	119.0	54.0
J600	D6I6602PT2	17.75	451	3.7	94	5.6	143	5.2	133	99.0	44.9
J700	D4T4703PT2	19.5	495	3.6	90	6.0	152	5.7	144	134.2	60.9
J700	D4T4703PT3	20.0	508	3.6	90	6.0	152	5.7	144	150.0	68.1

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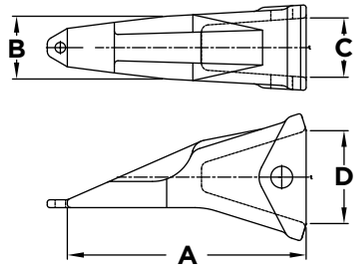
PENETRATOR & RIPPER TEETH
Caterpillar® Style Parts



HEAVY EXCAVATOR PENETRATOR											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
J225	D6Y3222HP	7.6	194	1.2	30	1.9	49	2.3	60	5.4	2.4
J250	D1U3252HP	8.5	216	1.3	33	2.2	55	2.7	68	7.4	3.4
J300	D1U3302HP	9.75	248	1.5	38	2.6	67	3.0	77	10.8	4.9
J350	D1U3352HP	11.0	279	1.75	44	2.9	75	3.3	84	15.7	7.1
J400	D7T3402HP	12.1	308	1.9	49	3.5	88	3.7	93	21.0	9.5
J460	D1U3452HP	13.0	330	2.2	56	3.9	98	3.9	99	28.0	12.7
J550	D1U3552HP	15.0	381	2.75	70	4.7	119	4.3	110	46.0	20.9
J600	D6I6602HP	18.0	457	3.3	84	5.6	143	5.2	133	81.0	36.8
J700	D4T4702HP	19.6	498	3.4	87	6.0	152	5.7	144	100.0	45.0



Type 1
(Centerline)

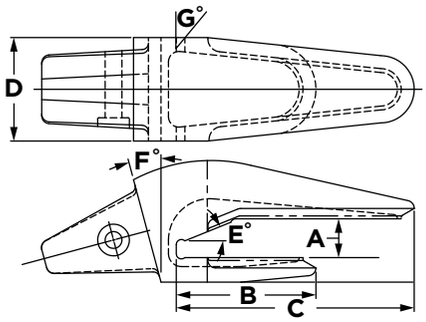


Type 2
(Non-Centerline)

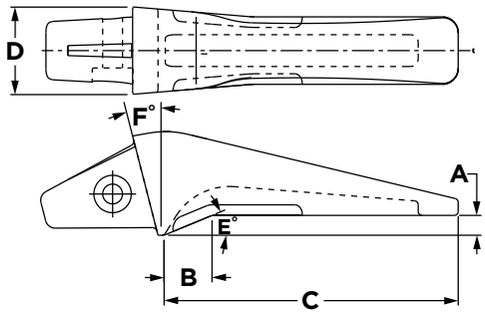
RIPPER TEETH FOR DOZERS AND LOADERS												
Series	Part No.	Type	Dimensions								Weight	
			A		B		C		D			
			″	mm	″	mm	″	mm	″	mm	lb	kg
R300	D6Y0309	2	11.4	289	1.75	44	2.25	57	3.25	83	11.4	5.2
R350	D6Y0359	2	14.0	356	2.1	52	3.1	78	4.4	113	25.1	11.4
R450	D4T5452	2	15.6	397	2.0	51	3.4	86	4.9	121	40.0	18.1
R500	D4T5502	2	17.1	435	2.75	70	4.25	108	6.5	165	61.8	28.0
R500	D4T5503	2	19.0	483	2.75	70	4.25	108	6.5	165	72.0	32.7
R450	D9W2452	1	15.1	384	3.5	89	3.4	86	4.5	114	36.0	16.3

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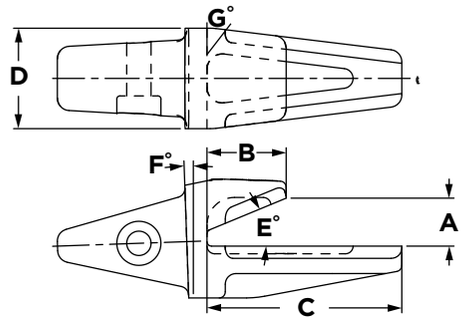
ADAPTERS FOR LOADERS & EXCAVATORS
Caterpillar® Style Parts



Type 1 (Center)



Type 2 (Flush Mount)



Type 4 (Bottom Leg)

ADAPTERS

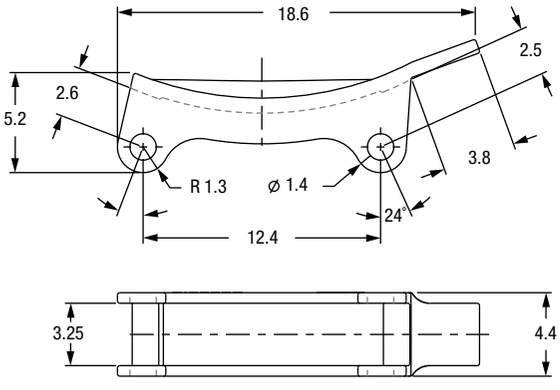
Series	Part Number	Type	Dimensions								E Bevel Degree	F Nose Angle	Lip Thickness		Weight	
			A		B		C		D							
			″	mm	″	mm	″	mm	″	mm			″	mm	lb	kg
J250	D1U1254	2	1.0	25	2.0	51	9.25	235	2.75	70	22˚	13˚	1.0	25	11.5	5.2
J300	D1U1304	2	1.1	27	2.3	59	9.4	238	3.0	76	22˚	14˚	1.0	25	17.0	7.7
J350	D1U1354	2	1.5	38	3.2	81	11.25	286	3.75	95	22˚	14˚	1.5	38	30.6	13.9
J460	D8E0464	2	2.2	56	3.75	95	12.5	318	4.9	124	23˚	13˚	1.75 - 2	45 - 51	50.5	22.9
J200	D8J7525	4	0.6	16	1.0	25	3.9	100	2.1	52	23˚	14˚	0.75	19	3.1	1.4
J200	D1193204	4	1.1	29	3.25	83	4.25	108	2.25	57	22˚	9˚	1.0	25	4.6	2.1
J225	D6Y3224	4	1.1	27	3.7	94	5.6	141	2.4	62	22˚	8˚	1.0	25	5.5	2.5
J250	D6Y3254	4	1.3	33	4.7	119	6.0	152	2.75	70	22˚	9˚	1.25	32	9.9	4.5
J300	D3G6304	4	1.3	33	4.6	116	8.0	203	3.3	84	22˚	8˚	1.25	32	15.2	6.9
J300	D8E9490	4	1.6	40	5.9	149	8.25	210	3.3	84	23˚	12˚	1.5	38	14.9	6.8
J350	D3G8354	4	1.7	43	4.75	121	8.25	210	3.5	89	35˚	8˚	1.5	38	20.5	9.3
J350	D6I6354	4	1.6	41	7.25	184	9.0	229	3.9	97	22˚	12˚	1.6	40	20.9	9.5
J400	D6I6404	4	1.8	46	7.0	178	9.0	229	4.6	117	22˚	9˚	1.75	45	29.7	13.5
J460	D8E6464	4	2.0	51	7.4	187	11.1	283	4.9	124	24˚	9˚	2.0	50	41.2	18.7
J550	D6I6554	4	2.6	65	11.0	279	13.25	337	5.5	140	22˚	9˚	2.4	60	66.0	30.0
J550	D3G9494	1	2.6	67	12.6	321	14.25	362	4.9	124	22˚	15˚	2.5	64	64.0	29.0

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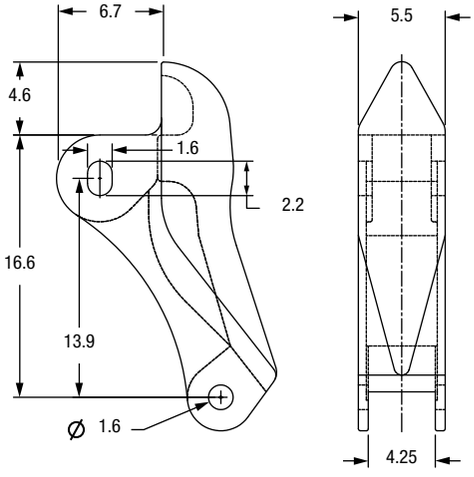
RIPPER GUARDS & ROUTER BITS
Caterpillar® Style Parts

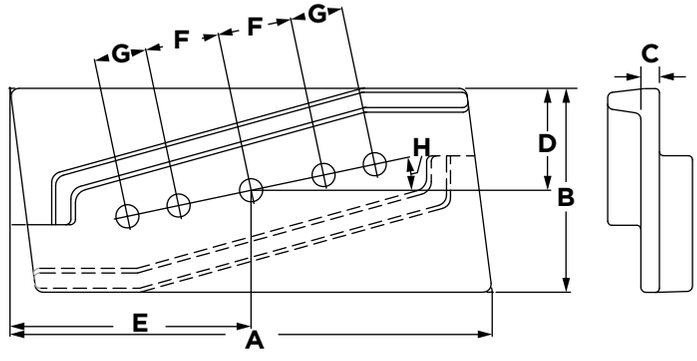
RIPPER GUARDS

D6J8814
D8, D9
31.4 lb / 14.2 kg



D9W8365
D10, D11
87.0 lb / 39.5 kg





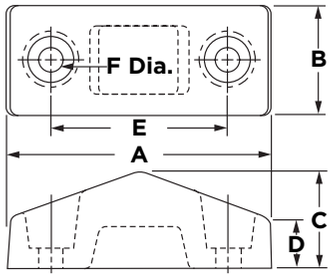
ROUTER BITS

Part No.	Dimensions														H Degree	Weight	
	A		B		C		D		E		F		G				
	″	mm	″	mm	″	mm	″	mm	″	mm	″	mm	″	mm		lb	kg
D4J8665	21.1	537	8.6	219	0.75	19	4.25	108	10.5	267	3.5	89	2.5	64	8°	52.5	23.8
D7J3023	22.75	578	9.6	244	0.9	22	4.8	122	11.4	289	3.5	89	2.5	64	12°	78.3	35.5

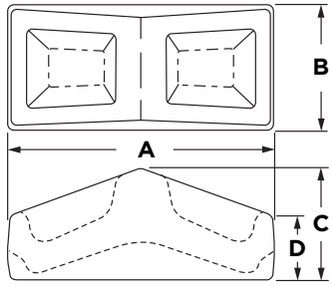
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Note: Measurements are in inches.

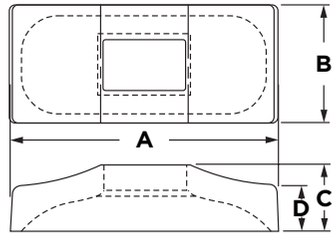
COMPACTOR FEET & SCARIFIER PARTS
Caterpillar® Style Parts



Type 1



Type 3



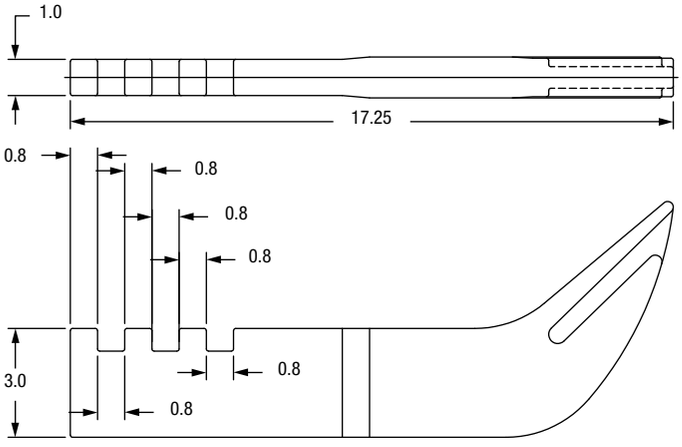
Type 4

COMPACTOR FEET

Part No.	Type	Dimensions												Weight	
		A		B		C		D		E		F			
		″	mm	″	mm	″	mm	″	mm	″	mm	″	mm	lb	kg
D8K9189	1	6.7	170	2.75	70	2.5	64	1.3	33	4.5	114	0.7	17	8.2	3.7
D2V7053	3	6.6	168	3.2	81	2.8	71	1.6	41	N/A	N/A	N/A	N/A	8.0	3.6
D8K9171	1	9.1	230	3.1	78	3.2	81	1.6	40	5.75	146	0.9	24	13.6	6.2
D2V6628	3	9.0	229	3.6	92	3.5	89	2.0	51	N/A	N/A	N/A	N/A	16.5	7.5
D4V0668	4	8.4	214	3.4	87	3.5	89	1.9	49	N/A	N/A	N/A	N/A	16.2	7.3
D4V3851	4	6.7	170	3.2	81	2.8	71	1.6	41	N/A	N/A	N/A	N/A	10.0	4.5

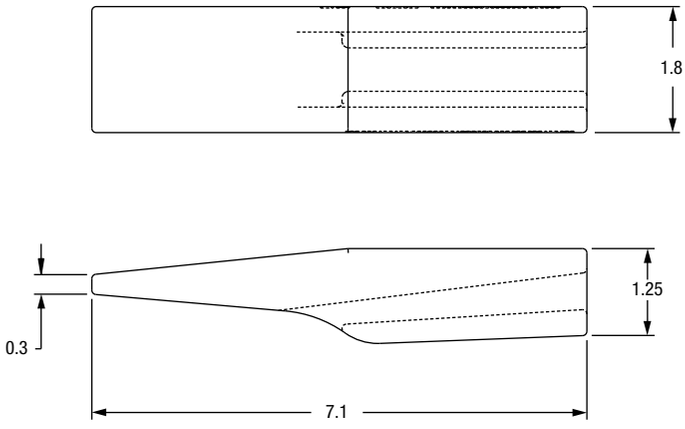
M/G SCARIFIER SHANK

D9F5124
11.5 lb / 5.2 kg



H.D. SCARIFIER TOOTH

D2D5572
3.0 lb / 1.4 kg



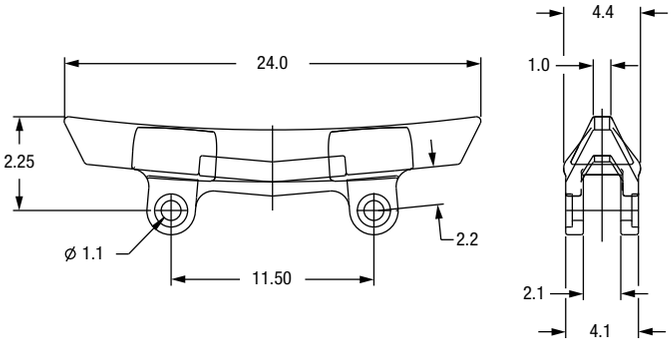
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Note: Measurements are in inches.

VERTICAL PROTECTOR & CLEANER BAR PARTS
Caterpillar® Style Parts

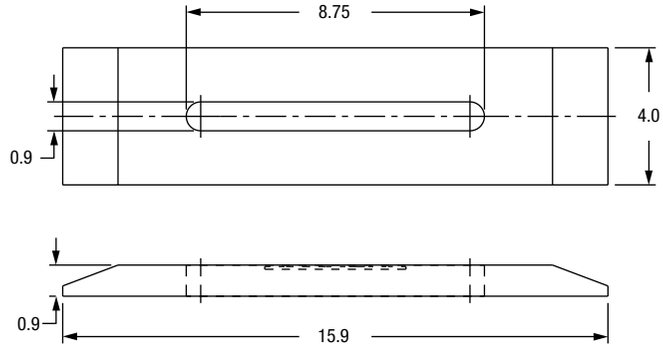
VERTICAL PROTECTOR

D1U0740
49.5 lb / 22.5 kg



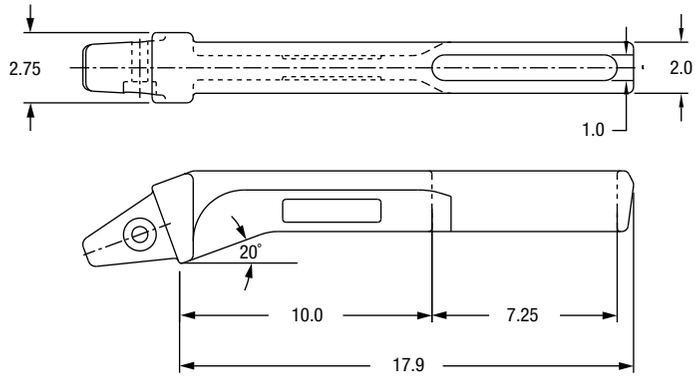
CLEANER BAR

D4S7928
12.4 lb / 5.6 kg



CLEANER BAR SHANK

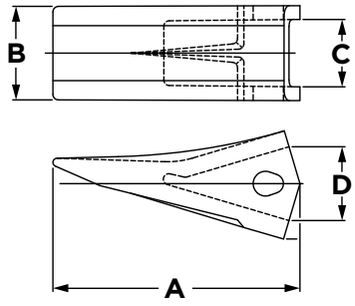
D5V4311
19.8 lb / 8.9 kg



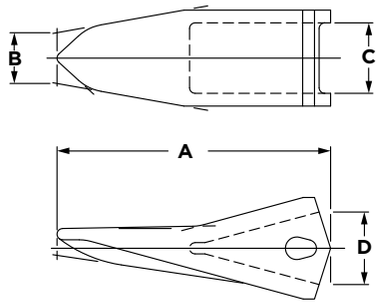
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Note: Measurements are in inches.

STANDARD & STAR TEETH
H&L Style Parts

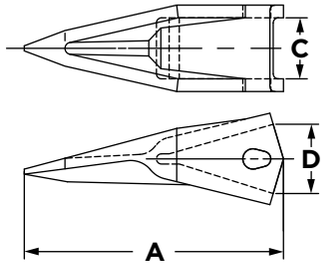


STANDARD										
Part No.	Dimensions								Weight	
	A		B		C		D			
	″	mm	″	mm	″	mm	″	mm	lb	kg
D230	6.1	156	2.1	54	1.6	40	1.7	43	2.7	1.2
D23HXL	5.6	143	2.1	54	1.6	40	1.7	43	2.4	1.1
D23HXS	5.3	134	2.1	54	1.6	40	1.7	43	2.1	1.0
D24	6.75	171	2.1	54	1.6	40	2.1	54	3.6	1.6
D250S	7.3	186	2.9	73	2.1	54	2.1	54	7.3	3.3
D270S	9.0	229	3.75	95	2.9	73	2.1	54	9.2	4.2

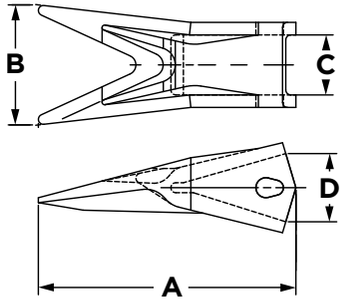


STAR										
Part No.	Dimensions								Weight	
	A		B		C		D			
	″	mm	″	mm	″	mm	″	mm	lb	kg
D23ST	6.1	163	1.25	32	1.6	40	1.7	43	2.6	1.2

TIGER & TWIN TIGER TEETH
H&L Style Parts

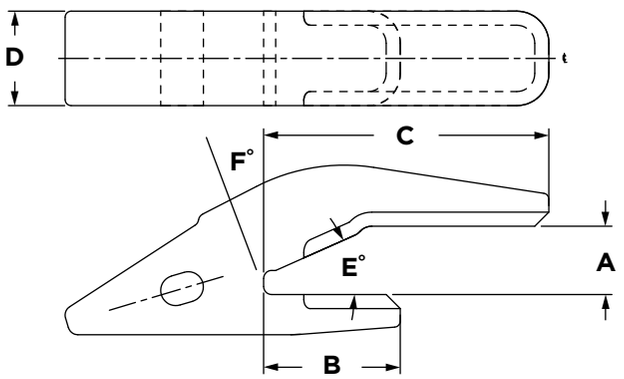


TIGER										
Part No.	Dimensions								Weight	
	A		B		C		D			
	″	mm	″	mm	″	mm	″	mm	lb	kg
DT23L	6.4	163	N/A	N/A	1.6	40	1.7	43	2.2	1.0

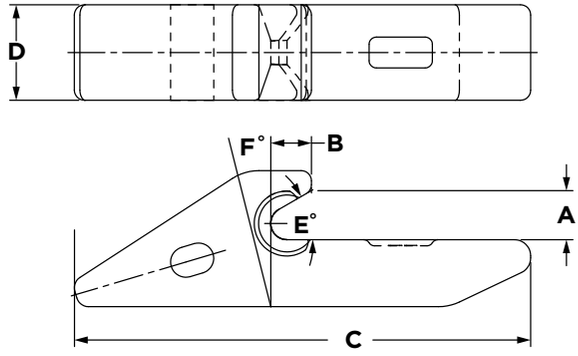


REGULAR TWIN TIGER										
Part No.	Dimensions								Weight	
	A		B		C		D			
	″	mm	″	mm	″	mm	″	mm	lb	kg
D23WTL	6.4	163	3.0	76	1.6	40	1.7	43	2.6	1.2

ADAPTERS
H&L Style Parts



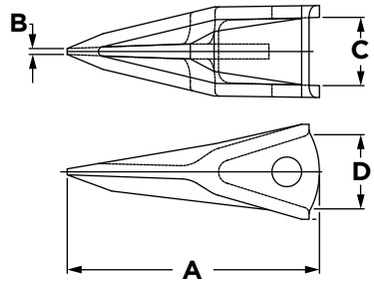
Type 1



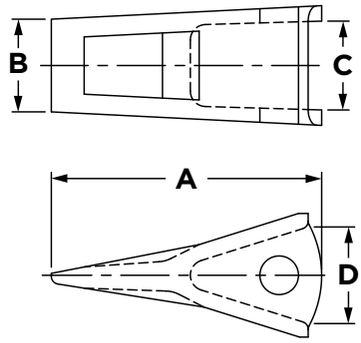
Type 4

ADAPTERS															
Part Number	Type	Dimensions												Weight	
		A		B		C		D		E Bevel Degree	F Nose Angle	Lip Thickness			
		"	mm	"	mm	"	mm	"	mm			"	mm	lb	kg
D2740MW23	1	0.8	21	2.9	73	6.1	154	1.5	3.7	24°	16°	0.75	19	4.3	1.9
D2740W23	1	1.1	28	2.1	54	4.5	114	1.5	3.7	24°	16°	1.0	25	3.5	1.6
D2740-23	1	1.1	28	2.9	73	5.4	137	1.5	3.7	24°	16°	1.0	25	4.4	2.0
D834-23	4	1.1	27	0.75	19	4.1	105	1.5	3.7	25°	16°	.6 - .75	16 - 19	2.9	1.3

TIGER & STANDARD TEETH
Komatsu Style Parts

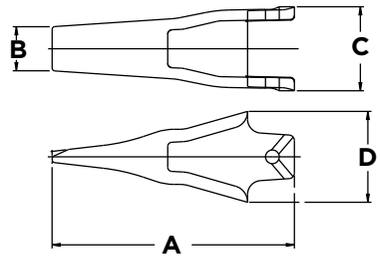


TIGER											
Model	Part No.	Dimensions								Weight	
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
PC100 PC120 PC150 PC200	D2057019570TL	10.6	270	N/A	N/A	2.9	75	3.1	79	13.2	6.0
PC220 PC280 PC300 PC360	DT2077014151	11.5	292	N/A	N/A	3.7	94	3.4	86	16.9	7.7
PC400	DT2087014152	14.0	357	N/A	N/A	4.3	110	3.6	92	27.7	12.6



STANDARD											
Series	Part No.	Dimensions								Weight	
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
PC200	D2057019570	8.75	222	3.0	51	2.9	75	3.1	79	9.7	4.4

RIPPER TEETH
Esco Style Parts



RIPPER										
Part No.	Dimensions								Weight	
	A		B		C		D			
	″	mm	″	mm	″	mm	″	mm	lb	kg
D25R112	11.0	279	2.0	51	2.6	67	2.9	76	10.5	4.8

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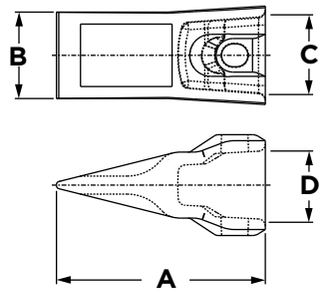
3.2

DIRECT REPLACEMENT PRODUCTS

Hensley Designed System - 5 Series

135 TEETH & FASTENERS
5 Series

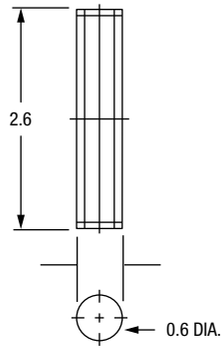
For excavators with operating weights up to 20,000 lbs
and loaders with breakout forces of up to 18,000 lbs.



TEETH												
5 Series	Part Number	Tooth Style	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			″	mm	″	mm	″	mm	″	mm	lb	kg
135	135	STD	5.4	138	2.25	57	2.0	51	1.8	45	3.1	1.4
	T135	Tiger	6.7	170	0.2	4	2.0	51	1.8	45	3.1	1.4
	135WT	Twin Tiger	6.7	170	3.3	83	2.0	51	1.8	45	3.5	1.6

FASTENERS

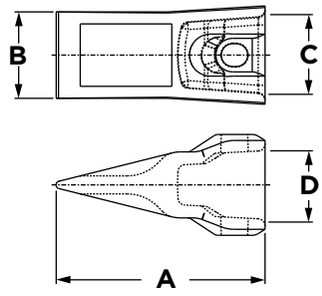
Roll Pin
P135
0.2 lb / 0.009 kg



Note: Measurements are in inches.

235 TEETH, FASTENERS & REMOVAL TOOLS
5 Series

For excavators with operating weights up to 30,000 lbs
and loaders with breakout forces of up to 28,000 lbs.

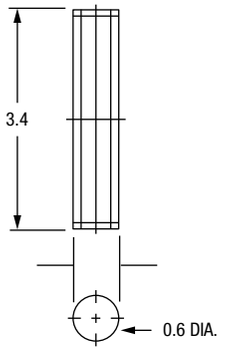


TEETH

5 Series	Part Number	Tooth Style	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
235	235	STD	7.0	178	2.9	75	2.5	64	2.2	56	6.3	2.9

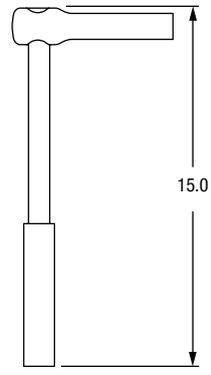
FASTENERS

Spiral Pin
P235
0.1 lb / 0.05 kg



REMOVAL TOOLS

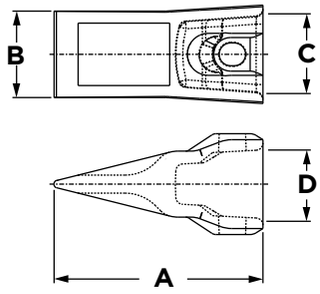
Pin Removal Tool
PRT235
3.2 lb / 1.4 kg



Note: Measurements are in inches.

295 TEETH & FASTENERS
5 Series

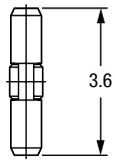
For excavators with operating weights up to 46,000 lbs
and loaders with breakout forces of up to 48,000 lbs.



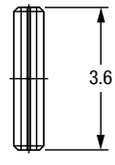
TEETH											
5 Series	Part Number	Tooth Style	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
295	295	STD	8.0	203	3.25	83	3.0	75	2.5	64	8.2	3.7
	T295	Tiger	9.6	244	0.2	5	3.0	75	2.5	64	8.7	3.9
	295WT	Twin Tiger	9.6	244	4.6	4	3.0	75	2.5	64	10.5	4.8
	295F	Flare	8.0	203	6.3	159	3.0	75	2.5	64	12.8	5.8
	295RC	RC	8.75	222	3.0	76	3.0	75	2.5	64	10.3	4.7
	295AP	Paneled	8.5	216	4.0	102	3.0	75	2.5	64	10.8	4.9
	295SYL	SYL	8.75	222	3.4	86	3.0	75	2.5	64	10.3	4.7

FASTENERS

Steel Pin w/ Snap Ring
P295
0.4 lb / 0.2 kg



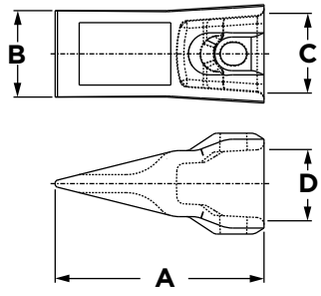
Slotted Pin
P295SL
0.3 lb / 0.1 kg



Note: Measurements are in inches.

335 TEETH, FASTENERS & REMOVAL TOOLS
5 Series

For excavators with operating weights up to 59,000 lbs
and loaders with breakout forces of up to 62,000 lbs.

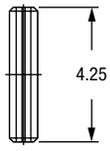


TEETH

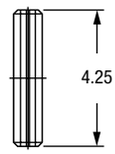
5 Series	Part Number	Tooth Style	Dimensions								Weight	
							Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
335	335	Standard	9.25	235	3.75	95	3.4	87	2.9	75	12.5	5.7
	T335	Tiger	11.0	279	0.2	6	3.4	87	2.9	75	13.2	6.0
	335WT	Twin Tiger	11.0	279	5.3	133	3.4	87	2.9	75	15.3	6.9
	335F	Flare	9.6	244	7.3	184	3.4	87	2.9	75	17.9	8.1
	335RC	RC	10.1	257	3.5	89	3.4	87	2.9	75	15.9	7.2
	335AP	Paneled	9.5	241	4.3	109	3.4	87	2.9	75	15.1	6.8
	335RP2	Loader	10.6	270	3.5	89	3.4	87	2.9	75	21.1	9.6
	335SYL	SYL	10.1	257	3.9	98	3.4	87	2.9	75	15.3	6.9

FASTENERS

Steel Pin w/ Snap Ring
P335
1.8 lb / 0.8 kg

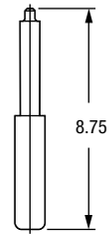


Slotted Pin
P335SL
1.2 lb / 0.5 kg



REMOVAL TOOL

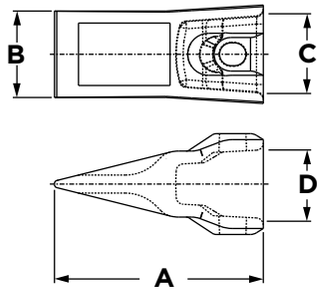
Removal Tool for
P335 & P335SL
PRT 335



Note: Measurements are in inches.

385 TEETH
5 Series

For excavators with operating weights up to 100,000 lbs
and loaders with breakout forces of up to 105,000 lbs.

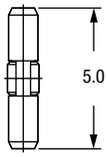


TEETH											
5 Series	Part Number	Tooth Style	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
385	385	STD	10.75	273	4.4	111	4.0	102	3.5	89	21.4	9.7
	T385	Tiger	12.6	321	0.25	6	4.0	102	3.5	89	22.1	10.0
	385WT	Twin Tiger	12.6	321	6.0	152	4.0	102	3.5	89	24.1	10.9
	385F	Flare	11.1	283	8.4	213	4.0	102	3.5	89	30.9	14.0
	385RC	RC	11.6	295	4.1	103	4.0	102	3.5	89	25.3	11.5
	385SYL	SYL	11.5	292	4.5	114	4.0	102	3.5	89	24.9	11.3
	385RP2	Loader	12.5	318	4.1	105	4.0	102	3.5	89	32.5	14.7
	385ABR	Loader/Abrasion	12.75	324	5.0	127	4.0	102	3.5	89	33.7	15.3
	385RP3	Loader	13.1	333	4.1	105	4.0	102	3.5	89	41.1	18.6

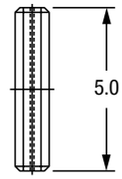
385 FASTENERS
5 Series

FASTENERS

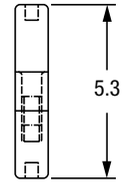
Steel Pin w/ Snap Ring
P385
1.0 lb / 0.45 kg



Slotted Pin
P385SL
0.8 lb / 0.36 kg



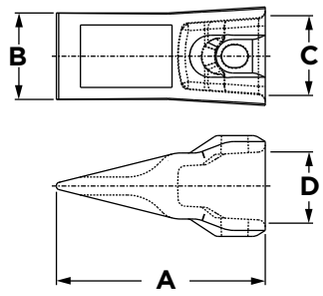
Hammerless Pin
PA385RI
1.0 lb / 0.45 kg



Note: Measurements are in inches.

435 TEETH, FASTENERS & REMOVAL TOOLS
5 Series

For excavators with operating weights up to 125,000 lbs
and loaders with breakout forces of up to 135,000 lbs.

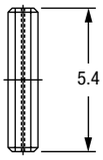


TEETH

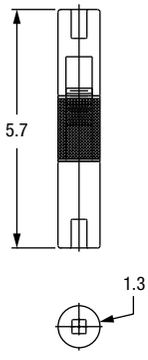
5 Series	Part Number	Tooth Style	Dimensions									
			Overall Tooth				Tooth Pocket				Weight	
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
435	435	STD	11.75	298	4.75	121	4.3	110	3.8	96	29.5	13.4
	435RC	RC	12.9	327	4.5	114	4.3	110	3.8	96	34.9	15.8
	435SYL	SYL	12.9	327	4.9	124	4.3	110	3.8	96	32.1	14.6
	435RP2	Loader	13.6	346	4.5	114	4.3	110	3.8	96	43.7	19.8
	435RP3	Loader	13.25	337	3.3	84	4.3	110	3.8	96	56.0	25.4
	T435	Tiger	14.0	356	0.3	8	4.3	110	3.8	96	29.3	13.3
	435WT	Twin Tiger	14.0	356	6.75	171	4.3	110	3.8	96	32.0	14.5

FASTENERS

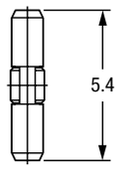
Slotted Pin
P435SL
1.2 lb / 0.5 kg



Pin
P435RI
1.5 lb / 0.7 kg

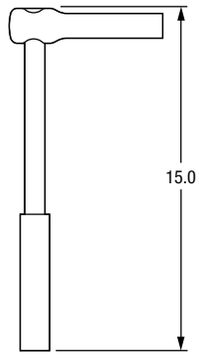


Steel Pin w/ Snap Ring
P435
1.8 lb / 0.8 kg



REMOVAL TOOLS

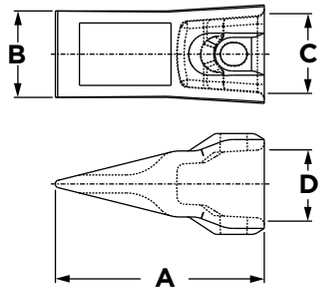
Removal Tool for
P435 & P435SL
PRT435



Note: Measurements are in inches.

485 TEETH & FASTENERS
5 Series

For excavators with operating weights up to 155,000 lbs
and loaders with breakout forces of up to 150,000 lbs.

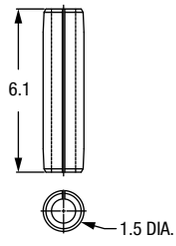


TEETH

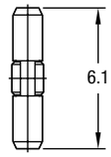
5 Series	Part Number	Tooth Style	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
485	485	STD	13.9	352	6.1	156	5.0	126	4.5	114	48.3	21.9
	T485	Tiger	15.75	400	0.4	10	5.0	126	4.5	114	48.1	21.8
	485WT	Twin Tiger	15.75	400	7.75	197	5.0	126	4.5	114	51.8	23.5
	485RP2	Loader	15.25	387	5.2	132	5.0	126	4.5	114	66.0	29.9
	485RP3	Loader	16.1	409	5.2	132	5.0	126	4.5	114	81.0	36.7

FASTENERS

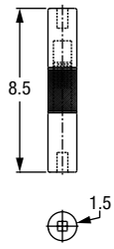
Slotted Pin
P485SL
2.0 lb / 0.9 kg



Steel Pin w/ Snap Ring
P485
3.0 lb / 1.4 kg



Pin
P485RI
2.6 lb / 1.2 kg



Note: Measurements are in inches.

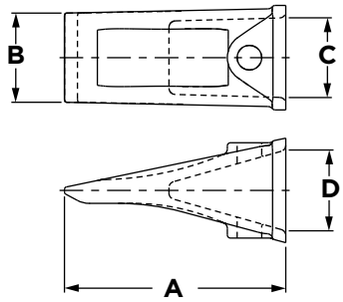
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3.2

DIRECT REPLACEMENT PRODUCTS

Hensley Designed System
- Parabolic Series

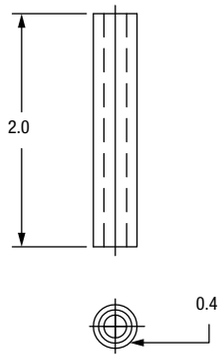
156 TEETH & FASTENERS
Parabolic Series



TEETH											
Parabolic Series	Part Number	Tooth Styles	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
156	X156	Short	4.5	114	1.8	46	1.6	41	1.6	41	1.4	0.6
	X156L	STD. Long	5.1	130	1.9	46	1.6	41	1.6	41	1.7	0.8
	T156	Tiger	5.9	146	1.4	35	1.6	41	1.6	41	1.9	0.9
	X156LP	Long	6.0	152	2.25	57	1.6	41	1.6	41	3.6	1.6
	T156HD	Tiger	6.25	159	0.9	22	1.6	41	1.6	41	2.1	1.0
	X156WT	Twin Tiger	6.0	152	3.25	83	1.6	41	1.6	41	3.5	1.6
	X156H	Heavy	5.5	140	2.0	51	1.6	41	1.6	41	2.6	1.2
	X156F	Flare	5.0	117	4.4	111	1.6	41	1.6	41	2.8	1.3
	S156	Star	6.0	152	1.1	28	1.6	41	1.6	41	2.4	1.1
	X156WTL	Twin Tiger	6.25	159	3.2	81	1.6	41	1.6	41	2.5	1.1
	S156HD	Star	6.1	154	1.1	28	1.6	41	1.6	41	2.7	1.2

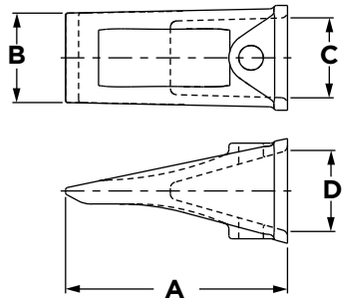
FASTENERS

Roll Pin
P156
0.1 lb / 0.05 kg



Note: Measurements are in inches.

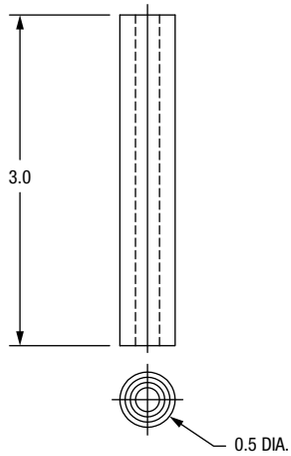
160 TEETH & FASTENERS
Parabolic Series



TEETH											
Parabolic Series	Part Number	Tooth Styles	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
160	X160	STD	6.6	168	2.3	59	1.6	41	2.4	60	3.5	1.6
	X160HD	Heavy	6.6	168	2.3	59	1.6	41	2.4	60	4.5	2.0
	T160	Tiger	8.4	213	1.9	48	1.6	41	2.4	60	4.2	1.9
	X160WT	Twin Tiger	8.0	203	3.4	87	1.6	41	2.4	60	6.8	3.1
	S160	Star	7.75	197	1.0	25	1.6	41	2.4	60	4.4	2.0
	X160F	Flare	7.75	197	4.5	114	1.6	41	2.4	60	4.8	2.2

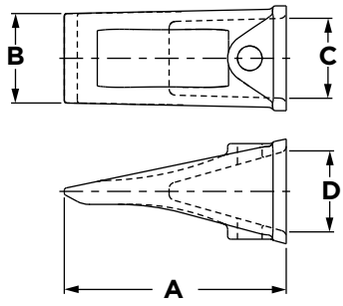
FASTENERS

Roll Pin
P160
0.1 lb / 0.05 kg



Note: Measurements are in inches.

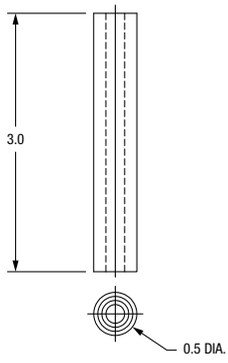
220 TEETH, FASTENERS & REMOVAL TOOLS
Parabolic Series



TEETH											
Parabolic Series	Part Number	Tooth Styles	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
220	X220	STD	7.0	178	2.9	73	2.25	57	2.1	54	6.0	2.7
	X220F	Flare	7.0	178	4.5	114	2.25	57	2.1	54	7.3	3.3
	T220	Tiger	7.9	200	-	-	2.25	57	2.1	54	6.2	2.8
	X220WT	Twin Tiger	7.9	200	4.1	105	2.25	57	2.1	54	8.6	3.9
	X220AP	Paneled	7.75	197	3.5	89	2.25	57	2.1	54	7.9	3.6
	X220ABR	Loader	8.0	203	3.4	86	2.25	57	2.1	54	10.6	4.8
	S220	Star	8.25	210	1.5	38	2.25	57	2.1	54	6.4	2.9
	T220L	Tiger	8.4	213	0.2	5	2.25	57	2.1	54	6.4	2.9
	X220WTL	Twin Tiger	8.4	213	4.1	105	2.25	57	2.1	54	7.2	3.3
	X220RC	RC	8.0	203	2.5	64	2.25	57	2.1	54	7.8	3.5
	X220SYL	SYL	8.0	203	3.0	76	2.25	57	2.1	54	6.5	2.9

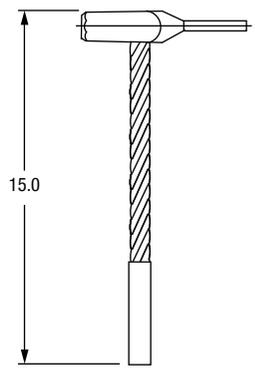
FASTENERS

Roll Pin
P160
0.1 lb / 0.05 kg



REMOVAL TOOLS

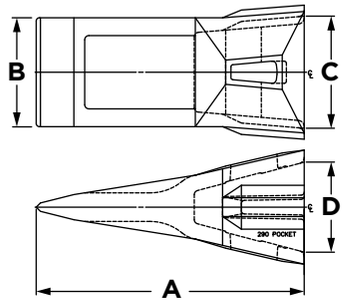
Pin Removal Tool
PRT160
3.6 lb / 1.6 kg



Note: Measurements are in inches.

290 TEETH & FASTENERS
Parabolic Series

For excavators with operating weights up to 40,000 lbs and loaders with breakout forces of up to 42,000 lbs.

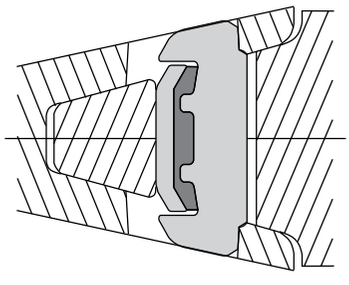


TEETH

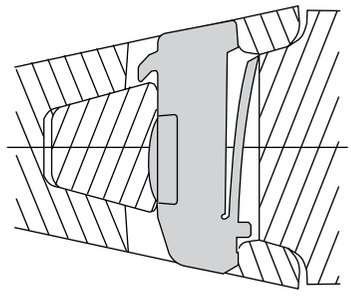
Parabolic Series	Part Number	Tooth Styles	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
290	X290	STD	8.0	203	3.25	83	3.7	94	2.7	68	8.1	3.7
	T290	Tiger	9.6	244	3.1	5	3.7	94	2.7	68	8.1	3.7
	X290F	Flare	8.0	203	6.25	159	3.7	94	2.7	68	11.6	5.3
	X290WT	Twin Tiger	9.6	244	4.6	117	3.7	94	2.7	68	9.9	4.5
	X290RC	RC	8.75	222	3.0	76	3.7	94	2.7	68	10.2	4.6
	X290AP	Paneled	8.5	216	4.0	102	3.7	94	2.7	68	9.8	4.4
	X290ABR	Loader	8.2	208	3.75	95	3.7	94	2.7	68	10.2	4.6
	X290RP2	Loader	10.5	267	3.25	83	3.7	94	2.7	68	13.2	6.0
	X290SYL	SYL	8.75	222	3.7	94	3.7	94	2.7	68	9.2	4.2

FASTENERS

Flex Pin
P290
Standard



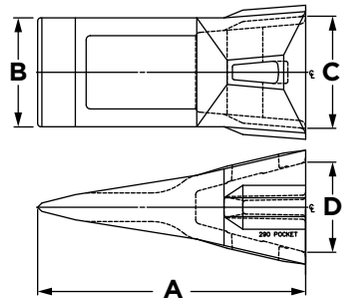
Steel Key
K290S
Optional



Note: Measurements are in inches.

330 TEETH & FASTENERS
Parabolic Series

For excavators with operating weights up to 50,000 lbs
and loaders with breakout forces of up to 51,000 lbs.

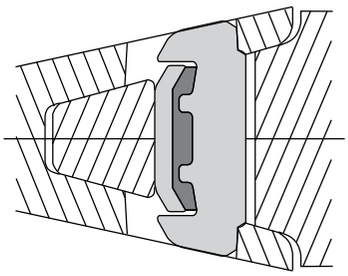


TEETH

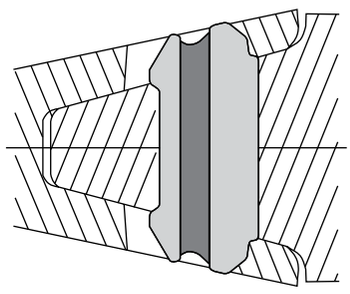
Parabolic Series	Part Number	Tooth Styles	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
330	X330	STD	9.1	232	3.6	92	3.4	86	3.1	80	12.2	5.5
	T330	Tiger	11.0	279	0.2	5	3.4	86	3.1	80	11.2	5.1
	X330AP	Paneled	9.5	241	4.5	114	3.4	86	3.1	80	15.3	6.9
	X330ABR	Loader	9.25	235	4.25	108	3.4	86	3.1	80	15.5	7.0
	X330WT	Twin Tiger	11.0	279	5.25	133	3.4	86	3.1	80	14.7	6.7
	X330F	Flare	9.6	244	7.25	184	3.4	86	3.1	80	18.1	8.2
	X330RP2	Loader	10.5	267	3.25	83	3.4	86	3.1	80	20.0	9.1
	X330RC	RC	10.0	254	3.4	87	3.4	86	3.1	80	15.2	6.9
	X330SYL	SYL	10.0	254	4.25	108	3.4	86	3.1	80	14.9	6.8

FASTENERS

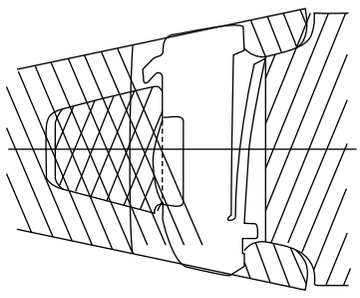
Flex Pin
P330
Standard



Flex Pin
P330STP
Optional

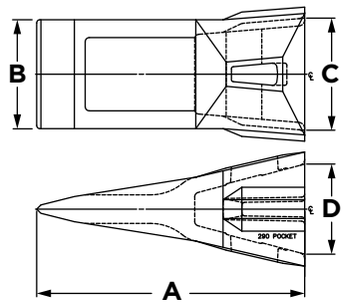


Steel Pin
K330S
Optional



370 TEETH & FASTENERS
Parabolic Series

For excavators with operating weights up to 75,000 lbs
and loaders with breakout forces of up to 77,000 lbs

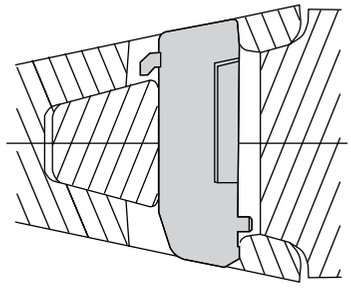


TEETH

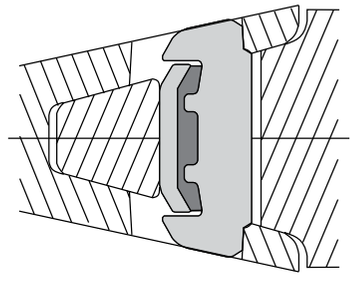
Parabolic Series	Part Number	Tooth Styles	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
370	X370	STD	10.25	260	4.1	105	3.6	92	3.4	86	17.8	8.1
	T370	Tiger	12.0	305	0.25	6	3.6	92	3.4	86	16.4	7.4
	X370WT	Twin Tiger	12.0	302	6.0	152	3.6	92	3.4	86	21.0	9.5
	X370AP	Paneled	10.9	276	5.0	127	3.6	92	3.4	86	21.4	9.7
	X370RC	RC	11.25	286	3.9	98	3.6	92	3.4	86	21.0	9.5
	X370RP3	Loader	11.9	302	3.9	98	3.6	92	3.4	86	32.5	14.7
	X370F	Flare	10.9	276	8.0	203	3.6	92	3.4	86	22.9	10.4
	X370SYL	SYL	11.25	286	4.6	117	3.6	92	3.4	86	19.4	8.8

FASTENERS

Steel Key
K370S
Standard



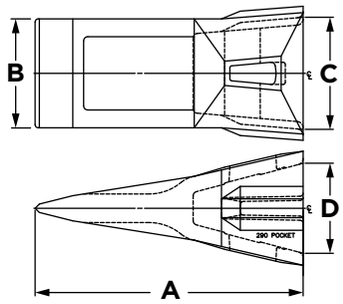
Flex Pin
P370
Optional



Note: Measurements are in inches.

410 TEETH & FASTENERS
Parabolic Series

For excavators with operating weights up to 100,000 lbs
and loaders with breakout forces of up to 105,000 lbs

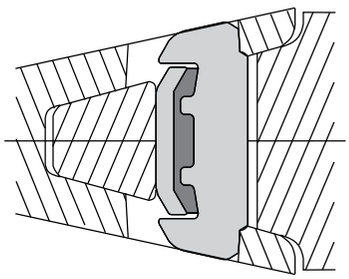


TEETH

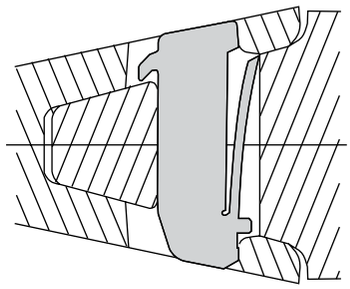
Parabolic Series	Part Number	Tooth Styles	Dimensions									
			Overall Tooth				Tooth Pocket				Weight	
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
410	X410	STD	11.4	289	4.6	116	4.1	103	3.75	95	21.7	9.8
	T410	Tiger	13.4	340	0.25	6	4.1	103	3.75	95	22.6	10.3
	X410WT	Twin Tiger	13.6	346	6.6	168	4.1	103	3.75	95	27.6	12.5
	X410AP	Paneled	12.0	305	5.5	140	4.1	103	3.75	95	28.3	12.8
	X410RC	RC	12.5	318	4.25	108	4.1	103	3.75	95	28.5	12.9
	X410RP2	Loader	12.4	314	4.3	110	4.1	103	3.75	95	34.0	15.4
	X410F	Flare	11.4	289	9.0	229	4.1	103	3.75	95	32.9	14.9
	X410RP3	Loader	12.4	314	4.3	110	4.1	103	3.75	95	43.0	19.5

FASTENERS

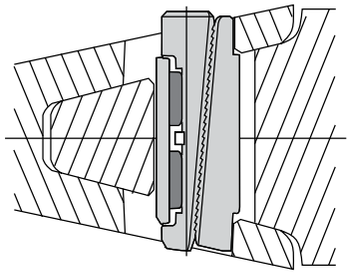
Flex Pin
P410



Steel Key
K410S

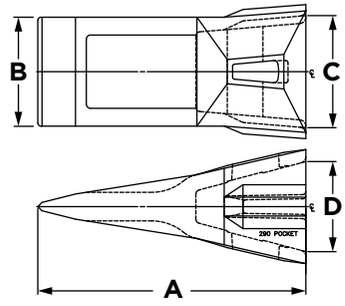


Spool & Wedge
R410SP & R410W



450 TEETH & FASTENERS
Parabolic Series

For excavators with operating weights up to 120,000 lbs
and loaders with breakout forces of up to 135,000 lbs.

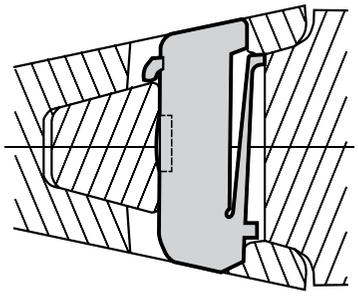


TEETH

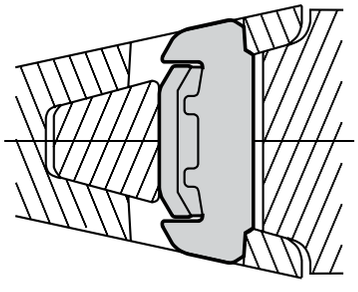
Parabolic Series	Part Number	Tooth Styles	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
450	X450	STD	12.5	318	4.9	124	4.6	116	4.3	110	30.2	13.7
	X450RP2	Loader	13.25	337	5.0	127	4.6	116	4.3	110	43.8	19.9
	X450ABR	Loader	14.4	365	5.6	143	4.6	116	4.3	110	46.5	21.1
	X450RP3	Loader	14.3	362	4.75	121	4.6	116	4.3	110	54.0	24.5
	X450RC	RC	13.75	349	12.5	318	4.6	116	4.3	110	39.7	18.0
	T450	Tiger	15.0	381	0.3	8	4.6	116	4.3	110	31.3	14.2
	X450WT	Twin Tiger	15.0	381	7.25	184	4.6	116	4.3	110	37.5	17.0
	X450F	Flare	12.5	318	10.0	254	4.6	116	4.3	110	44.8	20.3
	X450RPL2	Loader	13.75	349	4.75	121	4.6	116	4.3	110	47.6	21.6

FASTENERS

Standard Steel Pin
K450S

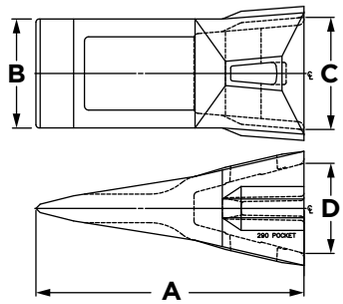


Optional Flex Pin
P450



500 TEETH & FASTENERS
Parabolic Series

For excavators with operating weights up to 155,000 lbs
and loaders with breakout forces of up to 150,000 lbs

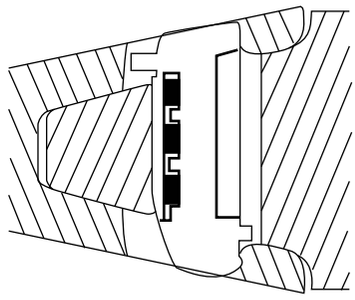


TEETH

Parabolic Series	Part Number	Tooth Styles	Dimensions									
			Overall Tooth				Tooth Pocket				Weight	
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
500	X500	STD	14.0	356	5.6	143	5.0	127	4.7	119	48.5	22.0
	T500	Tiger	16.4	416	0.4	10	5.0	127	4.7	119	42.0	19.1
	X500WT	Twin Tiger	16.4	416	8.1	206	5.0	127	4.7	119	49.6	22.5
	X500AP	Paneled	14.75	375	6.75	171	5.0	127	4.7	119	54.0	24.5
	X500RC	RC	15.5	394	5.3	135	5.0	127	4.7	119	57.0	25.9
	X500RP2	Loader	15.25	387	5.25	133	5.0	127	4.7	119	67.5	30.6
	X500RP3	Loader	16.1	410	5.25	133	5.0	127	4.7	119	80.0	36.3
	X500SD	Penetrator	14.0	356	2.5	64	5.0	127	4.7	119	41.9	19.0
	X500AGB	Loader	15.0	381	7.5	190	5.0	127	4.7	119	67.0	30.4

FASTENERS

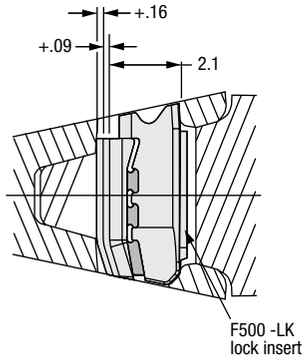
Steel Keeper Pin
K500R
2.2 lb/1.0 kg



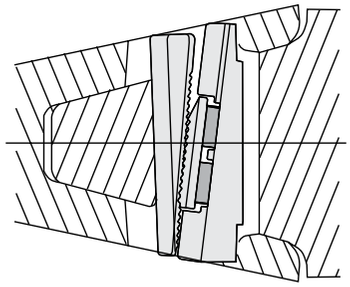
500 FASTENERS & REMOVAL TOOLS
Parabolic Series

FASTENERS

Flex Pin, Side Lock
F500 (Standard)
F500-OS10 (Optional +.1")
F500-OS15 (Optional +.15")
All pins are fitted with the F500-LK replacement lock insert.
Note: Use fit gauages F500LG and F500-OSFG to determine the correct fastener to use.

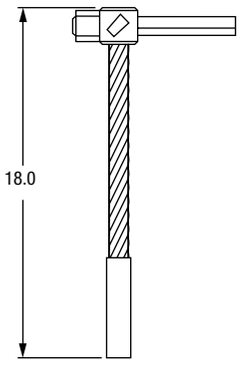


Ratchet Style Spool & Wedge
R500SP
R500W

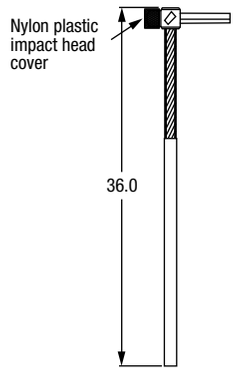


REMOVAL TOOLS

PRT500
13.0 lb / 5.9 kg



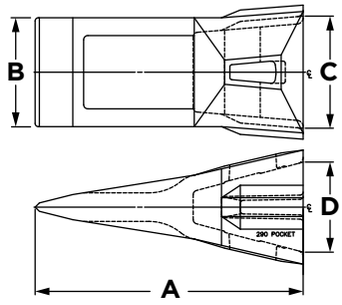
PRT500L
19.5 lb / 8.8 kg



Note: Measurements are in inches.

550 TEETH & FASTENERS
Parabolic Series

For excavators with operating weights up to 390,000 lbs
and loaders with breakout forces of up to 260,000 lbs

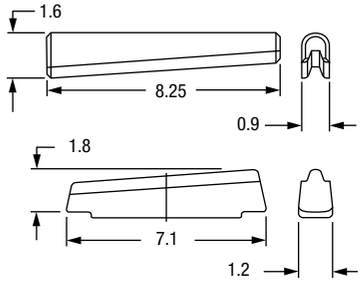


TEETH

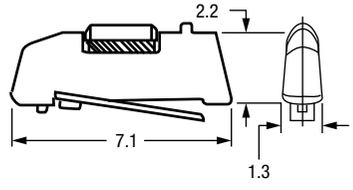
Parabolic Series	Part Number	Tooth Styles	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
550	X550RP2	Loader	19.5	495	6.0	152	5.9	149	5.6	143	123.0	55.8
	X550RL	Rock Long	16.5	419	6.75	171	5.9	149	5.6	143	78.0	35.4
	X550RC	RC	17.5	445	5.75	146	5.9	149	5.6	143	82.0	37.2
	X550RP3	Loader	20.0	508	6.1	156	5.9	149	5.6	143	140.0	63.5
	T550	Tiger	20.0	508	0.5	13	5.9	149	5.6	143	83.0	37.6
	X550WT	Twin Tiger	20.0	508	9.5	241	5.9	149	5.6	143	93.0	42.2
	X550SYL	SYL	18.25	464	7.0	178	5.9	149	5.6	143	91.0	41.3
	X550AGB	Loader	18.25	464	8.9	225	5.9	149	5.6	143	111.0	50.3

FASTENERS

Spool & Wedge
550SP
2.7 lb / 1.2 kg
550W
2.2 lb / 1.0 kg



Steel Keeper Pin w/ Rubber
K550R
3.7 lb / 1.7 kg



Note: Measurements are in inches.

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3.3

DIRECT REPLACEMENT PRODUCTS

Caterpillar Style - Construction

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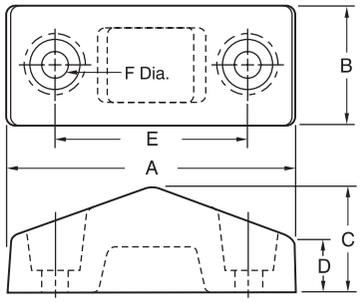
REPLACEMENT COMPACTOR PARTS
Caterpillar Style

COMPACTOR FEET BY MODEL						
Model	**Tamping Foot**		**Rock Tamping Foot**		**Base***	**Pin**
	Part No.	**Style**	**Part No.**	**Style**		
815	8K9189HX	Bolt-On	4V3851HX	Weld-On	***7K6957***	
815	8K9189WHX	Weld-On				
815B	2V7053HX	Weld-On	4V3851HX		***7K6957***	
824B	7K2939HX	Pin-On	7K2939HX	Pin-On	***9S1645***	7K9535P
825B	7K2939HX	Pin-On			***9S1645***	7K9535P
825C	8K9171HX	Bolt-On	4V0668HX	Weld-On	***7K7071***	
834	7K2939HX	Pin-On	7K2939HX	Pin-On	***9S1645***	7K9535P
835	7K2939HX	Pin-On	7K2939HX	Pin-On	***9S1645***	7K9535P
835	8K9171HX	Bolt-On			***7K6015***	

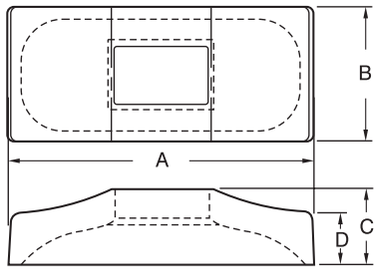
*Part numbers shown in bold italics are for reference only and are not available from Hensley Industries.

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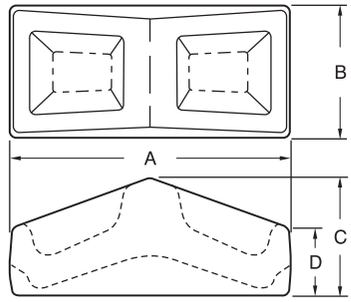
REPLACEMENT COMPACTOR PARTS
Caterpillar Style



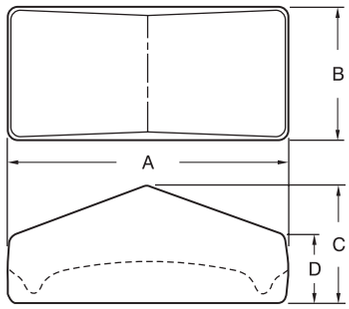
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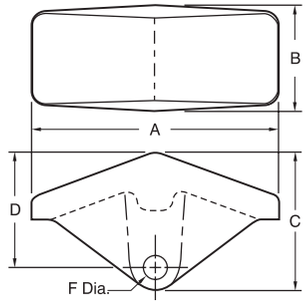
Type 2



Type 3



Type 4

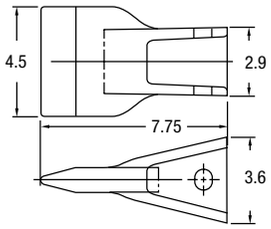


Type 5

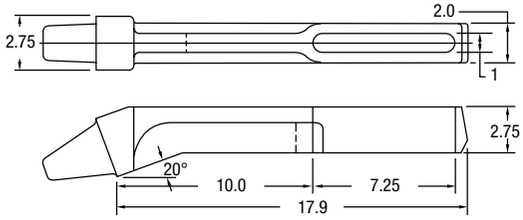
COMPACTOR FEET BY PART NUMBER														
Part No.	Type	Dimensions												Weight
		A		B		C		D		E		F		
		″	mm	″	mm	″	mm	″	mm	″	mm	″	mm	lb	kg
8K9171HX	1	9.1	230	3.1	78	3.2	81	1.6	40	5.75	146	0.9	24	13.6	6.2
8K9189HX	1	6.7	170	2.75	70	2.5	64	1.3	33	4.5	114	0.7	17	8.2	3.7
8K9189WHX	2	7.1	181	3.1	80	1.75	44	1.2	30	—	—	—	—	5.3	2.4
2V7053HX	3	6.6	168	3.2	81	2.8	71	1.6	41	—	—	—	—	8.0	3.6
4V0668HX	4	8.4	214	3.4	87	3.5	89	1.9	49	—	—	—	—	16.2	7.3
4V3851HX	4	6.7	170	3.2	81	2.8	71	1.6	41	—	—	—	—	10.0	4.5
7K2939HX	5	8.9	226	3.75	95	4.9	124	4.1	103	—	—	0.8	19	13.8	6.3

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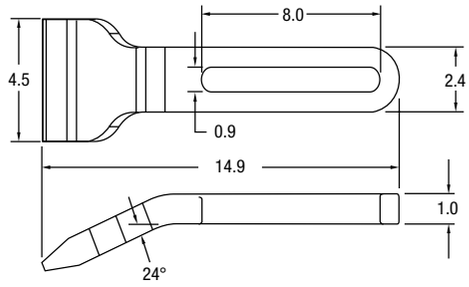
REPLACEMENT COMPACTOR PARTS
Caterpillar Style



3G8250HX



5V4311HX



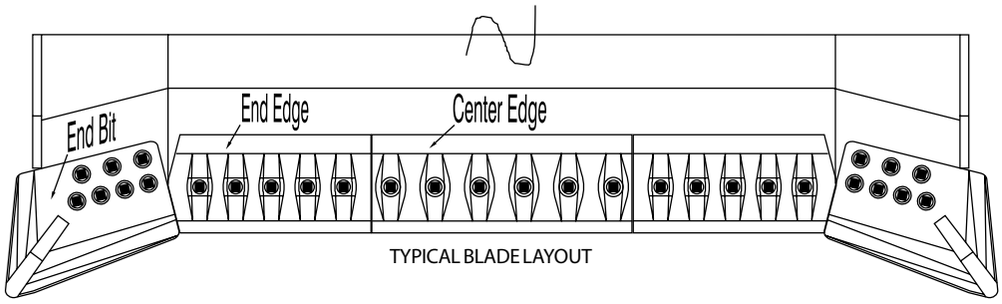
1417407HX

CLEANER BARS				
Part No.	**Type**	**lb**	**kg**	**Notes**
3G8250HX	Cleaner Bar Tooth	9.2	4.2	Compactor wheel cleaner bar for Caterpiller® model 815B requires (2) 7/8" x 10" grade 8 hex head cap screws. Utilizes 3G8250HX flare tooth, 9J2258P pin & 3G9609W washer.
5V4311HX	Cleaner Bar	21.1	9.6	
1417407HX	Clean-out Bar	9.7	4.4	Compactor wheel clean-out bar for Caterpillar® model 815B and 815F.

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Note: Measurements are in inches.

HEAVY DUTY CAST EDGES & END BITS FOR DOZERS
Caterpillar Style



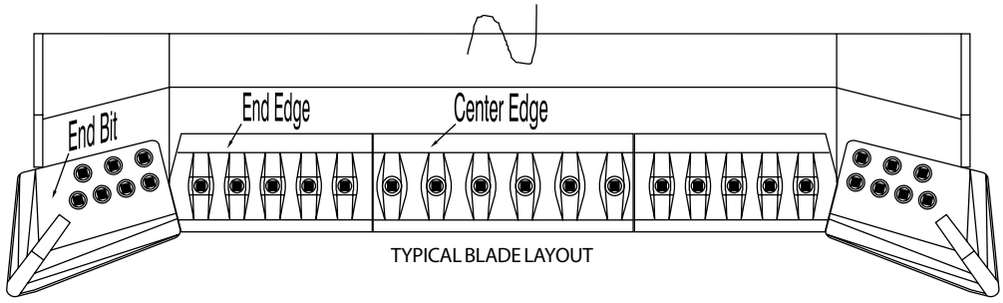
TYPICAL BLADE LAYOUT

HEAVY DUTY CAST EDGES AND END BITS FOR DOZERS					
Model	**Serial No.**	**Center Edge (#) nut/bolt assy.**	**End Edge (#) nut/bolt assy.**	**Heavy Duty Ribbed End Bit (#) nut/bolt assy.**	**Standard Duty End Bit (#) nut/bolt assy.**
D11	4BB, 4KB, 9NH, 1AD, 4CA, 5TB, 9MH, 9ZH, 4YP	LA6257HHDHX, 1 req'd. (9) A114-514	LA6258HHD-HX, 2 req'd. (9) A114-514 LA6259HHD-HX, 2 req'd. (9) A114-514	-	8E4545RH, 1 req'd. (9) A114-514 8E4546LH, 1 req'd. (9) A114-514
D10N D10R - 10U	1SH, 7WH, 4LP, 6FP	LA6226HHD-HX, 3 req'd. (5) A114-514	LA6227HHD-HX, 2 req'd. (5) A114-514	8E4541HDR, 1 req'd. (7) A114-500 8E4542HDL, 1 req'd. (7) A114-500	8E4541RH, 1 req'd. (7) A114-400 8E4542LH, 1 req'd. (7) A114-400
D10N D10R - 10SU	1RH, 7RH, 4KP, 6EP	LA6248HHD-HX, 2 req'd. (6) A114-500	LA6227HHD-HX, 2 req'd. (5) A114-514	8E4541HDR, 1 req'd. (7) A114-500 8E4542HDL, 1 req'd. (7) A114-500	-
D9N D9R - 9U	1LH, 2ZH, 1MP, 7PH	-	LA6201HHD-HX, 2 req'd. (5) A10-400	8E4539RH, 1 req'd. (7) A10-412 8E4540LH, 1 req'd. (7) A10-412	-
D9N D9R - 9SU	1MH, 5BH, 1LP, 2LP, 7NH	LA6225HHD-HX, 2 req'd. (6) A10-400	LA6201HHD-HX, 2 req'd. (5) A10-400	8E4539RH, 1 req'd. (7) A10-412 8E4540LH, 1 req'd. (7) A10-412	-
D9L - 9U	19Y1-1474 78S	-	-	8E4541HDR, 1 req'd. (7) A114-500 8E4542HDL, 1 req'd. (7) A114-500	-
D9L - 9SU	18Y1-1875 52Y, 42S	-	-	8E4541HDR, 1 req'd. (7) A114-500 8E4542HDL, 1 req'd. (7) A114-500	-
D9H - 9U	14C, 19K, 78X	-	-	7T4094RH, 1 req'd. (7) A10-412 7T4095LH, 1 req'd. (7) A10-412	-
D8N - 8U	1JH, 2WP, 6AH, 9CH	-	-	8E4537HX, 1 req'd. (7) A10-412 8E4538HX, 1 req'd. (7) A10-412	-

*Under Development

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HEAVY DUTY CAST EDGES & END BITS FOR DOZERS
Caterpillar Style



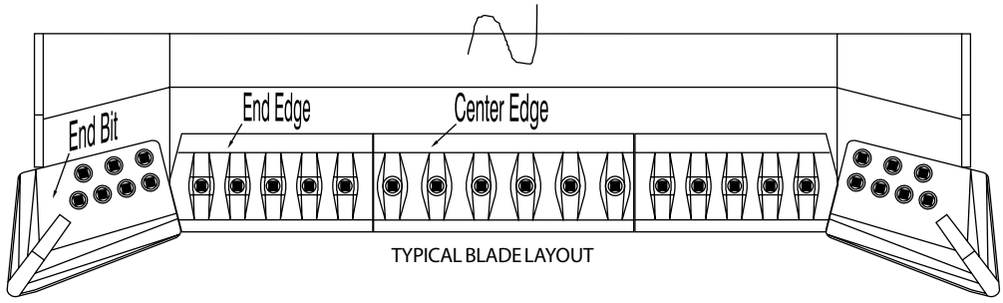
TYPICAL BLADE LAYOUT

HEAVY DUTY CAST EDGES AND END BITS FOR DOZERS CONTINUED

Model	Serial No.	Center Edge (#) nut/bolt assy.	End Edge (#) nut/bolt assy.	Heavy Duty Ribbed End Bit (#) nut/bolt assy.	Standard Duty End Bit (#) nut/bolt assy.
D8N - 8U	1JH, 2WP, 6AH, 9CH	-	-	8E4537HX, 1 req'd. (7) A10-412 8E4538HX, 1 req'd. (7) A10-412	-
D8N - 8SU	1KH, 2PP, 2TP, 3MP	-	LA6201HHD-HX, 2 req'd. (5) A10-400	8E4537HX, 1 req'd. (7) A10-412 8E4538HX, 1 req'd. (7) A10-412	-
D8L - 8SU	04Y1-1939	-	-	7T4091RH, 1 req'd. (7) A10-314 7T4090LH, 1 req'd. (7) A10-314	-
D8 - 8SU	29V, 30W, 60V	-	-	8E4193HX (RH), 1 req'd. (7) A10-314 8E4194HX(LH), 1 req'd. (7) A10-314	9J1479RH, 1 req'd. (7) A10-314 9J1480LH, 1 req'd. (7) A10-314
D8 - 8SU	78C, 29E, 94E, 69E, 14J, 44K, 47K	-	-	-	4J8849RH, 1 req'd. (7) A78-300 4J8850LH, 1 req'd. (7) A78-300
834 - U	14	-	-	3G8315HDR, 1 req'd. (7) A78-300 3G8316HDR, 1 req'd. (7) A78-300	4J8843RH, 1 req'd. (7) A78-234 4J8844LH, 1 req'd. (7) A78-234
D7 - 7SU	40B, 1JP, 8LH	-	-	9W6199HRH, 1 req'd. (7) A78-234 9W6198HLH, 1 req'd. (7) A78-234	-
D7 - 7S	23F, 31F, 59F, 60K, 14H, 49K, 64K, 53J, 6KB, 8NH	-	-	9W6199HRH, 1 req'd. (7) A78-234 9W6198HLH, 1 req'd. (7) A78-234	-

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HEAVY DUTY CAST EDGES & END BITS FOR DOZERS
Caterpillar Style



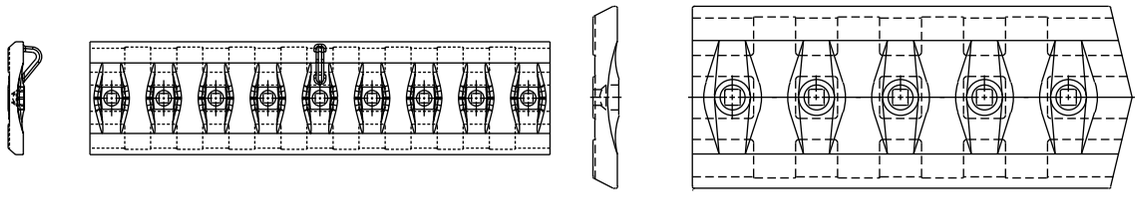
TYPICAL BLADE LAYOUT

HEAVY DUTY CAST EDGES AND END BITS FOR DOZERS CONTINUED

Model	Serial No.	Center Edge (#) nut/bolt assy.	End Edge (#) nut/bolt assy.	Heavy Duty Ribbed End Bit (#) nut/bolt assy.	Standard Duty End Bit (#) nut/bolt assy.
D7 - 7A	22F, 30F, 72F, 13F, 13H, 4EB	-	-	9W6199HRH, 1 req'd. (7) A78-234 9W6198HLH, 1 req'd. (7) A78-234	4J8843RH, 1 req'd. (7) A78-234 4J8844LH, 1 req'd. (7) A78-234
D6 - 6S	95E, 46G, 55G, 17H, 21H, 63S	-	-	-	5J1419RH, 1 req'd. (6) A34-214 5J1420LH, 1 req'd. (6) A34-214

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WEAR PROTECTION PRODUCTS FOR DOZERS
Caterpillar Style



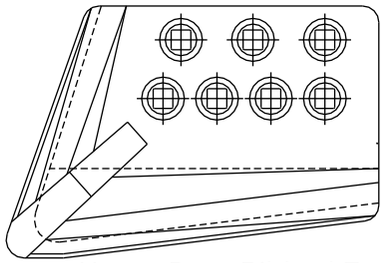
Center Edge

End Edge

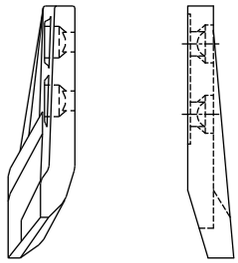
CAST EDGES			
Machine	**Serial No.**	**Center Edge (#) nut/bolt assy.**	**End Edge (#) nut/bolt assy.**
D8N-8U	1JH, 2WP, 6AH, 9CH	LA6222HHD-HX, 2 req'd. 185.0 lb / 83.9 kg (6) A10-400	LA6223HHD-HX, 2 req'd. (N/A) (5) A10-400
D8N-8SU	1KH, 2PP, 2TP, 3MP	LA6178HHD-HX, 1 req'd. (275.0 lb / 124.7 kg) (9) A10-400	LA6201HHD-HX, 2 req'd. (162.0 lb / 73.5 kg) (5) A10-400
D8L-8SU	04Y1-1939	LA6181HHD-HX, 2 req'd. (135.0 lb / 61.2 kg) (6) A10-314	LA6184HHD-HX, 2 req'd. (127.0 lb / 57.6 kg) (5) A10-314
D9N, D9R-9U	1LH, 2ZH, 1MP, 7PH	LA6224HHD-HX, 2 req'd. (218.0 lb / 98.9 kg) (8) A10-400	LA6201HHD-HX, 2 req'd. (162.0 lb / 73.5 kg) (5) A10-400
D9N, D9R-9SU	1MH, 5BH, 1LP, 2LP, 7NH	LA6225HHD-HX, 2 req'd. (190.0 lb / 86.2 kg) (6) A10-400	LA6201HHD-HX, 2 req'd. (162.0 lb / 73.5 kg) (5) A10-400
D9L-9U	19Y1-1474, 78S	LA6178HHD-HX, 2 req'd. (275.0 lb / 124.7 kg) (9) A10-400	LA6179HHD-HX, 2 req'd. (127.0 lb / 57.6 kg) (6) A10-400
D9L-9SU	18Y1-1875, 52Y, 42S	LA6110HHD-HX, 1 req'd. (215.0 lb / 97.5 kg) (7) A10-400	LA6182HHD-HX, 2 req'd. (255.0 lb / 115.7 kg) (8) A10-400
D9H-9U	14C, 19K, 78X	LA6111HHD-HX, 3 req'd. (185.0 lb / 83.9 kg) (6) A10-400	LA6112HHD-HX, 2 req'd. (115.0 lb / 52.2 kg) (4) A10-400

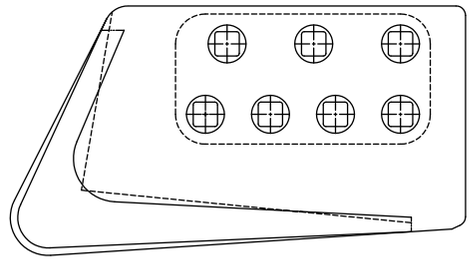
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WEAR PROTECTION PRODUCTS FOR DOZERS
Caterpillar Style



Heavy Duty Ribbed End Bit



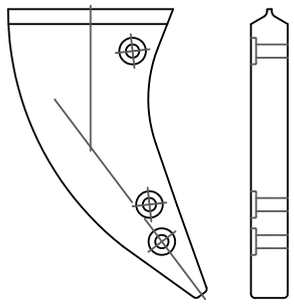


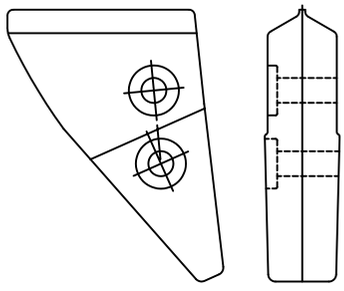
Standard Duty End Bit

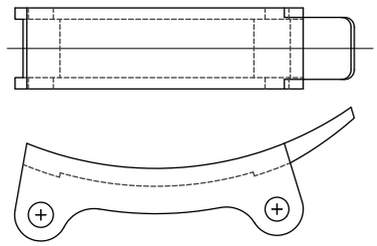
CAST END BITS					
Machine	**Serial No.**	**Heavy Duty Ribbed End Bit (#) nut/bolt assy.**		**Standard Duty End Bit (#) nut/bolt assy.**	
D8N-8U	1JH, 2WP, 6AH, 9CH	8E4537HX, 1 req'd. (134.0 lb / 60.8 kg) (7) A10-412	8E4538HX, 1 req'd. (134.0 lb / 60.8 kg) (7) A10-412	-	-
D8N-8SU	1KH, 2PP, 2TP, 3MP	8E4537HX, 1 req'd. (134.0 lb / 60.8 kg) (7) A10-412	8E4538HX, 1 req'd. (134.0 lb / 60.8 kg) (7) A10-412	-	-
D8L-8SU	04Y1-1939	7T4091RH, 1 req'd. (106.0 lb / 48.1 kg) (7) A10-314	7T4090LH, 1 req'd (106.0 lb / 48.1 kg) (7) A10-314	3G8317HX, 1 req'd. (61.0 lb / 27.7 kg) (7) A10-314	3G8318HX, 1 req'd. (61.0 lb / 27.7 kg) (7) A10-314
	-	-	-	9J1477HX, 1 req'd (59.0 lb / 26.8 kg) (7) A10-314	9J1478HX, 1 req'd (59.0 lb / 26.8 kg) (7) A10-314
D8-8SU	29V, 30W, 60V	-	-	9J1479RH, 1 req'd. (56.2 lb / 25.5 kg) (7) A10-314	9J1480LH, 1 req'd. (56.2 lb / 25.5 kg) (7) A10-314
D8-8SU	78C, 29E, 94E, 69E, 14J, 44K, 47K	-	-	4J8849RH, 1 req'd. (53.0 lb / 24.0 kg) (7) A78-300	4J8850LH, 1 req'd. (53.0 lb / 24.0 kg) (7) A78-300
D9N, D9R-9U	1LH, 2ZH, 1MP, 7PH	8E4539RH, 1 req'd. (151.0 lb / 68.5 kg) (7) A10-412	8E4540LH, 1 req'd. (151.0 lb / 68.5 kg) (7) A10-412	-	-
D9N, D9R-9SU	1MH, 5BH, 1LP, 2LP, 7NH	8E4539RH, 1 req'd. (151.0 lb / 68.5 kg) (7) A10-412	8E4540LH, 1 req'd. (151.0 lb / 68.5 kg) (7) A10-412	-	-
D9L-9U	19Y1-1474, 78S	8E4541HDR, 1 req'd. (285.0 lb / 129.3 kg) (7) A114-500	8E4542HDR, 1 req'd. (285.0 lb / 129.3 kg) (7) A114-500	-	-
D9L-9SU	18Y1-1875, 52Y, 42S	8E4541HDR, 1 req'd. (285.0 lb / 129.3 kg) (7) A114-500	8E4542HDR, 1 req'd. (285.0 lb / 129.3 kg) (7) A114-500	-	-
D9H-9U	14C, 19K, 78X	7T4094RH, 1 req'd. (236.0 lb / 107.0 kg) (7) A10-412	7T4095LH, 1 req'd. (236.0 lb / 107.0 kg) (7) A10-412	-	-
D9-9SU	18Y, 52Y, 42S	-	-	1U1545HX, 1 req'd. (143.0 lb / 64.9 kg) (7) A114-400	1U1546HX, 1 req'd. (143.0 lb / 64.9 kg) (7) A114-400

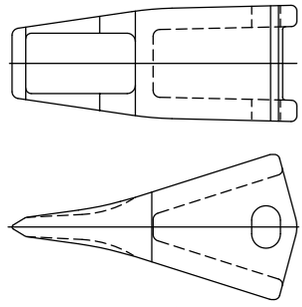
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WEAR PROTECTION PRODUCTS FOR DOZERS
Caterpillar Style


Repair Segment


Repair Nose


Shank Guard


Teeth

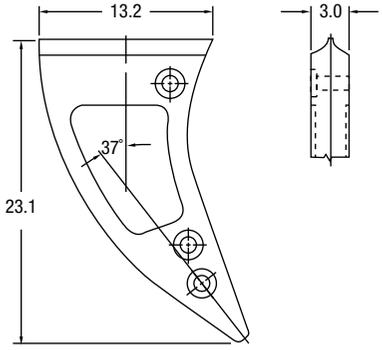
COMPLETE RIPPER SHANKS & REPLACEMENT PARTS					
Machine	**Shank Assembly**	**Repair Segment**	**Repair Nose**	**Shank Guard Part No.**	**Teeth**
D8	107-3485, 107-3486, 4T0134, 4T0135, 4T0136, 4T8988, 4T8989, 4T8990, 7J1792, 7J1793, 8E5339, 8E5340, 8E5341, 8E5345, 8E5346, 8E5347, 8E5348, 9W6167	8E8418HX or 7J1791HX (old style)	-	6J8814HX 6J8814WHX 8E1848HX	9W2451HX 4T4452HX 9W2452AHX 4T5451HX 4T5452HX 4T4452HX 4T4453HX T6J8812 T9W2452
D9L	6Y3138, 8E8411, 6Y6141, 8E8414, 6Y6144, 8E8415, 6Y6147, 8E8416, 8E8417, 109-9114, 114-4503	103-8115HX	107-3361HX	9W8365HX	4T5501HX 4T5502HX 3G6503HX 4T45202HX 4T4503HX 3G6502HHX T3G6502 T3G6503 3G6503CLAW
	6Y4679, 8E8412, 6Y5616, 118-2140, 109-3135, 8E8413	103-8115HX	107-3361HX	6Y8960HX 6Y8960HHX	
	1V4592, 7T5130, 3G8566, 9W4427, 3G2088, 9W4426, 9J5954, 1U4873, 7T5131	1U3630HX	103-8114HX	6Y9704HX	
	3G5707, 3G6507	1U3630HX	103-8114HX	1U3644HX 1U3644HHX	
D9	107-3485, 107-3486, 4T0134, 4T0135, 4T0136, 4T8988, 4T8989, 4T8990, 7J1792, 7J1793, 8E5339, 8E5340, 8E5341, 8E5345, 8E5346, 8E5347, 8E5348, 9W6167	8E8418HX or 7J1791HX (old style)	9U9694HX or 4T9776WN (old style)	6J8814HX 6J8814WHX 8E1848HX	9W2451HX 4T4452HX 9W2452AHX 4T5451HX 4T5452HX 4T4452HX 4T4453HX T6J8812 T9W2452

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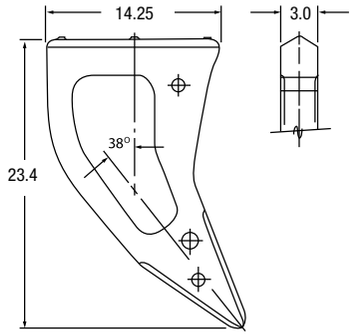
WEAR PROTECTION PRODUCTS FOR DOZERS
Caterpillar Style

REPAIR SEGMENTS

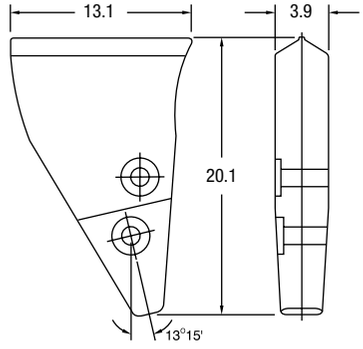
8E8418HX
Weld-on Segment
150.0 lb / 68.0 kg



7J1791HX
Weld-on Segment
(uses old style center snap ring pin)
165.0 lb / 74.8 kg

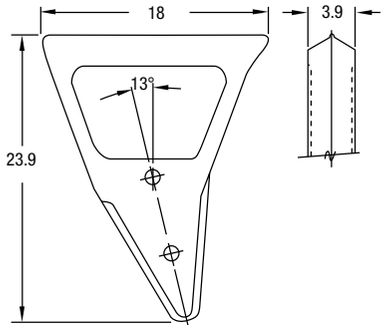


103-8115HX
Weld-on Segment
162.0 lb / 73.5 kg

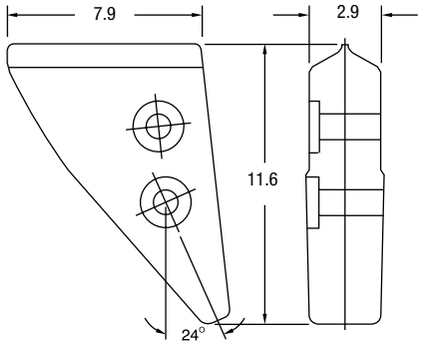


REPAIR NOSES

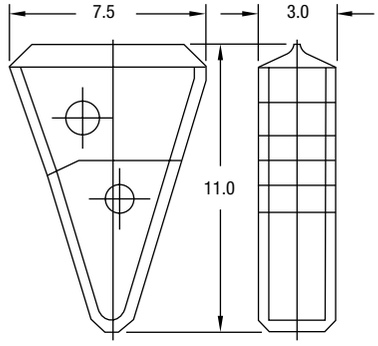
1U3630HX
Weld-on Segment
(uses old style center snap ring pin)
224.0 lb / 101.6 kg



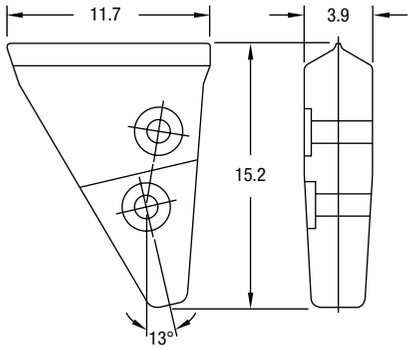
9U9694HX
Weld-on Segment
43.5 lb / 19.7 kg



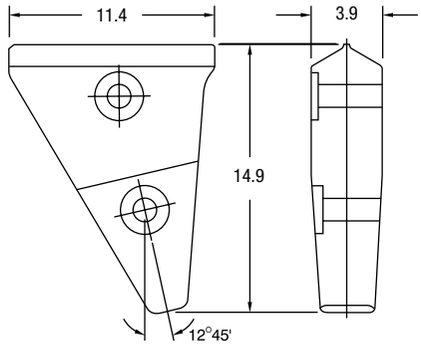
4T9776WN
Weld-on Segment
(uses old style center snap ring pin)
36.8 lb. / 16.7 kg



107-3361HX
Weld-on Segment
98.0 lb / 44.5 kg



103-8114HX
Weld-on Segment
96.0 lb / 43.5 kg

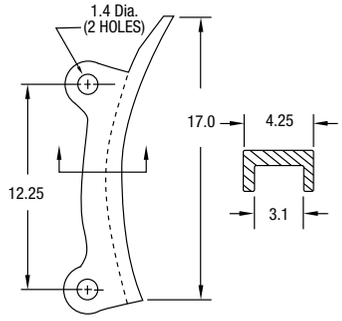


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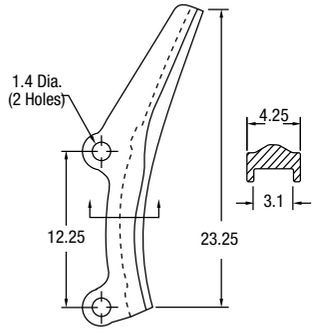
WEAR PROTECTION PRODUCTS FOR DOZERS
Caterpillar Style

SHANK GUARDS

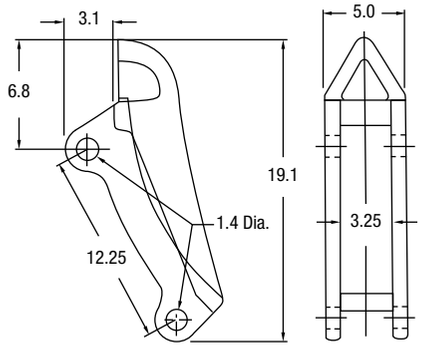
6J8814HX
Shank Guard
24.5 lb / 11.1 kg



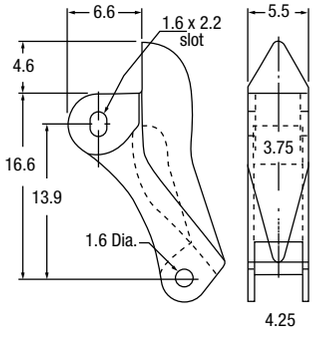
6J8814WHX
Shank Guard
53.2 lb / 24.1 kg



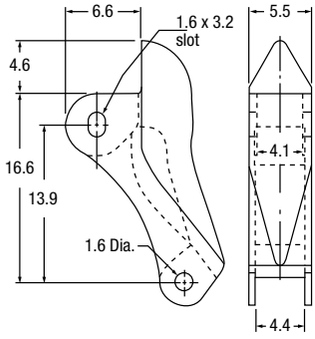
8E1848HX
Shank Guard
52.0 lb / 23.6 kg



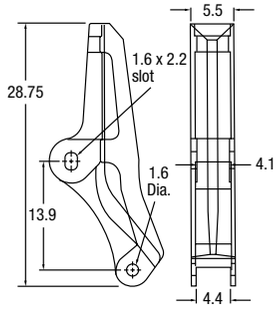
9W8365HX
Shank Guard
(3.62" Thick Shank)
84.0 lb / 38.1 kg



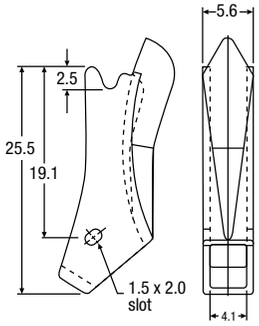
6Y8960HX
Shank Guard
(4.0" Thick Shank)
85.0 lb / 38.5 kg



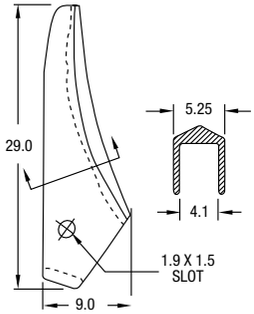
6Y8960HHX
Shank Guard
128.0 lb / 58.1 kg



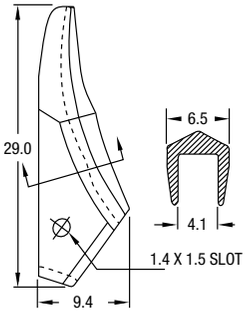
6Y9704HX
Shank Guard
122.0 lb / 53.3 kg



1U3644HX
Shank Guard
91.0 lb / 41.3 kg

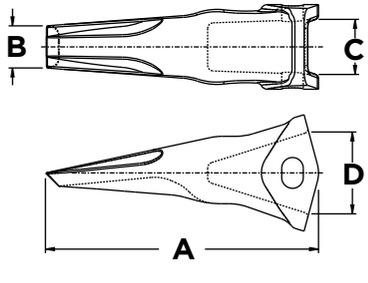


1U3644HHX
Shank Guard
112.0 lb / 55.3 kg

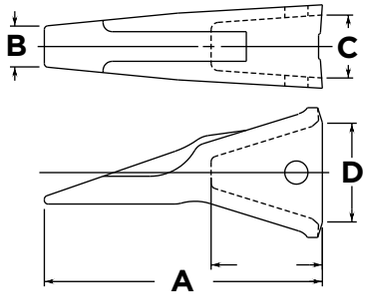


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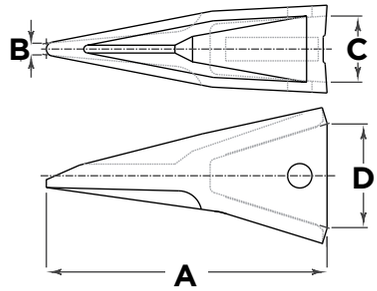
WEAR PROTECTION PRODUCTS FOR DOZERS
Caterpillar Style



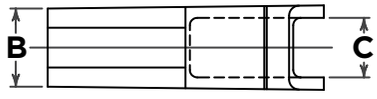
Type 1 (Centerline)

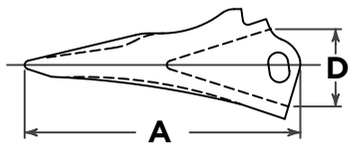


Type 2 (Non-Centerline)

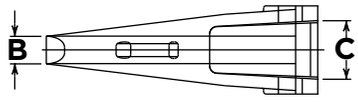


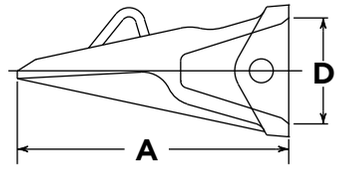
Type 3 (Tiger)





Type 4





Type 5 (Non-Centerline)

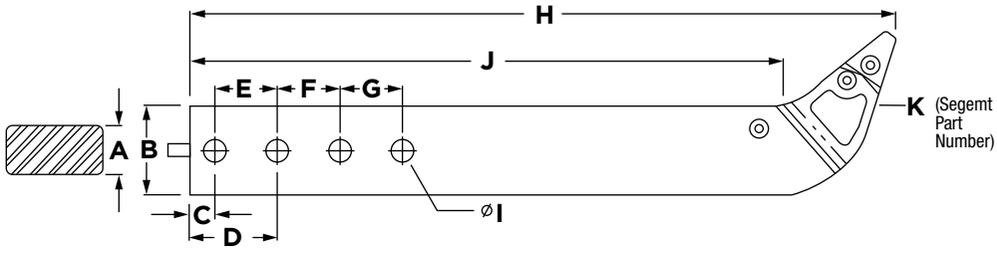
RIPPER TEETH FOR DOZERS AND LOADERS

Tooth Series	Ripper Tooth Part No.	Type	Dimensions								Weight		Fasteners
			Overall Tooth				Tooth Pocket						
			A		B		C		D				
			"	mm	"	mm	"	mm	"	mm	lb	kg	
R550	9W4551HX	1	17.6	448	3.0	76	4.6	116	8.4	213	88.5	40.1	8E2229P, 1012874W or 6Y2443P*
	9W4552HX	1	21.25	540	3.0	76	4.6	116	8.4	213	107.0	48.5	
	6Y3552HX	2	21.25	540	3.1	80	4.6	116	8.4	213	100.0	45.4	
	T9W4552	3	20.0	508	-	-	4.6	116	8.4	213	96.7	43.9	
R500	4T5501HX	2	14.75	375	2.75	70	4.25	108	6.5	165	53.5	24.3	6Y3909P/ 4T4707W or 3G0500P*
	4T5502HX	2	17.1	435	2.75	70	4.25	108	6.5	165	61.8	28.0	
	3G6503HX	2	18.75	476	2.75	70	4.25	108	6.5	165	63.0	28.6	
	4T4502HX	1	16.75	425	3.0	76	4.25	108	6.5	165	64.0	29.0	
	4T4503HX	1	19.0	483	2.9	73	4.25	108	6.5	165	68.0	30.8	
	3G6502HHX	1	17.25	438	3.75	95	4.25	108	6.5	165	77.2	35.0	
	T3G6502	3	16.0	406	-	-	4.25	108	6.5	165	49.8	22.6	
	T3G6503	3	18.0	457	-	-	4.25	108	6.5	165	49.8	22.6	
	3G6503CLAW	5	18.0	457	1.25	32	4.25	108	6.5	165	72.0	32.7	

* Old Style Center Snap Ring Pin

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WEAR PROTECTION PRODUCTS FOR DOZERS
Caterpillar Style

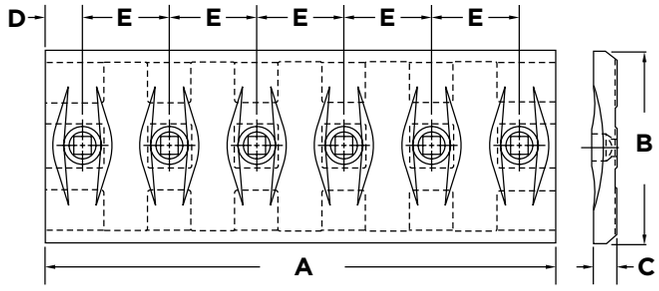


COMPLETE RIPPER SHANKS AVAILABLE FROM HENSLEY ATTACHMENTS DIVISION

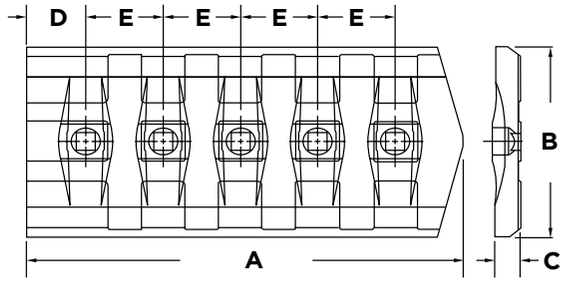
Part No.	Shank Dimensions																				Segment Part Number (K)
	A		B		C		D		E		F		G		H		I		J		
	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	
RS-4T8988-HX	3.0	76	13.0	330	4.25	108	25.1	638	20.9	530	N/R	N/R	N/R	N/R	108.5	2756	3.4	87	88.9	2258	8E8414HX
RS-4T8990-HX	3.0	76	13.0	330	3.1	79	13.0	330	9.9	251	N/R	N/R	N/R	N/R	63.2	1605	3.4	87	42.75	1086	8E8414HX
RS-6Y6138-HX	3.5	89	14.0	356	8.7	220	17.3	440	8.7	220	N/R	N/R	N/R	N/R	91.6	2326	3.9	100	68.6	1741	1U3630HX
RS-6Y6141-HX	3.5	89	14.0	356	4.0	102	13.8	350	9.8	248	N/R	N/R	N/R	N/R	71.7	1822	3.9	100	54.0	1371	1038115HX
RS-8E5348-HX	3.0	76	13.0	330	4.25	108	25.1	638	20.9	530	20.9	530	N/R	N/R	108.75	2762	3.7	94	87.8	2231	8E8418HX
RS-8E8415-HX	3.5	89	14.0	356	4.0	102	13.8	350	9.8	248	N/R	N/R	N/R	N/R	71.7	1822	4.6	116	54.0	1371	1038115HX
R5300C062B-09D9ID Custom ripper shank	3.0	76	9.0	229	4.0	102	16.0	406	12.0	305	N/R	N/R	N/R	N/R	61.0	1549	2.7	69	52.9	1343	9W7488WN

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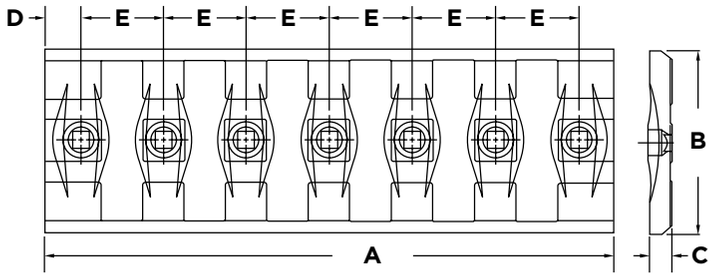
CENTER & END DOZER EDGES
Caterpillar Style



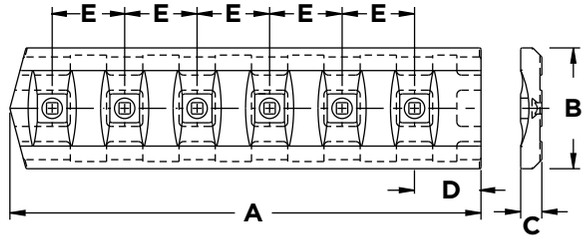
Center 1



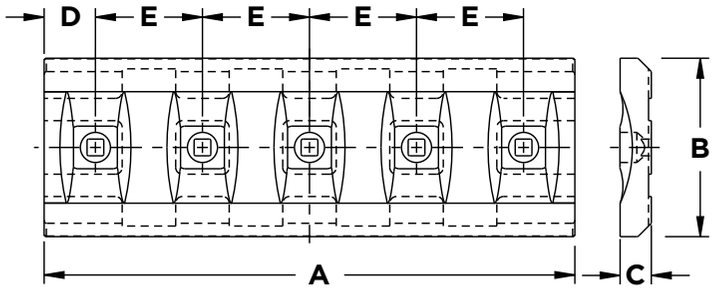
End 1



Center 2



End 2



Center 3

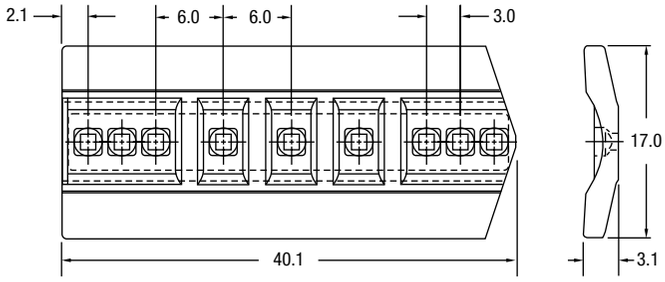
DOZER EDGES												
Part No.	Type	Dimensions										Weight	
		A		B		C		D		E			
		″	mm	″	mm	″	mm	″	mm	″	mm	lb	kg
LA6225HHD-HX	Center 1	35.0	889	13.0	330	1.75	44	2.5	64	6.0	152	190.0	86.2
LA6248HHD-HX	Center 1	39.0	991	16.0	406	2.0	51	4.5	114	6.0	152	276.0	125.2
LA6250HHD-HX	Center 2	42.2	1072	10.0	254	1.75	44	3.1	78	6.0	152	164.0	74.0
LA6110HHD-HX	Center 2	40.9	1038	13.0	330	1.75	44	2.4	62	6.0	152	215.0	97.5
4T2988HHX	Center 2	40.6	1032	10.0	254	1.75	44	2.3	59	6.0	152	150.0	68.1
LA6226HHD-HX	Center 3	33.25	845	16.0	406	2.0	51	4.6	117	6.0	152	240.0	108.9
4T2992HHX	Center 3	29.75	756	10.0	254	1.75	44	2.9	73	6.0	152	114.0	51.7
LA6201HHD-HX	End 1	31.4	798	13.0	330	1.75	44	2.9	73	6.0	152	162.0	73.5
LA6227HHD-HX	End 1	33.9	860	16.0	406	2.0	51	4.6	117	6.0	152	234.0	106.2
4T2986HHX	End 1	30.75	781	10.0	254	1.75	44	2.9	75	6.0	152	112.0	50.8
4T8797HHX	End 2	39.0	991	10.0	254	1.75	44	5.5	140	6.0	152	145.0	65.8

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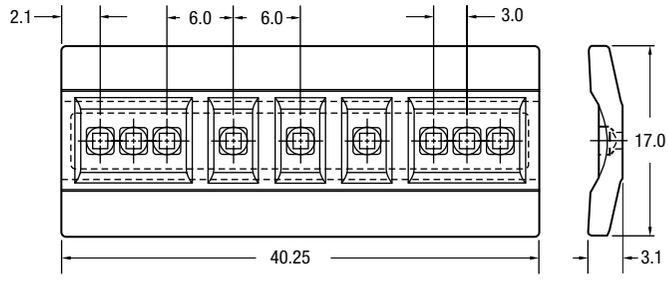
CENTER & END DOZER EDGES
Caterpillar Style

DOZER EDGES

LA6258HHD-HX
375.0 lb / 170 kg



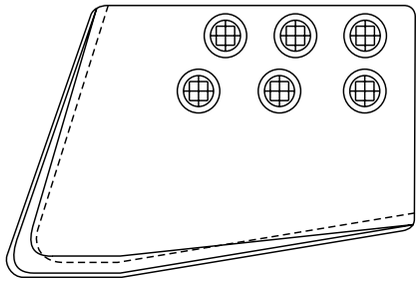
LA6259HHD-HX
385.0 lb / 174.6 kg



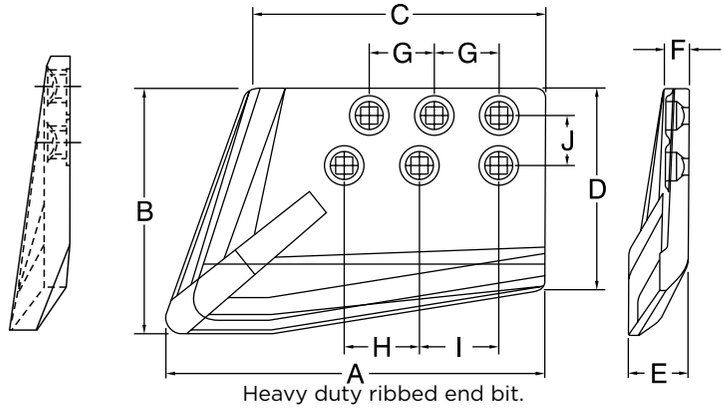
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Note: Measurements are in inches.

END BITS FOR DOZERS
Caterpillar Style



Standard duty end bit.
Right hand shown, left hand opposite.



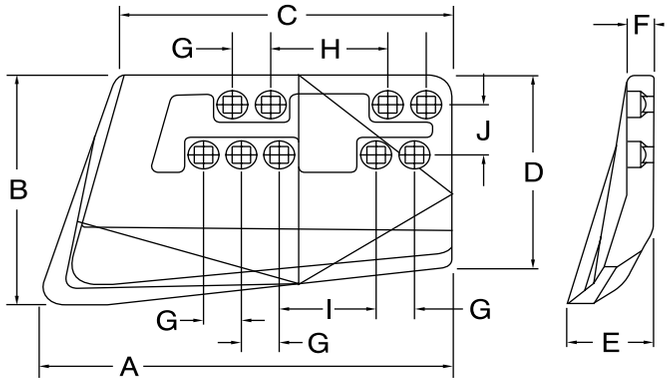
Heavy duty ribbed end bit.

END BITS												
Part No.	Type	Dimensions										
		A		B		C		D		E		F	
		"	mm	"	mm	"	mm	"	mm	"	mm	"	mm
5J1419RH 5J1420LH	Standard Duty	15.0	381	9.75	248	13.75	349	8.1	206	2.2	56	0.9	24

END BITS CONTINUED											
Part No.	Type	Dimensions								Weight	
		G		H		I		J			
		"	mm	"	mm	"	mm	"	mm	lb	kg
5J1419RH 5J1420LH	Standard Duty	4.0	102	-	-	-	-	2.5	63	33.6	15.2

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END BITS FOR DOZERS
Caterpillar Style

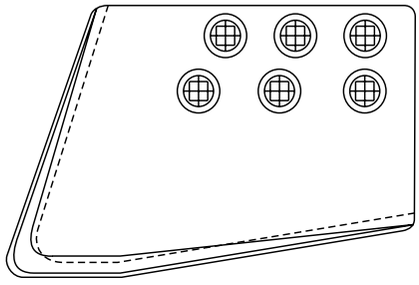


END BITS												
Part No.	Type	Dimensions										
		A		B		C		D		E		F	
		″	mm	″	mm	″	mm	″	mm	″	mm	″	mm
8E4545RH 8E4546LH	Standard Duty	32.0	813	19.6	497	26.3	688	16.4	416	6.7	170	2.1	51

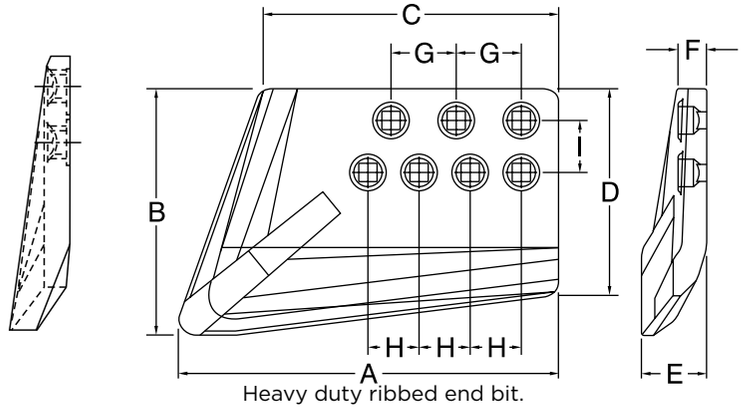
END BITS CONTINUED											
Part No.	Type	Dimensions								Weight	
		G		H		I		J			
		″	mm	″	mm	″	mm	″	mm	lb	kg
8E4545RH 8E4546LH	Standard Duty	3.0	75	9.25	235	7.6	192	4.3	108	382.0	173.3

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END BITS FOR DOZERS
Caterpillar Style



Standard duty end bit.
Right hand shown, left hand opposite.

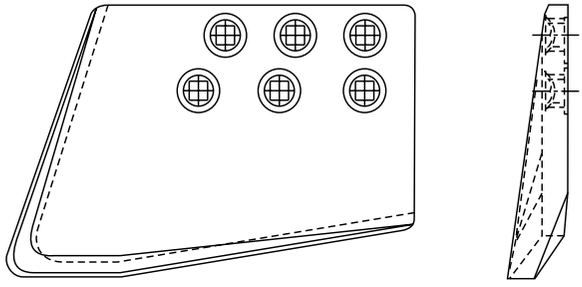


Heavy duty ribbed end bit.

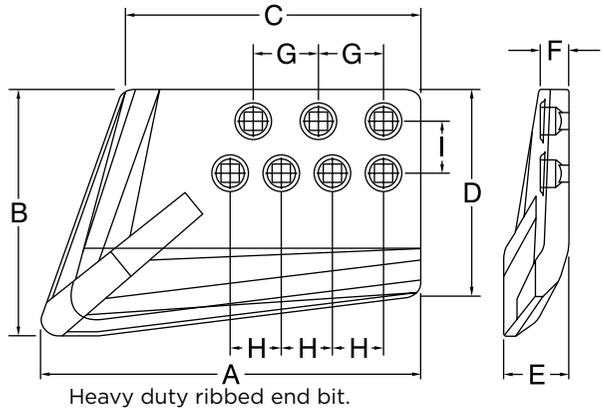
END BITS												
Part No.	Type	Dimensions										
		A		B		C		D		E		F	
		"	mm	"	mm	"	mm	"	mm	"	mm	"	mm
4J8849RH 4J8850LH	Standard Duty	19.1	486	11.0	279	16.25	413	10.4	263	2.4	63	1.1	29
9J1476-9RH 9J1480LH	Standard Duty	18.5	470	11.75	298	15.4	390	10.0	254	2.5	63	1.2	30
4J8843RH 4J8844LH	Standard Duty	19.0	483	10.9	276	16.4	416	10.25	260	2.9	73	1.1	29
9W6199HRH 9W6198HLH	Heavy Duty Ribbed	19.4	492	12.4	314	16.75	425	10.4	263	3.3	84	1.0	25
7T4091RH 7T4090LH	Heavy Duty Ribbed	20.75	527	14.0	356	16.2	411	11.8	300	3.75	95	1.1	29

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END BITS FOR DOZERS
Caterpillar Style



Standard duty end bit.
Right hand shown, left hand opposite.



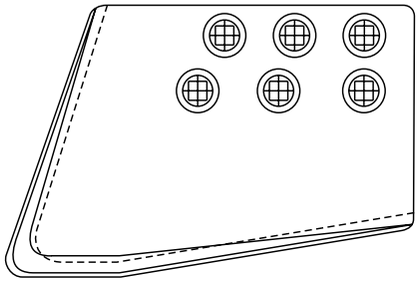
Heavy duty ribbed end bit.

END BITS CONTINUED

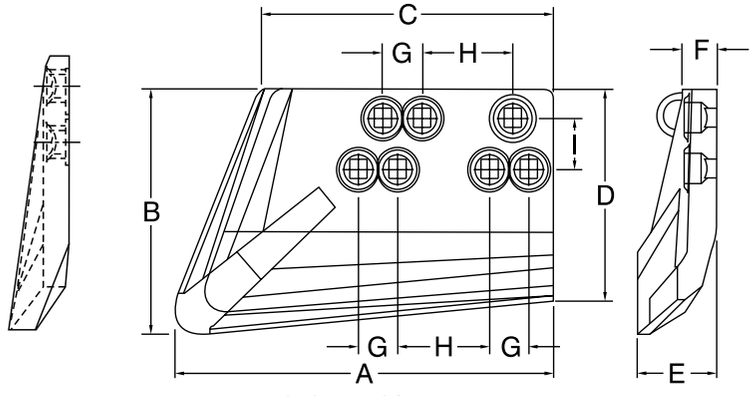
Part No.	Type	Dimensions						Weight	
		G		H		I			
		"	mm	"	mm	"	mm	lb	kg
4J8849RH 4J8850LH	Standard Duty	4.0	102	3.0	76	3.25	83	53.0	24.0
9J1476-9RH 9J1480LH	Standard Duty	4.0	102	3.0	76	3.25	83	56.2	25.5
4J8843RH 4J8844LH	Standard Duty	4.0	102	3.0	76	3.25	83	51.8	23.5
9W6199HRH 9W6198HLH	Heavy Duty Ribbed	4.0	102	3.0	76	3.25	83	80.0	36.3
7T4091RH 7T4090LH	Heavy Duty Ribbed	4.0	102	3.0	76	3.25	83	106.0	48.1

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END BITS FOR DOZERS
Caterpillar Style



Standard duty end bit.
Right hand shown, left hand opposite.



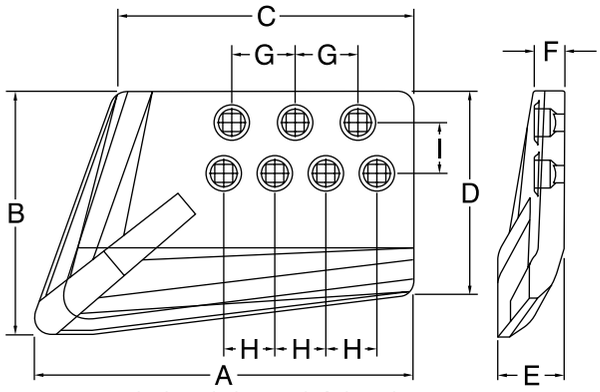
Extended wear life.

END BITS												
Part No.	Type	Dimensions										
		A		B		C		D		E		F	
		″	mm	″	mm	″	mm	″	mm	″	mm	″	mm
8E4541RH 8E4542LH	Standard Duty	29.4	747	18.6	472	22.75	578	16.1	410	6.25	159	1.9	49
8E4541HDR 8E4542HDL	Heavy Duty Ribbed	29.25	743	18.75	476	22.75	578	16.1	410	6.0	152	1.9	48

END BITS CONTINUED									
Part No.	Type	Dimensions						Weight	
		G		H		I			
		″	mm	″	mm	″	mm	lb	kg
8E4541RH 8E4542LH	Standard Duty	3.0	76	7.0	178	3.9	100	275.0	124.7
8E4541HDR 8E4542HDL	Heavy Duty Ribbed	3.0	76	7.0	178	3.9	100	285.0	129.3

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END BITS FOR DOZERS
Caterpillar Style



Right hand shown, left hand opposite.

END BITS												
Part No.	Type	Dimensions										
		A		B		C		D		E		F	
		″	mm	″	mm	″	mm	″	mm	″	mm	″	mm
8E4537HX 8E4538HX	Heavy Duty Ribbed	24.0	610	15.4	391	18.4	467	11.5	292	4.0	102	2.0	51
8E4539RH 8E4540LH	Heavy Duty Ribbed	24.1	613	15.5	394	19.0	483	13.0	330	4.1	105	1.25	32
7T4094RH 7T4095LH	Heavy Duty Ribbed	26.0	660	18.75	476	18.0	457	14.25	362	5.0	127	3.0	76

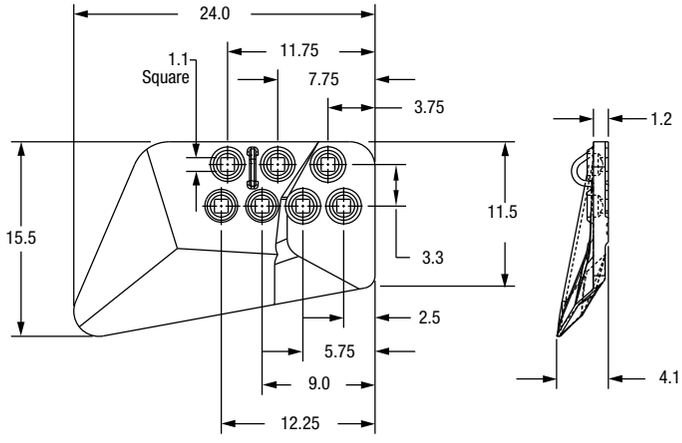
END BITS CONTINUED									
Part No.	Type	Dimensions						Weight	
		G		H		I			
		″	mm	″	mm	″	mm	lb	kg
8E4537HX 8E4538HX	Heavy Duty Ribbed	4.0	102	3.25	83	3.3	84	134.0	60.8
8E4539RH 8E4540LH	Heavy Duty Ribbed	4.0	102	3.25	83	3.25	83	151.0	68.5
7T4094RH 7T4095LH	Heavy Duty Ribbed	4.0	102	3.25	83	3.25	83	236.0	107.0

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END BITS FOR DOZERS
Caterpillar Style

HEAVY DUTY RIBBED END BIT

8E4193HX (RH)
8E4194HX (LH)
91.0 lb / 41.3 kg



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Note: Measurements are in inches.

RIPPER PARTS FOR DOZER & LOADERS
Caterpillar Style

REPLACEMENT RIPPER PARTS FOR DOZERS & LOADERS							
Model	**Shank Assembly†**	**Repair Segment**	**Repair Nose**	**Shank Guard Part No.**	**Shank Guard Upper Fastener(s)**	**Shank Guard Lower Fasteners(s)**	**Tooth Series [1]**
D11 (SS)	8E0467, 8E1466, 7T6020, 9W0259	104-9279HX	N/A	9N4621HX	8E2229P/101-2874W (pin & retainer) 6Y2443P*	8E2229P/101-2874W (pin & retainer) 6Y2443P*	R550
D11 (MS), D10, D9L	6Y3138, 8E8411, 6Y6141, 8E8414, 6Y6144, 8E8415, 6Y6147, 8E8416, 8E8417, 109-9114, 114-4503	103-8115HX	107-3361HX	9W8365HX	6Y3909P/4T4707W (pin & retainer) 3G0500P*	6Y3909P/4T4707W (pin & retainer)	R500
	6Y4679, 8E8412, 118-2140, 109-3135, 6Y5616, 8E8413	103-8115HX	107-3361HX	6Y8960HX, 6Y8960HHX	6Y3909P/4T4707W (pin & retainer) 3G0500P*	6Y3909P/4T4707W (pin & retainer)	R500
	1V4592, 7T5130, 3G8566, 9W4427, 3G2088, 9W4426, 9J5954, 1U4873, 7T5131	1U3630HX*	103-8114HX	6Y9704HX	8J4889[2] (weld-on retainer)	6Y3909P/4T4707W (pin & retainer) 3G0500P*	R500
	3G5707, 3G6507	1U3630HX*	103-8114HX	1U3644HX, 1U3644HHX	-	6Y3909P/4T4707W 3G0500P*	R500
D9, D8	107-3485, 107-3486, 4T0134, 4T0135, 4T0136, 4T8988, 4T8989, 4T8990, 7J1792, 7J1793, 8E5339, 8E5340, 8E5341, 8E5345, 8E5346, 8E5347, 8E5348, 9W6167	8E8418HX	9U9694HX	6J8814HX, 6J8814WHX, 8E1848HX	6J8811P	6Y3394P/8E5559W	R450
		7J1791HX*	4T9776WN*	6J8814HX, 6J8814WHX, 8E1848HX	6J8811P	7J9600P*	R450
D7H, 983	9W7382, 7J6671	-	9W7488WN	-	-	-	R350
D7, D6, D5, 973, 977	-	-	-	-	-	-	R350 9J8920HX (old style)
D4, 941, 951, 955, 963	9J6586HX (straight) 9J8913[2] (curved)	-	C12WN	-	-	-	R300
953, 943	1U1257[2]	-	-	-	-	-	J250
D3, 931	8J5299[2]	-	-	-	-	-	J200

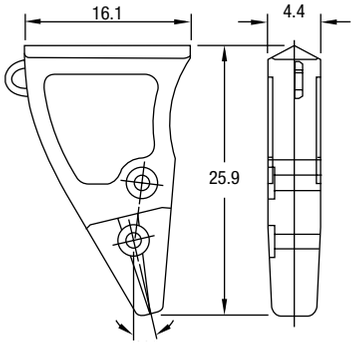
(SS) = Single Shank (MS) = Multi-Shank
† Contact Hensley's Attachment Division for Ripper Shank Replacements for D7H Dozers and larger.
* Old Style Center Snap Ring Pin.
[1] See Tooth Series Application Chart
[2] Reference only. Not available from Hensley Industries.

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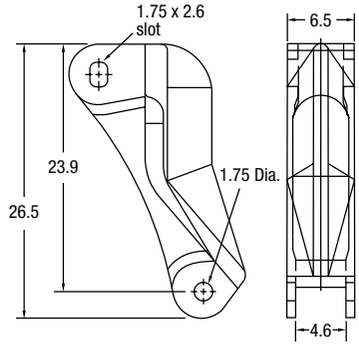
R550 — R500 RIPPERS FOR DOZERS & LOADERS
Caterpillar Style

R550 SERIES

104-9279HX
Weld-on Segment
285.0 lb / 129.3 kg

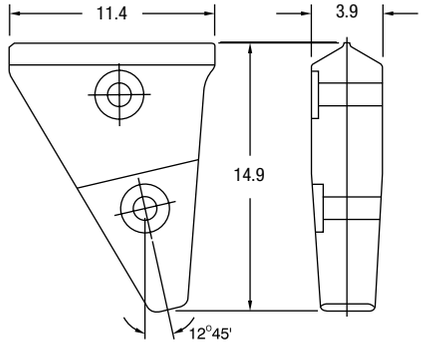


9N4621HX
Shank Guard
173.0 lb / 78.5 kg



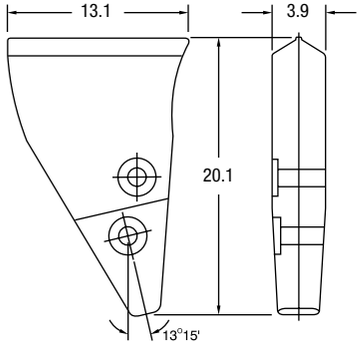
R500 SERIES

103-8114HX
Weld-on Segment
96.0 lb / 43.5 kg

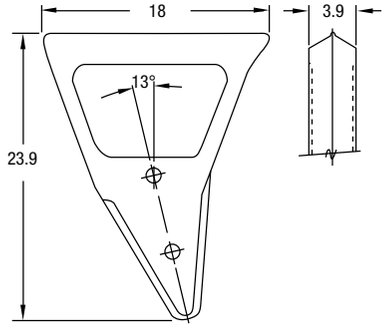


R500 SERIES

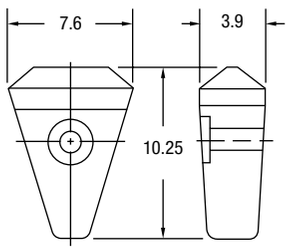
103-8115HX
Weld-on Segment
162.0 lb / 73.5 kg



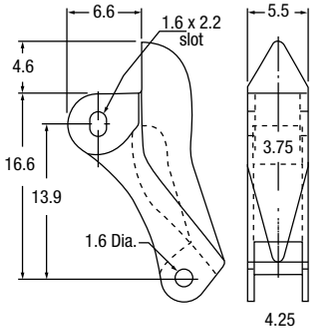
1U3630HX
Weld-on Segment
(uses old style center snap ring pin)
224.0 lb / 101.6 kg



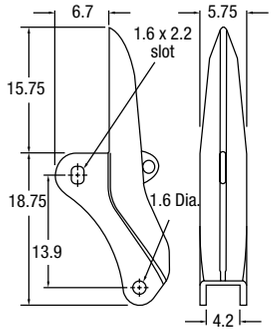
C22WN
Weld-on Nose
46.9 lb / 21.3 kg



9W8365HX
Shank Guard
(3.62" Thick Shank)
84.0 lb / 38.1 kg



9W8365EXT
Shank Guard
94.0 lb / 42.6 kg



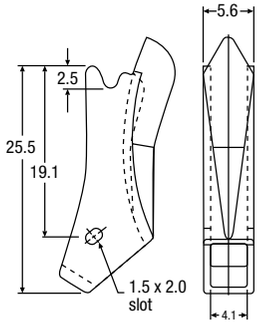
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Note: Measurements are in inches.

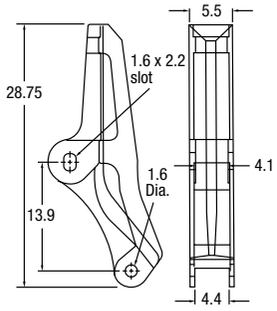
R500 — R450 RIPPERS FOR DOZERS & LOADERS
Caterpillar Style

R500 SERIES CONTINUED

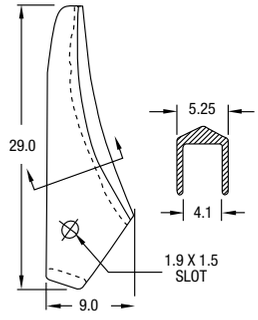
6Y9704HX
Shank Guard
122.0 lb / 53.3 kg



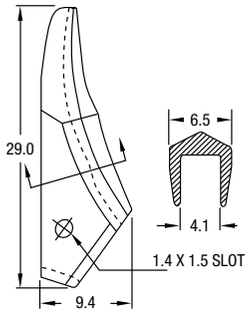
6Y8960HHX
Shank Guard
128.0 lb / 58.1 kg



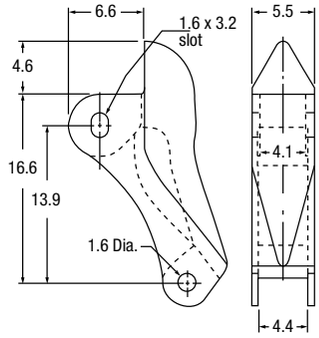
1U3644HX
Shank Guard
91.0 lb / 41.3 kg



1U3644HHX
Shank Guard
112.0 lb / 55.3 kg

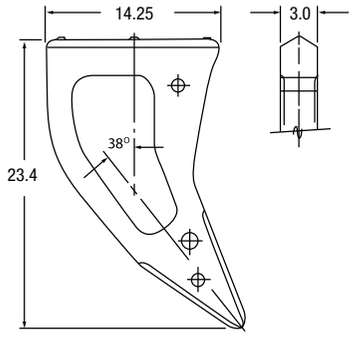


6Y8960HX
Shank Guard
(4.0" Thick Shank)
85.0 lb / 38.5 kg

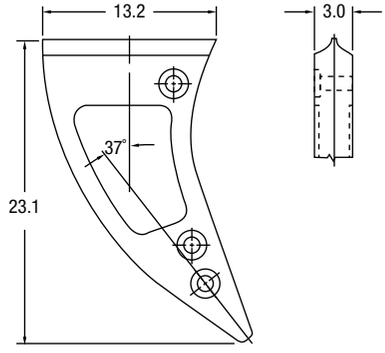


R450 SERIES

7J1791HX
Weld-on Segment
(uses old style center snap ring pin)
165.0 lb / 74.8 kg



8E8418HX
Weld-on Segment
150.0 lb / 68.0 kg



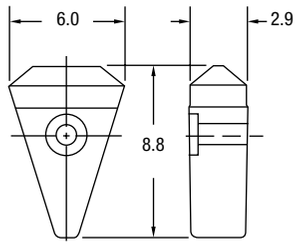
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Note: Measurements are in inches.

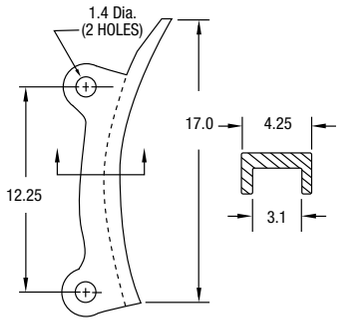
R450 — R200 RIPPERS FOR DOZERS & LOADERS
Caterpillar Style

R450 SERIES CONTINUED

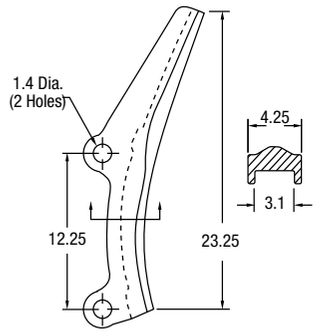
C20WN
Weld-on Nose
24.5 lb / 11.1 kg



6J8814HX
Shank Guard
24.5 lb / 11.1 kg

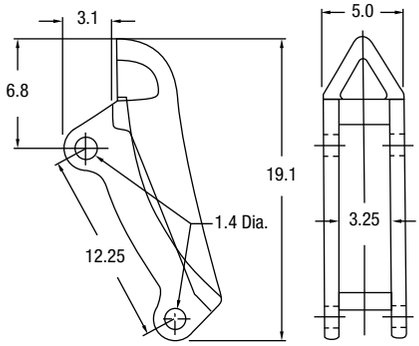


6J8814WHX
Shank Guard
53.2 lb / 24.1 kg

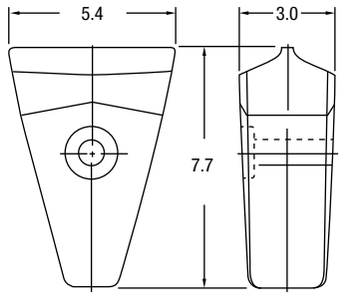


R350 SERIES

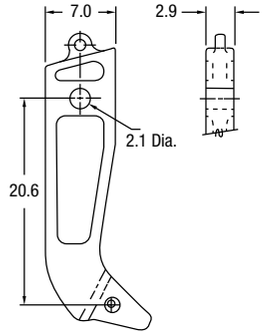
8E1848HX
Shank Guard
52.0 lb / 23.6 kg



9W7488WN
Weld-on Nose
18.5 lb / 8.4 kg

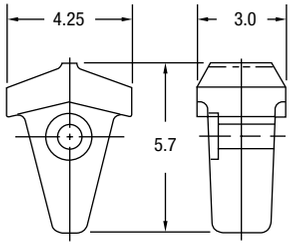


9J3139HX
Ripper Shank
116.0 lb / 52.6 kg

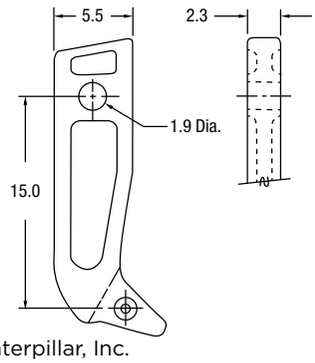


R300 SERIES

C12WN
Weld-on Nose
9.6 lb / 4.4 kg

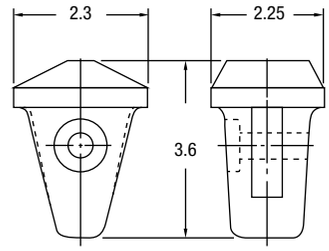


9J6586HX
Ripper Shank
51.3 lb / 23.3 kg
Uses 2K6413P pin with
(2) 3B5325P (3 x 15/32 cotter keys).



R200 SERIES

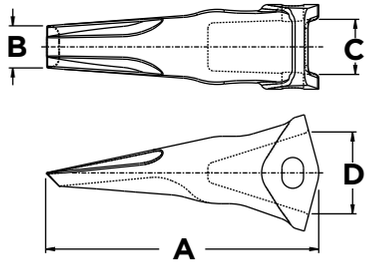
8J7525WN
Weld-on Nose
2.4 lb / 1.1 kg



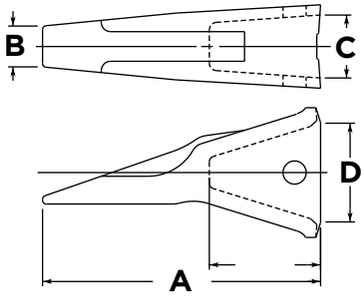
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Note: Measurements are in inches.

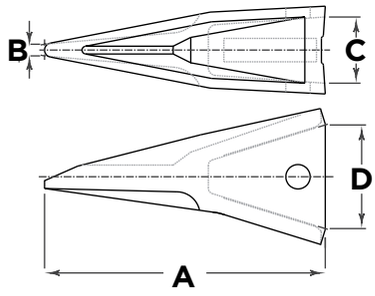
RIPPER TEETH FOR DOZERS & LOADERS
Caterpillar Style



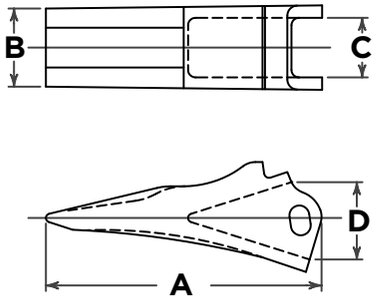
Type 1 (Centerline)



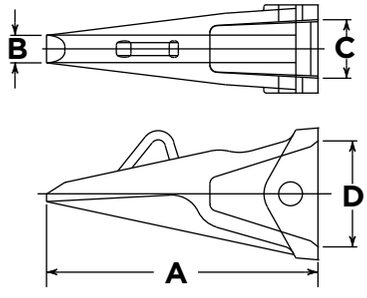
Type 2 (Non-Centerline)



Type 3 (Tiger)



Type 4



Type 5 (Non-Centerline)

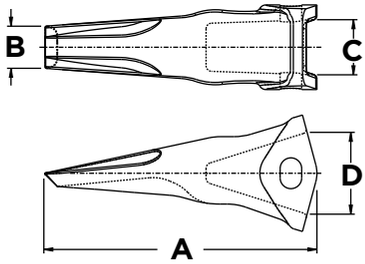
RIPPER TEETH FOR DOZERS AND LOADERS

Tooth Series	Ripper Tooth Part No.	Type	Dimensions								Weight		Fasteners
			Overall Tooth				Tooth Pocket						
			A		B		C		D				
			"	mm	"	mm	"	mm	"	mm	lb	kg	
R550	9W4551HX	1	17.6	448	3.0	76	4.6	116	8.4	213	88.5	40.1	8E2229P, 1012874W or 6Y2443P*
	9W4552HX	1	21.25	540	3.0	76	4.6	116	8.4	213	107.0	48.5	
	6Y3552HX	2	21.25	540	3.1	80	4.6	116	8.4	213	100.0	45.4	
	T9W4552	3	20.0	508	-	-	4.6	116	8.4	213	96.7	43.9	
R500	4T5501HX	2	14.75	375	2.75	70	4.25	108	6.5	165	53.5	24.3	6Y3909P/ 4T4707W or 3G0500P*
	4T5502HX	2	17.1	435	2.75	70	4.25	108	6.5	165	61.8	28.0	
	3G6503HX	2	18.75	476	2.75	70	4.25	108	6.5	165	63.0	28.6	
	4T4502HX	1	16.75	425	3.0	76	4.25	108	6.5	165	64.0	29.0	
	4T4503HX	1	19.0	483	2.9	73	4.25	108	6.5	165	68.0	30.8	
	3G6502HHX	1	17.25	438	3.75	95	4.25	108	6.5	165	77.2	35.0	
	T3G6502	3	16.0	406	-	-	4.25	108	6.5	165	49.8	22.6	
	T3G6503	3	18.0	457	-	-	4.25	108	6.5	165	49.8	22.6	
	3G6503CLAW	5	18.0	457	1.25	32	4.25	108	6.5	165	72.0	32.7	
R450	9W2451HX	1	12.9	327	3.1	80	3.4	86	4.9	121	38.2	17.3	6Y3394P/ 8E5559W or 7J9600P*
	4T4452HX	1	15.25	387	3.5	89	3.4	86	4.9	124	45.5	20.6	
	9W2452AHX	1	15.25	387	3.75	86	3.4	86	4.9	121	40.1	18.2	
	4T5451HX	2	12.9	327	2.0	51	3.4	86	4.9	121	37.7	17.1	
	4T5452HX	2	15.6	397	2.0	51	3.4	86	4.9	121	40.0	18.1	
	4T4452HX	1	15.25	387	3.5	89	3.4	86	4.9	121	45.5	20.6	
	4T4453HX	1	16.6	422	3.4	86	3.4	86	4.9	121	44.7	20.3	
	T6J8812	3	14.6	372	-	-	3.4	86	4.9	124	33.5	15.2	
	T9W2452	3	15.0	381	-	-	3.4	86	4.9	124	33.7	15.3	

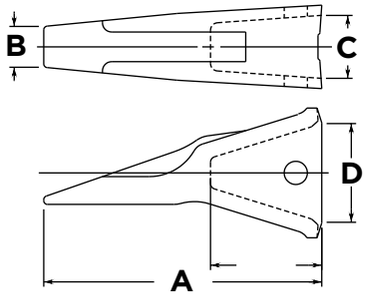
* Old Style Center Snap Ring Pin

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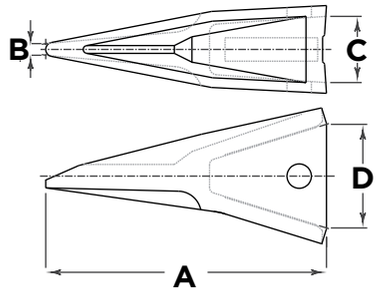
RIPPER TEETH FOR DOZERS & LOADERS
Caterpillar Style



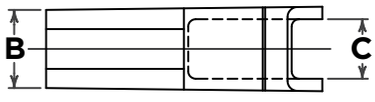
Type 1 (Centerline)

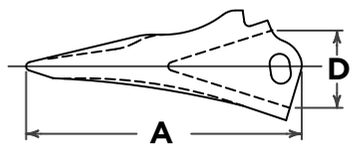


Type 2 (Non-Centerline)

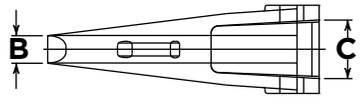


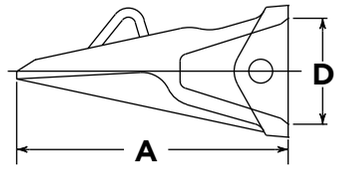
Type 3 (Tiger)





Type 4





Type 5 (Non-Centerline)

RIPPER TEETH FOR DOZERS AND LOADERS												
Tooth Series	Ripper Tooth Part No.	Type	Dimensions								Weight		Fasteners
			Overall Tooth				Tooth Pocket						
			A		B		C		D				
			"	mm	"	mm	"	mm	"	mm	lb	kg	
R350	6Y0352HX	1	14.0	356	1.9	48	3.1	78	4.4	113	24.0	10.9	9W2678P/ 6Y9459W
	6Y0359HX	2	14.0	356	2.1	52	3.1	78	4.4	113	25.1	11.4	
	T6Y0352	3	15.0	381	-	-	3.1	78	4.4	113	24.3	11.0	
R300	6Y0309HX	2	11.4	289	1.75	44	2.25	57	3.25	83	11.4	5.2	9J6583P/ 6Y9459W
	T9J8910	3	11.75	298	-	-	2.25	57	3.25	83	12.0	5.4	
R350 Old Style	9J8920HX	2	14.1	359	2.1	54	2.75	70	4.4	113	25.0	11.3	9J2358P/ 6Y9459W
	T9J8920	3	13.0	330	-	-	2.75	70	4.4	113	20.3	9.2	
	7J3310HX	4	12.1	308	4.9	125	3.0	76	3.9	99	23.4	10.6	5J9000P
	7J3312HX	4	13.9	353	3.9	100	3.0	76	3.9	99	31.9	14.5	
	T7J3312	3	13.0	330	-	-	3.0	76	3.9	99	22.5	10.2	

* Old Style Center Snap Ring Pin

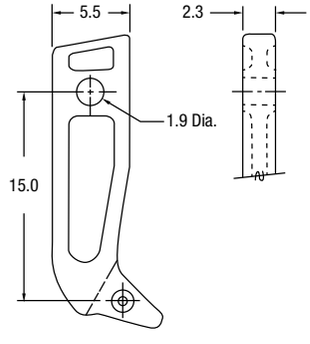
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REPLACEMENT PARTS FOR MOTOR GRADERS
Caterpillar Style

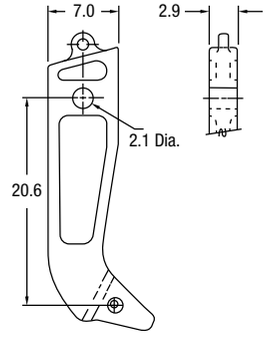
RIPPER SHANKS, WELD-ON NOSES, TEETH, PINS AND WASHERS FOR MOTOR GRADERS						
Machine Model	**Weld-On Nose or Shank**	**Teeth**			**Fasteners**	
		Centerline	**Penetrator**	**Tiger**	**Pin**	**Washer**
12G 14G 120 130 140	9J6586HX (Straight) C12WN (Nose) 9J3139HX (Straight)	-	6Y0309HX	T9J8910HX	9J6583P	6Y9459W
16G	9J3139SHX (Segment) 9W7488WN (Nose)	6Y0352HX	6Y0359HX or 9J8920HX	T6Y0352HX or T9J8920HX	9W2678P	6Y9459W

RIPPER SHANKS

9J6586HX
51.3 lb / 23.3 kg
Uses 2K6413P pin with
(2) 3B5325P (3 x 15/32 cotter keys).



9J3139HX
116.0 lb / 52.6 kg

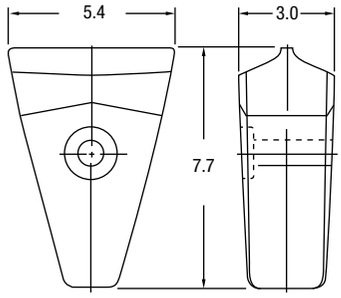


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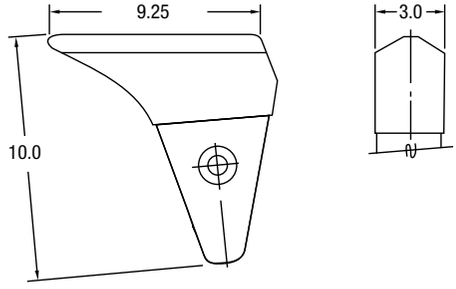
REPLACEMENT PARTS FOR MOTOR GRADERS
Caterpillar Style

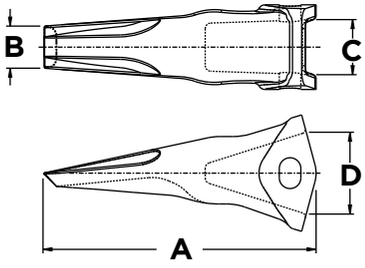
WELD-ON NOSES

9W7488WN
18.5 lb / 8.4 kg

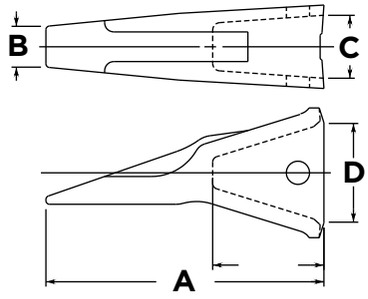


9J3139SHX
33.0 lb / 15.0 kg

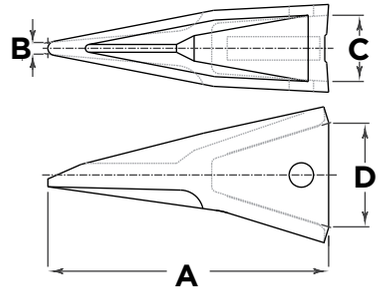




Type 1 (Centerline)



Type 2 (Non-Centerline)



Type 3 (Tiger)

RIPPER TEETH FOR MOTOR GRADERS

Ripper Tooth Part No.	Type	Dimensions								Weight	
		Overall Tooth				Tooth Pocket					
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
6Y0309HX	2	11.4	290	1.75	44	2.25	57	3.25	83	11.4	5.2
T9J8910	3	11.75	298	-	-	2.25	57	3.25	83	12.0	5.4
9J8920HX	2	14.1	359	2.1	54	2.75	70	4.4	113	25.0	11.3
T9J8920	3	13.0	330	-	-	2.75	70	4.4	113	20.3	9.2
6Y0352HX	1	14.0	356	1.9	48	3.1	78	4.4	113	24.0	10.9
T6Y0352	3	15.0	381	-	-	3.1	78	4.4	113	24.3	11.0
6Y0359HX	2	14.0	356	2.1	52	3.1	78	4.4	113	25.1	11.4

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SCARIFIER PARTS FOR MOTOR GRADERS
Caterpillar Style

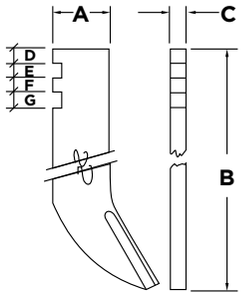
SCARIFIER TIPS AND SHANKS FOR MOTOR GRADERS				
Type	**Universal (Front and Rear Notches)**	**Straight Block (Rear Notch)**	**V-Block (Front Notch)**	**V-Block (Front and Rear Notches)**
Scarifier Shank	101HX	5B6251HX	9F5124HX	101HX
Tip, Standard	5B946HX	5B946HX	5B946HX	5B946HX
Tip, Heavy Duty	2D5572HX*	2D5572HX*	2D5572HX*	2D5572HX*

NOTE: All scarifier shanks utilize 1D3537HX wedge pins.

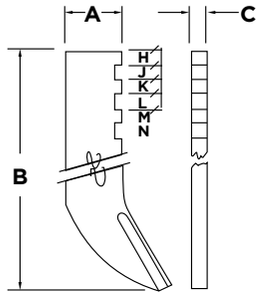
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Note: Measurements are in inches.

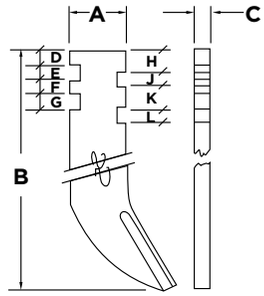
SCARIFIER PARTS FOR MOTOR GRADERS
Caterpillar Style



Type 1



Type 2



Type 3

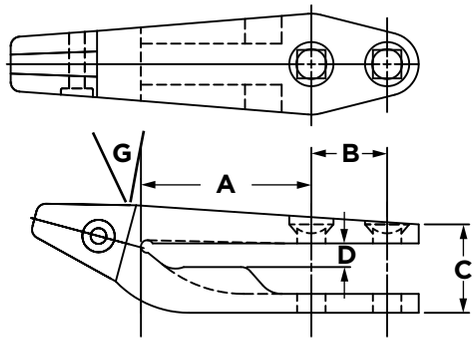
SHANKS FOR MOTOR GRADERS														
Shank Part No.	Type	Dimensions												
		A		B		C		D		E		F		G	
		"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm
5B6251HX	1	2.5	64	15.1	384	1.0	25	0.75	19	0.75	19	0.75	19	0.75	19
9F5124HX	2	3.0	76	17.25	438	1.0	25	-	-	-	-	-	-	-	-
101HX	3	3.0	76	17.25	438	1.0	25	0.75	19	0.7	18	0.75	19	0.7	18
104HXL	3	3.0	76	20.0	508	1.0	25	0.6	14	0.8	21	0.7	18	0.8	21

SHANKS FOR MOTOR GRADERS CONTINUED														
Shank Part No.	Dimensions												Weight	
	H		J		K		L		M		N			
	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	lb	kg
5B6251HX	-	-	-	-	-	-	-	-	-	-	-	-	10.7	4.8
9F5124HX	0.8	21	0.8	21	0.8	21	0.8	21	0.8	21	0.8	21	13.4	6.1
101HX	1.1	29	0.8	21	1.25	32	0.8	21	-	-	-	-	13.5	6.1
104HXL	1.25	32	0.8	21	1.3	33	0.8	21	-	-	-	-	16	7.3

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REPLACEMENT PARTS FOR SCRAPERS
Caterpillar Style

TEETH, ADAPTERS, PINS AND WASHERS REPLACEMENT PARTS FOR SCRAPERS					
Machine Model	Adapter	Standard Tooth	Optional Teeth	Teeth Fasteners	
				Pin	Washer
613	9J8455HX	1U3252HX	J250 Series	9J2258P	3G9609W
615	-	1U3302HX	J300 Series	9J2308P	3G9609W
J619 J621 623	9J2307HX	1U3302HX	J300 Series	9J2308P	3G9609W
633 639	9W9971HX	1U3352HX	J350 Series	9J2358P	6Y9459W



ADAPTERS FOR SCRAPERS														
Adapter Part No.	Cat Tooth Series	Dimensions									Weight		Plow Bolts		
		A		B		C		D		G			Size	Assy. No.	Qty.
		"	mm	"	mm	"	mm	"	mm	Degree	lb	kg	"		
9J8455HX	J250	5.2	132	3.0	76	1.7	43	0.9	24	16˚	14.1	6.4	.75 x 3.75	A34-334	2
9J2307HX	J300	6.75	171	3.0	76	2.0	51	0.9	24	13˚	25.7	11.7	1 x 4.5	A10-412	2
9W9971HX	J350	7.0	178	3.0	76	2.6	65	1.5	38	5˚	31.9	14.5	1 x 5.5	A10-512	2

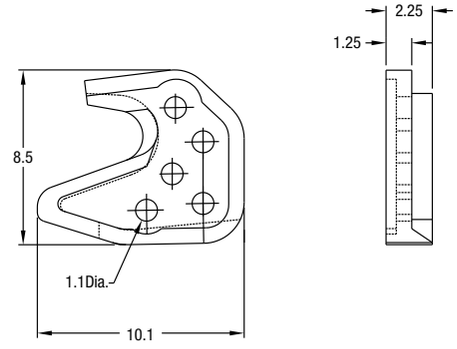
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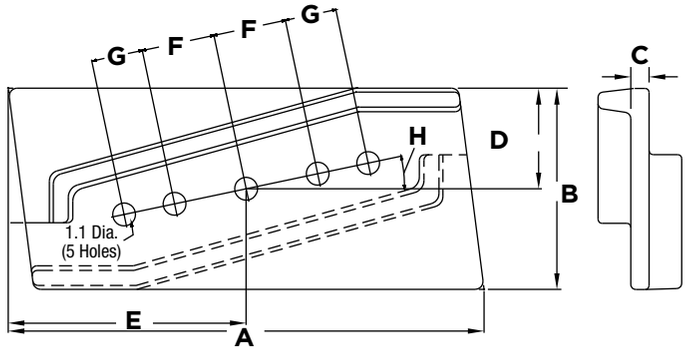
REPLACEMENT PARTS FOR SCRAPERS
Caterpillar Style

GUIDES AND ROUTER BITS			
Machine Model	**Router Bit**	**Bolt-on Guide**	
		Left	**Right**
615 621 623	D4J8665 (Standard) D7J3023 (Heavy Duty)	8J7211HX	8J7210HX
615 - 666	D4J8665 (Standard)	-	-
619 - 666	D7J3023 (Heavy Duty)	-	-

BOLT-ON GUIDES

8J7210HX (RH shown)
8J7211HX (LH opposite)
17.7 lb / 8.0 kg ea.





ROUTER BITS FOR SCRAPERS																	
Router Bit Part No.	**Dimensions**															**Weight**	
	A		**B**		**C**		**D**		**E**		**F**		**G**		**H**		
	″	**mm**	**″**	**mm**	**″**	**mm**	**″**	**mm**	**″**	**mm**	**″**	**mm**	**″**	**mm**	**Degree**	**lb**	**kg**
D4J8665	22.1	537	8.6	219	0.75	19	4.25	108	10.5	267	3.5	89	2.5	64	8˚	52.5	23.8
D7J3023	22.75	578	9.6	244	0.9	22	4.8	122	11.4	289	3.5	89	2.5	64	12˚	78.3	35.5

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Note: Measurements are in inches.

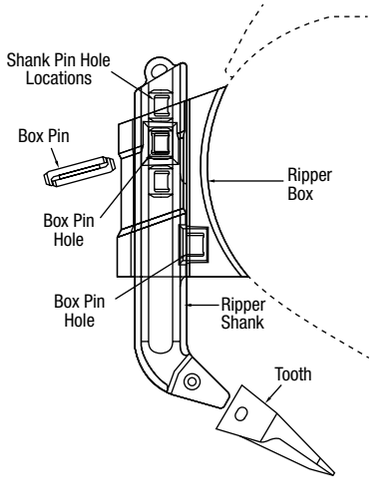
BOX RIPPER SYSTEMS FOR EXCAVATORS
Caterpillar Style

FEATURES INCLUDE:

- High quality alloy steel castings for both box and ripper shank
- Re-engineered tighter fit between box and shank
- New stronger, reusable box pin to reduce shank movement
- Second box pin location to further eliminate shank movement
- Three pin hole locations in shank to cover greater range of bucket profiles and ripping depths
- Uses Caterpillar® style ripper teeth

APPLICATIONS		
System	**Machine Model**	**Machine Operating Weight**
B200	215, 311, 312, 315	20,000 - 39,000 lb (9,072 - 17,690 kg)
B250	225, 320, 322	40,000 - 59,000 lb (18,144 - 26,762 kg)
B300	325, 330	60,000 - 84,000 lb (27,216 - 38,102 kg)
B350	235C	85,000 - 109,000 lb (38,556 - 49,442 kg)
B400	350L, 245, 345	110,000 - 169,000 lb (49,896 - 76,658 kg)

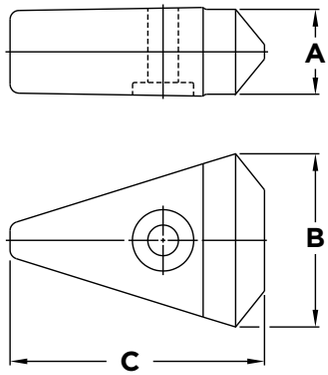
COMPLETE BOX RIPPER SYSTEM



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BOX RIPPER SYSTEMS FOR EXCAVATORS
Caterpillar Style

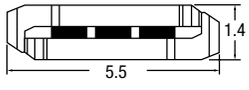
SYSTEM COMPONENTS						
	System					
	200	**250**	**300**	**350**	**350**	**400**
Kit	BK200	BK250	BK300	BK350-1	BK350-2	BK400
Shank	C200-12	C250-14	C300-20	C350-20	C350-22	C400-22
Box Pin	B250P (2)	B250P (2)	B250P (2)	B350P (2)	B350P (2)	B350P (2)
Tiger Tooth (series)	T9J8910 (R300)	T6Y0352 (R350)	T9W2452 (R450)	T9W2452 (R450)	T3G6503 (R500)	T3G6503 (R500)
Tooth Fastener	9J6583P 6Y9459W	9W2678P 6Y9459W	6Y3394P 8E5559W	6Y3394P 8E5559W	6Y3909P 4T4707W	6Y3909P 4T4767W
Box	B200	B250	B300	B350	B350	B400



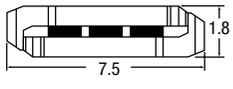
REPLACEMENT NOSES									
Weld-on Nose	**For Shank No.**	**Dimensions**						**Weight**	
		A		**B**		**C**			
		″	**mm**	**″**	**mm**	**″**	**mm**	**lb**	**kg**
C12WN	C220-12	3.0	76	4.25	108	5.7	145	9.6	4.4
9W7488WN	C250-14	3.0	76	5.4	137	7.7	194	18.5	8.4
C20WN	C300-20 C350-20	2.9	75	6.0	152	8.8	224	24.5	11.0
C22WN	C350-22 C400-22	3.9	99	7.6	194	10.25	260	46.9	21.0

BOX PINS

B250P
2.7 lb / 1.2 kg



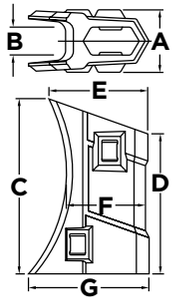
B350P
5.6 lb / 2.5 kg



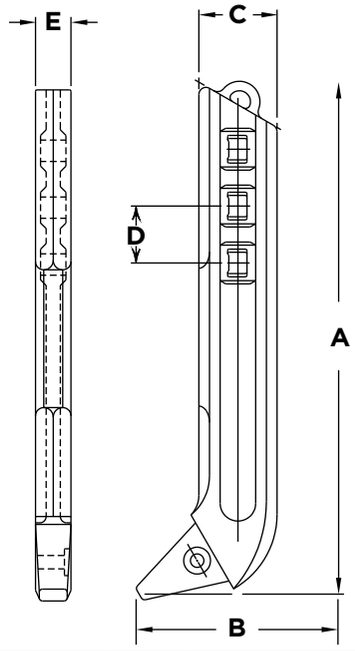
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Note: Measurements are in inches.

BOX RIPPER SYSTEMS FOR EXCAVATORS
Caterpillar Style



RIPPER BOXES																
Box	Dimensions														Weight	
	A		B		C		D		E		F		G			
	″	mm	″	mm	″	mm	″	mm	″	mm	″	mm	″	mm	lb	kg
B200	6.0	152	2.5	63	14.9	378	11.9	302	8.6	218	6.8	173	10.5	267	55.0	24.9
B250	6.0	152	2.6	67	17.1	435	13.6	346	9.75	248	7.8	198	12.0	305	75.0	34.0
B300	6.0	152	3.1	79	19.1	486	15.3	389	11.2	284	8.75	222	13.5	343	105.0	47.6
B350	7.5	191	4.0	102	21.25	540	17.0	432	12.25	311	9.75	248	15.0	381	150.0	68.0
B400	7.9	202	5.25	133	25.5	648	20.4	519	14.75	375	11.75	298	18.0	457	245.0	111.1



RIPPER SHANKS													
Box	Shank	Dimensions										Weight	
		A		B		C		D		E			
		″	mm	″	mm	″	mm	″	mm	″	mm	lb	kg
B200	C200-12	31.2	792	8.0	203	4.8	122	3.5	89	2.0	51	65.0	29.5
B250	C250-14	36.75	933	10.1	257	5.5	140	4.0	102	2.5	64	95.0	43.1
B300	C300-20	40.5	1041	11.25	286	6.3	157	4.5	114	2.8	76	113.0	51.3
B350	C350-20	44.3	1143	11.2	283	6.9	175	5.0	127	3.1	79	185.0	83.9
	C350-22	46.0	1168	12.75	324	6.9	175	5.0	127	3.1	79	200.0	90.7
B400	C400-22	53.2	1372	14.0	349	8.25	210	6.0	152	3.75	95	300.0	136.1

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PARTS FOR BACKHOES & EXCAVATORS
Caterpillar Style

REPLACEMENT PARTS FOR BACKHOES & EXCAVATORS

EXCAVATOR SPECIFICATIONS			Tooth Series	ADAPTERS		
Machine Model	Stick	Bucket		Center	Left-hand	Right-hand
D3, 416, 426, 428, 436		General Purpose	J200	8J7525HX (Bottom Leg) 119-3204HX (Wrap Around)		
446, E70B			J225	6Y3224HX		
E110B, 120B		General Purpose	J250	6Y3254HX		
E180B, E220		General Purpose	J300	9W1304HX		
		Heavy Duty Rock	J350	6I6354HX	6I6356*	6I6355*
205, 206, 211, 212, 213, 214		General Purpose	J250	3G0169HX		
		Heavy Duty Rock	J300	9J8929*		
213B, 214B		General Purpose/Rock	J300	9J8929*		
215, 219		General Purpose	J300	3G6304HXC	3G6306HXL	3G6305HXR
		Heavy Duty Rock	J350	3G8354HXC	3G8356HXL	3G8355HXR
224		General Purpose	J300	9J8929*		
225		Backhoe & Mass Excavating	J350	3G8354HXC	3G8356HXL	3G8355HXR
		Heavy Duty Rock	J450	8J9141HXC	8J9140HXL	8J9139HXR
227, 229		Backhoe & Mass Excavating	J350	3G8354HXC	3G8356HXL	3G8355HXR
235		Backhoe & Mass Excavating	J450	8J9141HXC	8J9140HXL	8J9139HXR
			J460	8E6464HXC	8E6466HXL	8E6465HXR
		Heavy Duty Rock	J550			
E240, EL240			J350	6I6354HX	6I6356*	6I6355*
245		Backhoe & Mass Excavating	J550	9J0174HXC	9J0173HXL	9J0172HXR
		Front Shovel		3G9494HXC	3G9496HXL	3G9495HXR
311, 312		General Purpose	J250	6Y3254HX		
318, 320, 320L	6′-3″ - Short 9′-7″, 8′-2″ - Std. 12′- 8″ - Long	35T, 36T, 39T, 42T, 44X, 47X, 50X, 54X	J300	8E9490HX		
		24ET, 30ET, 43EX, 44ET	J350	6I6354HX	6I6356*	6I6355*
320ME	6′-3″, 7′-10″ - Short	30ET, 32ET, 37ET, 47EX, 54EX	J400	7T3404HXC	6I6406*	6I6405*
322L, 325, 325L	13′-3″ - Long		J300	8E9490HX		
	8′-8″, 10′-6″ - Std.	31T, 36T, 42T, 48T, 53X, 54X, 54T, 57MX	J350	6I6354HX	*6I6356	*6I6355
	6′-7″, 8′-3″ - Short	30ET, 36ET, 51EX, 57EMX	J460	8E6464HXC	8E6466HXL	8E6465HXR
330, 330L	15′-9″ - Long	31T, 36T, 42T, 48T, 53X, 54X, 54T, 57MX	J350	6I6354HX	6I6356*	6I6355*
		30ET, 32ET, 37ET, 46EX, 54EMX	J400	7T3404HXC	6I6406*	6I6405*
	9′-2″ - Std. 10′-10″ - Std. 11′-6″ - Std. 12′-10″ - Std.	42T, 48T, 54T, 56X, 59X, 60MX	J400	7T3404HXC	6I6406*	6I6405*
		30ET, 36ET, 51EX, 57EMX	J460	8E6464HXC	8E6466HXL	8E6455HXR
		35R				
	8′-4″ - Short	63X, 68MX		8E6464HXC	8E6466HXL	8E6455HXR
		59EX, 64EMX	J550	6I6554HXC	6I6556HXL	6I6555HXR
350, 350L			J460	8E6464HXC	8E6466HXL	8E6465HXR
			J550	6I6554HXC	6I6556HXL	6I6555HXR
375, 375L	14′-5″, 18′-1″ - Long	54T, 60T, 71X	J550	6I6554HXC	6I6556HXL	6I6555HXR
		42ET, 48ET	J600	6I6604HXC	6I6606*	6I6605*
	9′-7″ - Std. 11′-2″ - Std. 13′-5″ - Std.	60T, 66T, 80X, 87X, 94MX				
		81V, 88VMX				

*Reference only. Not available from Hensley Industries.

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REPLACEMENT PARTS FOR BACKHOES AND EXCAVATORS CONTINUED

Machine Model	WELD-ON NOSE	SIDECUTTERS				
		Blade-type Sidecutters			Combination Plate	
		Right-hand	Left-hand	Plow Bolt Assy.†	Plate	Plow Bolt Assy.†
D3, 416, 426, 428, 436	8J7525WN					
446, E70B	6Y3224WN					
E110B, 120B	9J4254WN					
E180B, E220	9J4304WN	9J1855HXR	9J1856HXL	A34-212 (3)		
	9J4354WN					
205, 206, 211, 212, 213, 214	9J4254WN					
	9J4304WN					
213B, 214B	9J4304WN					
215, 219	9J4304WN	9J1855HXR	9J1856HXL	A34-212 (3)		
	9J4354WN					
224	9J4304WN					
225	9J4354WN	8J9615HXR	8J9614HXL	A10-300 (3)	4T2886BHX	A34-314 (4)
	3G4454WN					
227, 229	9J4354WN					
235	3G4454WN	8J9615HXR	8J9614HXL	A10-300 (3)	4T2886BHX	A34-314 (4)
	8E6464WN					
E240, EL240	9J4354WN	8J9615HXR	8J9614HXL	A10-300 (3)	4T2886BHX	A34-314 (4)
245	9J4554WN	8J9825HXR	8J9826HXL	A10-312 (5)	4T6664PHX	A34-314 (4)
311, 312	9J4254WN					
318, 320, 320L	9J4304WN					
	9J4354WN	8J9615HXR	8J9614HXL	A10-300 (3)	4T2886BHX	A34-314 (4)
320ME	7T3404WN	8J9615HXR	8J9614HXL	A10-300 (3)	4T2886BHX	A34-314 (4)
322L, 325, 325L	9J4304WN	8J9615HXR	8J9614HXL	A10-300 (3)	4T2886BHX	A34-314 (4)
	9J4354WN					
	8E6464WN					
330, 330L	9J4354WN	8J9615HXR	8J9614HXL	A10-300 (3)	4T2886BHX	A34-314 (4)
	7T3404WN					
	7T3404WN					
	8E6464WN	8J9825HXR	8J9826HXL	A10-312 (5)	4T6664PHX	A34-314 (4)
	9J4554WN					
350, 350L	8E6464WN	8J9825HXR	8J9826HXL	A10-312 (5)	4T6664PHX	A34-314 (4)
	9J4554WN					
375, 375L	9J4554WN	8J9825HXR	8J9826HXL	A10-312 (5)	4T6664PHX	A34-314 (4)
	6I6604WN					

*Reference only. Not available from Hensley Industries.

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PARTS FOR LOADERS WITH WELD-ON ADAPTERS
Caterpillar Style

REPLACEMENT PARTS FOR LOADERS WITH WELD-ON ADAPTER SYSTEMS

Machine Model	Tooth Series	1 1/2 & 2-Leg Weld-on Adapters			Flush Mount Weld-on Adapters			Bottom Leg Weld-on Adapters
		Center (Straight)	Right-hand	Left-hand	Center (Straight)	Right-hand	Left-hand	
936, 938F, 941, 943	J250				1U1254HXC			3G0169HX
950, 950B, E, F	J300				1U1304HXC			9J8929*
950B, E, F, G	J350				1U1354HXC	1U1355HXR	1U1356HXL	1U1350CHX 1U1351R/LHX
951, 953	J250				1U1254HX			3G0169HX
960F, 962G	J350							1U1350CHX 1U1351R/LHX
963	J300				1U1304HXC			
963B	J350				1U1354HXC			
966, 966C, D, E, F	J350							1U1350CHX 1U1351R/LHX
966G	J350	135-9354*	135-9355HXR*	135-9356HXL*				
972G	J350	135-9354*	135-9355*	135-9356*				
973	J350	135-9354*	135-9355*	135-9356*	1U1354HXC	1U1355HXR	1U1356HXL	1U1350CHX 1U1351R/LHX
977	J350				1U1354HXC			1U1350CHX
980, 980B, C, F	J350				1U1354HXC	1U1355HXR	1U1356HXL	1U1350CHX 1U1351R/LHX
980F, G	J400	125-8404HXC	125-8405HXR	125-8406HXL	107-3404HX			
980G	J460	8E3464HXC	8E3465HXR	8E3466HXL				
983	J460	8E3464HXC			8E0464HXC			
988, 988B	J460***	8E3464HXC	8E3465HXR	8E3466HXL	8E0464HXC	8E0465HXR	8E0466HXL	
988F	J460	8E3464HXC	8E3465HXR	8E3466HXL	8E0464HXC	8E0465HXR	8E0466HXL	
988F	J550	4T7554CHX	4T7555R/LHX					
988G, 990	J550	107-3554HX 122-2554HX (w/tungsten carbide)	107-3555HX 112-2555HX (w/tungsten carbide)	107-3556HX 112-2556HX (w/tungsten carbide)	3G4554HXC	3G4555HXR	3G4556HXL	
992, 992B, C, D, G	J550	107-3554HX 122-2554HX (w/tungsten carbide)	107-3555HX 112-2555HX (w/tungsten carbide)	107-3556HX 112-2556HX (w/tungsten carbide)	3G4554HXC	3G4555HXR	3G4556HXL	
992G	J600	119-8604HX 119-8607HX (w/tungsten carbide)	119-8605HX 119-8608HX (w/tungsten carbide)	119-8606HX 119-8609HX (w/tungsten carbide)				
992G	J700	4T4704HXC	4T4705HXR	4T4706HXL				

*Reference only. Not available from Hensley Industries.

***Older J450 adapters and fasteners available.

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PARTS FOR LOADERS WITH WELD-ON ADAPTERS
Caterpillar Style

REPLACEMENT PARTS FOR LOADERS WITH WELD-ON ADAPTER SYSTEMS CONTINUED

Machine Model	Bolt-on Segments			Top Cover Plates			Bolt-on Heel Plate
	Center (Straight)	Right-hand	Left-hand	Center (Straight)	Right-hand	Left-hand	
936, 938F, 941, 943	132-1037NRHX 4T6694NRHX 4T6692NRHX 4T6691*						
950, 950B, E, F	4T6693NRHX 4T6694NRHX 132-1037NRHX						9W6747HX
950B, E, F, G	4T3015NRHX	4T9123NRHX	4T9124NRHX				9W6747HX
951, 953	4T6692NRHX 4T6694NRHX						
960F, 962G	132-4715*						9W6747HX
963							9W6748HX
963B							9W6748HX
966, 966C, D, E, F	4T6697NRHX	4T9123NRHX	4T9124NRHX				9W6749HX
966G	135-9544*	135-9545*	135-9546*				161-8573*
972G	135-9544*	135-9545*	135-9546*				161-8573*
973							7V0910HX 9W6750*
977							
980, 980B, C, F	4T3015NRHX	4T7139NRHX	4T7140NRHX				7V0910HX 9W6750*
980F, G	116-7460CHX†	116-7461RHX†	116-7462LHX†				
980G	116-7460CHX†	116-7461RHX†	116-7462LHX†				109-9215HX
983							
988, 988B	116-7460CHX†	116-7461RHX†	116-7462LHX†				6Y3609HX
988F	109-9080NRHX	109-9081NRHX	109-98082NRHX				6Y3609HX
988F	116-7460CHX†	116-7461RHX†	116-7462LHX†				6Y3609HX
988G, 990	4T6760NRHX (2 3/8") 4T6760NRH-HX (2 3/8")	4T6761NRHX (2 3/8") 4T6761NRH-HX (2 3/8")	4T6762NRHX (2 3/8") 4T6762NRH-HX (2-3/8")	195-7096HX	195-7097HX	195-7098HX	6Y3573HX (990 only)
992, 992B, C, D, G	4T6760NRHX (2 3/8") 4T6760NRH-HX (2 3/8") 109-2675NRHX (3 1/4")	4T6761NRHX (2 3/8") 4T6761NRH-HX (2 3/8") 109-2676NRHX (3 1/4")	4T6762NRHX (2 3/8") 4T6762NRH-HX (2-3/8") 109-2677NRHX (3 1/4")	195-7096HX	195-7097HX	195-7098HX	6Y3610HX
992G	4T6760NRHX (2 3/8") 4T6760NRH-HX (2 3/8") 109-2675NRHX (3 1/4")	4T6761NRHX (2 3/8") 4T6761NRH-HX (2 3/8") 109-2676NRHX (3 1/4")	4T6762NRHX (2 3/8") 4T6762NRH-HX (2-3/8") 109-2677NRHX (3 1/4")	195-7096HX	195-7097HX	195-7098HX	115-1548* 115-1549*
992G	4T6760NRHX (2 3/8") 4T6760NRH-HX (2 3/8") 109-2675NRHX (3 1/4")	4T6761NRHX (2 3/8") 4T6761NRH-HX (2 3/8") 109-2676NRHX (3 1/4")	4T6762NRHX (2 3/8") 4T6762NRH-HX (2-3/8") 109-2677NRHX (3 1/4")	195-7096HX	195-7097HX	195-7098HX	115-1548* 115-1549*

*Reference only. Not available from Hensley Industries.

***Older J450 adapters and fasteners available.

†Replaces 9W5734NRHX, 9W5737NHHX, 9W573ONRHX

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PARTS FOR LOADERS WITH BOLT-ON ADAPTERS
Caterpillar Style

REPLACEMENT PARTS FOR LOADERS WITH BOLT-ON ADAPTER SYSTEMS						
Machine Model	**Tooth Series**	**Bolt-on Adapters**			**Bolt-on Segments **Straight Lip**	**Bolt-on Heel Plate**
		Center	**Left-hand Corner**	**Right-hand Corner**		
416, 426, 428, 436, 438	J200	9W6207HX				
446	J225	6Y3224HX (weld-on)				
910, 914	J200	9J4207HX	5G2806*	5G2807*	128-2873* 128-2872*	
IT12, IT14, IT24F, IT26, IT28, IT38	J250	1U257HX	3G4258HX (1 hole) 6I9250* (2 hole)	3G4259HX (1 hole) 6I9251* (2 hole)	132-1037NRHX 8E4569*	
916, 918F, 920, 924F, 926, 928, 930	J250	1U257HX	3G4258HX (1 hole) 6I9250* (2 hole)	3G4259HX (1 hole) 6I9251* (2 hole)	4T6694NRHX 4T6693NRHX 8E4569*	
931, 933, 935	J200	9J4207HX	1U2208*	1U2209*		
	J225	6Y6227*	6Y6228*	6Y6229*	6Y6362*	
936, 938F/G, 939, 941, 943, 951, 953, 953B/C	J250	1U257HX	3G4258HX (1 hole) 8E9250* (2 hole)	3G4259HX (1 hole) 8E9251* (2 hole)	132-1037NRHX 4T6692NRHX 4T6691*	
935B/C, 955	J300	1U307HX	3G4308HX (1 hole) 8E5308* (2 hole)	3G4309HX (1 hole) 8E5309* (2 hole)	4T6694NRHX	
955	J300	4T4307HX	3G4308HX (1 hole) 8E5308* (2 hole)	3G4309HX (1 hole) 8E5309* (2 hole)		
944, 950	J300	1U307HX	3G4308HX (1 hole) 8E5308* (2 hole)	3G4309HX (1 hole) 8E5309* (2 hole)	4T6693NRHX 4T6694NRHX 132-1037NRHX	9W6747HX

*Reference only. Not available from Hensley Industries.

**Specific segment is based on width of bucket.

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PARTS FOR LOADERS WITH BOLT-ON ADAPTERS
Caterpillar Style

REPLACEMENT PARTS FOR LOADERS WITH BOLT-ON ADAPTER SYSTEMS						
Machine Model	**Tooth Series**	**Bolt-on Adapters**			**Bolt-on Segments **Straight Lip**	**Bolt-on Heel Plate**
		Center	**Left-hand Corner**	**Right-hand Corner**		
950B, E, F, G	J300	4T4307HX	3G4308HX (1 hole) 8E5308* (2 hole)	3G4309HX (1 hole) 8E5309* (2 hole)	132-1037NRHX 132-4715*	9W6747HX
960F	J350	3G3357HX	3G5358HX (1 hole) 8E5359 (2 hole)	3G5359HX (1 hole) 8E5358 (2 hole)		9W6747HX
960F	J300	4T4307HX	8E5308*	8E5309*		9W6747HX
962G, 963, 963B	J300	4T4307HX	8E5308*	8E5309*	4T6693NRHX 4T6694NRHX 132-4715*	9W6747HX (962) 9W6748HX (963)
963B	J350	3G7357HX	3G5358HX (1 hole) 8E5359 (2 hole)	3G5359HX (1 hole) 8E5358 (2 hole)	4T6696NRHX 4T6697NRHX	9W6748HX
966C	J300	8J307HX				
966C	J300	3G9307HX	3G8308HX (1 hole)	3G8309HX (1 hole)		
966C	J350	3G3357HX	3G5358HX (1 hole) 8E5358* (2 hole)	3G5359HX (1 hole) 8E5359* (2 hole)		
966D, E, F, G, 970, 970F, 972G	J350	3G3357HX	3G5358HX (1 hole) 8E5358* (2 hole)	3G5359HX (1 hole) 8E5359* (2 hole)	4T6698NRHX 4T6699NRHX 100-6666NRHX	9W6749
973, 977	J350	3G3357HX	3G5358HX (1 hole) 8E5358* (2 hole)	3G5359HX (1 hole) 8E5359* (2 hole)	4T6696NRHX	7V0910HX 9W6750*
980, 980B, C	J350	3G2357HX				
980C, F	J350	3G1357HX	1U1358HX	1U1359HX	4T6700NRHX 4T6700HX (reversible)	7V0910HX 9V6109* 9W6750*
980F, G	J400	6I9898HX	6I8244*	6I8243*	109-9019NRHX	109-9215HX

*Reference only. Not available from Hensley Industries.

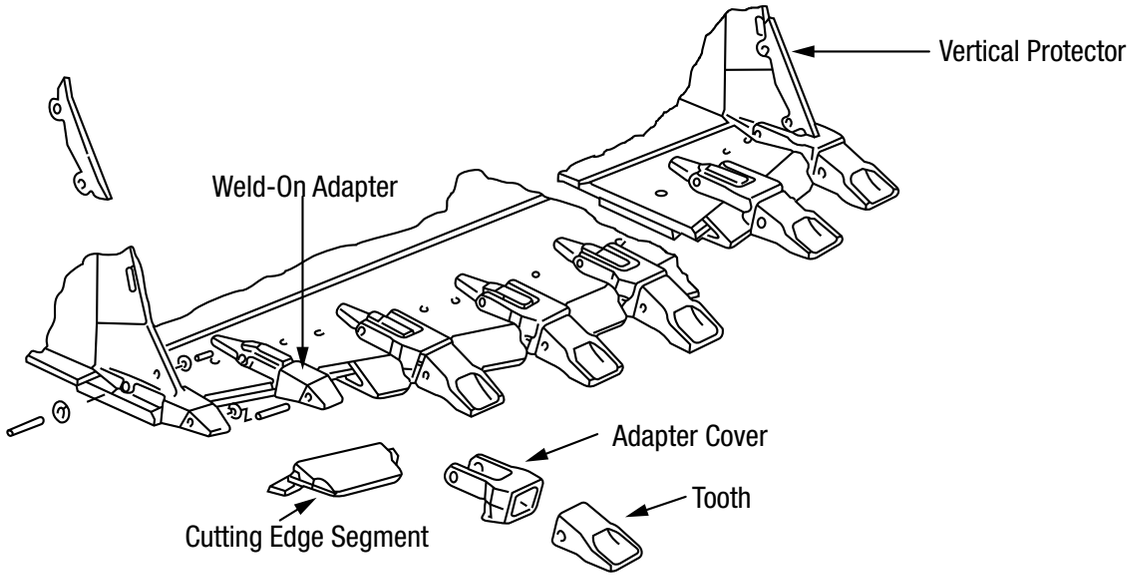
**Specific segment is based on width of bucket.

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MODULOK PARTS FOR LOADERS
Caterpillar Style

REPLACEMENT MODULOK PARTS FOR LOADERS

- Vertical Protectors - Pinned-on to protect bucket cheek plate from wear. Interchangeable from cheek to cheek.
- Flush Mounted Adapters - Welded in place to provide a sturdy base for replaceable teeth, adapter covers, and edge segments. These adapters provide a smooth, flat working surface, reducing tire costs, and allowing faster clean-up. Available in standard & heavy versions.
- Adapter Covers - Protect adapter, reducing the need for adapter replacement. Covers are side-pinned, allowing for quick changes.
- Teeth - Standard heavy teeth or "RP2" style teeth available.
- Cutting Edge Segments - Protect the leading edge of the support assembly. Bucket life is extended, and penetration improved. Edges wrap under support to protect bucket bottom. Available in standard & heavy versions.



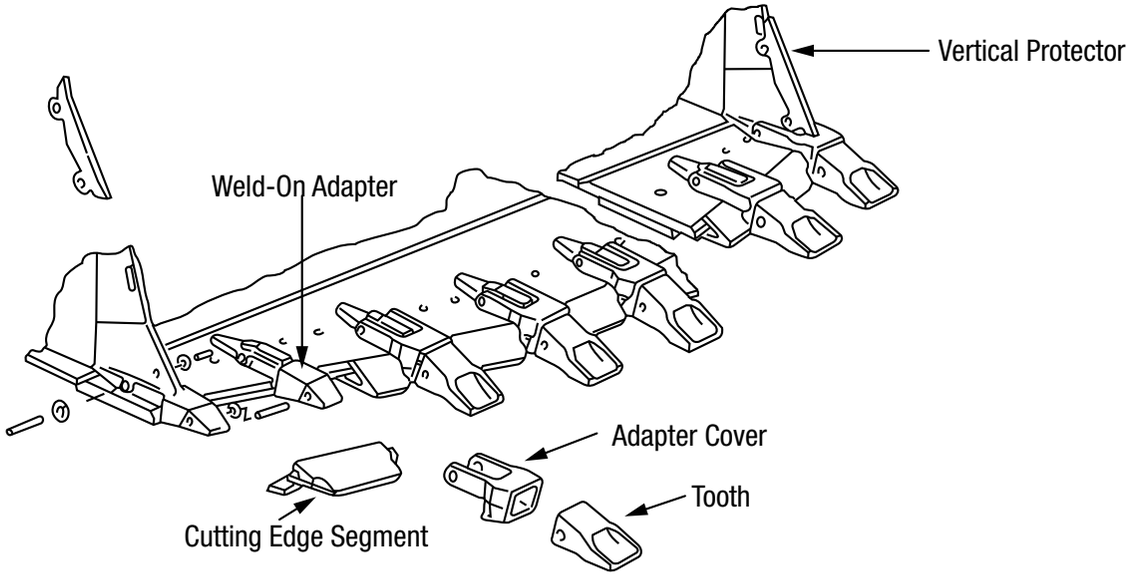
REPLACEMENT MODULOK PARTS FOR LOADERS

Machine			Adapters		Standard Edge Segments			Standard Adapter Cover	HD Edge Segments		
Model	Lip Width		Center	Corner	Center	Right-hand	Left-hand		Center	Right-hand	Left-hand
	"	mm									
988B	143.5	3645	8J6396HX or 8E1464HXC (7)	8J6397HX or 8E1465HX (2)	9J4429HX (2)	8J8222HX (3)	8J8223HX (3)	8J6398HX (9)	9U9332CHX (2)	9U9334RHX (3)	9U9333LHX (3)
988F	143.0	3623	8E1464HXC (7)	8E1465HX (2)	-	-	-	-	9U9664CHX (2)	9U9334RHX (3)	9U9333LHX (3)
990	167.7	4260	1U1554HX (6)	1U1554HX (2)	-	-	-	-	8E9514HX (1)	102-9680RHX (3)	102-9681LHX (3)
992	181.0	4597	1U1554HX (7)	1U1554HX (2)	8J3962HX (2)	9J9973HX (3)	9J9974HX (3)	1U0741HX (9)	-	-	-
992	187.0	4750	1U1554HX (7)	1U1554HX (2)	1U0869HX (2)	9J9973HX (3)	9J9974HX (3)	1U0741HX (9)	8E9514HX (2)	8E9515HXR (3)	8E9516HXL (3)
992G (HD Mining System)	187.0	4750	119-9604HX (6)	119-9605HX (2)	-	-	-	Center 133-0734HX (6) Corner 133-0735HX (2)	-	-	-

Note: For 988 Modulok teeth fasteners, different size pins and washers are to be used based on pin hole size in adapter.

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MODULOK PARTS FOR LOADERS
Caterpillar Style



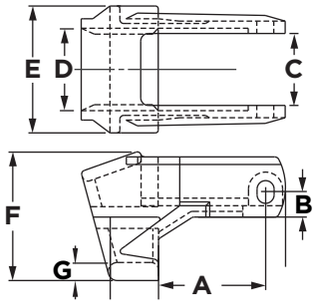
REPLACEMENT MODULOK PARTS FOR LOADERS CONTINUED

Machine	HD Adapter Cover	Adapter Cover Fasteners		Vertical Protector			Teeth/Fasteners			
Model		Pin	Washer	Protector Part No.	Fasteners		Teeth		Fasteners	
					Pin	Washer	HD	RP-2	Pin	Washer
988B	9U9331HX (9)	6Y2527P (9)	6Y9459W (9)	9J9600HX (2)	9J8442P (4)	6Y9459W (4)	9N4452HX (9)	9W1453RP2 (9)	6Y2527P (9) or 8E0468P (9)	6Y9459W (9) or 8E0469W (9)
988F	9U9331HX (9)	6Y2527P (9)	6Y9459W (9)	9J9600HX (2)	9J8442P (4)	6Y9459W (4)	9N4552HX (9)	9W1453RP2 (9)	8E0468P (9)	8E0469W (9)
990	8E9543HX (8)	6Y8558P (8)	8E5559W (8)	1U0740HX (2)	1U0739P (4)	8E5559W (4)	9N4552HX (8)	9W1553RP2 (8)	6Y8558P (8)	8E5559W (8)
992	8E9543HX (9)	6Y8558P (9)	8E5559W (9)	1U0740HX (2)	1U0739P (4)	8E5559W (4)	9N4552HX (9)	9W1553RP2 (9)	6Y8558P (9)	8E5559W (9)
992	8E9543HX (9)	6Y8558P (9)	8E5559W (9)	1U0740HX (2)	1U0739P (4)	8E5559W (4)	9N4552HX (9)	9W1553RP2 (9)	6Y8558P (9)	8E5559W (9)
992G (HD Mining System)	-	616608P (9)	6I6609W (9)	1U0740HX (2)	1U0739P (4)	8E5559W (4)	7Y0602HX (9)	6I6602RP2 (9)	6I6608P (9)	6I6609W (9)

Note: For 988 Modulok teeth fasteners, different size pins and washers are to be used based on pin hole size in adapter.

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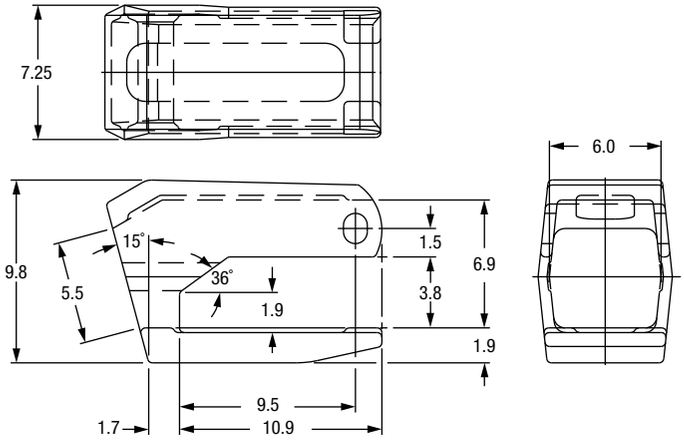
MODULOK PARTS FOR LOADERS
Caterpillar Style



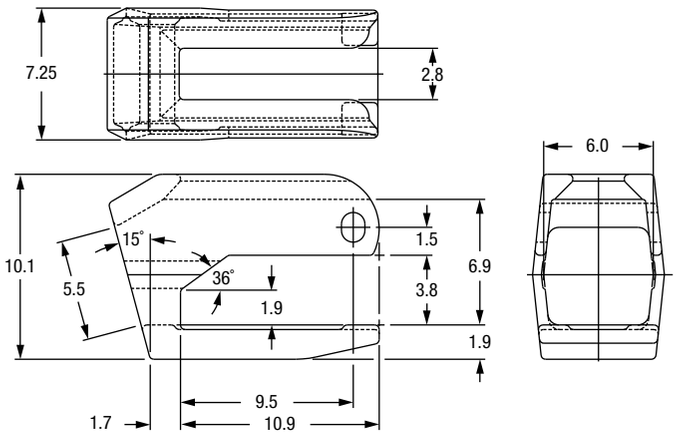
MODULOK ADAPTER COVERS																	
Adapter Cover Part No.	Dimensions														Weight		Fasteners	
	A		B		C		D		E		F		G				Pin	Washer
	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	lb	kg		
8J6398HX	6.1	156	1.0	25	2.3	59	4.1	105	7.1	181	5.75	146	1.2	30	22.4	10.2	6Y2527P	6Y9459W
1U0741HX	8.4	213	1.7	43	4.75	121	4.7	119	8.4	213	8.5	216	1.2	30	41.7	18.9	6Y8558P	8E5559W
9U9331HX	6.1	156	1.0	25	2.25	57	3.9	100	7.2	183	7.0	178	1.6	40	25.9	11.7	6Y2527P	6Y9459W
8E9543HX	7.25	184	1.7	43	4.6	117	4.8	122	8.4	213	8.7	221	1.7	43	46.1	20.9	6Y8558P	8E5559W

MODULOK ADAPTER COVERS

133-0734HX
Center
77.0 lb / 34.9 kg
Uses 6I6608P pin and 6I6609W washer



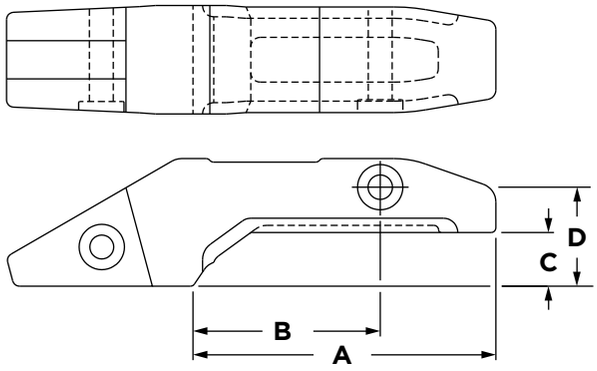
133-0735HX
Corner
73.0 lb / 33.1 kg
Uses 6I6608P pin and 6I6609W washer



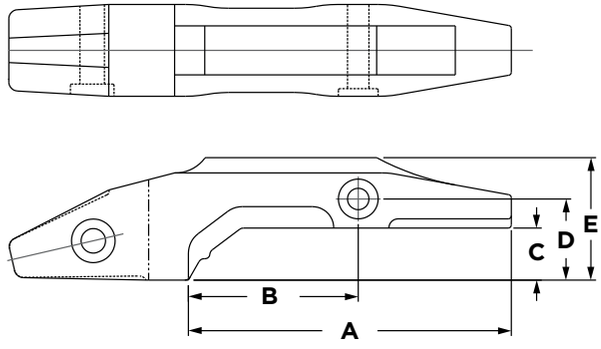
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Note: Measurements are in inches.

MODULOK PARTS FOR LOADERS
Caterpillar Style



Type 1
(Center)

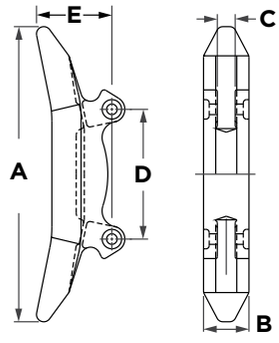


Type 2
(Corner)

MODULOK FLUSH MOUNT ADAPTERS												
Part No.	Type	Dimensions										Weight
		A		B		C		D		E		
		″	mm	″	mm	″	mm	″	mm	″	mm	lb	kg
8E1464HXC	1	13.2	335	6.9	176	2.1	54	3.3	84	-	-	51.0	23.1
8E1465HX	2	13.2	335	6.9	176	2.1	54	3.3	84	5.0	127	52.7	23.9
1U1554HX	1	17.0	432	8.0	203	2.6	67	4.75	121	-	-	112.0	50.8
119-9605HX	1	15.9	403	9.8	249	2.8	71	5.2	132	-	-	141.0	63.9
119-9604HX	1	18.9	479	9.8	249	2.8	71	5.2	132	-	-	144.0	65.3

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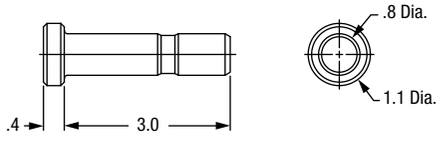
MODULOK PARTS FOR LOADERS
Caterpillar Style



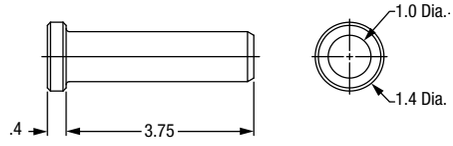
MODULOK VERTICAL PROTECTORS														
Part No.	Dimensions										Weight		Fasteners	
	A		B		C		D		E					
	″	mm	″	mm	″	mm	″	mm	″	mm	lb	kg	Pin	Washer
8J6399HX	20.5	521	3.4	86	1.4	35	10.0	254	5.5	140	33.4	15.2	9J8442P	6Y9459W
9J9600HX	22.75	578	3.5	89	1.4	35	10.0	254	5.8	148	38.0	17.2	9J8442P	6Y9459W
1U0740HX	23.5	597	3.5	89	2.1	54	11.5	292	5.25	133	49.0	22.2	1U0739P	8E5559W

VERTICAL PROTECTOR PINS

9J8442P
0.8 lb / 0.4 kg
Requires a 6Y9459W steel washer.



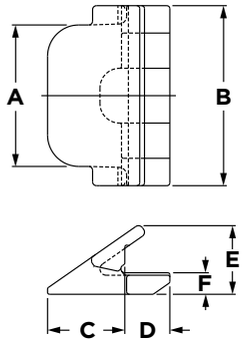
1U0739P
1.0 lb / 0.4 kg
Requires a 8E5559W steel washer.



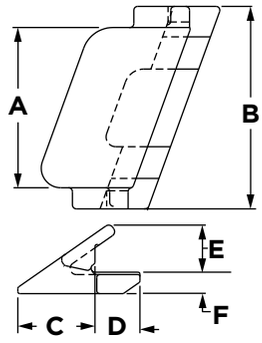
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Note: Measurements are in inches.

MODULOK PARTS FOR LOADERS
Caterpillar Style



Type 1
(Center)



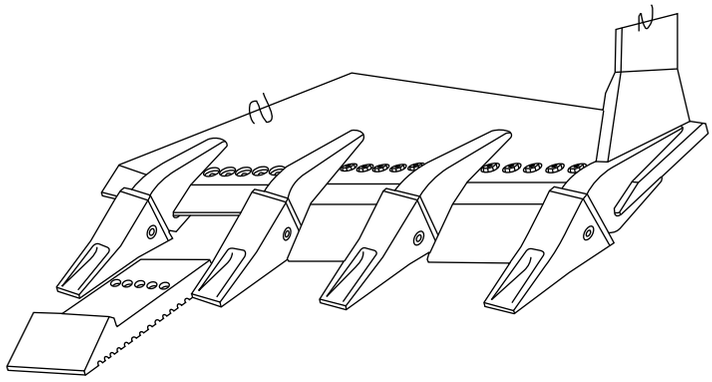
Type 2
(RH Shown, LH Opposite)

MODULOK EDGE SEGMENTS

Part No.	Type	Dimensions												Weight	
		A		B		C		D		E		F			
		"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	lb	kg
9J4429HX	1	9.0	229	11.5	292	3.7	94	2.6	65	3.4	86	0.7	17	29.6	13.4
8J8222HX(RH) & 8J8223HX(LH)	2	10.2	259	13.0	330	3.5	89	2.75	70	3.25	83	0.7	17	35 ea.	15.9 ea.
9U9332CHX	1	9.0	229	11.5	292	4.9	124	3.1	78	3.0	76	1.5	38	39	17.7
9U9333LHX & 9U9334RHX	2	10.5	267	13.0	330	4.0	102	3.25	83	3.1	79	1.5	38	40.7 ea.	18.4 ea.
9U9664CHX	1	11.5	292	14.0	356	4.7	119	3.1	78	2.7	68	1.5	38	46.5	21.1
1U0869HX	1	15.9	403	18.5	470	3.4	87	3.8	97	3.6	90	0.75	19	63.3	28.7
102-9681LHX & 102-9680RHX	2	16.0	406	18.6	473	6.0	152	3.0	76	3.1	79	1.25	32	72	32.7
8J3962HX	1	13.1	333	15.5	394	4.8	122	3.1	78	3.0	76	1.5	38	57.3	25.9
9J9973HX (RH) & 9J9974HX (LH)	2	14.3	364	17.1	433	4.6	116	2.3	135	3.1	79	0.9	22	53.2 ea.	24.1 ea.
8E9514HX	1	15.75	400	18.4	467	5.5	140	2.6	65	3.4	86	1.75	44	83	37.6
8E9516HXL & 8E9515HXR	2	14.25	362	17.1	433	5.0	127	2.6	67	3.1	79	1.75	44	69 ea.	31.3 ea.

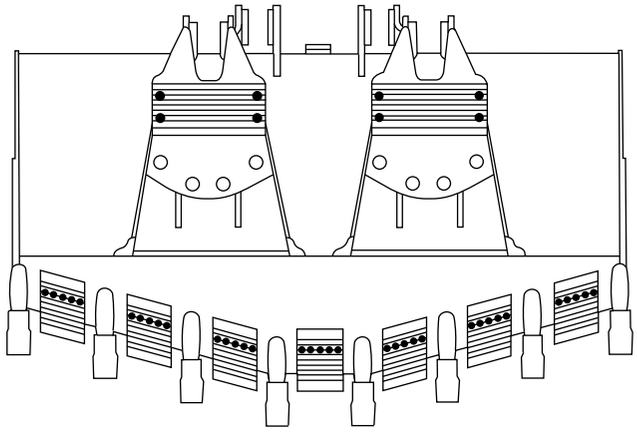
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BOLT-ON PARTS FOR LOADERS
Caterpillar Style



BOLT-ON SEGMENTS & HEEL PLATES FOR LOADERS

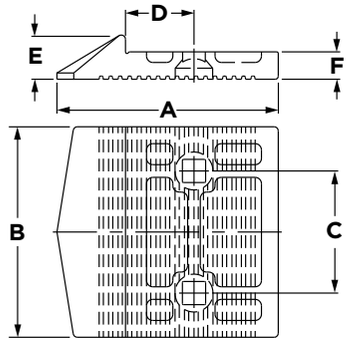
- Durable heat-treated steel castings thru-hardened to 500 Brinnell
- Half arrow design increases penetration and protects the leading edge
- Ribbed-bottom design traps material to reduce wear
- Thicker material on the bottom extends wear life



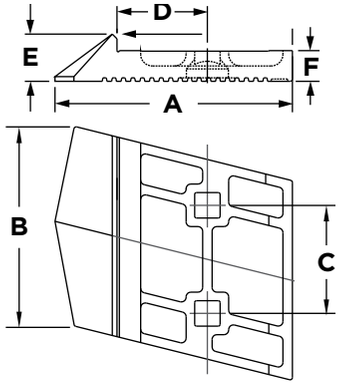
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BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style



Type 1
(Center)



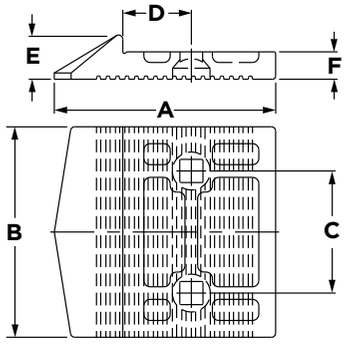
Type 2
(RH Shown, LH Opposite)

BOLT-ON HALF ARROW SEGMENT DETAILS

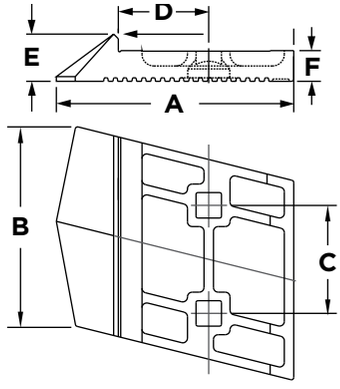
Part No.	Type	Dimensions							
		A		B		C		D	
		"	mm	"	mm	"	mm	"	mm
100-6666NRHX	1	12.25	311	11.6	294	8.0	203	3.9	98
109-9019NRHX	1	13.1	333	12.5	318	7.25	184	4.1	103
132-1037NRHX	1	9.9	252	10.4	263	7.7	195	3.2	80
135-9544HX	1	15.75	400	11.8	300	4.75	121	5.0	127
135-9545HX & 135-9546HX	2	15.75	400	12.0	305	7.6	19.4	5.0	127
4T3015NRHX	1	12.6	319	10.1	257	5.3	135	4.75	121
4T6692NRHX	1	10.25	261	7.75	197	4.9	125	3.2	81
4T6693NRHX	1	10.25	261	8.5	216	5.5	140	3.2	81
4T6694NRHX	1	10.25	261	9.0	229	6.1	156	3.2	81
4T6696NRHX	1	12.6	319	7.6	192	3.6	90	3.9	100
4T6697NRHX	1	12.6	319	8.4	213	4.75	121	4.75	121
4T6698NRHX	1	12.25	311	9.5	241	5.5	140	3.9	98
4T6699NRHX	1	12.25	311	10.6	270	7.1	179	3.9	98
4T6700NRHX	1	12.3	313	11.4	289	6.3	289	3.9	98
4T7139NRHX & 4T7140NRHX	2	12.6	319	12.0	305	5.3	135	4.75	121
4T9123NRHX & 4T9124NRHX	2	12.6	319	10.6	268	5.75	146	4.75	121

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BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style



Type 1
(Center)



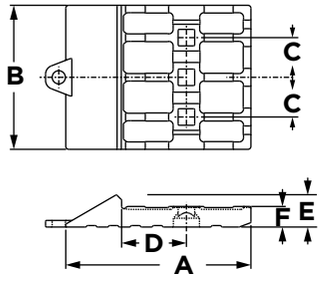
Type 2
(RH Shown, LH Opposite)

BOLT-ON HALF ARROW SEGMENT DETAILS CONTINUED

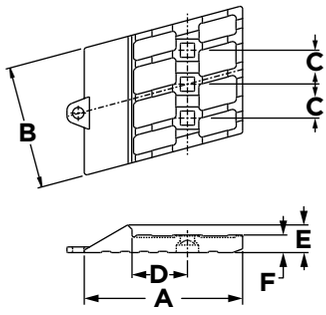
Part No.	Dimensions				Weight		Plow Bolts		
	E		F				Size	Assy. No.	Qty.
	"	mm	"	mm	lb	kg	"		
100-6666NRHX	2.5	64	1.6	41	44.0	19.9	1 1/4 x 4 1/2	A114-412	2
109-9019NRHX	2.6	67	1.6	41	58.0	26.3	1 1/4 x 4 1/2	A114-412	2
132-1037NRHX	2.0	25	1.1	29	25.0	11.3	1 x 3	A10-300	2
135-9544HX	2.8	71	1.75	44	76.6	34.7	1 1/4 x 3 1/4	n/a	2
135-9545HX & 135-9546HX	2.8	71	1.75	44	78.6	35.7	1 1/4 x 3 1/4	n/a	2
4T3015NRHX	2.5	64	1.6	41	40.0	18.1	1 1/4 x 4	A114-400	2
4T6692NRHX	2.1	54	1.5	38	23.5	10.7	1 x 3	A10-300	2
4T6693NRHX	2.1	54	1.5	38	26.0	11.8	1 x 3	A10-300	2
4T6694NRHX	2.1	54	1.5	38	27.1	12.3	1 x 3	A10-300	2
4T6696NRHX	2.5	63	1.6	41	30.3	13.8	1 1/4 x 3	A114-300	2
4T6697NRHX	2.5	64	1.6	41	33.9	15.4	1 1/4 x 4	A114-400	2
4T6698NRHX	2.5	64	1.6	41	35.5	16.1	1 1/4 x 4	A114-400	2
4T6699NRHX	2.5	64	1.6	41	42.5	19.3	1 1/4 x 4	A114-400	2
4T6700NRHX	2.5	64	1.6	41	46.0	20.9	1 1/4 x 4	A114-400	2
4T7139NRHX & 4T7140NRHX	2.5	64	1.6	41	46.1 ea.	20.9 ea.	1 1/4 x 4	A114-400	2
4T9123NRHX & 4T9124NRHX	2.5	64	1.6	41	45.2 ea.	20.5 ea.	1 1/4 x 4	A114-400	2

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BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style



Type 1
(Center)



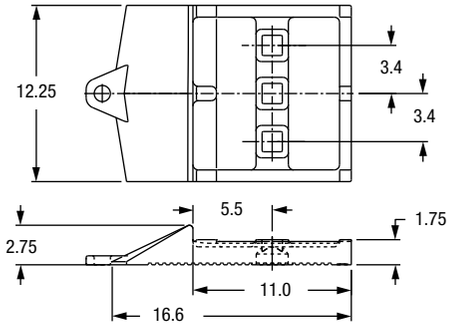
Type 2
(RH Shown, LH Opposite)

BOLT-ON HALF ARROW SEGMENT DETAILS

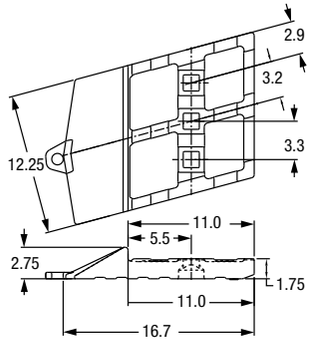
Part No.	Type	Dimensions												Weight		Plow Bolts		
		A		B		C		D		E		F				Size	Assy. No.	Qty.
		"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	lb	kg	"		
1099080NRHX	1	15.6	397	13.5	343	3.4	86	5.4	136	2.75	70	1.75	44	83.0	37.6	1 1/4 x 4	A114-400	3
1099081NRHX & 1099082NRHX	2	15.6	397	13.5	343	3.4	86	5.4	136	2.75	70	1.75	44	86.0	39.0	1 1/4 x 4	A114-400	3
9W5734NRHX	1	15.6	397	12.25	311	3.4	86	5.4	137	2.75	70	1.75	44	64.0	29.0	1 1/4 x 4	A114-400	3
9W5730NRHX & 9W5737NRHX	2	15.6	397	12.7	322	3.4	86	5.4	137	2.75	70	1.75	44	68.0	30.8	1 1/4 x 4	A114-400	3

BOLT-ON HALF ARROW SEGMENT DETAILS

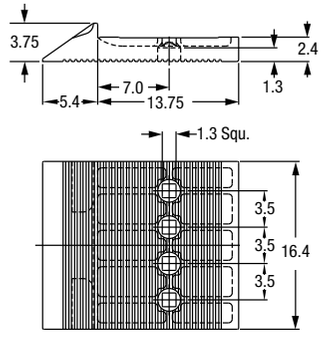
116-7460CHX (Center)
75.5 lb / 34.2 kg
Requires (3) 1 1/4 x 4 Plow Bolts*



116-7462LHX (LH Shown)
116-7461RHX (RH Opposite)
75.5 lb / 34.2 kg ea.
Requires (3) 1 1/4 x 4 Plow Bolts*



4T6760NRHX (Center)
168.0 lb / 76.2 kg
Requires (4) 1 1/4 x 4 Plow Bolts*



*Plow bolt assembly Part No. A114-100.

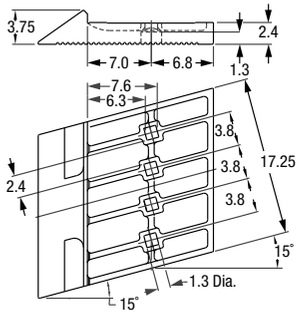
Note: Measurements are in inches.

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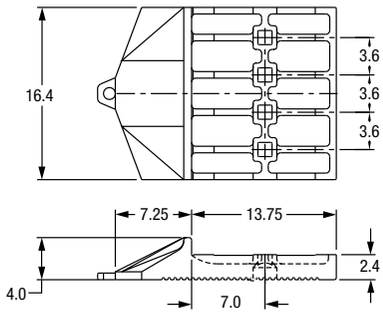
BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style

BOLT-ON HALF ARROW SEGMENT DETAILS

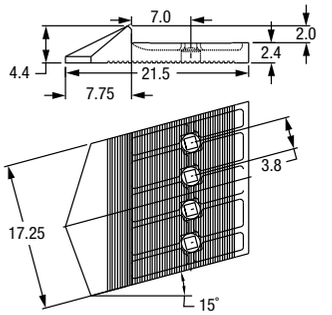
4T6762NRHX (LH Shown)
4T6761NRHX (RH Opposite)
175.0 lb / 79.3 kg ea.
Requires (4) 1 1/4 x 4 Plow Bolts*



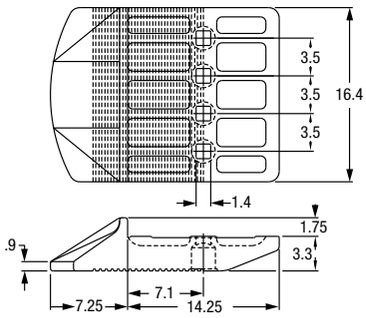
4T6760NRHHX (Center)
179.0 lb / 81.2 kg
Requires (4) 1 1/4 x 4 Plow Bolts*



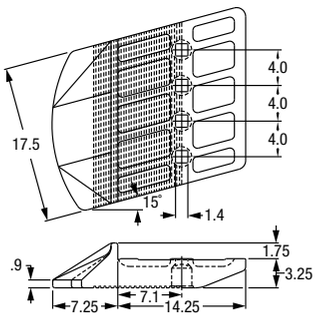
4T6762NRHHX (LH Shown)
4T6761NRHHX (RH Opposite)
195.0 lb / 88.5 kg
Requires (4) 1 1/4 x 4 Plow Bolts*



109-2675NRHX (Center)
246.0 lb / 111.6 kg
Requires (4) 1 1/4 x 4 1/2 Plow Bolts**

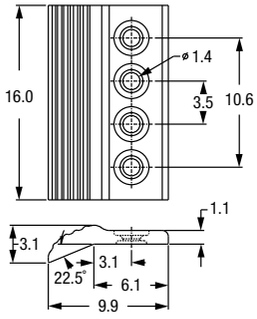


109-2677NRHX (LH Shown)
109-2676NRHX (RH Opposite)
268.0 lb / 121.7 kg
Requires (4) 1 1/4 x 4 1/2 Plow Bolts**

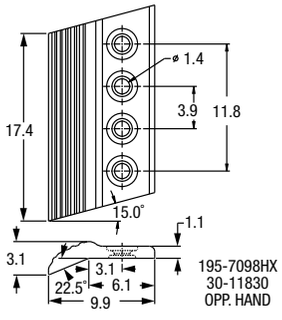


TOP COVER PLATES

195-7096HX (Center)
50.0 lb / 22.7 kg
Used with the following segments:
4T6760NRHX: 4T6760NRH-HX
109-2675NRHX



195-7097HX (RH Shown)
195-7098HX (LH Opposite)
56.5 lb / 25.7 kg ea.
Used with the following segments:
4T6761NRHX & 4T6762NRHX
4T6761NRH-HX & 4T6762NRH-HX
109-2676NRHX & 109-2677NRHX



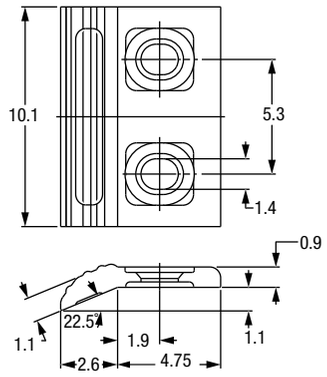
* Plow bolt assembly Part No. A114-400
** Plow bolt assembly Part No. A114-412
Note: Measurements are in inches.

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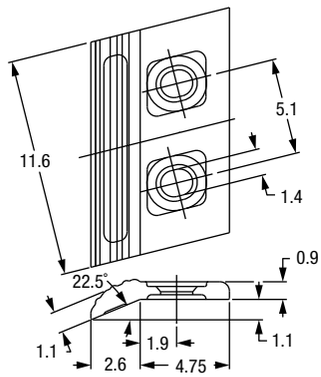
BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style

TOP COVERS

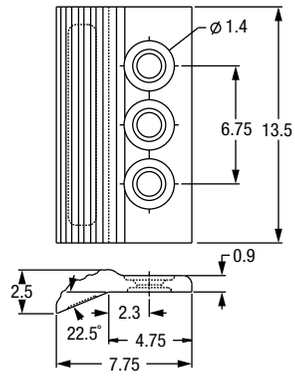
4T3015TC (Center)
17.5 lb / 7.9 kg



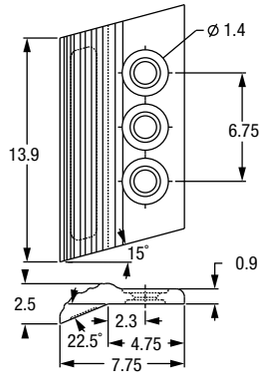
4T7139TC (RH Shown)
4T7140TC (LH Opposite)
21.3 lb / 9.7 kg



195-7180HX (Center)
27.8 lb / 12.6 kg



195-7181HX (RH Shown)
195-7182HX (LH Opposite)
29.5 lb / 13.4 kg



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BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style

TOP COVERS						
Machine	Top Cover			Top Cover Lip Assembly	# of Holes	Plow Bolt Assembly
	Center	Right	Left	Degree		
980B	4T3015TC	4T7139TC	4T7140TC	22	2	AC114600TC
980F, G	195-7180HX	195-7181HX	195-7182HX	22	3	AC114600TC
980F, G	195-7180HX	195-7181HX	195-7182HX	22	3	AC114600TC
980G, 988B	195-7180HX	195-7181HX	195-7182HX	22	3	AC114600TC
988, 988B	195-7180HX	195-7181HX	195-7182HX	22	3	AC114600TC
988F	195-7180HX	195-7181HX	195-7182HX	22	3	AC114600TC
	195-7180HX	195-7181HX	195-7182HX	22	3	AC114600TC
	195-7180HX	195-7181HX	195-7182HX	22	3	AC114600TC
	195-7180HX	195-7181HX	195-7182HX	22	3	AC114600TC
988H	233-7167HX(FD)	253-0192HX(FD)	253-0191HX(FD)	35	3	AC114600TC
	257-1778HX(FD)	257-1779HX(FD)	257-1781HX(FD)	25	4	AC114700TC
	264-2096HX(FD)	264-2097HX(FD)	264-2098HX(FD)	26	4	AC114700TC
988G, 990	195-7096HX	195-7097HX	195-7098HX	22	4	AC114700TC
				22	4	AC114700TC
992, 992B, C, D, G	195-7096HX	195-7097HX	195-7098HX	22	4	AC114700TC

(FD) = Future Development

SEGMENTS				
Machine	Segment			Plow Bolt Assembly
	Center	Right	Left	
980B	4T3015NRHX (257)	4T7139NRHX (305)	4T7140NRHX (305)	AC114600TC
980F, G	116-7460CHX (311)	116-7461RHX (311)	116-7462LHX (311)	AC114600TC
980F, G	9W5734NRHX (311)	9W5737NRHX (322)	9W5730NRHX (322)	AC114600TC
980G, 988B	116-7460CHX (311)	116-7461RHX (311)	116-7462LHX (311)	AC114600TC
988, 988B	116-7460CHX (311)	116-7461RHX (311)	116-7462LHX (311)	AC114600TC
988F	9W5734NRHX (311)	9W5737NRHX (343)	9W5730NRHX (322)	AC114600TC
	116-7460CHX (311)	116-7461RHX (311)	116-7462LHX (311)	AC114600TC
	109-9080NRHX (343)	109-9081NRHX (343)	109-9082HCG (343)	AC114600TC
	109-9080HCG (343)	109-9081HCG (355)	109-9082HCG (343)	AC114600TC
988H	109-9080HCG (343)	109-9081HCG (355)	109-9082NRHX (343)	AC114600TC
	257-1782HX (406)	257-1783HX (406)	257-1784HX (406)	AC114700TC
	264-2090HX (470)	264-2091HX (498)	264-2092HX (498)	AC114700TC
988G, 990	4T6760NRHX (416) 4T6760NRHHX (416)	4T6761NRHX (438) 4T6761NRHHX (438)	4T6762NRHX (438) 4T6762NRHHX (438)	AC114700TC AC114700TC
992, z992B, C, D, G	4T6760NRHHX (416) 4T6760NRHX (416) 109-2675NRHX (416)	4T6761NRHX (438) 4T6761NRHHX (438) 109-2676NRHX (444)	4T6762NRHX (438) 4T6762NRHHX (438) 109-2677NRHX(444)	AC114700TC

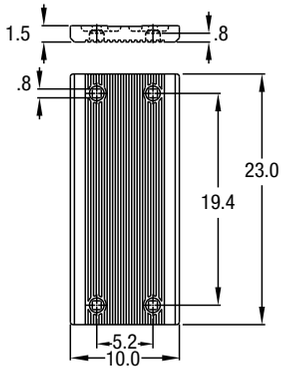
(FD) = Future Development

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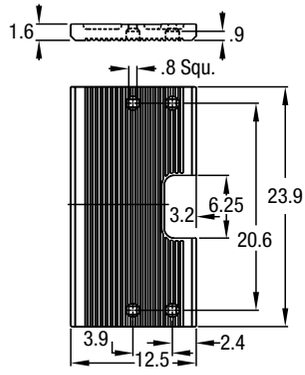
CAST BOLT-ON HEEL PLATES FOR LOADERS
Caterpillar Style

BOLT-ON HEEL PLATE DETAILS

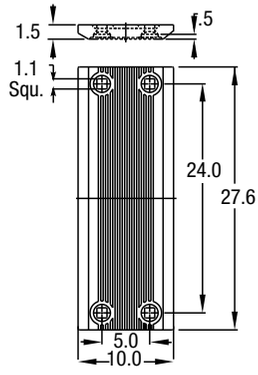
9W6749HX
76.0 lb / 34.5 kg
Requires (4) .75 x 2.5 plow bolts*



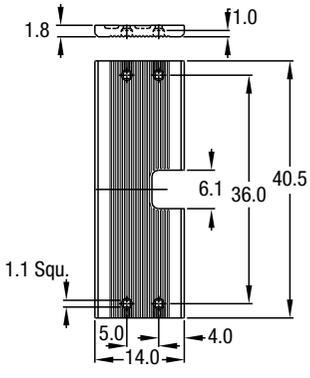
7V0910HX
101.0 lb / 45.8 kg
Requires (4) .75 x3.5 plow bolts**



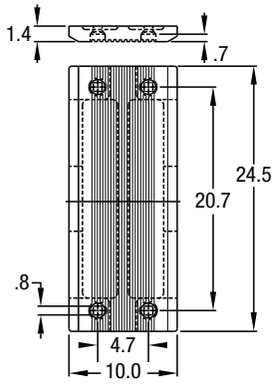
6Y3609HX
94.0 lb / 42.6 kg
Requires (4) 1.0 x 3.5 plow bolts***



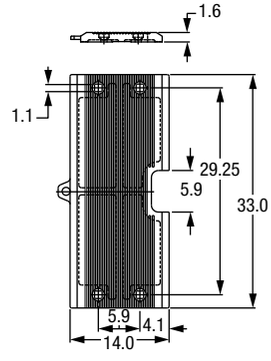
6Y3610HX
245.0 lb / 111.1 kg
Requires (4) 1.0 x 3.5 plow bolts***



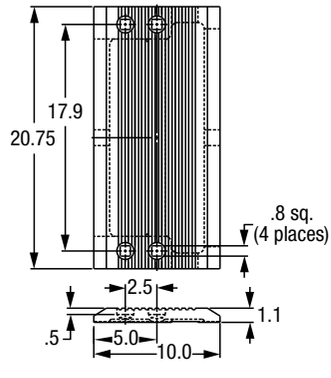
109-9215HX
84.0 lb / 38.1 kg
Requires (4) .75 x 2.5 plow bolts*



6Y3573HX
160.0 lb / 72.6 kg
Requires (4) 1.0 x 3.5 plow bolts***



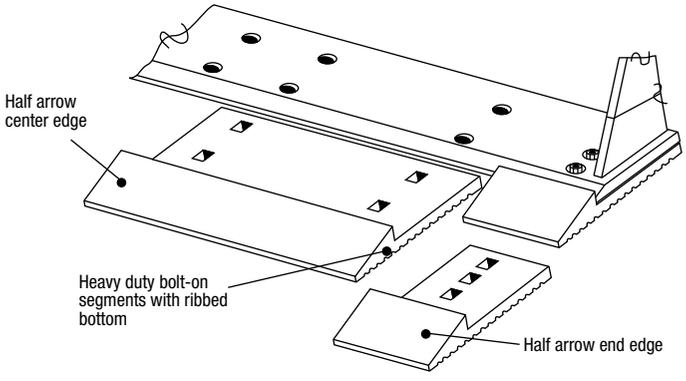
9W6747HX
46.5 lb / 21.1 kg
Requires (4) .75 x 2.5 plow bolts*



* Plow bolt assembly Part No. A34-212
** Plow bolt assembly Part No. A34-312
*** Plow bolt assembly Part No. A10-312

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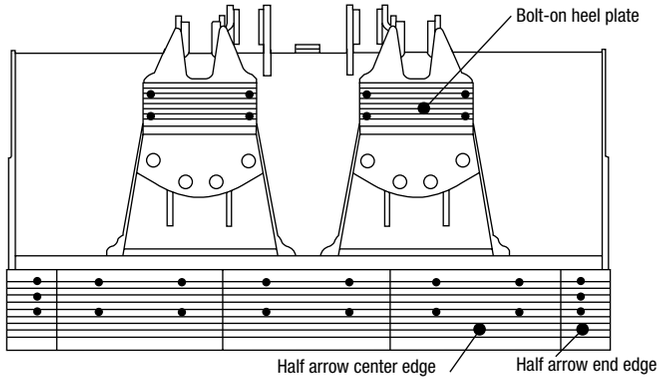
BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style

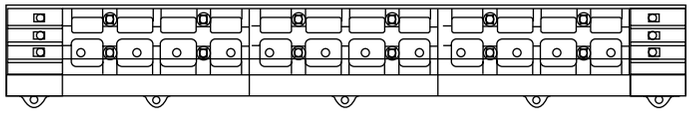


BOLT-ON HALF ARROW EDGE SYSTEMS FOR LOADERS

- Durable heat-treated steel castings thru-hardened to 500 Brinnell
- Half arrow design increases penetration and protects the leading edge
- Ribbed-bottom design traps material to reduce wear
- Thicker material on the bottom extends wear life

BOTTOM VIEW OF LOADER BUCKET





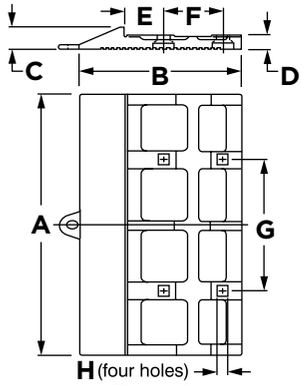
Typical Drawing

CENTER SEGMENTS					
Loader Model	Bucket Width		Part No.	Plow Bolt Assy. (no. req'd.)	Number of Segments Required
	"	mm			
980F, G	134.0	3406	109-9212NRHX	A114-412 (4)	3
980F, G	134.0	3406	109-9212NRLT	A114-412 (2)	3
980C, D, E, F	130.75	3322	1U0762NRHX	A114-412 (4)	3
980C, D, E, F	130.75	3322	1U07962NRLT	A114-412 (2)	3
970, 970F	126.0	3200	100-6668NRHX	A114-412 (4)	3
970, 970F	119.5	3035	1U0593NRHX	A114-412 (4)	3
966D, E, F	119.5	3035	1U0593NRHX	A114-412 (4)	3
962G	115.0	2921	135-9666NRHX	A10-314 (2)	3
950G	115.0	2921	135-9666NRHX	A10-314 (2)	3

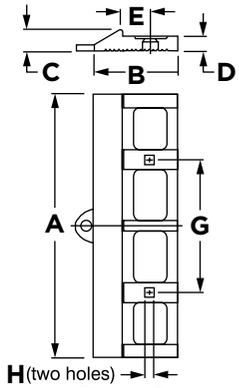
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BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style

END SEGMENTS					
Loader Model	Bucket Width		Part No.	Plow Bolt Assy. (no. req'd.)	Number of Segments Required
	"	mm			
988F, G	145.2	3688	1U0761NR2HX	A114-412 (3)	2
980F, G	134.0	3406	1U0761NRHX	A114-412 (3)	2
980C, D, E, F	130.75	3322	1U0761NRHX	A114-412 (3)	2
970, 970F	126.0	3200	3G6395RNRHX 3G6395LNRHX	A114-412 (3) "	1 1
970, 970F	119.5	3035	3G6395RNRHX 3G6395LNRHX	A114-412 (3) "	1 1
966D, E, F	119.5	3035	3G6395RNRHX 3G6395LNRHX	A114-412 (3) "	1 1
962G	115.0	2921	132-1033NRHX	A10-314 (3)	2
950G	115.0	2921	132-1033NRHX	A10-314 (3)	2
950B, E, F	108.0	2743	132-1033NRHX	A10-314 (3)	2



Type 1



Type 2

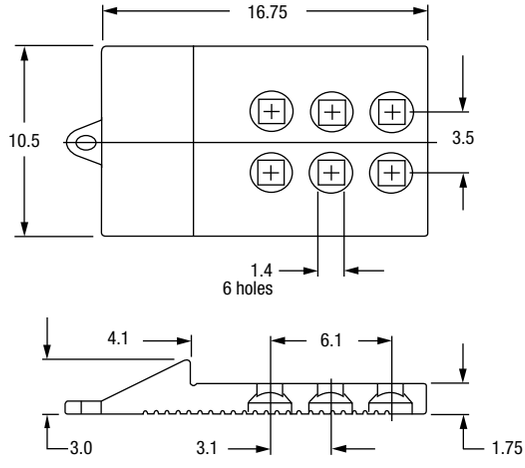
CENTER SEGMENTS																		
Part No.	Type	Dimensions																Weight
		A		B		C		D		E		F		G		H		
		"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	lb	kg
109-9212NRHX	1	37.9	964	16.75	425	3.0	76	1.75	44	4.1	103	6.2	156	19.1	485	1.4	35	265	120.0
109-9212NRLT	2	37.9	964	12.7	322	3.1	78	1.8	46	4.1	103	n/a	n/a	19.1	485	1.4	35	200	90.8
1U0762NRHX	1	36.75	933	16.75	425	3.0	76	1.75	44	4.1	103	6.2	156	18.5	470	1.4	35	256	116.0
1U0762NRLT	2	36.75	933	12.7	322	3.25	83	1.8	46	4.1	103	n/a	n/a	18.5	470	1.4	35	215	97.5
100-6668NRHX	1	35.4	899	15.6	397	2.75	69	1.6	41	3.9	100	5.9	151	17.8	452	1.4	35	200	90.7
1U0593NRHX	1	33.5	851	15.6	397	2.75	69	1.6	41	3.9	100	5.9	151	17.8	452	1.4	35	180	81.6
135-9666NRHX	2	32.4	823	9.75	248	2.25	57	1.5	38	3.2	81	n/a	n/a	16.3	415	1.1	27	119	54.0

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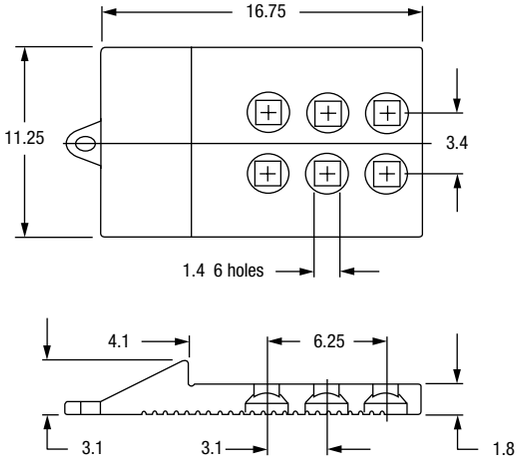
BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style

END SEGMENTS

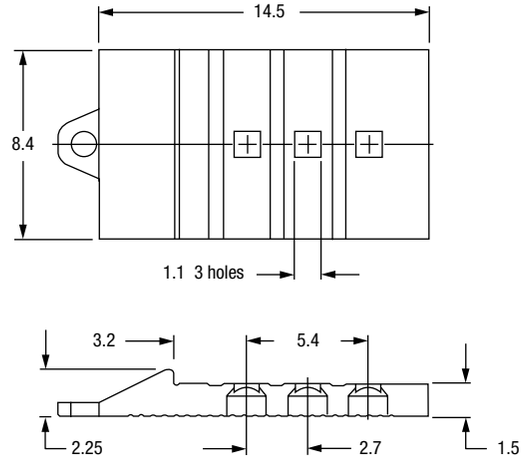
1U0761NRHX
76.0 lb / 345.5 kg
Fits Both Sides



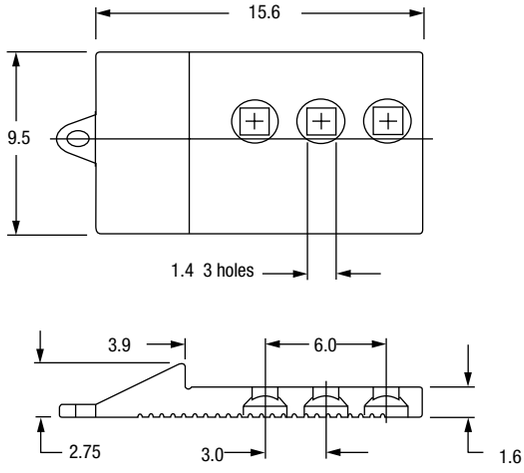
1U0761NR2HX
86.0 lb / 39.0 kg
Fits Both Sides



132-1033NRHX
46.5 lb / 21.1 kg
Fits Both Sides



3G6395RNRHX (RH Shown)
3G6395LNRHX (LH Opposite)
62.0 lb / 28.1 kg
Right and Left Hand Required



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Note: Measurements are in inches.

TEETH FOR EXCAVATORS, LOADERS & SCRAPERS
Caterpillar Style

REPLACEMENT TEETH FOR EXCAVATORS, LOADERS & SCRAPERS TOOTH SERIES REFERENCE CHARTS									
Cat Tooth Series	**Tooth Fasteners**		**Type 1 Short**	**Type 2 Long**	**Type 3 Heavy Long**	**Type 4 Tiger**	**Type 5 Twin Tiger**	**Type 6 Abrasive**	**Type 7 AP All Purpose**
	Pin	**Washer**							
J200	9W7112P	4T0001W	7T8202HX 1U3201HX	1U3202HX	-	T1U3202	1U3202WT	4T2203HX	-
J225	6Y3228P	3G9609W	-	6Y3222HX	8E4222HX	T6Y3222	6Y3222WT (101-0706)	-	-
J250	9J2258P	3G9609W	1U3251HX	1U3252HX	9N4252HX	T1U3252	1U3252WT (101-0707)	4T2253HX	1U3252AP
J300	9J2308P	3G9609W	1U3301HX	1U3302HX	9N4302HX	T1U3302 T1U3302L	1U3302WT 1U3302WTL (101-0708)	4T2303HX	1U3302AP
J350	9J2358P	6Y9459W	1U3351HX	1U3352HX	9N4352HX	T1U3352 T1U3352L	1U3352WT 1U3352WTL (101-0709)	4T2353HX	1U3352AP
J400	7T3408P	7T3409W	7T3401HX	7T3402HX	8E4402HX	T7T3402	7T3402WT	7T3403HX	-
J450 J460	6Y2527P 8E0468P	6Y9459W 8E0469W	-	9W8452HX	9N4452HX	T1U3452 T1U3452L	1U3452WT 1U3452WTL (101-0711)	9W1453HX 9W1453HHX 9N4453HX	1U3452AP
J550	6Y8558P	8E5559W	1U3551HX	9W8552HX	9N4552HX	T1U3552 T1U3552L	1U3552WT 1U3552WTL (101-0712)	9W1553HX 6Y2553HX 9J4553HX 9J4553HHX	1U3552AP
J600	6I6608P	6I6609W	-	6I6602HX	7Y0602HX	T6I6602	6I6602WT	6I6603HX	-
J700	4T4708P	4T4707W	-	4T4702HX	-	-	-	4T4703HX	-

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TEETH FOR EXCAVATORS, LOADERS & SCRAPERS
Caterpillar Style

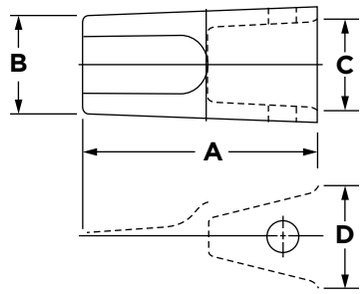
REPLACEMENT TEETH FOR EXCAVATORS, LOADERS & SCRAPERS

TOOTH SERIES REFERENCE CHARTS CONTINUED

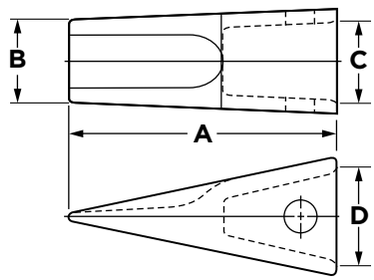
Cat Tooth Series	Type 8 AGB (Abrasion)	Type 9 Penetrator	Type 10 Rock Penetrator RP2 & RP3	Type 11 Rock Chisel	Type 12 SYL	Type 13 Flare Old Style	Type 14 Flare Standard	Tooth Fasteners	
								Pin	Washer
J200	-	-	-	-	-	1U3202FHX	-	9W7112P	4T0001W
J225	-	6Y8229HX	-	-	-	-	6Y3222F	6Y3228P	3G9609W
J250	-	9J4259HX	4T2253RP2	1U3252RC	-	3G8250HX	-	9J2258P	3G9609W
J300	4T2303AGBHX	9J4309THX	4T2303RP2	1U3302RC	1U3302SYL	4T1300HX	1U3302FHX (107-3300)	9J2308P	3G9609W
J350	4T2353AGBHX	9J4359THX	4T2353RP2	1U3352RC	1U3352SYL	8J3350FHX	1U3352FHX (107-3350)	9J2358P	6Y9459W
J400	7T3403AGBHX	6Y7409HX	7T3403RP2	7T3402RC	8E4402SYL	-	7T3402F (107-3400)	7T3408P	7T3409W
J450 J460	9W1453AGBHX	9J4459THX	9W1453RP2 9W1453RP3	1U3452RC	9W8452SYL	8J1450FHX	1U3452FHX (107-3450)	6Y2527P 8E0468P	6Y9459W 8E0469W
J550	9W11553AGBHX	9W8559HX	9W1553RP2	1U3552RC	9W8552SYL or 9W1553RP3	7J9550FHX	1U3552FHX	6Y8558P	8E5559W (107-3550)
J600	-	7I7609	6I6602RP2 6I6602RP3	6I6602RC	6I6602SYL	-	6I6602F	6I6608P	6I6609W
J700	-	4T4709HX	4T4703RP2 4T4703RP3	4T4702RC	4T4702SYL	-	-	4T4708P	4T4707W

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TEETH FOR EXCAVATORS, LOADERS & SCRAPERS
Caterpillar Style



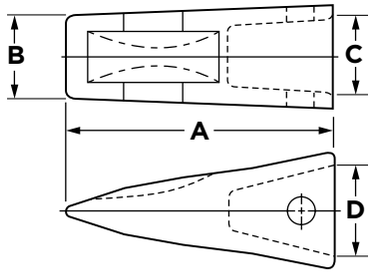
TYPE 1 - SHORT												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	"	mm	"	mm	"	mm	"	mm	lb	kg
J200	7T8202HX	Utility	4.7	119	1.9	49	1.6	40	1.8	47	1.8	0.8
J200	1U3201HX	Short	5.25	133	2.25	57	1.6	40	1.8	47	3.1	1.4
J250	1U3251HX	Short	6.6	167	2.6	65	2.2	55	2.7	68	6.0	2.7
J300	1U3301HX	Short	7.5	191	3.0	76	2.6	67	3.0	77	8.2	3.7
J350	1U3351HX	Short	8.1	206	3.5	89	2.9	75	3.3	84	13.4	6.1
J550	1U3551HX	Short	11.25	286	5.75	146	4.7	119	4.3	110	30.2	13.7



TYPE 2 - LONG												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	"	mm	"	mm	"	mm	"	mm	lb	kg
J200	1U3202HX	Long	5.75	146	2.0	51	1.6	40	1.8	47	2.8	1.3
J225	6Y3222HX	Long	6.6	168	2.25	57	1.9	49	2.3	60	4.6	2.1
J250	1U3252HX	Long	7.5	191	2.6	65	2.2	55	2.7	68	6.4	2.9
J300	1U3302HX	Long	8.6	217	3.0	76	2.6	67	3.0	77	9.8	4.4
J350	1U3352HX	Long	9.5	241	3.6	92	2.9	75	3.3	84	13.5	6.1
J400	7T3402HX	Long	10.5	267	4.25	108	3.5	88	3.7	93	22.9	10.4
J460	9W8452HX	Long	11.4	289	4.5	114	3.9	98	3.9	99	25.5	11.6
J550	9W8552HX	Long	13.2	335	5.6	143	4.7	119	4.3	110	37.9	17.2
J600	6I6602HX	Long	15.0	381	6.5	165	5.6	143	5.2	133	72.0	32.7
J700	4T4702HX	Long	16.5	419	7.1	181	6.0	152	5.7	144	95.0	43.1

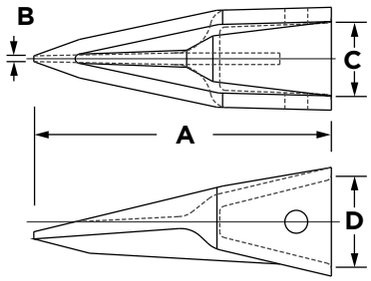
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TEETH FOR EXCAVATORS, LOADERS & SCRAPERS
Caterpillar Style



TYPE 3 - HEAVY LONG

Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overal Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	″	mm	″	mm	″	mm	″	mm	lb	kg
J225	8E4222HX	Heavy	7.0	178	2.2	56	1.9	49	2.3	60	5.6	2.5
J250	9N4252HX	Heavy	7.9	200	2.4	61	2.2	55	2.7	68	8.4	3.8
J300	9N4302HX	Heavy	8.75	222	2.75	70	2.6	67	3.0	77	12.2	5.5
J350	9N4352HX	Heavy	9.9	251	3.5	89	2.9	75	3.3	84	18.0	8.2
J400	8E4402HX	Heavy	11.0	279	4.0	102	3.5	88	3.7	93	24.8	11.3
J460	9N4452HX	Heavy	12.5	317	4.5	114	3.9	98	3.9	99	37.6	17.1
J550	9N4552HX	Heavy	13.75	349	5.75	146	4.7	119	4.3	110	61.0	27.7
J600	7Y0602HX	Heavy	16.0	406	6.5	165	5.6	143	5.2	133	91.0	41.3

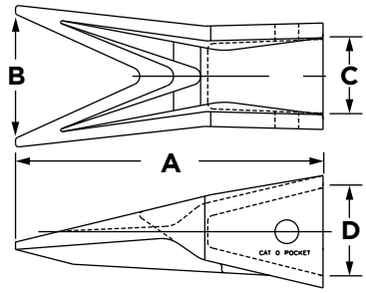


TYPE 4 - TIGER

Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	″	mm	″	mm	″	mm	″	mm	lb	kg
J200	T1U3202	Standard	6.5	165	-	-	1.6	40	1.8	47	2.4	1.1
J225	T6Y3222	Standard	7.9	200	-	-	1.9	49	2.3	60	4.7	2.1
J250	T1U3252	Short	8.0	203	-	-	2.2	55	2.7	68	6.2	2.8
J300	T1U3302	Short	9.0	229	-	-	2.6	67	3.0	77	9.2	4.1
J300	T1U3302L	Standard	9.5	241	-	-	2.6	67	3.0	77	9.3	4.2
J350	T1U3352	Short	11.0	279	-	-	2.9	75	3.3	84	13.0	5.9
J350	T1U3352L	Standard	11.25	286	-	-	2.9	75	3.3	84	13.2	6.0
J400	T7T3402	Standard	12.5	318	-	-	3.5	88	3.7	93	21.2	9.6
J460	T1U3452	Short	12.0	305	-	-	3.9	98	3.9	99	18.7	8.5
J460	T1U3452L	Standard	14.1	357	-	-	3.9	98	3.9	99	28.7	13.0
J550	T1U3552	Short	13.25	337	-	-	4.7	119	4.3	110	28.5	12.9
J550	T1U3552L	Standard	15.0	381	-	-	4.7	119	4.3	110	35.9	16.3
J600	T6I6602	Standard	18.0	457	-	-	5.6	143	5.2	133	68.0	30.8

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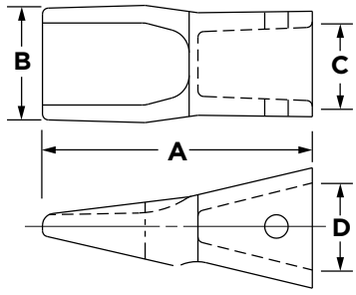
TEETH FOR EXCAVATORS, LOADERS & SCRAPERS
Caterpillar Style



TYPE 5 - TWIN TIGER												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	″	mm	″	mm	″	mm	″	mm	lb	kg
J200	1U3202WT	Standard	6.5	165	3.0	76	1.6	40	1.8	47	3.0	1.4
J225	6Y3222WT	Standard	7.9	200	3.4	86	1.9	49	2.3	60	5.8	2.6
J250	1U3252WT	Short	8.0	203	3.5	89	2.2	55	2.7	68	7.5	3.4
J300	1U3302WT	Short	9.0	229	3.8	97	2.6	67	3.0	77	11.2	5.1
J300	1U3302WTL	Standard	9.5	241	4.2	106	2.6	67	3.0	77	10.7	4.8
J350	1U3352WT	Short	10.5	267	4.75	121	2.9	75	3.3	84	16.1	7.3
J350	1U3352WTL	Standard	11.25	286	4.75	121	2.9	75	3.3	84	14.2	6.4
J400	7T3402WT	Standard	12.5	318	5.6	141	3.5	88	3.7	93	23.8	10.8
J460	1U3452WT	Short	12.0	305	5.75	146	3.9	98	3.9	99	24.5	11.1
J460	1U3452WTL	Standard	14.1	357	6.2	158	3.9	98	3.9	99	31.7	14.4
J550	1U3552WT	Short	13.0	330	6.75	171	4.7	119	4.3	110	32.7	14.8
J550	1U3552WTL	Standard	15.0	381	7.25	184	4.7	119	4.3	110	40.1	18.2
J600	6I6602WT	Standard	18.0	457	9.25	235	5.6	143	5.2	133	76.0	34.5

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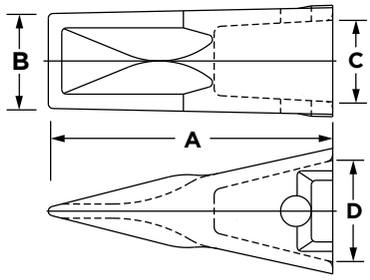
TEETH FOR EXCAVATORS, LOADERS & SCRAPERS
Caterpillar Style



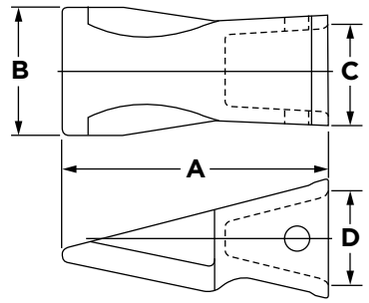
TYPE 6 - ABRASION										
Cat Tooth Series	Abrasion Tooth Part No.	Dimensions								Weight	
		Overall Tooth				Tooth Pocket					
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
J200	4T2203HX	5.75	146	2.4	60	1.6	40	1.8	47	3.5	1.6
J250	4T2253HX	7.6	192	3.1	79	2.2	55	2.7	68	7.3	3.3
J300	4T2303HX	8.6	219	3.9	98	2.6	67	3.0	77	12.0	5.4
J350	4T2353HX	9.5	241	4.25	108	2.9	75	3.3	84	16.7	7.6
J400	7T3403HX	10.75	273	5.7	144	3.5	88	3.7	93	33.0	14.9
J460	9W1453HX	11.6	295	5.6	143	3.9	98	3.9	99	31.7	14.4
J460	9W1453HHX	11.6	295	5.6	143	3.9	98	3.9	99	36.0	16.3
J460	9N4453HX	12.25	311	6.4	162	3.9	98	3.9	99	55.0	24.9
J550	9J4553HX	13.0	330	6.9	175	4.7	119	4.3	110	50.9	23.0
J550	9J4553HHX	13.0	330	6.75	171	4.7	119	4.3	110	59.0	26.8
J550	9W1553HX	13.1	333	7.0	178	4.7	119	4.3	110	51.5	23.4
J550	6Y2553HX	14.0	356	7.5	191	4.7	119	4.3	110	71.0	32.2
J600	6I6603HX	16.25	413	9.0	229	5.6	143	5.2	133	125.0	56.7
J700	4T4703HX	16.4	416	9.4	238	6.0	152	5.7	144	105.0	47.6

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TEETH FOR EXCAVATORS, LOADERS & SCRAPERS
Caterpillar Style



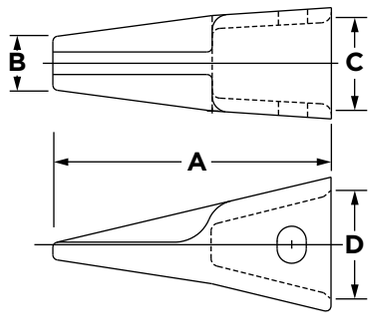
TYPE 7- ALL PURPOSE											
Cat Tooth Series	All Purpose Tooth Part No.	Dimensions								Weight	
		Overall Tooth				Tooth Pocket					
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
J250	1U3252AP	7.5	191	2.5	64	2.2	55	2.7	68	6.2	2.8
J300	1U3302AP	8.5	216	3.0	76	2.6	67	3.0	77	10.1	4.6
J350	1U3352AP	9.5	241	3.5	89	2.9	75	3.3	84	13.9	6.3
J460	1U3452AP	11.1	283	4.4	111	3.9	98	3.9	99	25.2	11.4
J550	1U3552AP	13.6	346	5.5	140	4.7	119	4.3	110	46.1	20.9



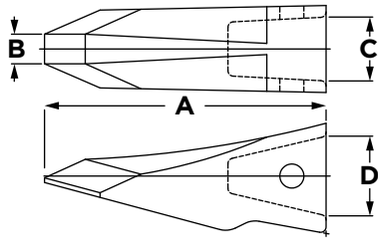
TYPE 8 - AGB											
Cat Tooth Series	AGB (Abrasion) Tooth Part No.	Dimensions								Weight	
		Overall Tooth				Tooth Pocket					
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
J300	4T2303AGBHX	9.0	229	4.0	102	2.6	67	3.0	77	14.5	6.6
J350	4T2353AGBHX	10.0	254	4.75	121	2.9	75	3.3	84	18.7	8.5
J400	7T3403AGBHX	11.5	292	5.75	146	3.5	88	3.7	93	30.3	13.7
J460	9W1453AGBHX	12.25	311	6.0	152	3.9	98	3.9	99	35.3	16
J550	9W1553AGBHX	14.25	362	7.25	184	4.7	119	4.3	110	62	28.1

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TEETH FOR EXCAVATORS, LOADERS & SCRAPERS
Caterpillar Style



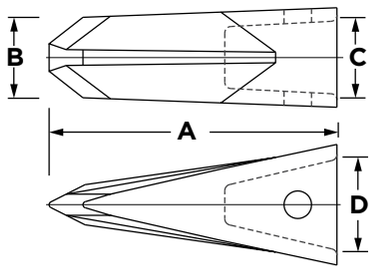
TYPE 9 - PENETRATOR											
Cat Tooth Series	Penetrator Tooth Part No.	Dimensions								Weight	
		Overall Tooth				Tooth Pocket					
		A		B		C		D			
		"	mm	"	mm	"	mm	"	mm	lb	kg
J225	6Y8229HX	6.6	167	1.25	32	1.9	49	2.3	60	4.2	1.9
J250	9J4259HX	7.6	192	1.3	33	2.2	55	2.7	68	6.3	2.9
J300	9J4309THX	8.5	216	1.5	38	2.6	67	3.0	77	7.8	3.5
J350	9J4359THX	9.9	251	2.0	51	2.9	75	3.3	84	12.3	5.6
J400	6Y7409HX	10.5	267	2.0	51	3.5	88	3.7	93	19.5	8.8
J460	9W8459HX	11.6	295	2.0	51	3.9	98	3.9	99	22.1	10.0
J550	9W8559HX	13.25	337	2.6	67	4.7	119	4.3	110	36.0	16.3
J700	4T4709HX	16.5	419	3.1	79	6.0	152	5.7	144	82.0	37.2



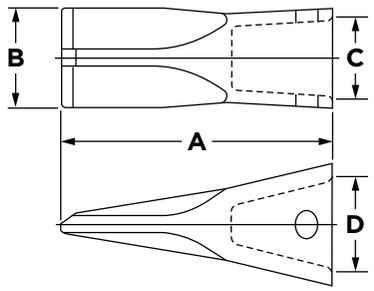
TYPE 10 - ROCK PENETRATOR											
Cat Tooth Series	Rock Penetrator Tooth Part No.	Dimensions								Weight	
		Overall Tooth				Tooth Pocket					
		A		B		C		D			
		"	mm	"	mm	"	mm	"	mm	lb	kg
J250	4T2253RP2	9.5	241	2.6	67	2.2	55	2.7	68	11.9	5.4
J300	4T2303RP2	10.5	267	3.3	84	2.6	67	3.0	77	18.6	8.4
J350	4T2353RP2	11.7	297	3.75	95	2.9	75	3.3	84	26.0	11.8
J400	7T3403RP2	13.0	330	4.1	105	3.5	88	3.7	93	35.6	16.1
J460	9W1453RP2	13.8	351	4.8	123	3.9	98	3.9	99	47.8	21.7
J460	9W1453RP3	14.25	362	4.9	124	3.9	98	3.9	99	52.3	23.7
J550	9W1553RP2	14.75	375	5.2	131	4.7	119	4.3	110	58.0	26.3
J550	9W1553RP3	15.25	387	5.2	131	4.7	119	4.3	110	68.5	31.1
J600	6I6602RP2	17.75	451	6.25	159	5.6	143	5.2	133	109.0	49.4
J600	6I6602RP3	18.5	470	6.5	165	5.6	143	5.2	133	127.0	57.6
J700	4T4703RP2	19.5	495	6.9	175	6.0	152	5.7	144	113.5	51.5
J700	4T4703RP3	19.5	495	7.0	178	6.0	152	5.7	144	148.0	67.1

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Caterpillar Style



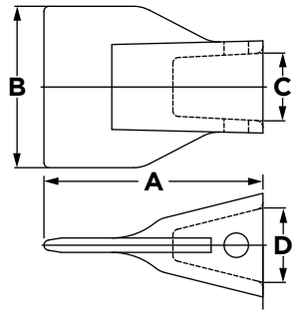
TYPE 11 - ROCK CHISEL											
Cat Tooth Series	Rock Chisel Tooth Part No.	Dimensions								Weight	
		Overall Tooth				Tooth Pocket					
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
J250	1U3252RC	8.5	216	2.4	60	2.2	55	2.7	68	8.6	3.9
J300	1U3302RC	9.75	248	2.9	210	2.6	67	3.0	77	12.4	5.6
J350	1U3352RC	11.0	279	3.4	86	2.9	75	3.3	84	17.9	8.1
J400	7T3402RC	12.1	308	3.9	98	3.5	88	3.7	93	26.0	11.8
J460	1U3452RC	13.0	330	4.25	108	3.9	98	3.9	99	31.4	14.2
J550	1U3552RC	15.0	381	5.1	130	4.7	119	4.3	110	50.8	23.0
J600	6I6602RC	18.0	457	6.4	162	5.6	143	5.2	133	86.0	39.0
J700	4T4702RC	19.0	483	6.5	165	6.0	152	5.7	144	105.0	47.6



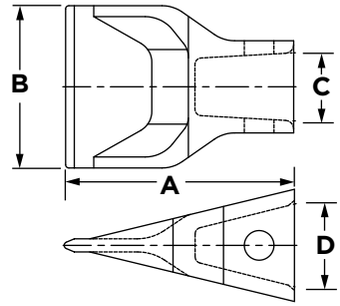
TYPE 12 - SYL											
Cat Tooth Series	SYL Tooth Part No.	Dimensions								Weight	
		Overall Tooth				Tooth Pocket					
		A		B		C		D			
		″	mm	″	mm	″	mm	″	mm	lb	kg
J300	1U3302SYLHX	9.25	235	3.4	87	2.6	67	3.0	77	10.9	4.9
J350	1U3352SYLHX	10.5	267	4.0	102	2.9	75	3.3	84	16.2	7.3
J400	8E4402SYLHX	11.75	298	4.7	119	3.5	88	3.7	93	24.4	11.1
J460	9W8452SYLHX	12.75	324	5.1	130	3.9	98	3.9	99	29.6	13.4
J550	9W8552SYLHX	14.5	368	6.0	152	4.7	119	4.3	110	48.8	22.1
J600	6I6602SYLHX	16.5	419	7.5	190	5.6	143	5.2	133	76.0	34.5
J700	4T4702SYLHX	18.0	457	7.5	190	6.0	152	5.7	144	95.0	43.1

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TEETH FOR EXCAVATORS, LOADERS & SCRAPERS
Caterpillar Style



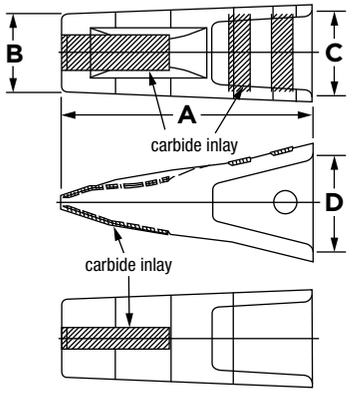
TYPE 13 - OLD STYLE FLARE												
Cat Tooth Series	Flare Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	"	mm	"	mm	"	mm	"	mm	lb	kg
J200	1U3202FHX	Old Style	5.0	127	4.4	111	1.6	40	1.8	47	2.8	1.3
J250	3G8250HX	Old Style	7.75	197	4.5	114	2.2	55	2.7	68	9.2	4.2
J300	4T1300HX	Old Style	8.5	216	6.0	152	2.6	67	3.0	77	11.5	5.2
J350	8J3350FHX	Old Style	9.5	241	7.0	178	2.9	75	3.3	84	16.7	7.6
J460	8J1450FHX	Old Style	11.25	286	9.0	229	3.9	98	3.9	99	31.2	14.2
J550	7J9550FHX	Old Style	13.0	330	11.0	279	4.7	119	4.3	110	50.2	22.7



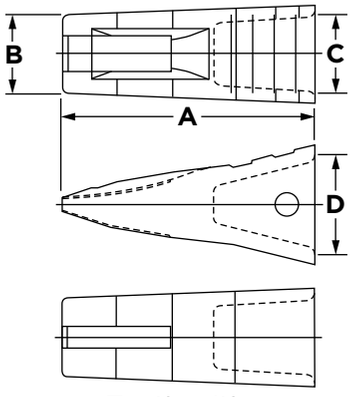
TYPE 14 - STANDARD FLARE												
Cat Tooth Series	Flare Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	"	mm	"	mm	"	mm	"	mm	lb	kg
J225	6Y3222F	Standard	5.75	146	4.6	117	1.9	49	2.3	60	5.9	2.7
J300	1U3302FHX	Standard	7.5	191	6.0	152	2.6	67	3.0	77	10.4	4.7
J350	1U3352FHX	Standard	9.5	241	7.0	178	2.9	75	3.3	84	18.1	8.2
J400	7T3402F	Standard	10.3	262	8.25	210	3.5	88	3.7	93	25.6	11.6
J460	1U3452FHX	Standard	11.25	286	9.0	229	3.9	98	3.9	99	34.5	15.6
J550	1U3552FHX	Standard	13.75	349	11.0	279	4.7	119	4.3	110	65.0	29.5
J600	6I6602F	Standard	16.0	406	12.5	317	5.6	143	5.2	133	89.0	40.4

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TEETH WITH TUNGSTEN CARBIDE
Caterpillar Style



Tooth with Carbide

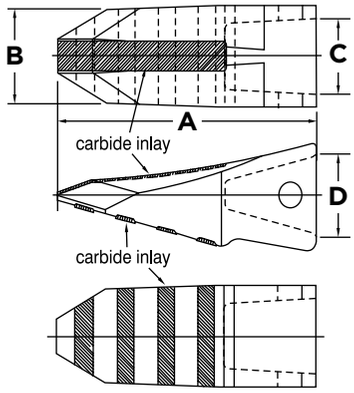


Tooth with
Carbide Grooves Only

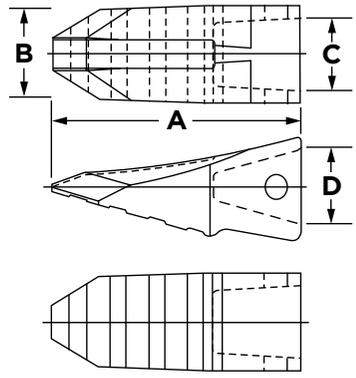
HEAVY LONG ABRASION ACE												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	″	mm	″	mm	″	mm	″	mm	lb	kg
J300	125-8302HX	w/carbide	8.75	222	2.75	70	2.6	67	3.0	77	13.0	5.9
J400	116-7402HX	w/carbide	11.0	279	4.0	102	3.5	88	3.7	93	25.9	11.8
J400	116-7402CG	grooves only									24.6	11.2
J460	101-9054HX	w/carbide	12.5	317	4.5	114	3.9	98	3.9	99	39.3	17.8
J550	101-9055TC	w/carbide	13.75	349	5.75	146	4.7	119	4.3	110	60.0	27.2

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TEETH WITH TUNGSTEN CARBIDE
Caterpillar Style



Tooth with Carbide

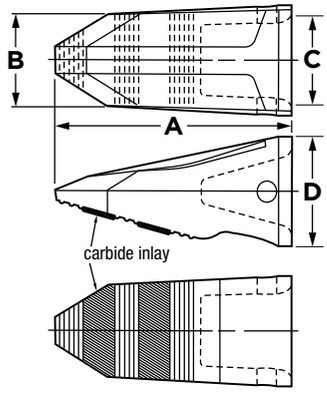


Tooth with
Carbide Grooves Only

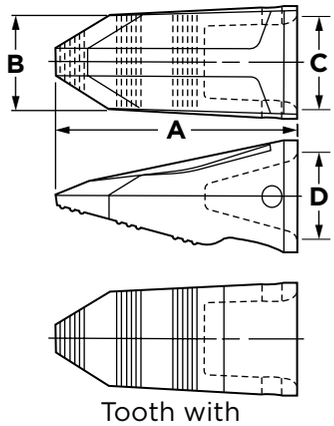
ROCK PENETRATOR ABRASION ACE												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
	Part No.	Description	A		B		C		D			
			″	mm	″	mm	″	mm	″	mm	lb	kg
J350	4T2353RP2TC	w/carbide	11.7	297	3.75	95	2.9	75	3.3	84	26.5	12.0
J350	4T2353RP2CG	grooves only									25.0	11.3
J400	7T3403RP2TC	w/carbide	13.0	330	4.1	105	3.5	88	3.7	93	34.5	15.6
J400	7T3403RP2CG	grooves only									32.5	14.7
J460	9W1453RP2TC	w/carbide	13.8	351	4.8	123	3.9	98	3.9	99	47.0	21.3
J460	9W1453RP2CG	grooves only									45.0	20.4
J550	9W1553RP2TC	w/carbide	14.75	375	5.2	131	4.7	119	4.3	110	56.0	25.4
J550	9W1553RP2CG	grooves only									56.0	25.4

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TEETH WITH TUNGSTEN CARBIDE
Caterpillar Style



Tooth with Carbide



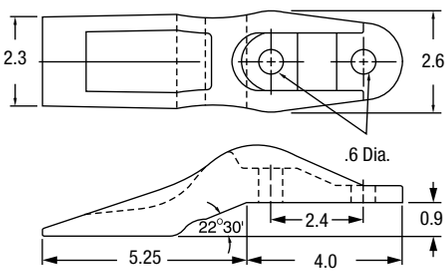
Tooth with
Carbide Grooves Only

HEAVY DUTY PENETRATOR ABRASION ACE

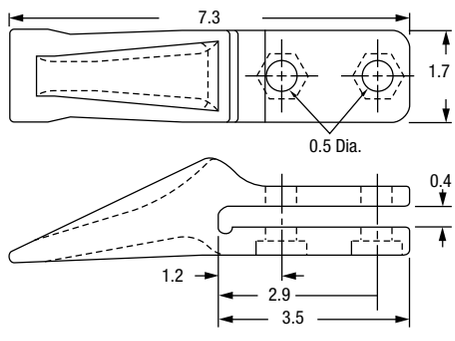
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
	Part No.	Description	A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
J300	135-9300RHX	grooves only	10.3	262	3.1	78	2.6	67	3.0	77	25.0	11.4
J350	144-1358RTC	w/carbide	11.4	289	3.3	84	2.9	75	3.3	84	25.5	11.6
J350	144-1358RHX	grooves only										
J400	135-9400RTC	w/carbide	12.3	313	4.0	102	3.5	88	3.7	93	39.0	17.7
J400	135-9400RHX	grooves only										
J460	138-6451RTC	w/carbide	13.75	349	4.75	121	3.9	98	3.9	99	50.5	22.9
J460	138-6451RHX	grooves only										
J550	138-6552RTC	w/carbide	15.0	381	5.25	133	4.7	119	4.3	110	67.0	30.4
J550	138-6552RHX	grooves only										
J600	135-9600RTC	w/carbide	17.6	447	6.7	170	5.6	143	5.2	133	122.7	55.7
J600	135-9600RHX	grooves only										

MISCELLANEOUS ADAPTER DETAILS

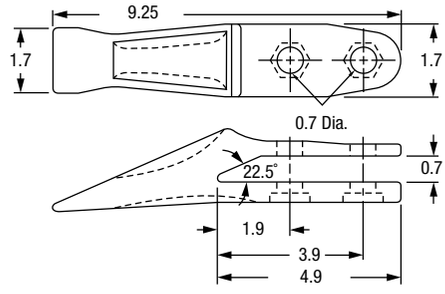
1 pc. Bolt-On Tooth
132-4720HX
4.6 lb / 2.1 kg
Direct replacement for Cat® 132-4720 tooth. Fits Cat 216, 226, 236 and 246 series skid steer loaders. Uses (1) 11/16 x 2 1/4 hex bolt w/lock nut and (1) 11/16 x 2 hex head bolt w/lock nut.



1 pc. Bolt-On Tooth
138-6410HX
2.6 lb / 1.2 kg
Direct replacement for Cat® 138-6410 tooth. Fits Cat 301.5 mini-excavators. Uses (2) 1/2 x 1 1/2 hex head bolt w/lock nut.



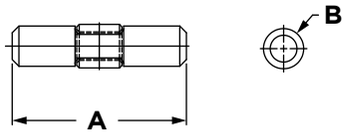
1 pc. Bolt-On Tooth
135-9390HX
3.6 lb / 1.6 kg
Direct replacement for Cat® 135-9390 tooth. Fits Cat 302.5 mini-excavators. Uses (2) 5/8 x 2 hex head bolts w/lock nut.



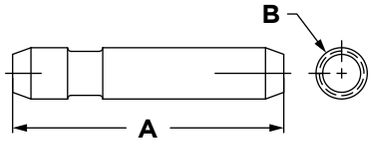
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Note: Measurements are in inches.

REPLACEMENT FASTENER DETAILS
Caterpillar Style



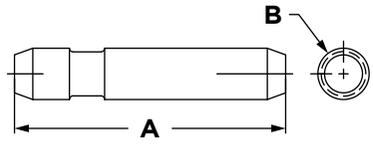
SINGLE PIECE SNAP RING PIN						
Pin Part No.	Dimensions				Weight	
	A		B			
	″	mm	″	mm	lb	kg
8J1433P	3.25	83	0.75	19	0.1	0.05
7J9600P	5.0	127	1.0	25	1.0	0.5
6J8811P	4.4	111	1.25	32	1.4	0.6
3G0500P	6.0	152	1.25	32	1.8	0.8
6Y2443P	6.1	156	1.4	35	2.5	1.1



TWO PIECE PIN & WASHER SYSTEM						
Part No.	Dimensions				Weight	
	A		B (Dia.)			
	″	mm	″	mm	lb	kg
9W7112P	2.3	59	0.4	11	0.1	0.04
6Y3228P	2.6	67	0.6	14	0.1	0.04
9J2258P	3.1	79	0.6	14	0.1	0.04
9J2308P	3.6	92	0.6	14	0.2	0.09
9J6583P	3.4	87	0.75	19	0.3	0.1
9W2678P	4.2	106	0.75	19	0.5	0.2
9J2358P	4.25	108	0.75	19	0.5	0.2
6Y2527P	5.25	133	0.75	19	0.6	0.3
7T3408P	4.6	117	0.9	22	0.6	0.3
8E0468P	5.25	133	0.9	24	1.0	0.4
6Y3394P	4.9	125	1.0	25	1.1	0.5
6Y8558P	6.4	162	1.0	25	1.2	0.5
6Y3909P	5.6	143	1.25	32	1.9	0.9
6I6608P	7.6	194	1.1	29	2.3	1.0
8E2229P	6.3	160	1.4	35	2.6	1.2
4T4708P	7.7	195	1.25	32	2.7	1.7

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REPLACEMENT FASTENER DETAILS
Caterpillar Style

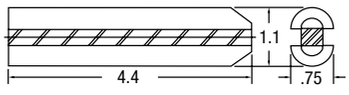


TWO PIECE PIN & WASHER SYSTEM CONTINUED								
Steel Washer Part No.	Dimensions						Weight	
	A (O.D.)		B (I.D.)		C			
	″	mm	″	mm	″	mm	lb	kg
4T0001W	0.75	19	0.4	10	0.3	7	0.1	0.05
3G9609W	1.1	29	0.5	13	0.3	9	0.1	0.05
3G9609WHR*	1.1	29	0.5	13	0.3	9	0.1	0.05
6Y9459W	1.5	38	0.7	18	0.3	9	0.1	0.05
6Y9459WHR*	1.5	38	0.7	18	0.3	9	0.1	0.05
7T3409W	1.6	40	0.8	21	0.3	9	0.2	0.09
7T3409WHR*	1.6	40	0.8	21	0.3	9	0.2	0.09
8E0469W	1.7	43	0.9	23	0.3	9	0.2	0.09
8E0469WHR*	1.7	43	0.9	23	0.3	9	0.2	0.09
8E5559W	2.0	51	1.0	25	0.3	9	0.2	0.09
6I6609W	2.25	57	1.2	29	0.3	8	0.3	0.14
4T4707W	2.5	64	1.2	31	0.4	10	0.4	0.19
1012874W	2.7	68	1.3	34	0.4	9	0.5	0.23

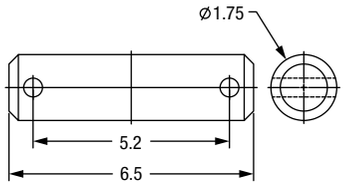
*Harder Rockwell

MISCELLANEOUS PINS

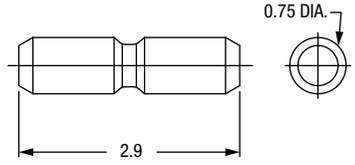
Flex Pin for Ripper Teeth
5J9000P
0.7 lb / 0.3 kg



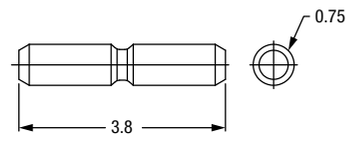
Used on 9J6586HX
Ripper Shank
2K6413P
4.2 lb / 1.9 kg



Used on Compactor Feet
7K9937P
0.4 lb / 0.2 kg



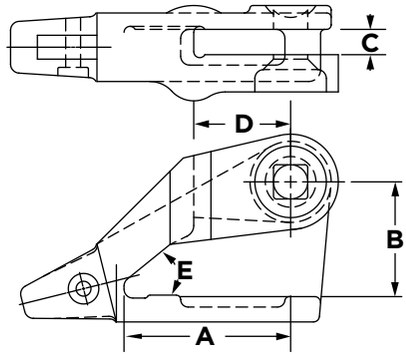
Used on Compactor Feet
7K9535P
0.4 lb / 0.2 kg



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Note: Measurements are in inches.

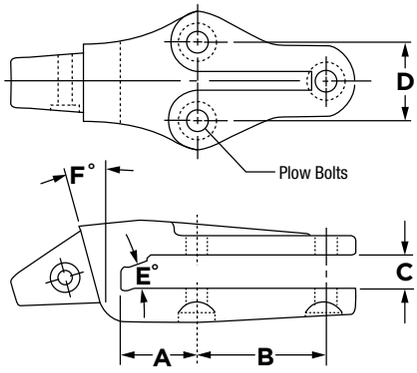
BOLT-ON ADAPTERS FOR LOADERS
Caterpillar Style



RH Shown, LH Opposite

BOLT-ON CORNER ADAPTERS FOR LOADERS

Hensley Part No.	Cat Tooth Series	Dimensions									Weight		Plow Bolts		
		A		B		C		D		E			Size	Assy. No.	Qty.
		"	mm	"	mm	"	mm	"	mm		lb	kg	"		
3G4258HX (LH) & 3G4259HX (RH)	J250	5.75	146	4.2	106	1.1	27	3.0	76	43°	25.0 ea.	11.3 ea.	1 x 3 1/4	AC10-314	1 ea.
3G4308HX (LH) & 3G4309HX (RH)	J300	7.0	178	4.75	121	1.1	27	4.1	103	39°	34.9 ea.	15.8 ea.	1 1/4 x 4	AC114-400	1 ea.
3G8308HX (LH) & 3G8309HX (RH)	J300	8.0	203	5.5	140	1.6	40	5.1	130	47°	35.9 ea.	16.3 ea.	1 1/4 x 4	AC114-400	1 ea.
3G5358HX (LH) & 3G5359HX (RH)	J350	8.5	217	5.6	143	1.6	40	5.1	129	38°	51.3 ea.	23.3 ea.	1 1/4 x 4	AC114-400	1 ea.

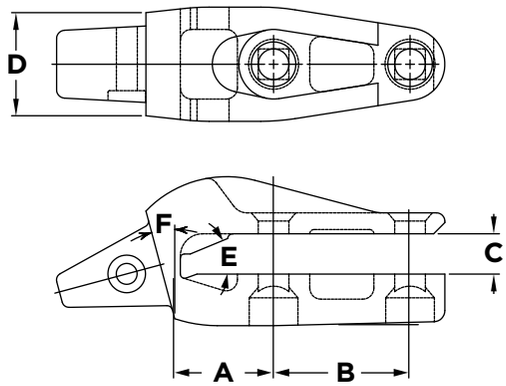


3 HOLE BOLT-ON ADAPTERS FOR LOADERS

Hensley Part No.	Cat Tooth Series	Dimensions										Weight		Plow Bolts		
		A		B		C		D		E	F			Size	Assy. No.	Qty.
		"	mm	"	mm	"	mm	"	mm			lb	kg	"		
8J5307HX	J300	3.4	86	5.75	146	1.3	33	3.25	83	23°	17°	30.6	13.8	1 x 4 1/4	A10-414	3
3G1357HX	J350	3.4	86	5.75	146	1.3	33	3.25	83	23°	16°	38.4	17.4	1 x 4	AC10-400	3
3G2357HX	J350	4.2	106	6.1	156	1.8	46	3.25	83	20°	15°	46.0	20.9	1 x 4 1/2	AC10-412	3

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BOLT-ON ADAPTERS FOR LOADERS
Caterpillar Style

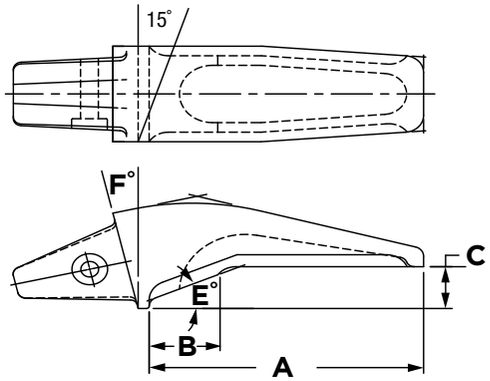


2 HOLE BOLT-ON ADAPTERS FOR LOADERS

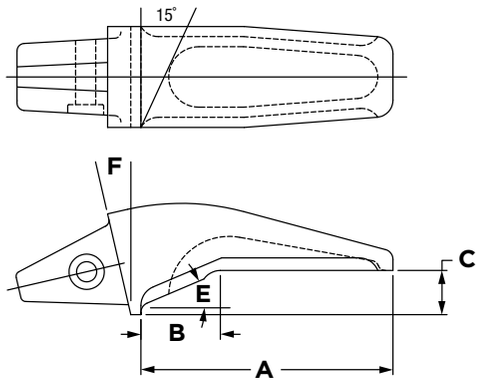
Hensley Part No.	Cat Tooth Series	Dimensions								Weight		Plow Bolts		
		A		B		C		E	F			Size	Assy. No.	Qty.
		″	mm	″	mm	″	mm			lb	kg	″		
9W6207HX	J200	2.0	50	2.9	75	0.9	22	23˚	14˚	4.8	2.2	5/8 x 2 1/2	A58-212	2
1U4207HX	J200	2.6	67	3.5	89	0.8	21	30˚	14˚	8.5	3.9	3/4 x 3	A34-300	2
1U257HX	J250	2.75	70	4.9	124	1.1	27	23˚	14˚	18.0	8.2	1 x 3 3/4	AC10-334	2
8J6656HX	J250	2.75	70	4.9	124	1.1	27	27˚	13˚	18.4	8.3	1 x 4	A10-400	2
1U307HX	J300	2.75	70	4.9	124	1.1	27	23˚	14˚	25.4	11.5	1 x 4	A10-400	2
8J6587HX	J300	2.75	70	4.9	124	1.1	27	23˚	15˚	27.5	12.5	1 x 4	A10-400	2
4T4307HX	J300	3.2	91	6.5	165	1.3	33	23˚	14˚	29.3	13.3	1 x 4 1/4	AC10-414	2
3G9307HX	J300	3.4	86	6.3	160	1.3	33	23˚	14˚	31.9	14.5	1 1/4 x 4 1/2	AC114-412	2
3G3357HX	J350	3.9	98	5.9	149	1.7	43	24˚	14˚	43.9	19.9	1 1/4 x 5	AC114-500	2
3G7357HX	J350	3.4	86	6.3	159	1.3	34	23˚30′	15˚	46.2	20.9	1 1/4 x 4 1/4	AC114-414	2
1U1357HX	J350	4.0	102	6.1	156	1.8	46	20˚	14˚	44.7	20.3	1 1/4 x 5	AC114-500	2
6I9898HX	J400	4.2	106	6.1	156	1.8	46	22˚30′	14˚	62.0	28.1	1 1/4 x 5	AC114-500	2

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WELD-ON ADAPTERS FOR LOADERS
Caterpillar Style



Type 1
(Center)



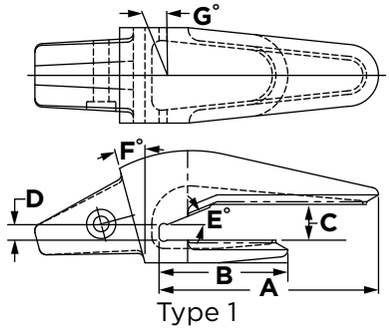
Type 2
(RH Shown, LH Opposite)

CURRENT FLUSH MOUNT WELD-ON ADAPTERS FOR LOADERS

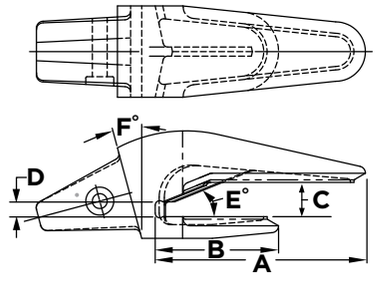
Hensley Part No.	Cat Tooth Series	Type	Dimensions								Weight	
			A		B		C		E	F		
			"	mm	"	mm	"	mm			lb	kg
1U1254HXC	J250	1	9.25	235	2.0	51	1.0	25	22°	13°	14.3	6.5
1U1304HXC	J300	1	9.4	238	2.3	59	1.1	27	22°	14°	19.4	8.8
1U1354HXC	J350	1	11.25	286	3.2	81	1.5	38	22°	14°	31.7	14.4
107-3404HX	J400	1	11.5	292	3.25	83	1.5	38	22°	14°	45.0	20.4
9J9584HXC2	J460	1	12.5	318	4.1	105	2.2	56	23°	13°	56.7	25.7
9J9585HXR2 & 9J9586HXL2	J460	2	13.75	349	4.1	105	2.2	56	23°	13°	64.6 ea.	29.3 ea.
8E0464HXC	J460	1	12.5	318	4.1	105	2.2	56	23°	13°	57.0	25.9
8E0465HXR & 8E0466HXL	J460	2	13.75	349	4.1	105	2.2	56	23°	13°	64.0 ea.	29.0 ea.
3G4554HXC	J550	1	14.9	378	5.0	127	2.7	68	23°	14°	80.6	36.6
3G4555HXR & 3G4556HXL	J550	2	15.6	397	5.0	127	2.7	68	23°	14°	87.8 ea.	39.8 ea.

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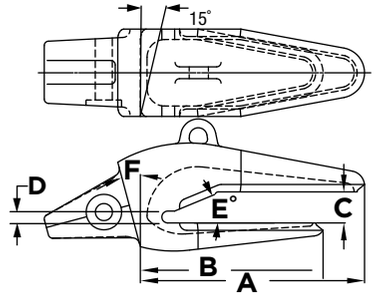
WELD-ON ADAPTERS FOR LOADERS
Caterpillar Style



Type 1
(RH & LH Universal)



Type 2
(Center)



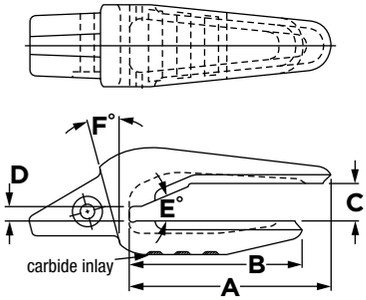
Type 3
(RH Shown, LH Opposite)

WRAP-AROUND WELD-ON ADAPTERS FOR LOADERS

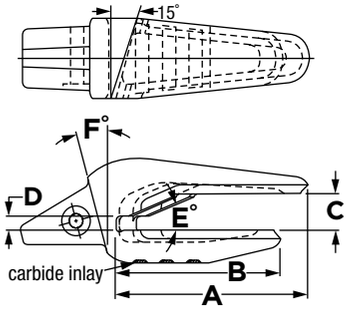
Hensley Part No.	Cat Tooth Series	Type	Dimensions											Weight	
			A		B		C		D		E	F	G		
			"	mm	"	mm	"	mm	"	mm				lb	kg
2740-416	J200	2	5.0	127	2.6	67	1.1	28	0.2	6	30°	12°		3.5	1.6
125-8404HX	J400	2	10.0	254	7.0	178	1.8	47	0.7	18	22°	15°		43.9	19.9
125-8405HX & 125-8406HX	J400	3	10.4	265	7.4	189	1.8	47	0.7	18	22°	15°	15°	46.2 ea.	20.9 ea.
9J6698HXC	J460	2	11.4	289	7.9	200	2.1	54	0.6	16	22°	15°		52.0	23.6
9J6701HXR & 9J6702HXL	J460	3	12.5	318	9.0	229	2.1	54	0.75	19	22°	15°		57.0 ea.	25.9 ea.
8E3464HXC	J460	2	10.4	264	6.9	175	2.1	54	0.75	19	22°	12°		50.0	22.7
8E3465HXR & 8E3466HXL	J460	3	12.5	318	9.0	229	2.1	54	0.75	19	22°	12°		55.0 ea.	24.9 ea.
303J460	J460	2	12.75	324	9.75	248	2.6	67	0.6	16	30°	12°		70.0	31.8
3G9494HXC	J550	2	14.25	362	12.6	321	2.6	67	1.1	27	22°	15°		76.5	34.7
3G9495HXR & 3G9496HXL	J550	3	15.0	381	13.4	340	2.6	67	1.1	27	22°	15°		81.7 ea.	37.1 ea.
9W9704HXC	J700	2	17.2	437	13.7	347	2.6	67	1.0	25	22°	15°		164.0	74.4
9W9705HXR & 9W9706HXL	J700	3	17.5	445	14.0	356	2.6	67	1.0	25	22°	15°	15°	175.0 ea.	79.4 ea.
4T4704HXC	J700	2	18.1	460	13.1	333	3.1	78	1.0	25	22°	15°		164.0	74.4
4T4705HXR & 4T4706HXL	J700	3	18.1	460	13.1	333	3.1	78	1.0	25	22°	15°	15°	172.0	78.0

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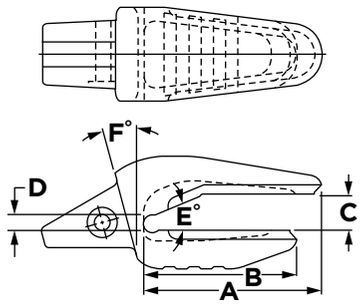
WELD-ON ADAPTERS FOR LOADERS
Caterpillar Style



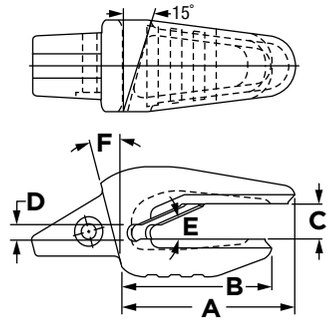
Type 1
With Tungsten Carbide



Type 2
(RH Shown, LH Opposite)
With Tungsten Carbide



Type 3



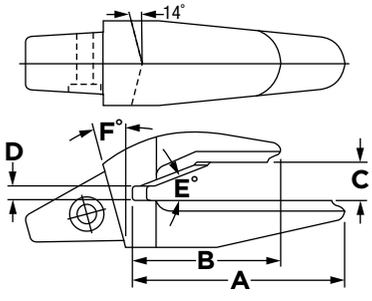
Type 4
(RH Shown, LH Opposite)

WRAP-AROUND WELD-ON ADAPTERS FOR LOADERS

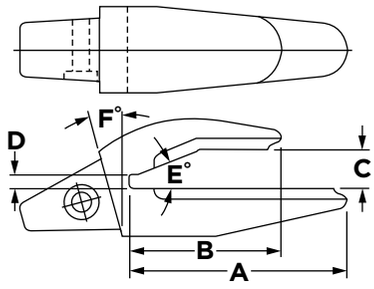
Hensley Part No.	Cat Tooth Series	Type	Dimensions										Weight	
			A		B		C		D		E	F		
			″	mm	″	mm	″	mm	″	mm			lb	kg
107-3554HX	J550	3	14.5	368	12.5	305	2.6	67	1.0	25	22°	15°	92.0	41.7
107-3555HX(RH) & 107-3556HX(LH)	J550	4	14.5	368	12.5	305	2.6	67	1.0	25	22°	15°	97.0	44.0
112-2554HX	J550	1	14.5	368	12.5	305	2.6	67	1.0	25	22°	15°	94.0	42.6
112-2555HX(RH) & 112-2556HX(LH)	J550	2	14.5	368	12.5	305	2.6	67	1.0	25	22°	15°	98.0	44.5
119-8604HX	J600	3	14.5	368	12.5	305	2.9	73	1.2	30	22°	15°	156.0	70.8
119-8605HX(RH) & 119-8606HX(LH)	J600	4	14.5	368	12.5	305	2.9	73	1.2	30	22°	15°	169.0	76.7

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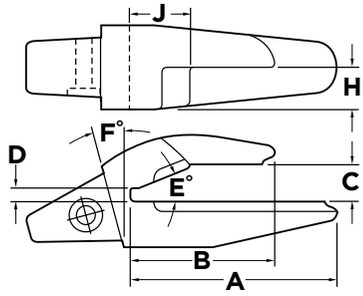
WELD-ON ADAPTERS FOR BACKHOES & EXCAVATORS
Caterpillar Style



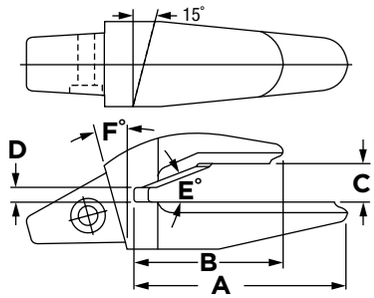
Type 1
(RH & LH Universal)



Type 2
(Center)



Type 3
(RH Shown, LH Opposite)

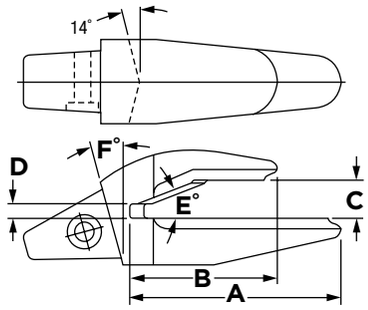


Type 4
(RH Shown, LH Opposite)

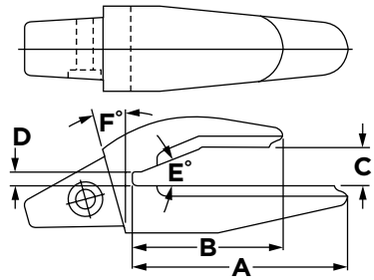
WRAP-AROUND WELD-ON ADAPTERS FOR BACKHOES & EXCAVATORS																		
Hensley Part No.	Cat Tooth Series	Type	Dimensions														Weight	
			A		B		C		D		E	F	H		J			
			"	mm	"	mm	"	mm	"	mm			"	mm	"	mm	lb	kg
119-3204HX	J200	2	3.25	83	4.25	108	1.1	29	0.5	13	22˚	9˚					4.1	1.9
6Y3224HX	J225	2	5.6	141	3.7	94	1.1	27	0.4	11	22˚	8˚					7.3	3.3
6Y3254HX	J250	2	6.1	156	5.0	127	1.3	33	0.4	10	22˚	9˚					11.2	5.1
9W1304HX	J300	2	7.5	191	5.25	133	1.3	33	0.4	11	22˚	9˚					17.3	7.8
8E9490HX	J300	2	8.25	210	5.9	149	1.6	40	0.5	13	23˚	12˚					17.2	7.8
3G6304HXC	J300	2	8.0	203	4.6	116	1.3	33	0.6	14	22˚	8˚					18.0	8.2
3G6305HXR & 3G6306HXL	J300	3	8.0	203	4.6	116	1.3	33	0.6	14	22˚	8˚	1.4	37	1.9	48	17.5 ea.	7.9 ea.
3G8354HXC	J350	2	8.25	210	4.75	121	1.7	43	0.6	16	35˚	8˚					20.9	9.5
3G8355HXR & 3G8356HXL	J350	3	8.25	210	4.75	121	1.7	43	0.6	16	35˚	8˚	1.75	44	1.3	33	19.6 ea.	8.9 ea.
6I6354HX	J350	2	9.0	229	7.25	184	1.6	41	0.6	14	22˚	12˚					27.2	12.3
7T3404HXC	J400	2	9.5	241	6.75	171	1.9	48	0.75	19	22˚	9˚					33.5	15.2
8J9141HXC	J460	2	11.1	283	7.4	187	2.0	51	0.4	11	24˚	9˚					46.5	21.1
8E6464HXC	J460	2	11.1	283	7.4	187	2.0	51	0.4	11	24˚	9˚					46.5	21.1
8E6465HXR & 8E6466HXL	J460	3	11.1	283	7.4	187	2.0	51	0.4	11	24˚	9˚	2.1	54	3.5	89	46.5 ea.	21.1 ea.
6I6554HXC	J550	2	13.25	337	11.0	279	2.6	65	1.1	27	22˚	9˚					77.0	34.9
9J0174HXC	J550	2	14.5	368	8.6	219	2.4	62	0.9	22	23˚	9˚					77.2	35.0
9J0172HXR & 9J0173HXL	J550	3	14.5	368	10.0	254	2.4	62	0.9	22	23˚	9˚	2.2	56	3.4	86	78.2 ea.	35.5 ea.
6I6604HXC	J600	2	14.5	368	12.0	305	3.1	78	1.4	35	22˚	9˚					126.0	57.1
132-4705RHX & 132-4706LHX	J700	4	14.5	368	12.0	305	3.1	78	1.4	35	22˚	9˚					135.0	61.2

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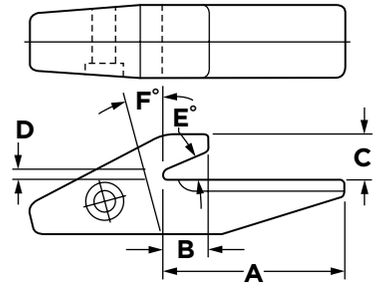
WELD-ON ADAPTERS FOR BACKHOES & EXCAVATORS
Caterpillar Style



Type 1
(RH & LH Universal)

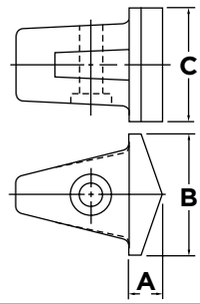


Type 2
(Center)



Type 3
(Center)

BOTTOM LEG WELD-ON ADAPTERS														
Hensley Part No.	Cat Tooth Series	Type	Dimensions										Weight	
			A		B		C		D		E	F		
			"	mm	"	mm	"	mm	"	mm			lb	kg
8J7525HX	J200	3	3.9	100	1.0	25	1.0	25	0.25	6	23°	14°	3.1	1.4
3G0169HX	J250	3	7.5	191	2.3	59	2.0	51	0.3	8	22°	15°	11.7	5.3



WELD-ON NOSES									
Weld-on Part No.	Cat Tooth Series	Dimensions						Weight	
		A		B		C			
		"	mm	"	mm	"	mm	lb	kg
8J7525WN	J200	0.9	24	2.3	59	2.25	57	2.5 est.	1.1 est.
6Y3224WN	J225	1.1	29	3.2	81	2.6	65	3.8 est.	1.7 est.
9J4254WN	J250	1.1	29	3.25	83	2.75	70	5.1	2.3
9J4304WN	J300	1.5	38	3.5	89	3.5	89	8.8	3.9
9J4354WN	J350	1.25	32	4.4	111	4.0	102	10.7	4.8
7T3404WN	J400	1.4	35	5.0	127	4.6	117	15.2	6.9
3G4454WN	J460	1.5	38	5.1	130	5.0	127	19.3	8.8
8E6464WN*	J460	1.5	38	5.1	130	5.0	127	19.8	9.0
9J4554WN	J550	1.75	44	5.5	140	5.75	146	29.6	13.4
6I6604WN	J600	1.9	48	7.1	181	7.6	194	53.0	24.0

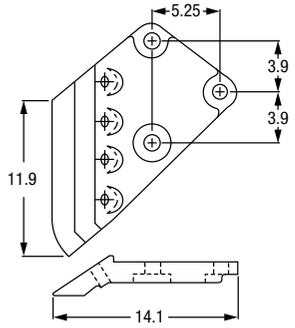
*Larger pin hole diameter for oversize fasteners.

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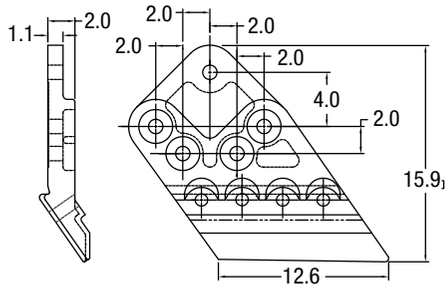
SIDECUTTERS FOR EXCAVATORS
Caterpillar Style

EXCAVATOR SIDECUTTER DETAILS

8J9614HXL (LH Shown)
8J9615HXR (RH Opposite)
49.0 lb / 22.2 kg ea.
Each Requires (3) 1 x 3 Plow Bolts
Plow Bolt Assembly No. A10-300



8J9825HXR (RH Shown)
8J9826HXL (LH Opposite)
68.0 lb / 30.8 kg ea.
Each Fastens With (5) 1 x 3 1/2 Plow Bolts
Plow Bolt Assembly Part No. A10-312



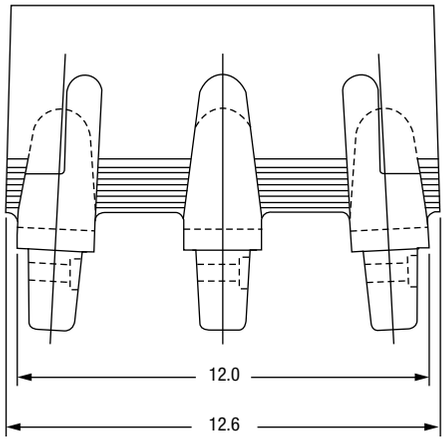
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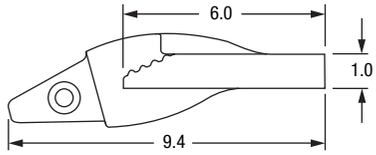
Note: Measurements are in inches.

CAST LIPS FOR RTBS
Caterpillar Style

CAST LIPS FOR RTBs

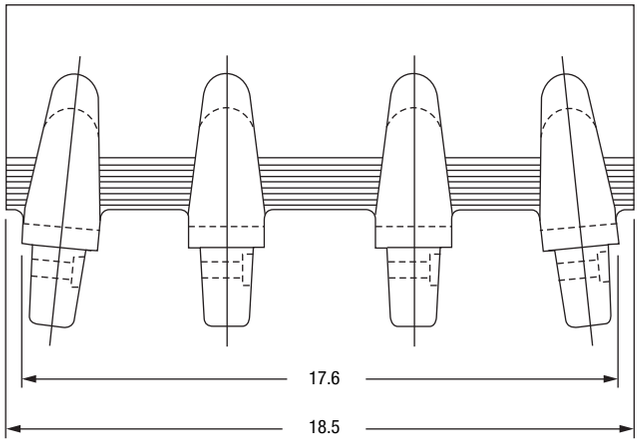
12MCAT-12A-HX
35.3 lb / 16.0 kg
J200 Tooth Series
Std. Tooth: 1U3202HX



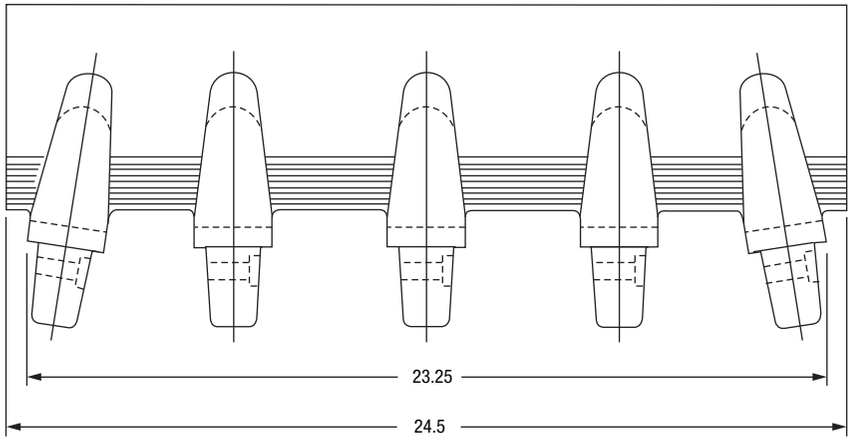


Side view of cast lips

18MCAT-12A-HX
46.6 lb / 21.2 kg
J200 Tooth Series
Std. Tooth: 1U3202HX



24MCAT-12A-HX
62.0 lb / 28.1 kg
J200 Tooth Series
Std. Tooth: 1U3202HX



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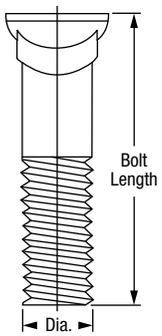
Note: Measurements are in inches.

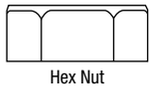
TOOTH/MACHINE REFERENCE GUIDES
Caterpillar Style

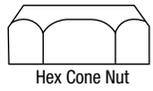
TOOTH/MACHINE QUICK REFERENCE GUIDE							
Cat Tooth Series	**Standard Tooth**	**Backhoe Loaders**	**Early Model Excavators**	**Newer Model Excavators**	**Wheel Loaders**	**Crawler Loaders**	**Scrapers**
J200	1U3202HX	416, 426, 428, 436, 438, (also D3/931 backhoe att.)			416, 426, 428, 436, 438, 910, 910E, F, 914G	931, 935	
J225	6Y3222HX	446	E70	307	446, 933		
J250	1U3252HX		205, 206, 211, 212, 213, 214 , E110, E120B	311, 312	IT12, IT14, IT24F, IT26, IT28, IT38, 916, 918F, 920, 930, 936E, F; 938F, 939	941, 943, 951	613
J300	1U3302HX		215, 219, 224, E180, E200, EL200	315, 320A, B	944, 950, 950B, 950E, F; 960F, G, 962G, 966, 966C	953, 953B, C; 955L, 963, 963B	615, 619, J621, 623
J350	1U3352HX		225, 229, E240	320A, B; 322A, 322B, 325A, B	966D, E, F, G, 970F, 972G, 980, 980B, C, F	963B, 973, 977	633, 639
J400	7T3402HX		229	322A, B; 325A, 325B, 330A, B	980F, G		
J450 J460	9W8452HX		231, 235, 235B, 235C, E300	330A, B; 345B, 350	988, 988B. 988F	983	
J550	9W8552HX		245, 245B	345B, 350	988G, 990, 992, 992B, 992C, D		
J600	6I6602HX			375	992D, 992G		
J700	4T4702HX			375	992D, G; 994		

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PLOW BOLT ASSEMBLIES
Caterpillar Style




Hex Nut


Hex Cone Nut

PLOW BOLTS						
Plow Bolt Assemblies*				Dimensions		
w/Hex Nut	Stock No.	W/Hex Cone Nut	Stock No.	Diameter w/ Threads per Inch		Bolt Length
A58-200	75-1090	-	-	5/8″	11	2″
A58-214	75-1100	-	-	5/8″	11	2 1/4″
A58-212	75-1110	-	-	5/8″	11	2 1/2″
A58-234	75-1120	-	-	5/8″	11	2 3/4″
A58-300	75-1130	-	-	5/8″	11	3″
A58-312	75-1140	-	-	5/8″	11	3 1/2″
A34-212	75-1200	-	-	3/4″	10	2 1/2″
A34-234	75-1210	-	-	3/4″	10	2 3/4″
A34-300	75-1220	-	-	3/4″	10	3″
A34-314	75-1230	-	-	3/4″	10	3 1/4″
A34-312	75-1240	-	-	3/4″	10	3 1/2″
A34-334	75-1250	-	-	3/4″	10	3 3/4″
A34-400	75-1260	-	-	3/4″	10	4″
A34-412	75-1270	-	-	3/4″	10	4 1/2″
A78-300	75-1300	-	-	7/8″	9	3″
A78-314	75-1310	-	-	7/8″	9	3 1/4″
A78-312	75-1320	-	-	7/8″	9	3 1/2″
A78-334	75-1330	-	-	7/8″	9	3 3/4″
A78-400	75-1340	-	-	7/8″	9	4″
A78-412	75-1350	-	-	7/8″	9	4 1/2″
A10-212J**	75-1490	-	-	1″	8	2 1/2″
A10-300	75-1400	AC10-300	72-2400	1″	8	3″
A10-314	75-1410	AC10-314	75-2410	1″	8	3 1/4″
A10-312	75-1420	AC10-312	75-2420	1″	8	3 1/2″
A10-334	75-1430	AC10-334	75-2430	1″	8	3 3/4″
A10-400	75-1440	AC10-400	75-2440	1″	8	4″
A10-412	75-1450	AC10-412	75-2450	1″	8	4 1/2″
A10-500	75-1460	AC10-500	75-2460	1″	8	5″
A114-400	75-1500	AC114-400	75-2500	1 1/4″	7	4″
A114-414	75-1510	AC114-414	75-2510	1 1/4″	7	4 1/4″
A114-412	75-1520	AC114-412	75-2520	1 1/4″	7	4 1/2″
A114-500	75-1530	AC114-500	75-2530	1 1/4″	7	5″
A114-512	75-1540	AC114-512	75-2540	1 1/4″	7	5 1/2″
A114-700	75-1550	-	-	1 1/4″	7	7″

*Plow Bolt Assembly consists of Plow Bolt with Nut.

**Comes w/Hex Jam nut

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HEX NUTS & RETAINERS
Caterpillar Style

HEX NUTS			
Part No.	**Stock No.**	**Inside Dia.**	**Description**
N10J	75-0730	1″	Hex Jam Nut
N58	75-0800	5/8″	Hex Nut
N34	75-0810	3/4″	
N78	75-0820	7/8″	
N10	75-0830	1″	
N114	75-0840	1 1/4″	
N10C	75-0930	1″	Hex Cone Nut
N114C	75-0940	1 1/4″	

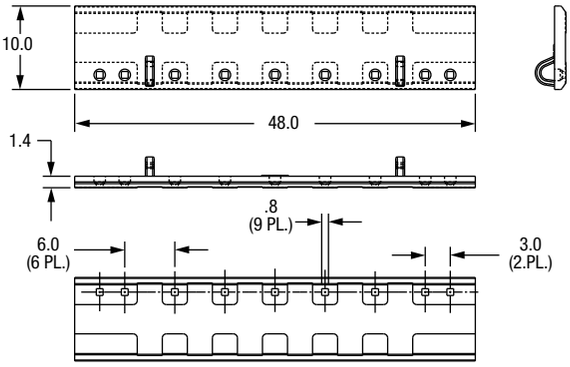
RETAINERS		
Part No.	**Stock No.**	**Inside Dia.**
LW58	75-0600	5/8″
LW34	75-0610	3/4″
LW78	75-0620	7/8″
LW10	75-0630	1″
LW114	75-0640	1 1/4″

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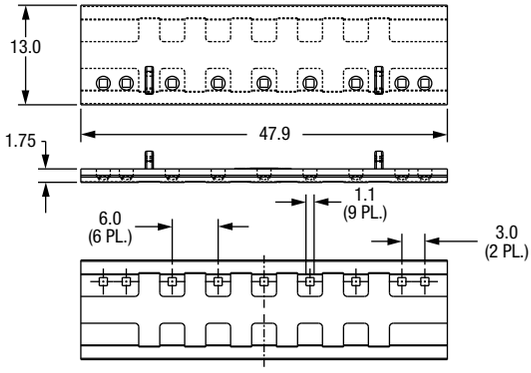
BLADES, SHROUDS & EDGES
Caterpillar Style

CAST GRADER BLADES

4T8317HX4
170.0 lb / 77.0 kg
Cast Edge Flat for Cat® 16G Grader. 9 Holes / 6 Required for Installation. Replaces Cat Part Number 4T8317. Four pieces make a set.

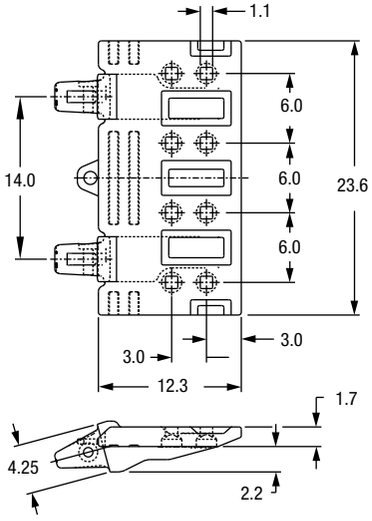


1093116HX6
275.0 lb / 125.0 kg
Cast Edge Flat for Cat® 24H Grader. 9 Holes / 6 Required for Installation. Replaces Cat Part Number 109-3116.



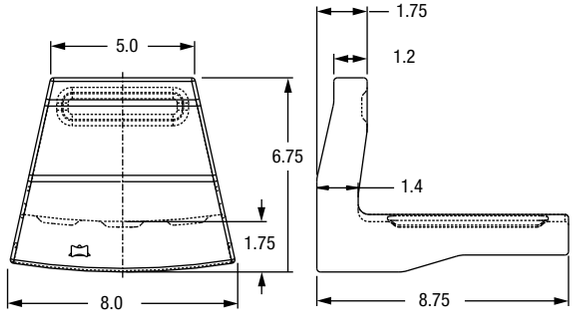
CAST SCRAPER EDGE

9J1107HX
150.0 lb / 68.0 kg
Replaces Cat® 633, 639 part number 9J1107. Two carbide grooves provide additional wear material and protection (carbide optional). Uses (8) 1" x 3.25" Bolts, Hensley Bolt and Nut assembly A10314. Uses J350 series teeth.



HEEL SHROUDS

1386551MHX
38.2 lb / 17.3 kg
Weld-On Corner Heel Shroud Replacement for Cat® part number 138-6551. Hensley part has added height to the leg and has more material.



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Note: Measurements are in inches.

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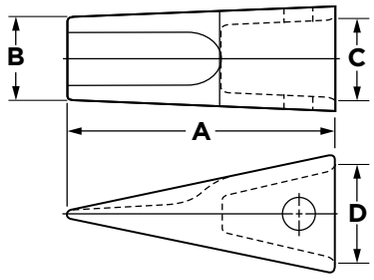
DIRECT REPLACEMENT PRODUCTS

Caterpillar Style - Mining Products

TEETH FOR MINING MACHINES
Caterpillar Style

REPLACEMENT TEETH FOR EXCAVATORS AND LOADERS TOOTH SERIES REFERENCE CHARTS						
Cat Tooth Series	**Type 2 Long**	**Type 4 Tiger**	**Type 5 Twin Tiger**	**Type 6 Abrasive**	**Type 8 AGB (Abrasion)**	**Type 9 Penetrator**
J600	6I6602HX 7V0602HX	T6I6602	6I6602WT	6I6603HX	-	-
J700	4T4702HX	-	-	4T4703HX	-	4T4709HX
J800	6I8802HX	-	-	6I8803HX	6I8803AB	-

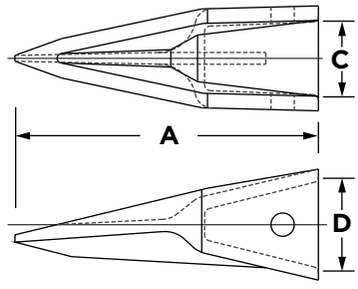
REPLACEMENT TEETH FOR EXCAVATORS AND LOADERS TOOTH SERIES REFERENCE CHARTS CONTINUED						
Type 10 Rock Penetrator	**Type 11 Rock Chisel**	**Type 12 SYL**	**Type 14 Flare Standard**	**Type 15 UT Twin Tiger**	**Type 16 Heavy Duty Penetrator**	**Fasteners**
6I6602RP2 6I6602RP3 135-9600RHX	6I6602RC	6I6602SYL	6I6602F	6I6602UT	135-9600RTC	6I6608P 6I6609W
4T4703RP2 474703RP3 135-9700RHC	4T4702RC	4T4702SYLHX	-	-	135-9700RTC	4T4708P 4T4707W
6I8803RP2 135-9800RHX	6I8802RC	6I8802SYL	-	-	135-800RTC	1020101P 1012874W



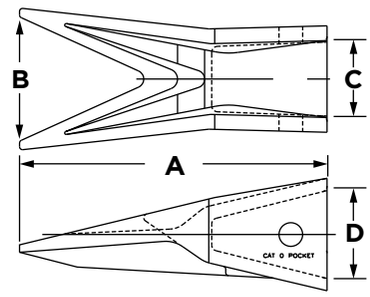
TYPE 2 - LONG												
Cat Tooth Series	**Standard Tooth**		**Dimensions**								**Weight**	
			Overall Tooth				**Tooth Pocket**					
			A		**B**		**C**		**D**			
	Part No.	**Description**	**“**	**mm**	**“**	**mm**	**“**	**mm**	**“**	**mm**	**lb**	**kg**
J600	6I6602HX	Excavator	15.0	381	6.5	165	5.6	143	5.2	132	72.0	32.7
J600	7Y0602HX	Excavator	16.0	406	6.5	165	5.6	143	5.2	132	91.0	41.3
J700	4T4702HX	Excavator	16.5	419	7.1	181	6.0	152	5.7	144	95.0	43.1
J800	6I8802HX	Excavator	18.75	476	8.5	216	6.75	171	6.4	162	194.0	88.0

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TEETH FOR MINING MACHINES
Caterpillar Style



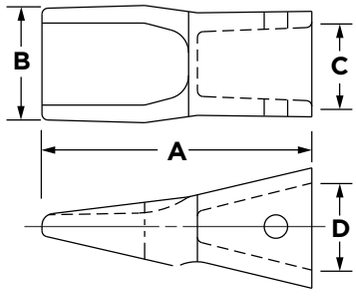
TYPE 4 - TIGER												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	“	mm	“	mm	“	mm	“	mm	lb	kg
J600	T6I6602	Excavator	18.0	457	-	-	5.6	132	5.2	132	68.0	30.9



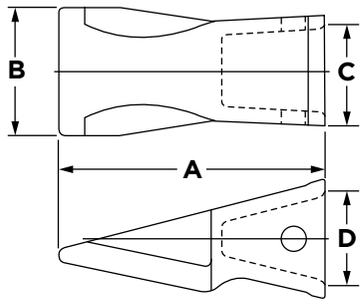
TYPE 5 - TWIN TIGER												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	“	mm	“	mm	“	mm	“	mm	lb	kg
J600	6I6602WT	Excavator	18.0	457	9.25	235	5.6	143	5.2	132	76.0	34.5

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TEETH FOR MINING MACHINES
Caterpillar Style



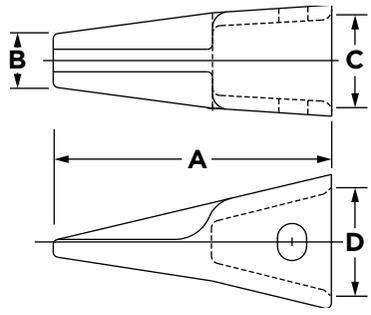
TYPE 6 - ABRASIVE												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	“	mm	“	mm	“	mm	“	mm	lb	kg
J600	6I6603HX	Loader	16.25	413	9.0	229	5.6	143	5.2	132	125.0	56.7
J700	4T4703HX	Excavator	16.4	416	9.0	229	6.0	152	5.7	144	105.0	47.6
J800	6I8803HX	Excavator	18.75	476	11.5	292	6.75	171	6.4	162	230.0	104.4



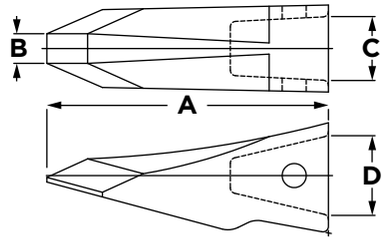
TYPE 8 - ABRASION												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	“	mm	“	mm	“	mm	“	mm	lb	kg
J800	6I8803AB	Loader	18.75	514	8.75	222	6.75	171	6.4	162	205.0	93.0

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TEETH FOR MINING MACHINES
Caterpillar Style



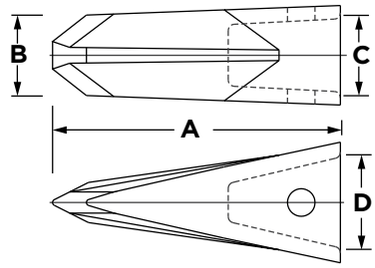
TYPE 9 - PENETRATOR												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	“	mm	“	mm	“	mm	“	mm	lb	kg
J700	4T4709HX	Excavator	16.5	419	7.8	198	6.0	152	5.7	144	82.0	37.2



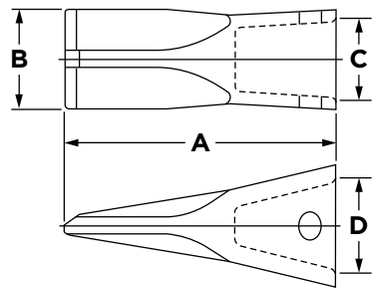
TYPE 10 - ROCK PENETRATOR												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	“	mm	“	mm	“	mm	“	mm	lb	kg
J600	6I6602RP2	Loader	17.75	451	6.25	159	5.6	143	5.2	132	109.0	49.5
J600	6I6602RP3	Loader	18.5	470	6.25	159	5.6	143	5.2	132	127.0	57.6
J600	135-9600RHX carbide grooves	Loader	17.6	447	6.7	170	5.6	143	5.2	132	121.0	54.9
J700	4T4703RP2	Loader	19.5	495	7.0	178	6.0	152	5.7	144	113.5	51.5
J700	4T4703RP3	Loader	19.5	495	7.0	178	6.0	152	5.7	144	148.0	67.2
J700	135-9700RHX carbide grooves	Loader	18.4	467	7.0	178	6.0	152	5.7	144	126.0	57.2
J800	6I8803RP2	Loader	21.0	533	7.5	191	6.75	171	6.4	162	207.0	94.0
J800	135-9800RHX carbide grooves	Loader	20.5	521	8	203	6.75	171	6.4	162	215.0	97.6

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TEETH FOR MINING MACHINES
Caterpillar Style



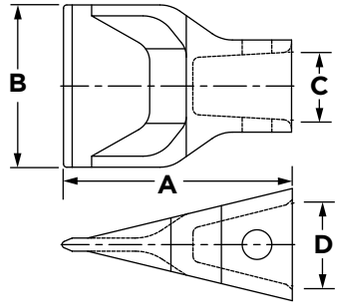
TYPE 11 - ROCK CHISEL												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	“	mm	“	mm	“	mm	“	mm	lb	kg
J600	6I6602RC	Excavator	18.0	457	6.2	157	5.6	143	5.2	132	86.0	39.0
J700	4T4702RC	Excavator	19.0	483	6.5	165	6.0	152	5.7	144	98.0	44.5
J800	6I8802RC	Excavator	21.0	533	8.9	225	6.75	171	6.4	162	176.0	79.8



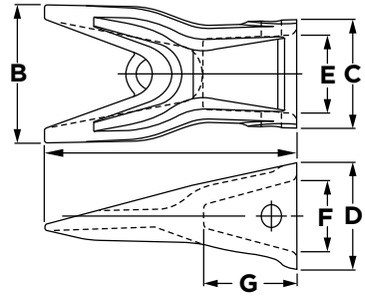
TYPE 12 - SYL												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	“	mm	“	mm	“	mm	“	mm	lb	kg
J600	6I6602SYL	Excavator	16.5	419	7.5	190	5.6	143	5.2	132	76.0	34.5
J700	4T4702SYL	Excavator	18.0	457	7.5	190	6.0	152	5.7	144	95.0	43.1
J800	6I8802SYL	Excavator	21.0	533	8.9	225	6.75	171	6.4	162	148.0	67.2

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TEETH FOR MINING MACHINES
Caterpillar Style



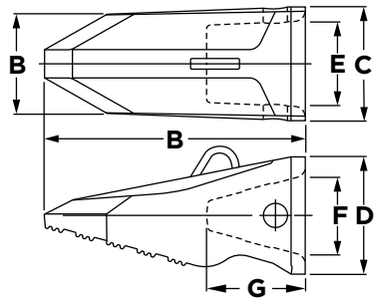
TYPE 14 - FLARE STANDARD												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	“	mm	“	mm	“	mm	“	mm	lb	kg
J600	6I6602F	Excavator	16.0	406	12.5	317	5.6	143	5.2	132	89.0	40.4



TYPE 15 - UT TWIN TIGER												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	“	mm	“	mm	“	mm	“	mm	lb	kg
J600	6I6602UT	Excavator	18.0	457	9.9	251	5.6	143	5.2	132	85.0	38.6

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TEETH FOR MINING MACHINES
Caterpillar Style

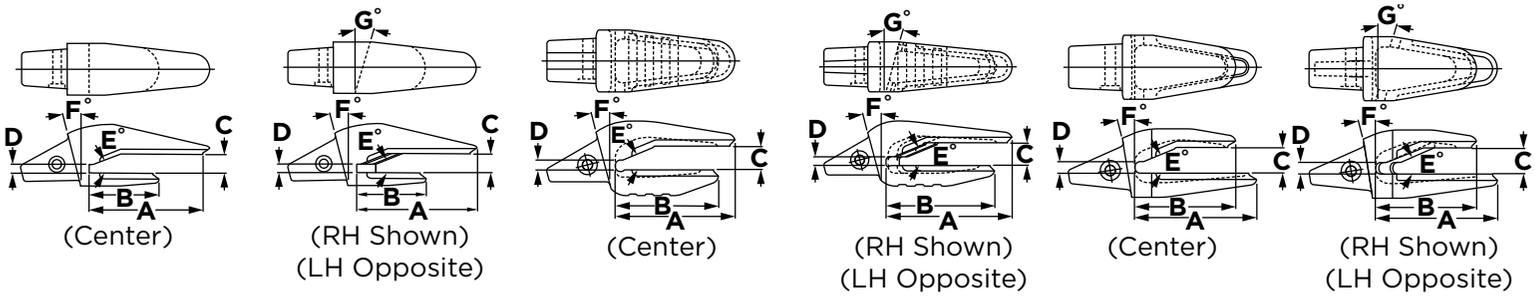


TYPE 16 - HEAVY DUTY PENETRATOR												
Cat Tooth Series	Standard Tooth		Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
	Part No.	Description	“	mm	“	mm	“	mm	“	mm	lb	kg
J600	135-9600RTC with carbide in grooves	Loader	17.6	447	6.7	170	5.6	143	5.2	132	122.0	55.4
J700	135-9700RTC with carbide in grooves	Loader	18.4	467	7.0	178	6	152	5.7	144	126.0	57.2
J800	135-9800RTC with carbide in grooves	Loader	20.5	521	8.0	203	6.75	171	6.4	162	215.0	97.6

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ADAPTERS FOR MINING MACHINES
Caterpillar Style

REPLACEMENT ADAPTERS FOR EXCAVATORS AND LOADERS TOOTH SERIES REFERENCE CHARTS										
Lip Thickness		Cat Tooth Series	1	2	5	11	12	13	Teeth Fasteners	
"	mm								Pins	Washers
3.0	76	J700	4T4704HXC 4T4705HXR 4T4706HXL	-	-	-	6I6604HX 132-4705THX 132-4706LHX		4T4708P	4T4707W
3.5	89	J700	358-994HXC 358-994HXR 358-994HXL	-	-	-	-		4T4708P	4T4707W
4.0	102	J800	6I8804HX 6I8804EHX	-	6I8804CEHX	-	-		1020101P	1012874W



(Center) (RH Shown) (LH Opposite) — Type 1

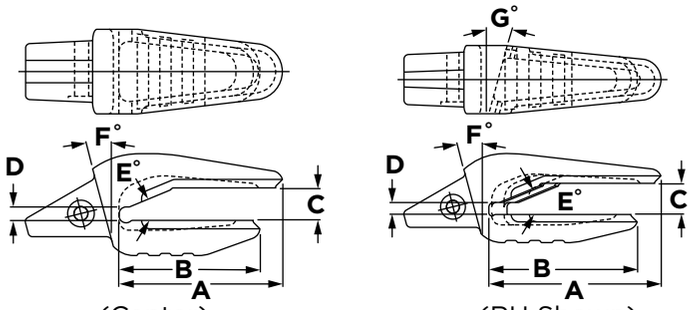
(Center) (RH Shown) (LH Opposite) — Type 5

(Center) (RH Shown) (LH Opposite) — Type 12

ADAPTERS																			
Lip Thickness		Hensley Part No.	Type	Cat Tooth Series	Dimensions													Weight	
					A		B		C		D		E	F	G	H			
"	mm				"	mm	"	mm	"	mm	"	mm				"	mm	lb	kg
3.0	76	4T4704HXC	1	J700	18.1	460	13.1	333	3.1	78	1.0	25	22°-30'	15°	-	-	-	186.0	84.4
		4T4705HXR & 4T4706HXL	1		18.1	460	13.1	333	3.1	78	1.0	25	22°-30'	15°	15°	-	-	186.0	84.4
3.0	75	6I6604HX	12	J600	14.5	368	12.0	305	3.1	78	1.4	35	22°	9°	15°	-	-	126.0	57.2
		132-4705RHX 132-4706LHX	12	J700	14.5	368	12.0	305	3.1	78	1.4	35	22°	9°	15°	-	-	135.0	61.3
3.5	89	358-994HXC	1	J700	20.0	508	10.5	268	3.6	92	1.0	25	30°	15°	-	-	-	158.0	71.7
		358-994HXR & 358-994HXL	1		20.0	508	10.5	268	3.6	92	1.0	25	30°	15°	10°	-	-	158.0 158.0	71.7 71.7
4.0	102	6I8804HX	1	J800	17.25	438	13.25	337	4.1	105	1.3	33	22°-30'	15°	-	-	-	234.0	106.1
		6I8804EHX	1		17.25	438	13.25	337	4.1	105	1.3	33	30°	10°	-	-	-	232.0	105.3
		6I8804CEHX	5		17.25	438	13.25	337	4.2	106	1.3	33	30°	10°	-	3.2	81	270.0	122.6

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ADAPTERS FOR MINING MACHINES
Caterpillar Style

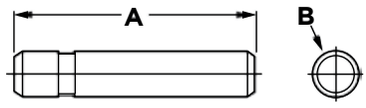


Type II

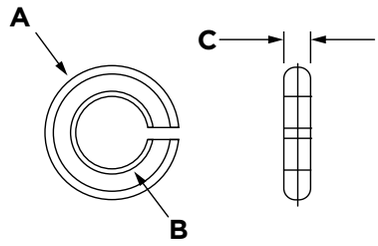
ADAPTERS WITH CARBIDE GROOVES																	
Lip Thickness		Hensley Part No.	Type	Cat Tooth Series	Dimensions											Weight	
					A		B		C		D		E	F	G		
“	mm				“	mm	“	mm	“	mm	“	mm				lb	kg
2.5	63	107-3554HX	11	J700	14.5	368	12.5	305	2.6	67	1.0	25	22°	15°	-	92.0	41.7
		107-3555HX (RH) & 107-3556HX (LH)	11		14.5	368	12.5	305	2.6	67	1.0	25	22°	15°	-	97.0	44.0
2.5	63	112-2554HX	11	J700	14.5	368	12.5	305	2.6	67	1.0	25	22°	15°	-	94.0	42.6
		122-2555HX (RH) & 122-2556HX (LH)	11		14.5	368	12.5	305	2.6	67	1.0	25	22°	15°	-	98.0	44.5
2.75	70	119-8604HX	11	J600	14.5	368	12.5	317	2.9	73	1.2	30	22°	15°	-	156.0	70.8
		119-8605HX (RH) 119-8606HX (LH)	11		14.5	368	12.5	317	2.9	73	1.2	30	22°	15°	15°	169.0	76.7

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FASTENERS FOR MINING MACHINES
Caterpillar Style



PINS						
Part No.	Dimensions				Weight	
	A		B (Dia.)			
	″	mm	″	mm	lb	kg
4T4708P	7.7	195	1.25	32	2.7	1.2
1020101P	9.6	244	1.4	35	3.9	1.8
6I6608P	7.6	194	1.2	30	2.3	1.0



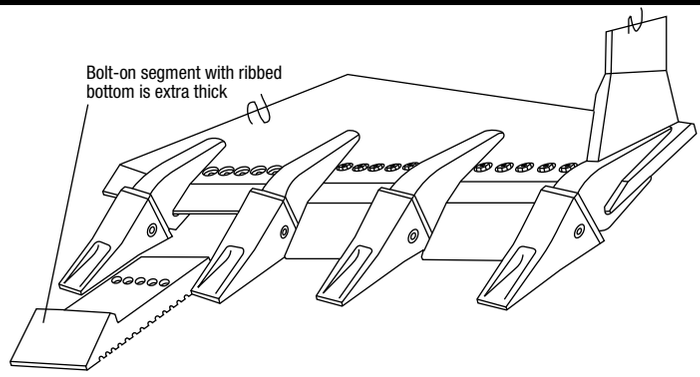
WASHERS								
Part No.	Dimensions						Weight	
	A (O.D.)		B (I.D.)		C			
	″	mm	″	mm	″	mm	lb	kg
4T4707W	2.5	64	1.2	31	0.4	10	0.4	0.2
1012874W	2.7	68	1.3	34	0.4	9	0.5	0.22
6I6609W	2.25	57	1.2	29	0.3	8	0.3	0.14

Note: 1020101P (pin) & 102874W (washer) are also utilized on 117-6801HX module style adapter cover.

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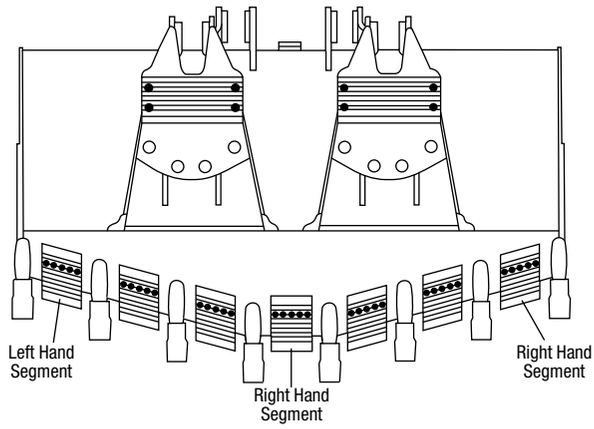
Note: Measurements are in inches.

BOLT ON SEGMENTS FOR LOADERS
Caterpillar Style



BOLT-ON SEGMENTS FOR CATERPILLAR® 994 LOADER

- Durable heat-treated steel castings
- Half arrow design - increases penetration and reduces wear to the leading edge
- Ribbed-bottom design traps material to greatly reduce wear
- Thicker material on the bottom extends wear life beyond O.E.M. flat plate



Bottom View of Loader Bucket

BOLT-ON SEGMENTS FOR CATERPILLAR® 992G & 994 LOADERS

Loader Model	Center	Right Hand	Left Hand	Plow Bolt Assembly (no. req'd.)
992G	109-2675NRHX	109-2676NRHX	109-2677NRHX	AC114-512 (4)
994	103-1833NRHX	103-1834NRHX	103-1835NRHX	AC114-512 (5)
	109-9033NRHX	117-6805NRHX	117-6806NRHX	AC114-512 (5)
	109-9033NRSHX	117-6805NRSHX	117-6806NRSHX	AC114-512 (5)

BOLT-ON TOP COVERS FOR CAT® 992G LOADERS

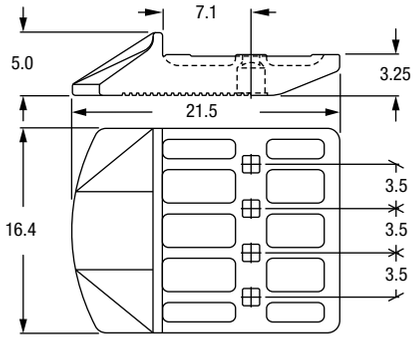
Type	Center	Right Hand	Left Hand
Top Cover	195-7096HX	195-7097HX	195-7098HX
Segment Used With	109-2675NRHX	109-2676NRHX	109-2677NRHX
Plow Bolt Assmembly (no. req'd.)	TBD	TBD	TBD

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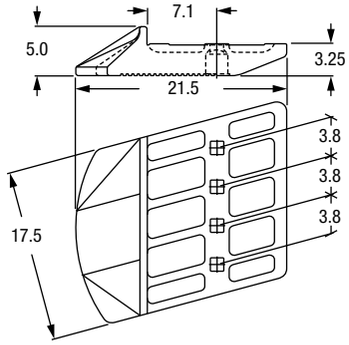
BOLT ON SEGMENTS FOR LOADERS
Caterpillar Style

BOLT-ON SEGMENTS FOR CATERPILLAR 994 LOADER

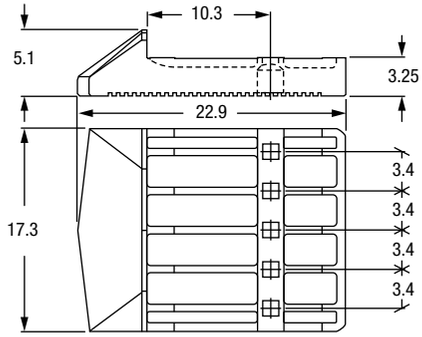
109-2675NRHX
center
246.0 lb / 111.7 kg



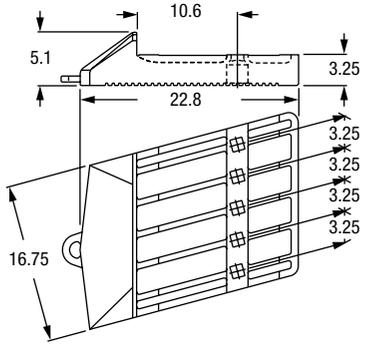
109-2676NRHX (RH Shown)
109-2677NRHX (LH Opposite)
268.0 lb / 121.7 kg



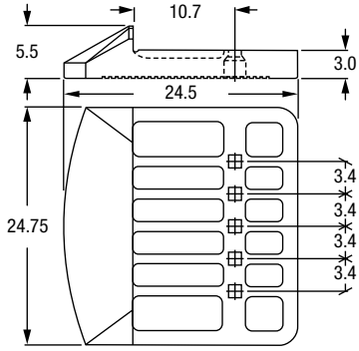
103-1833NRHX*
Center
294.0 lb / 133.5 kg



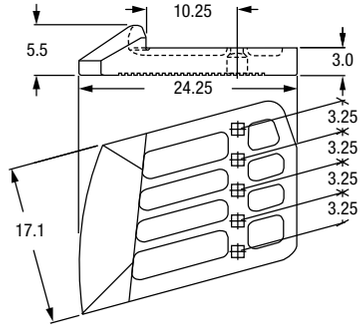
103-1834NRHX* (RH Shown)
103-1835NRHX* (LH Opposite)
294.0 lb / 133.5 kg



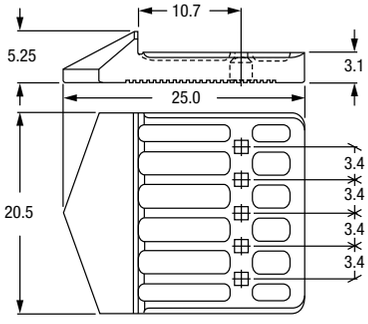
109-9033NRHX*
Center
443.0 lb / 201.1 kg



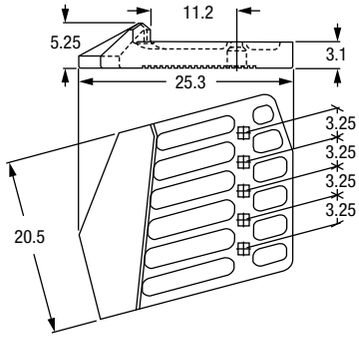
117-6805NRHX*(RH Shown)
117-6806NRHX*(LH Opposite)
312.0 lb / 141.6 kg



109-9033NRSHX*
Center
372.0 lb / 168.9 kg



117-6805NRSHX* (RH Shown)
117-6806NRSHX* (LH Opposite)
379.0 lb / 172.0 kg

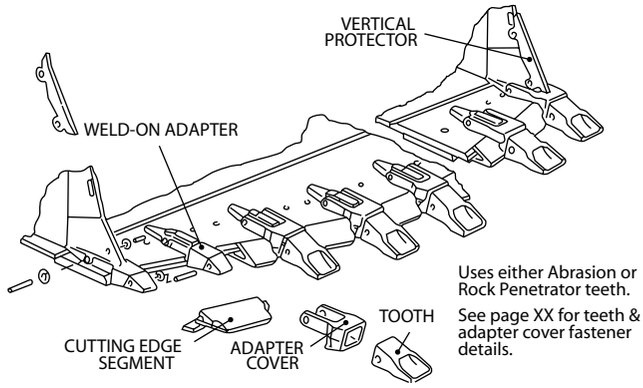


*Each Segment Requires (5) 1 1/4" x 4" Plow Bolts.
Plow Bolt Assembly No. A114-400

Note: Measurements are in inches.

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MODULOK STYLE WEAR PARTS FOR LOADERS
Caterpillar Style

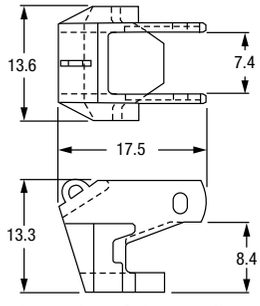


MODULOK STYLE WEAR PARTS FOR CATERPILLAR® 992G & 994 LOADERS						
Loader Model	**Bucket Width**		**Adapters**		**Adapter Covers**	
	“	**mm**	**Center**	**Corner**	**Center**	**Corner**
992G	187	4750	119-9604HX (7) [J600 tooth series]	119-9605HX (2) [J600 tooth series]	133-0734HX (7) uses 6I6608P [pin] & 6I6609W [washer]	133-0735HX (2) uses 6I6608P [pin] & 6I6609W [washer]
994 Spade	222	5639	101-1808HX (6) [J800 tooth series]	101-1808HX (2) [J800 tooth series]	117-6801HX (8) uses 101010P [pin] & 1012874W [washer]	117-6801HX (2) uses 101010P [pin] & 1012874W [washer]
	222	5639	101-1808HX (6) [J800 tooth series]	101-1808HX (2) [J800 tooth series]	117-6801HX (8) uses 101010P [pin] & 1012874W [washer]	117-6801HX (2) uses 101010P [pin] & 1012874W [washer]
	245	6223	101-1808HX (7) [J800 tooth series]	101-1808HX (2) [J800 tooth series]	117-6801HX (9) uses 101010P [pin] & 1012874W [washer]	117-6801HX (2) uses 101010P [pin] & 1012874W [washer]

MODULOK STYLE WEAR PARTS FOR CATERPILLAR® 992G & 994 LOADERS CONTINUED					
Loader Model	**Bucket Width**		**Cutting Edge Segments**		
	“	**mm**	**Left**	**Center**	**Right**
992G	187	4750	-	-	-
994 Spade	222	5639	109-3140HX (2)	109-3141HX (3)	109-3139HX (2)
	222	5639	109-3140HX (3)	109-0311HX (1)	109-3139HX (3)
	245	6223	109-3140HX (3)	109-3138HX (2)	109-3139HX (3)

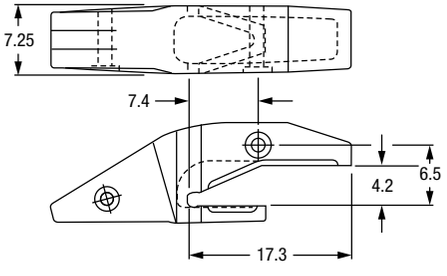
ADAPTER COVER

117-6801HX
190.0 lb / 89.9 kg
Uses 102010P (pin) & 1012874W (washer).



ADAPTER

101-1808HX
313.0 lb / 142.0 kg
Used with 6I8803HX abrasion tooth or 6I8803RP2 rock penetrator tooth.



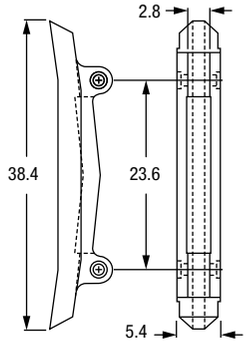
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Note: Measurements are in inches.

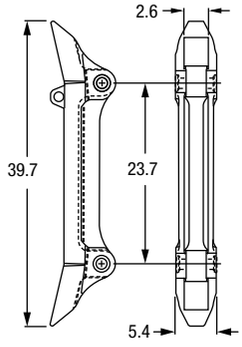
MODULOK STYLE WEAR PARTS FOR LOADERS
Caterpillar Style

VERTICAL PROTECTOR

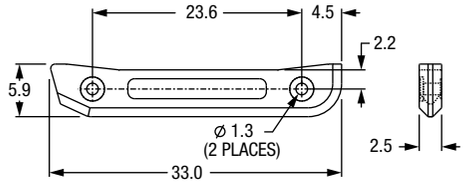
8E3814HX
145.0 lb / 65.8 kg
Fastens with (2) 8E4708P (pin)
& (2) 4T4707W (washer)



125-0800HX
117.0 lb / 53.1 kg
Vertical protector fastens with
(2) 8E4708P (pin) & (2) 4T4707W (washer)

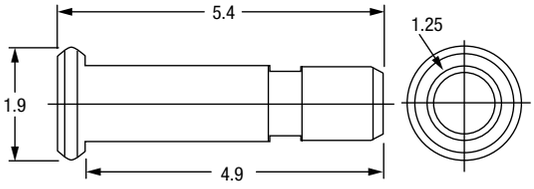


135-9794HX
103.0 lb / 46.7 kg
Base sidebar protector



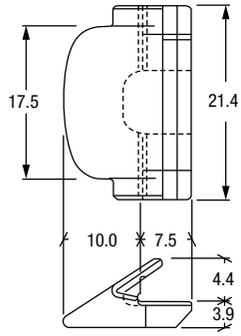
PROTECTOR PIN

8E4708P
2.0 lb / .88 kg
Uses 4T4707W (washer)

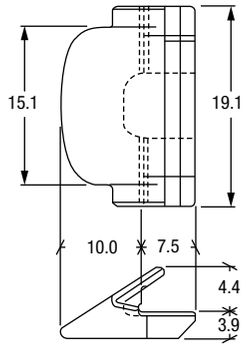


EDGE SEGMENTS

109-3141HX
313.0 lb / 142.0 kg

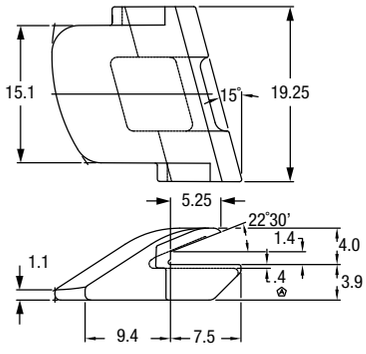


109-3138HX
281.0 lb / 127.5 kg

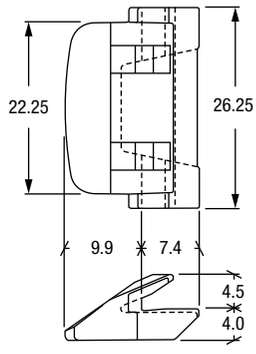


EDGE SEGMENTS

109-3140HX (LH Shown)
109-3139HX (RH Opposite)
293.0 lb / 132.9 kg



113-0311HX
459.0 lb / 138.4 kg



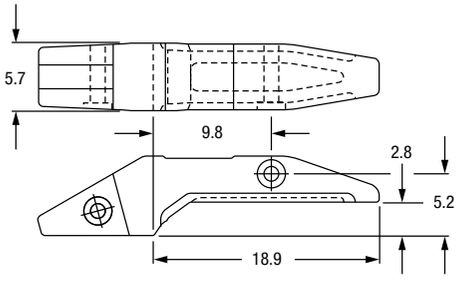
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Note: Measurements are in inches.

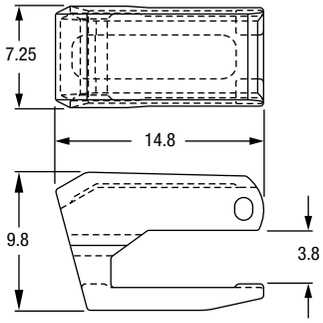
MODULOK STYLE WEAR PARTS FOR LOADERS
Caterpillar Style

992G

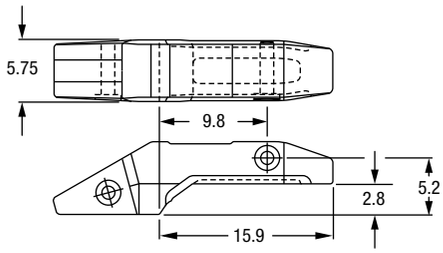
119-9604HX
144.0 lb / 65.4 kg



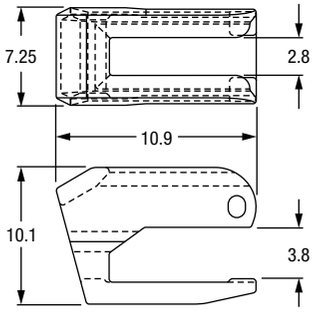
133-0734HX
77.0 lb / 35.0 kg



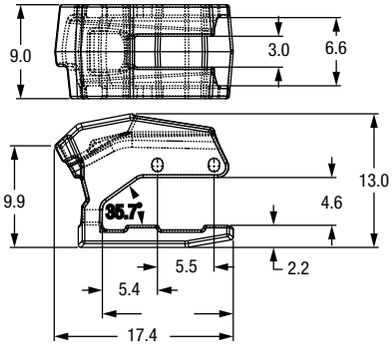
119-9605HX (corner)
141.0 lb / 64.0 kg



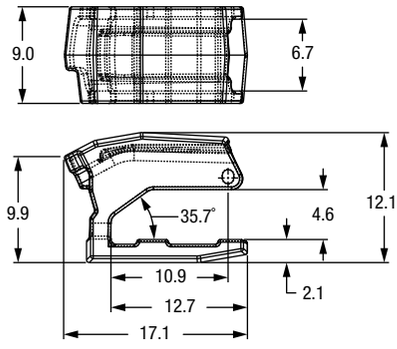
133-0735HX (corner)
73.0 lb / 33.1 kg



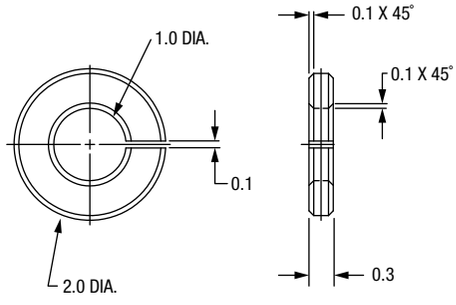
264203IHX
Corner adapter cover
Uses 3100772P (pin) & 8E5559W (washer)
168.0 lb / 76.2 kg



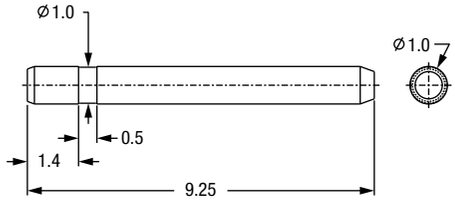
2642064HX
Corner adapter cover
Uses 3100772P (pin) & 8E5559W (washer)
143.0 lb / 64.7 kg



8E5559W
Washer
0.2 lb / 0.09 kg



3100772P
Pin
2.0 lb / 0.9 kg



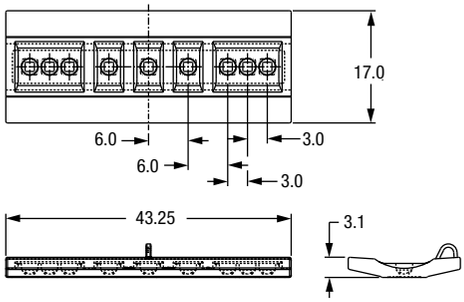
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Note: Measurements are in inches.

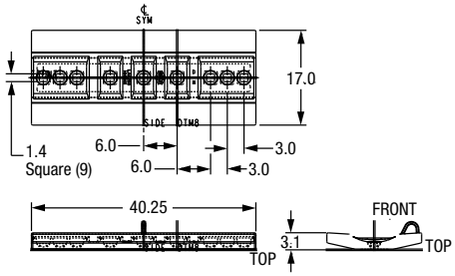
WEAR PARTS FOR D11 DOZERS
Caterpillar Style

CAST EDGES			
Machine	**Serial No.**	**Center Edge (#) nut/bolt assy.**	**End Edge (#) nut/bolt assy.**
D11-SU	4BB, 4KB, 9NH, 1AP, 4XP	LA6257HHD-HX, 2 req'd. (9) A114-514	LA6258HHD-HX, 2 req'd. (9) A114-514
D11-U	4CB, 5TB, 9MH, 92H, 4YP	LA6257HHD-HX, 2 req'd. (9) A114-500	LA6258HHD-HX, 2 req'd. (9) A114-514 LA6259HHD-HX, 2 req'd. (9) A114-514

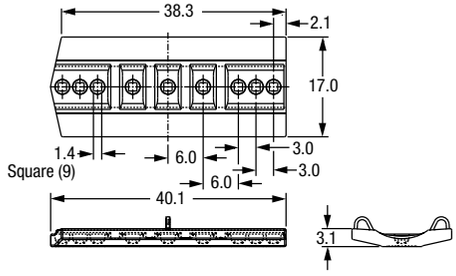
LA6257HHDHX
410.0 lb / 185.9 kg



LA6259HHDHX
385.0 lb / 174.6 kg



LA6258HHDHX
375.0 lb / 170.0 kg



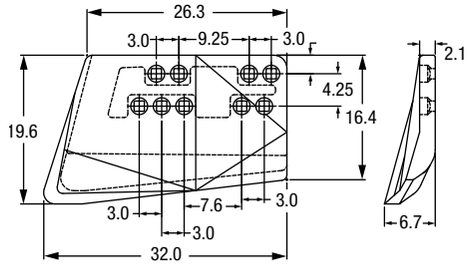
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Note: Measurements are in inches.

WEAR PARTS FOR D11 DOZERS
Caterpillar Style

CAST END BITS				
Machine	**Serial No.**	**Heavy Duty Ribbed End Bit (#) nut/bolt assy.**	**Standard Duty End Bit (#) nut/bolt assy.**	
D11-SU, D11-U	4BB, 4KB, 9NH, 1AD, 4CA, 5TB, 9MH, 9ZH, 4YP	-	8E4545RH, 1 req'd. (9) A114-514	8E4546LH, 1 req'd. (9) A114-514

8E4545RH (RH shown)
8E4545LH (LH opposite)
382.0 lb / 173.3 kg



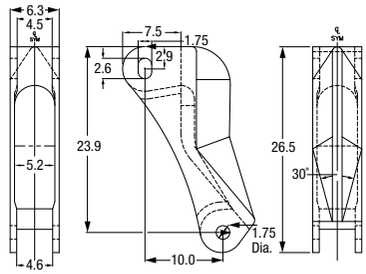
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Note: Measurements are in inches.

WEAR PARTS FOR D11 DOZERS
Caterpillar Style

SHANK GUARDS

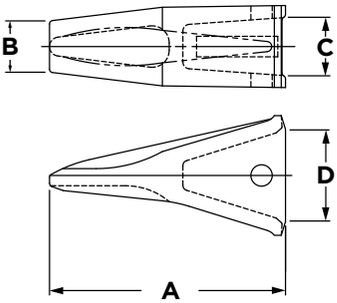
9N4621HX
173.0 lb / 78.5 kg
Used on 8E0467 & BE1466
Ripper Shank Assemblies



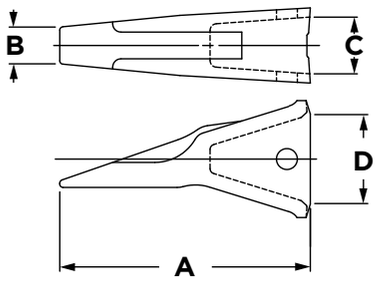
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Note: Measurements are in inches.

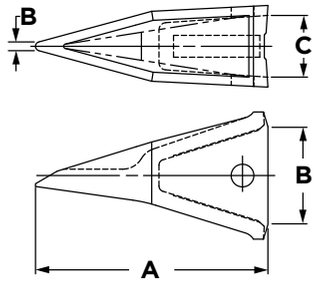
WEAR PARTS FOR D11 DOZERS
Caterpillar Style



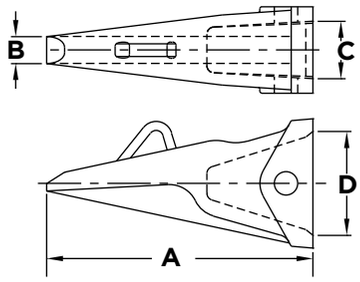
Type 1
(Centerline)



Type 2
(Non-Centerline)



Type 3
(Tiger)



Type 4
(Non-Centerline)

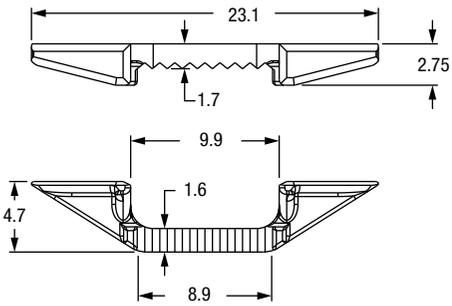
RIPPER TEETH												
Tooth Series	Ripper Tooth Part No.	Type	Dimensions								Weight		Fasteners
			Overall Tooth				Tooth Pocket						
			A		B		C		D				
			″	mm	″	mm	″	mm	″	mm	lb	kg	
R550	9W4551HX	1	17.6	448	3.0	76	4.6	116	8.4	213	88.5	40.1	8E2229P / 1012874W or 6Y2443P
	9W4552HX	1	21.25	540	3.0	76	4.6	116	8.4	213	107.0	48.5	
	6Y3552HX	2	21.25	540	3.1	80	4.6	116	8.4	213	100.0	45.4	
	T9W4552	3	20.0	508	-	-	4.6	116	8.4	213	96.7	43.9	

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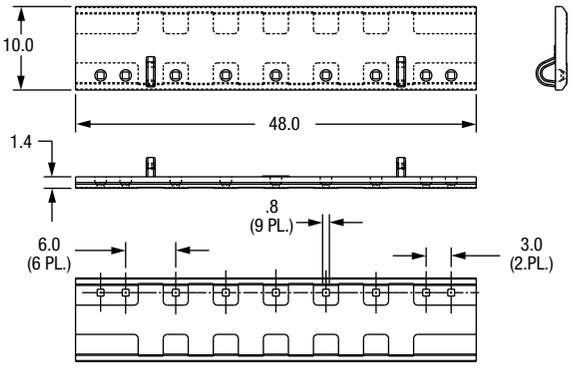
MISCELLANEOUS WEAR PARTS
Caterpillar Style

MISCELLANEOUS PARTS

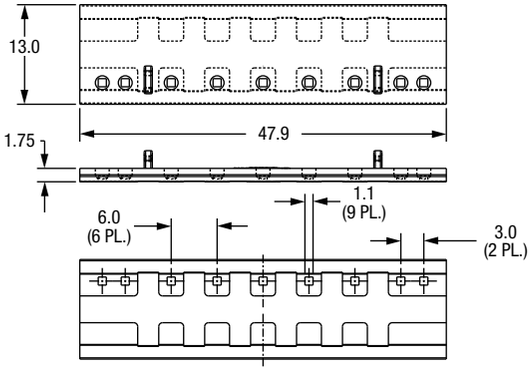
Weld-on Step
7T-5140HX
20.0 lb / 9.1 kg
(Replaces Cat® part number 7T5140.
Used on D8 thru D11 dozers and
all models of excavators.)



4T8317HX4
170.0 lb / 77.0 kg
Cast Edge Flat for Cat® 16G
Grader. 9 Holes / 6 Required for
Installation. Replaces Cat Part
Number 4T8317. Four pieces
make a set.

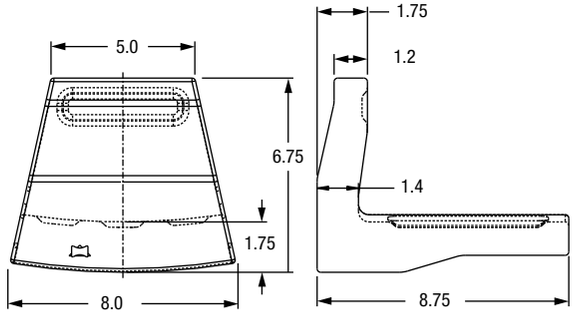


1093116HX6
275.0 lb / 125.0 kg
Cast Edge Flat for Cat® 24H
Grader. 9 Holes / 6 Required for
Installation. Replaces Cat Part
Number 109-3116.



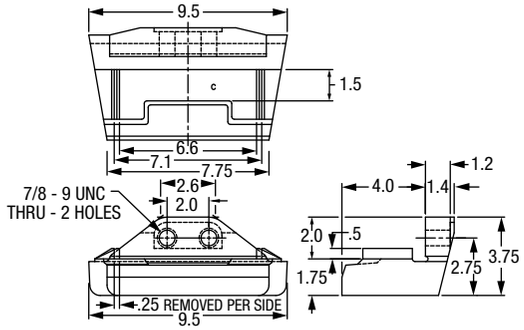
HEEL SHROUDS

1386551MHX
38.2 lb / 17.3 kg
Weld-On Corner Heel Shroud
Replacement for Cat® part
number 138-6551. Hensley part
has added height to the leg and
has more material.



BOGIE GUIDE

8P5374MHX
24.6 lb / 11.2 kg
Note: Used on D10 Dozers



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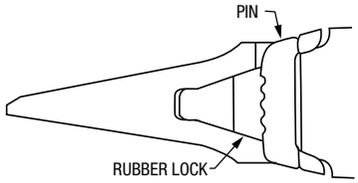
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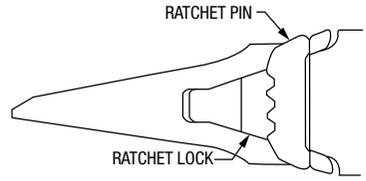
3.4

DIRECT REPLACEMENT PRODUCTS

Esco Style

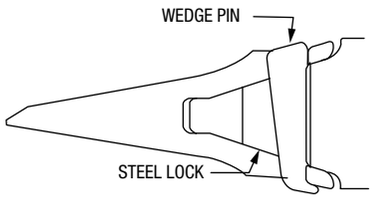
TEETH FASTENING SYSTEMS
Conical Style Series

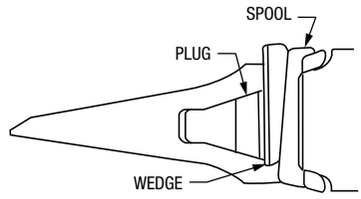




STANDARD PIN & RUBBER LOCK		
Tooth Series	**Pin**	**Rubber Lock**
25 & 30	25/30PNP	25/30LKR
35	35PNP	35/40LKR
40	40PNP	35/40LKR
45	45PNP	45LKR
50	50PNP	50LKR
55	55PNP	55LKR
65	65PNP	65LKR
70	70PNP	70LKR

RATCHET STYLE PIN & RUBBER LOCK		
Tooth Series	**Pin**	**Rubber Lock**
35	35PNRP	35/40LKRR
40	40PNRP	35/40LKRR
45	45PNRP	45LKRR
50	50PNRP	50LKRR
55	55PNRP	55LKRR

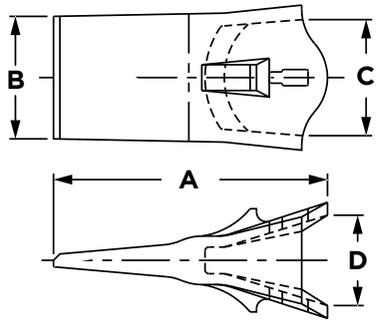




WEDGE TYPE PIN & STEEL LOCK (SLAG APPLICATIONS)		
Tooth Series	**Pin**	**Rubber Lock**
50	50PNTP	50SLKR
55	55PNTP	55SLKR

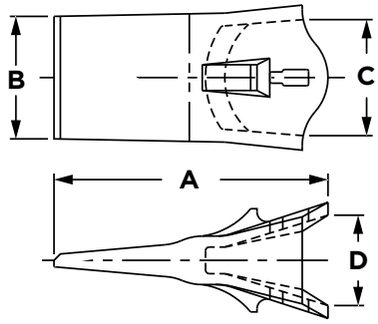
3 PIECE SPOOL, WEDGE & PLUG ASSEMBLY (SLAG APPLICATIONS)			
Tooth Series	**Spool**	**Wedge**	**Plug**
55	SP55P	55W1W	55PLP
70	70SPS	70W1W (STD) or 70W2W (O/S)	70PLP

TEETH
Conical Style Series



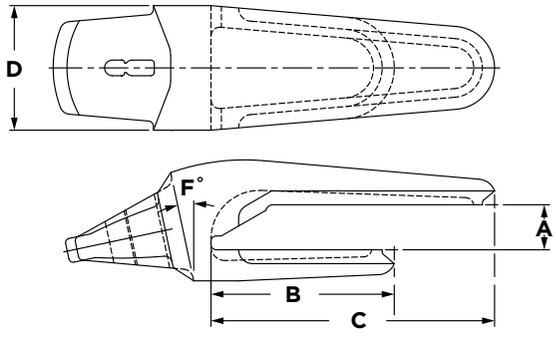
TEETH													
Hensley Part No.	Tooth Description	Fastener		Dimensions								Weight	
				Overall Tooth				Tooth Pocket					
				A		B		C		D			
		Pin	Lock	“	mm	“	mm	“	mm	“	mm	lb	kg
18SLHX	Sharp	18/20MPNP	18/20MLKR	5.9	149	2.1	54	1.8	46	1.5	38	1.9	0.9
18THX	Tilt Front	18/20MPNP	18/20MLKR	4.8	122	2.2	56	1.8	46	1.5	38	1.8	0.8
18VIPHX	Tiger	18/20MPNP	18/20MLKR	6.9	175	0.4	10	1.8	46	1.5	38	2.5	1.1
18TVIPHX	Tiger Twin	18/20MPNP	18/20MLKR	6.9	175	3.0	76	1.8	46	1.5	38	3.0	1.4
25RHX	Rock	25/30PNP	25/30LKR	6.2	157	2.5	64	2.6	65	2.4	60	4.2	1.9
25SHX	Sharp	25/30PNP	25/30LKR	7.0	178	2.5	64	2.6	65	2.4	60	4.4	2.0
25S5FHX	Flare	25/30PNP	25/30LKR	6.9	175	5.0	127	2.6	65	2.4	60	6.8	3.1
25THX	Tilt Front	25/30PNP	25/30LKR	7.0	178	2.5	64	2.6	65	2.4	60	4.8	2.2
25TFHX	Tilt Front & Flare	25/30PNP	25/30LKR	7.0	178	3.25	83	2.6	65	2.4	60	5.8	2.6
25VIPHX	Tiger	25/30PNP	25/30LKR	8.9	225	0.25	6	2.6	65	2.4	60	7.1	3.2
25TVIPHX	Twin Tiger	25/30PNP	25/30LKR	8.5	216	3.5	89	2.6	65	2.4	60	7.6	3.4
30APHX	Abrasion & Panelled	25/30PNP	25/30LKR	7.6	192	3.75	95	3.0	76	2.4	60	7.3	3.3
30RHX	Rock	25/30PNP	25/30LKR	6.7	170	3.1	78	3.0	76	2.4	60	6.1	2.8
30SHX	Sharp	25/30PNP	25/30LKR	7.1	181	3.1	79	3.0	76	2.4	60	5.5	2.5
30S6FHX	Flare	25/30PNP	25/30LKR	7.0	178	6.0	152	3.0	76	2.4	60	8.0	3.6
30THX	Tilt Front	25/30PNP	25/30LKR	7.0	178	3.2	81	3.0	76	2.4	60	6.0	2.7
30TVIPHX	Twin Tiger	25/30PNP	25/30LKR	8.5	216	4.0	102	3.0	76	2.4	60	8.0	3.6
30VIPHX	Tiger	25/30PNP	25/30LKR	8.75	222	0.4	10	3.0	76	2.4	60	7.0	3.2
35APHX	Abrasion & Panelled	35PNP	35/40LKR	8.5	216	4.25	108	3.5	89	2.9	73	10.0	4.5
35RDXHX	Rock & Chisel	35PNP	35/40LKR	9.1	232	2.25	57	3.5	89	2.9	73	9.4	4.3
35S6FHX	Flare	35PNP	35/40LKR	8.5	216	6.0	152	3.5	89	2.9	73	11.2	5.1
35SHX	Sharp	35PNP	35/40LKR	8.4	213	3.6	92	3.5	89	2.9	73	8.4	3.8
35TVIPHX	Twin Tiger	35PNP	35/40LKR	10.25	260	4.75	121	3.5	89	2.9	73	13.4	6.1
35VIPHX	Tiger	35PNP	35/40LKR	10.6	268	0.6	14	3.5	89	2.8	71	10.5	4.8
40APHX	Abrasion & Panelled	40PNP	35/40LKR	9.75	248	4.75	121	4.0	102	3.1	79	16.2	7.3
40RHX	Rock	40PNP	35/40LKR	8.4	214	4.5	114	4.0	102	3.1	79	10.7	4.9
40RDXHX	Rock & Chisel	40PNP	35/40LKR	10.25	260	2.5	64	4.0	102	3.1	79	13.0	5.9
40SHX	Sharp	40PNP	35/40LKR	9.4	238	4.2	106	4.0	102	3.1	79	12.1	5.5
40S7FHX	Flare	40PNP	35/40LKR	9.5	241	7.0	178	4.0	102	3.0	76	15.7	7.1
40SDHX	Sharp & Narrow	40PNP	35/40LKR	9.6	244	2.25	57	4.0	102	3.0	76	11.2	5.1
40SLHX	Sharp & Long	40PNP	35/40LKR	10.4	265	4.25	108	4.0	102	3.1	79	12.5	5.7
40THX	Tilt Front	40PNP	35/40LKR	8.9	227	4.25	108	4.0	102	3.1	79	12.4	5.6
40TVIPHX	Twin Tiger	40PNP	35/40LKR	10.0	254	5.0	127	4.0	102	3.1	79	16.9	7.7
40VIPHX	Tiger	40PNP	35/40LKR	12.1	308	0.5	13	4.0	102	3.1	79	18.2	8.3

TEETH CONTINUED
Conical Style Series

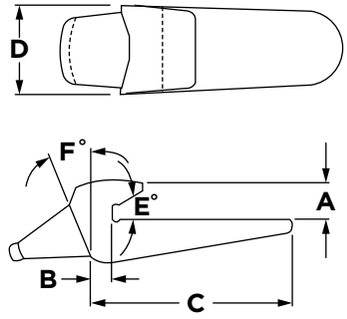


TEETH CONTINUED													
Hensley Part No.	Tooth Description	Fastener		Dimensions								Weight	
				Overall Tooth				Tooth Pocket					
				A		B		C		D			
		Pin	Lock	“	mm	“	mm	“	mm	“	mm	lb	kg
45RHX	Rock	45PNP	45LKR	9.6	244	4.75	121	4.5	114	3.5	89	15.8	7.2
45RDXHX	Rock & Chisel	45PNP	45LKR	11.4	291	2.8	71	4.5	114	3.5	89	17.7	8.0
45SHX	Sharp	45PNP	45LKR	10.6	270	4.75	121	4.5	114	3.5	89	16.7	7.6
45S8FHX	Flare	45PNP	45LKR	10.9	276	8.0	203	4.5	114	3.5	89	23.0	10.4
45TVIPHX	Twin Tiger	45PNP	45LKR	12.0	305	6.0	152	4.5	114	3.5	89	26.5	12.0
45VIPHX	Tiger	45PNP	45LKR	13.6	346	0.7	17	4.5	114	3.5	89	27.4	12.4
50LPHX	Long & Panelled	50PNP	50LKR	11.9	303	5.1	130	4.9	124	3.8	97	26.9	12.2
50RHX	Rock	50PNP	50LKR	10.6	270	5.25	133	4.9	124	3.8	97	23.7	10.8
50RDXHX	Rock & Chisel	50PNP	50LKR	12.0	305	3.0	76	4.9	124	3.8	97	20.3	9.2
50SHX	Sharp	50PNP	50LKR	11.1	283	5.7	144	4.9	124	3.8	97	22.4	10.2
50SLHX	Sharp & Long	50PNP	50LKR	11.1	283	5.25	133	4.9	124	3.8	97	23.0	10.4
50TVIPHX	Twin Tiger	50PNP	50LKR	13.0	330	6.50	165	4.9	124	3.8	97	34.8	15.8
50VIPHX	Tiger	50PNP	50LKR	15.0	381	0.63	16	4.9	125	3.7	94	31.6	14.3
E55HX	Standard	55PNP	55LKR	10.4	265	5.94	151	5.4	137	4.25	108	27.4	12.4
55RHX	Rock	55PNP	55LKR	11.1	283	6.0	152	5.4	137	4.25	108	28.7	13.0
55SPHX	Sharp & Panelled	55PNP	55LKR	12.0	305	5.5	140	5.4	137	4.25	108	31.5	14.3
55SSHX	Short & Sharp	55PNP	55LKR	10.3	262	6.0	152	5.4	137	4.25	108	25.9	11.7
55S10FHX	Flare	55PNP	55LKR	11.25	286	10.0	254	5.4	137	4.25	108	35.0	15.9
55TVIPHX	Twin Tiger	55PNP	55LKR	15.5	394	7.0	178	5.4	137	4.25	108	51.2	23.2
55VIPHX	Tiger	55PNP	55LKR	16.5	419	0.75	19	5.4	137	4.25	108	43.1	19.5
D25S	Sharp, Dura			7.0	178			2.5	64	2.3	58	4.3	2.0
D30S				7.1	181	3.1	79	3.0	76	2.3	58	5.1	2.3
D35S				8.4	213	3.6	92	3.5	88	2.8	71	8.2	3.7
D40S				9.4	238	4.25	108	3.9	100	3.1	78	12.3	5.6
D45S				10.6	270			4.3	110	3.5	89	17.1	7.8

ADAPTERS
Conical Style Series



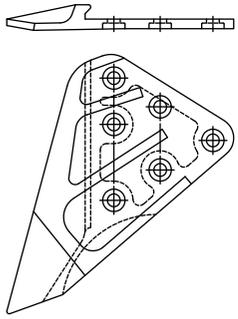
Type 1



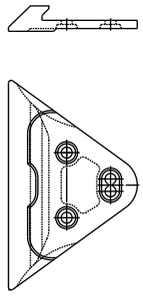
Type 4

ADAPTERS																
Hensley Part No.	Type	Dimensions													Weight	
		A		B		C		D		E Bevel Degree	F Nose Angle	G Spade Angle	Lip Thickness			
		“	mm	“	mm	“	mm	“	mm				“	mm	lb	kg
CB11255R2HX	4	1.2	30			5.4	137	1.8	46	30°	10°	-	1.25	32	5.5	2.5
E855-25HX	4	1.4	37			5.1	130	3.0	76	31°	17°	-	1.0 - 1.5	25 - 38	7.3	3.3
855-30HX	4	1.4	35			5.25	133	3.5	89	30°	15°	-	1.25 - 1.5	32 - 38	9.2	4.2
838-30HX	4	1.4	37			6.5	165	3.4	86	30°	20°	-	1.25 - 1.5	32 - 38	11.1	5.0
839-35HX	4	1.7	43			9.1	230	4.25	108	30°	20°	-	1.5 - 1.75	38 - 44	22.1	10.0
839-40HX	4	1.8	46			9.0	229	4.5	114	30°	20°	-	1.4 - 1.5	36 - 38	24.2	11.0
2740E-18HX	1	1.1	27	2.0	51	5.6	141	2.25	57	30°	18°	-	1.0	25	5.5	2.5
1875-35HX	1	1.3	33	4.1	105	9.6	244	4.0	102	30°	14°	-	1.25	32	20.6	9.3

SIDECUTTERS FOR EXCAVATORS & BACKHOES
Conical Style Series



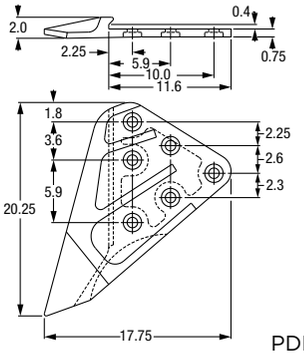
Type 1



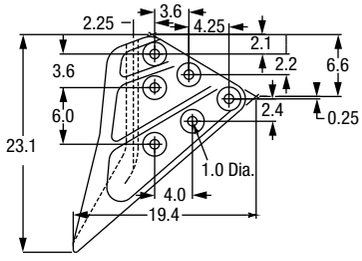
Type 2

SIDECUTTERS						
Hensley Part No.	**Type**	**Overall Additional Cut Provided**		**Plow Bolts**		
		“	**mm**	**Qty.**	**“**	**mm**
T2143AHX (LH) T2144AHX (RH)	1	2.0	51	6	0.9 x 2.5	23 x 64
T1156AHX (LH) T1157AHX (RH)	1	6.0	152	6	0.9 x 3.0	23 x 76
CE17748R3HX (RH) CE17748L3HX (LH)						
PDE34687HX		0 (Strike Off Plate)				
PDE31329HX	2	0 (Strike Off Plate)		3	0.9 x 3.0	23 x 76

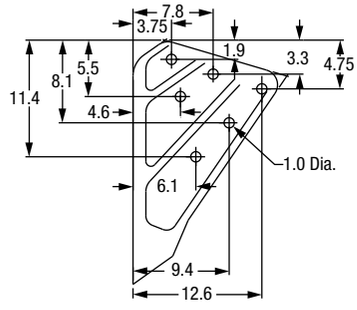
T2144AHX (RH Shown)
T2143AHX (LH Opposite)
44.4 lb / 20.1 kg
Uses (6) 7/8” diameter plow bolts
Additional cutting width
1” per side, 2” overall.



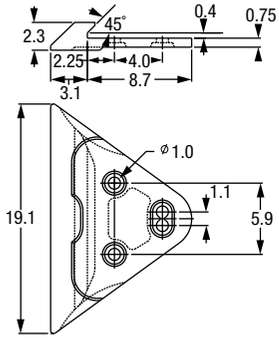
T1155CHX (RH Shown)
T1154CHX (LH Opposite)
54.8 lb / 24.9 kg
Uses (6) 7/8” diameter plow bolts
Additional cutting width
2” per side, 4” overall.



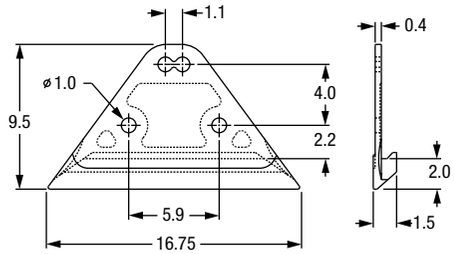
T1157AHX (RH Shown)
T1156AHX (LH Opposite)
59.5 lb / 27.0 kg
Uses (6) 7/8” diameter plow bolts
Additional cutting width
3” per side, 6” overall.



PDE31329HX
30.7 lb / 16.8 kg
Uses (6) 7/8” diameter plow bolts.

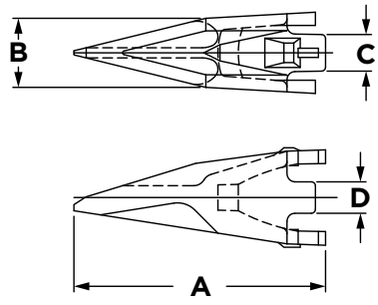


PDE34687HX
15.7 lb / 7.1 kg
Uses (3) 7/8” diameter plow bolts.

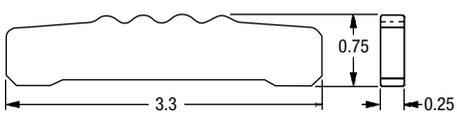


Note: Measurements are in inches.

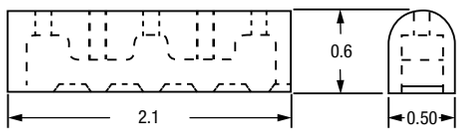
TEETH & FASTENERS
Super Conical Style Series



TEETH												
Hensley Part No.	Tooth Description	Fastener		Dimensions								Weight
				Overall Tooth				Tooth Pocket				
				A		B		C		D		
		Pin	Lock	“	mm	“	mm	“	mm	“	mm	lb	kg
36FPHX	Flared & Panelled	36PNP	36LKR	8.75	222	3.75	95	2.3	59	2.4	60	7.8	3.5
46RHX	Rock	46PNP	46LKR	10.1	257	3.75	95	2.75	70	3.2	81	16.7	7.6
46THX	Tilt Front	46PNP	46LKR	10.5	267	4.25	108	2.75	70	3.2	81	17.8	8.1
46VIPHX	Tiger	46PNP	46LKR	12.9	327	0.6	16	2.75	70	3.2	81	17.4	7.9
56RHX	Rock	56PNP	56LKR	12.75	324	4.5	114	3.4	86	4.2	106	31.4	14.2
56VIPHX	Tiger	56PNP	56LKR	15.5	394	0.6	16	3.4	86	4.2	106	36.2	16.4



36PNP

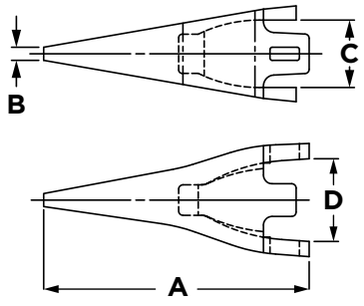


36LKR

TEETH FASTENERS		
Pin	Lock	Note
44DPNP	44DLKR	24D75HX Utilize 36PNP & 36LKR

Note: Measurements are in inches.

TEETH & CLAMSHELL ADAPTERS
Esco Style Dredge Series

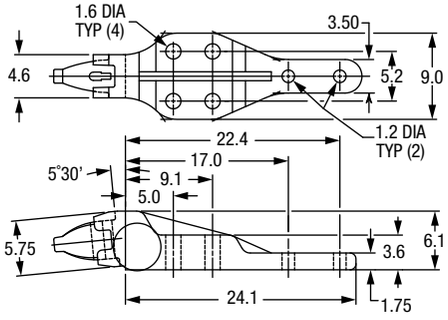


TEETH

Hensley Part No.	Tooth Description	Fastener		Dimensions								Weight	
				Overall Tooth				Tooth Pocket					
				A		B		C		D			
		Pin	Lock	"	mm	"	mm	"	mm	"	mm	lb	kg
34D11-3HX	Flare	46PNP	46LKR	10.9	276	5.25	133	2.8	71	3.3	84	17.0	7.7
34D95HX	Pick Point	46PNP	46LKR	9.7	246	0.4	11	2.8	71	3.3	84	9.5	4.3
44D14HX	Pick Point	44DPNP	44DLKR	14.1	359	0.6	14	3.4	87	4.25	108	19.3	8.8
44D14-1HX	Chisel	44DPNP	44DLKR	14.5	368	1.9	48	3.4	87	4.25	108	26.0	11.8
44D14-5HX	Flare	44DPNP	44DLKR	13.6	346	5.6	141	3.4	87	4.25	108	30.8	14.0
44D19-5HX	Flare	44DPNP	44DLKR	18.75	476	5.5	140	3.4	87	4.25	108	45.0	20.4
54D18-1HX	Chisel	N/A	N/A	18.0	457	2.75	70	4.0	102	5.3	135	45.8	20.8
54D15RC	Rock Chisel	76PNP	76LKR	15.5	394	3.75	95	4.0	102	5.1	135	44.2	20.0

CLAMSHELL ADAPTERS

2756-44DHX
139.0 lb / 63.0 kg

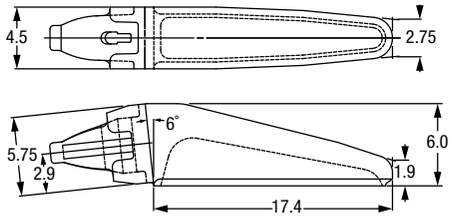


Note: Measurements are in inches.

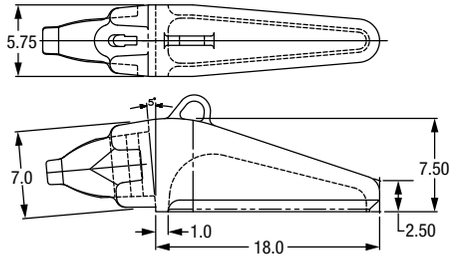
CLAMSHELL ADAPTERS & WELD-ON NOSES
Esco Style Dredge Series

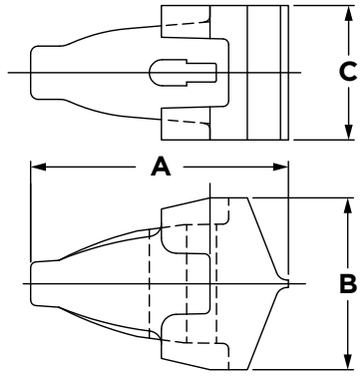
CLAMSHELL ADAPTERS CONTINUED

180644DHX
80.0 lb / 36.3 kg



180654DHX
136.0 lb / 61.7 kg

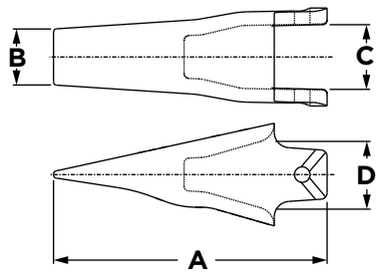




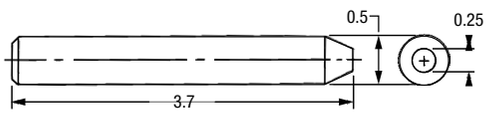
WELD-ON NOSES									
Hensley Part No.	Tooth Series	Dimensions						Weight	
		A		B		C			
		“	mm	“	mm	“	mm	lb	kg
24DWNHX	24D	0.75	19	3.1	79	2.6	65	5.0	2.3
34DWNHX	34D	1.1	29	4.5	114	3.7	94	14.4	6.5
44DWNHX	44D	1.4	35	5.75	146	4.5	114	26.4	12.0
54DWN								51.5	23.4

Note: Measurements are in inches.

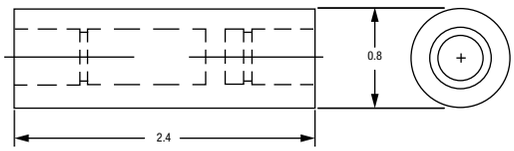
TEETH & FASTENERS
Esco Style Ripper Series



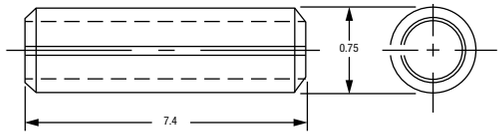
TEETH													
Hensley Part No.	Tooth Description	Fastener		Dimensions								Weight	
				Overall Tooth				Tooth Pocket					
				A		B		C		D			
		Pin	Lock	"	mm	"	mm	"	mm	"	mm	lb	kg
25R11HX	Tooth, Ripper	25RP	25RB	11.0	279	2.25	57	2.6	67	3.4	86	10.5	4.8
25R12HX	Tooth, Ripper											13.1	5.9
25RC12HX				12.5	318	2.0	51	2.7	69	3.2	81	15.4	7.0
355R14HX	Tooth, Ripper											30.5	13.8
355R15HX	Tooth, Ripper			15.5	394	3.0	76	3.3	84	4.7	119	30.0	13.6
35R14HX	Tooth, Ripper			14	356	2.5	64	3.6	91	4.5	114	26.0	11.8
35R15AHX	Tooth, Ripper	35RP	35RB	15.25	387	3.0	76	3.6	90	4.6	117	29.0	13.2
35R15HX	Tooth, Ripper			15.25	387	3	76	3.6	91	4.5	114	27.1	12.3
35RWTHX	Twin Tiger	35RP	35RB	14.0	356	6.25	159	3.6	90	4.6	117	31.8	14.4
395R17AHX	Tooth, Ripper			17	432	2.75	70	3.75	95			43.6	19.8
39R16AHX	Tooth, Ripper	39RP	39RB	16.0	406	3.0	76	3.8	97	5.3	135	38.2	17.3
T35R15*	Tiger	35RP	35RB	15.4	391	0.25	6	3.6	90	4.6	117	29.0	13.2



25RP



25RB



25RBS

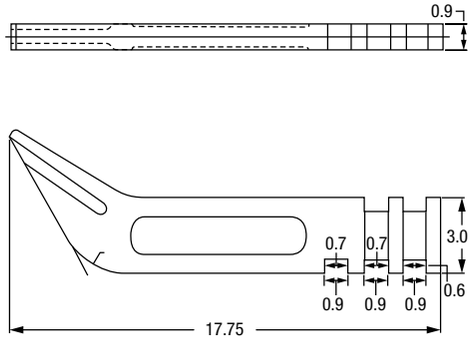
TEETH FASTENERS		
Pin	Rubber Bushing	Steel Bushing (Slag)
25RP	25RB	25RBS
35RP	35RB	35RBS
39RP	39RB	N/A

Note: Measurements are in inches.

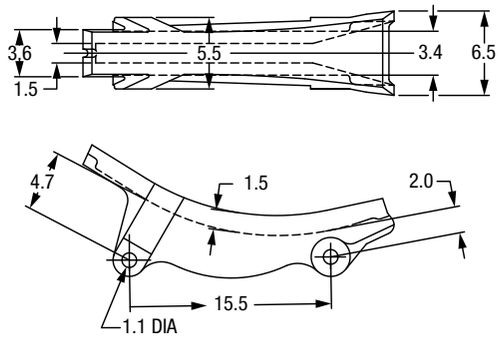
SHANK GUARD & WELD-ON NOSES
Esco Style Ripper Series

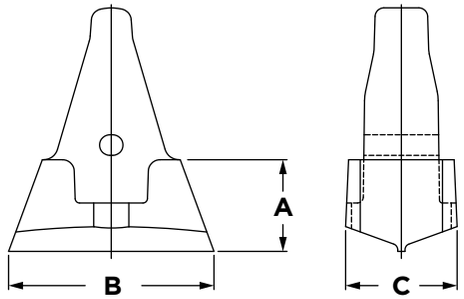
SHANK GUARD REPLACEMENTS

S8932HX
Scarifier Shank
12.4 lb / 5.6 kg



39RSLHX
Used with Esco 39R Series Extreme Duty Ripper Shanks
Fastens with (2) 39RSPP Pins
77.0 lb / 34.9 kg

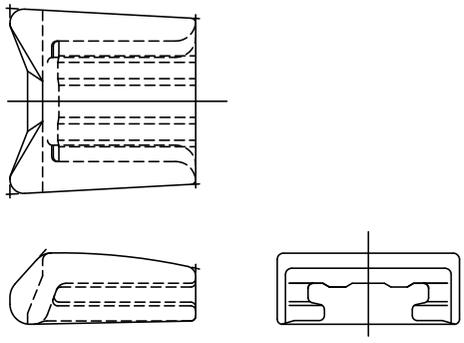




WELD-ON NOSES									
Hensley Part No.	Tooth Series	Dimensions						Weight	
		A		B		C			
		“	mm	“	mm	“	mm	lb	kg
25RNHX	25R	0.9	22	3.5	89	5.75	146	18.1	8.2

Note: Measurements are in inches.

WEAR CAPS
Esco Style Miscellaneous Wear Parts

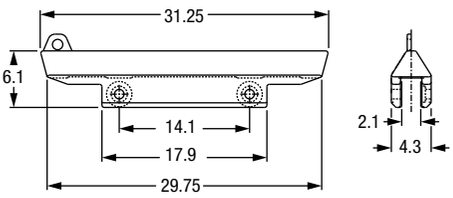


WEAR CAPS			
Hensley Part No.	Used on Esco Adapters	Weight	
		lb	kg
WC9HX	230-55, 169-70, 298-70, 232-70, 252-70, 259-70, 280-70, 288-70, 298-70, 299-70, 409-70, 428-70, 471-70, 409-77 & 469-77	13.1	5.9
WC13HX	133-45, 230-50, 241-50, 157-55, 218-55, 273-55, 284-55 & 288-55	6.6	3.0
WC61HX	461-77HX	42.3	19.2

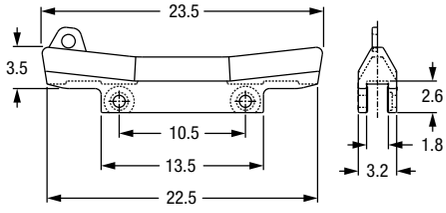
VERTICAL EDGE PROTECTORS
Esco Style Miscellaneous Wear Parts

VERTICAL EDGE PROTECTORS

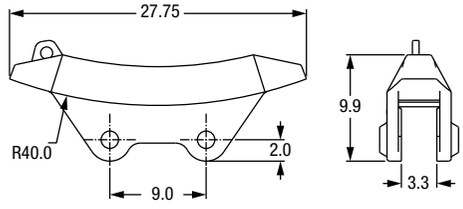
ES4410HX
103.5 lb / 46.9 kg
Fastener: (2) PDB31183#2HX (pin)
(2) 120KLKSRR (snap ring)



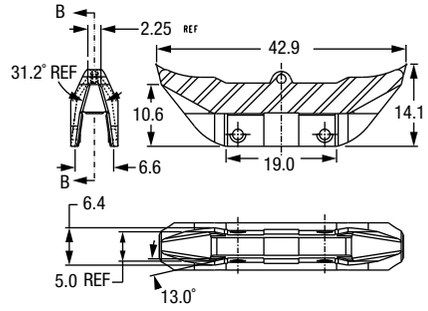
ES5280HX
44.5 lb / 20.2 kg
Fastener: (2) PDB31183#2HX (pin)
(2) 120KLKSRR (snap ring)



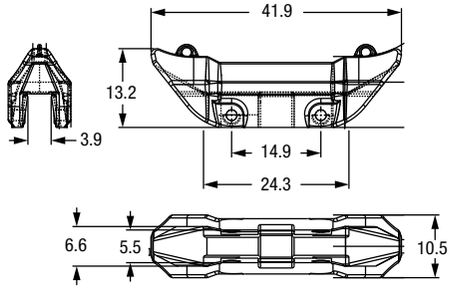
ES6553HX
146.0 lb / 66.2 kg
Fastener: (2) PDB31183#2HX (pin)
(2) 120KLKSRR (snap ring)



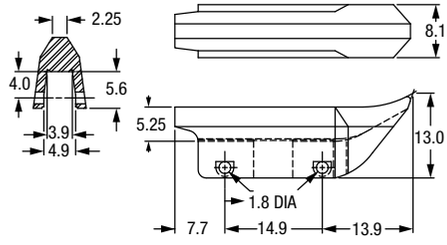
PDE437232HX
440.0 lb / 199.6 kg
Fastener: (2) PDB31183#2HX (pin)
Optional Pin: (2) PDB31183#2LXH (pin, Long)
(2) 120KLKSRR (snap ring)



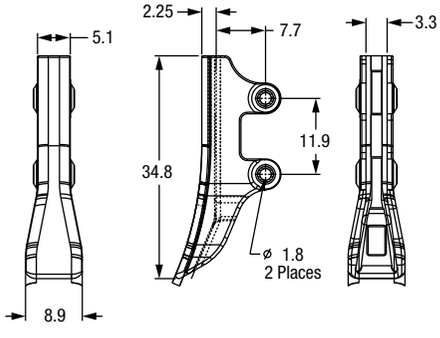
PDE437233HX
505.0 lb / 229.1 kg
Fastener: (2) PDB31183#2HX (pin)
Optional Pin: (2) PDB31183#2LXH (pin, Long)
(2) 120KLKSRR (snap ring)



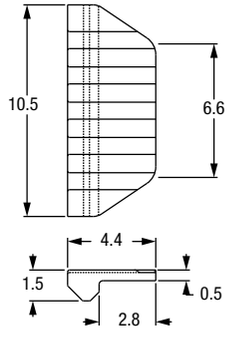
PDE43723HX
338.0 lb / 153.3 kg
Fastener: (2) PDB31183#2HX (pin)
Optional Pin: (2) PDB31183#2LXH (pin, Long)
(2) 120KLKSRR (snap ring)



PDE52445HX
240.0 lb / 108.9 kg
Fastener: (2) PDB31183#3HX (pin)
(2) 120KLKSRR (snap ring)

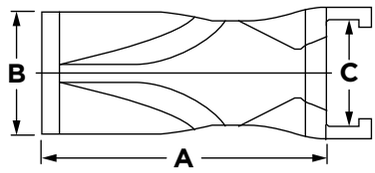


WP72SHX
8.5 lb / 3.9 kg
Fastener: (2) PDB31183#2HX (pin)
(2) 120KLKSRR (snap ring)



Note: Measurements are in inches.

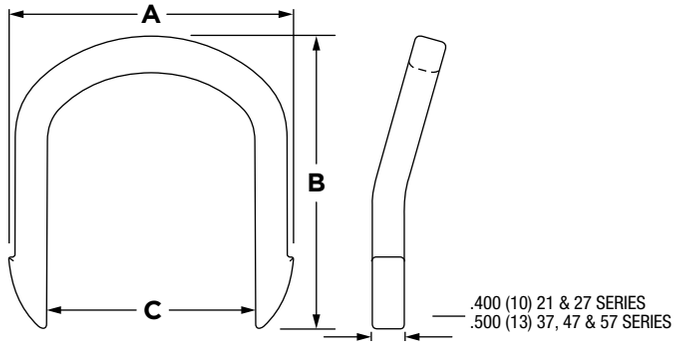
TEETH
Helilok® Style Direct Replacement Parts



TEETH										
Hensley Part No.	Tooth Type	Tooth Fastener	Removal Tool	Dimensions						Weight	
				A		B		C			
				“	mm	“	mm	“	mm	lb	kg
21S5FHX	5	21LKSPN	552513HX	7.5	190	5.0	127	2.75	70	11	4.9
21SYLHX	7			7.5	190	3.0	76	2.75	70	7.6	3.4
21TVIPHX	9			7.1	181	3.3	84	2.75	70	7.5	3.4
21VIPHX	10			7.1	181	-	-	2.75	70	6.5	2.9
27AGHX	1	27LKXPN	552513HX	8.4	213	5.1	130	3.1	79	17.1	7.7
27S6HFX	4			8.75	222	6.0	152	3.1	79	14.5	6.6
27SDHX	6			8.0	203	2.0	51	3.1	79	11	4.9
27SYLHX	7			8.2	208	3.5	89	3.1	79	10	4.5
27TVIPHX	9			7.75	197	3.75	95	3.1	79	10.4	4.7
27VIPHX	10			7.75	197	-	-	3.1	79	8.8	4
37RHX	4	37LKPBN	552512HX	8.0	203	3.75	95	3.7	94	16.9	7.7
37S8FHX	5			11.0	279	8.0	203	3.7	94	25	11.3
37SDHX	6			10.0	254	2.25	57	3.7	94	19	8.6
37SYLHX	7			9.5	241	4.6	117	3.7	94	17.5	7.9
37TVIPHX	9			9.5	241	4.5	114	3.7	94	17.3	7.8
37VIPHX	10			9.5	241	-	-	3.7	94	15.6	6.8
47AGHX	1	47LKPN	552512HX	11.75	298	7.0	178	4.4	113	43.5	19.7
47ARLHX	2			10.75	273	5.2	132	4.4	113	36.4	16.5
47RHX	4			9.25	235	4.5	114	4.4	113	25.1	11.4
47S9FHX	5			12.7	322	9.0	229	4.4	113	35.2	15.9
47SDHX	6			10.75	273	2.5	64	4.4	113	25.9	11.7
47SYLHX	7			11.1	283	5.0	127	4.4	113	27.5	12.5
47TVIPHX	9			11.0	279	5.1	130	4.4	113	25.4	11.5
47VIPHX	10			11.0	279	-	-	4.4	113	24.2	10.9
47RC	11			11.75	298	4.0	102	4.4	113	38.5	17.5
57ARLHX	2			12.25	311	6.25	159	5.4	136	57.9	26.3
57RHX	4			11.0	279	5.0	127	5.4	136	43.7	19.8
57SYLHX	7			12.4	314	5.5	140	5.4	136	43	19.5
57VIPHX	10			13.1	333	-	-	5.4	136	37.3	16.9

Helilok® Style Direct Replacement Parts

FASTENERS
Helilok® Style Direct Replacement Parts



FASTENERS								
Hensley Part No.	Dimensions						Weight	
	A		B		C			
	“	mm	“	mm	“	mm	lb	kg
21LKSPN	2.9	73	3.1	79	2	50	0.3	0.1
27LKXPN	3.3	84	3.1	79	2.5	63	0.4	0.2
37LKBPN	4.0	102	4.25	108	2.8	71	0.7	0.3
47LKPN	4.6	116	4.75	121	3.3	85	0.9	0.4
57LKPN	5.1	130	5.2	131	3.9	100	0.9	0.4

Note: Measurements are in inches.

PLOW BOLTS
Direct Replacement Parts

PLOW BOLT ASSEMBLIES			
Hensley plow bolt assembly numbers designate the diameter and length of the bolt.			
First number indicates bolt diameter which in this case is 1.0″ example: **A10-312** **Second number indicates bolt length which in this case is 3 1/2″**			
Plow Bolt Assemblies*		**Dimensions**	
w/ Hex Nut	**w/ Hex Cone Nut**	**Diameter w/ Threads per inch**	**Bolt Length**
A34-200	-	3/4″ 10	2.0″
A34-300	-	3/4″ 10	3.0″
A34-400	-	3/4″ 10	4.0″
A78-300	-	7/8″ 9	3.0″
A78-314	-	7/8″ 9	3 1/4″
A78-400	-	7/8″ 9	4.0″
A78-412	-	7/8″ 9	3.5″
A10-200	AC10-200	1.0″ 8	2″
A10-312	AC10-312	1.0″ 8	3 1/2″
A10-334	AC10-334	1.0″ 8	3 3/4″
A10-400	AC10-400	1.0″ 8	4.0″
A10-412	AC10-412	1.0″ 8	4 1/2″
A114-300	AC114-300	1 1/4″ 7	3.0″

*Plow Bolt Assemblies consist of Plow Bolt with Nut

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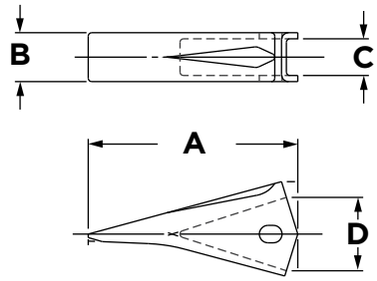
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3.5

DIRECT REPLACEMENT PRODUCTS

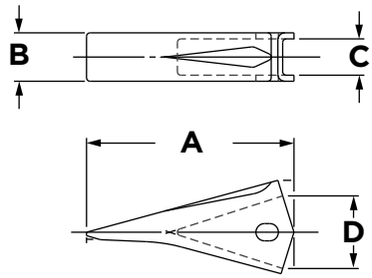
H&L Style

TEETH
H&L Style



TEETH											
Hensley Part No.	Tooth Description	Fastener Part No.	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			″	mm	″	mm	″	mm	″	mm	lb	kg
1LHX	Ripper, Standard	Crimp-on	5.9	151	1.6	40	1.1	27	1.75	44	1.6	0.7
2AHX	Standard	Crimp-on	4.4	113	1.6	41	1.1	27	1.4	35	0.9	0.4
2APSHX	Standard	P2AP	4.5	114	1.7	43	1.1	28	1.3	33	1.3	0.6
T2AP	Tiger	P2AP	5.0	127	N/A	N/A	1.1	28	1.3	33	1.2	0.5
3CHXL	Long	Crimp-on	5.5	140	2.1	54	1.6	40	1.75	44	2.2	1.0
3CHXS	Standard	Crimp-on	4.9	124	2.25	57	1.6	40	1.75	44	1.5	0.7
T3C	Tiger	Crimp-on	6.25	159	N/A	N/A	1.6	40	1.75	44	1.9	0.9
18HX	Ripper, Standard	18P	10.6	268	2.4	60	2.5	64	3.25	83	14.7	6.7
18SSHX	Ripper, Sharp	18P	9.0	229	2.7	67	2.5	64	3.25	83	13.4	6.1
T18	Ripper, Tiger	18P	10.5	267	N/A	N/A	2.5	64	3.25	83	14.0	6.4
20HXR	Rock	P300B	8.2	208	3.75	95	3.0	76	2.56	65	11.5	5.2
21HX	Ripper, Standard	21/22P	7.25	184	1.75	44	1.0	25	2.4	62	3.2	1.5
22HX	Ripper, Standard	21/22P	7.5	191	1.75	44	1.3	33	2.6	67	3.3	1.5
23HXL	Standard	23PA, B, C, or D	5.5	140	2.1	54	1.6	40	1.7	43	2.7	1.2
23HXS	Short	23PA, B, C, or D	5.1	130	2.1	52	1.6	40	1.7	43	2.1	1.0
230HX	Long	23PA, B, C, or D	6.1	157	2.1	54	1.6	40	1.7	43	2.7	1.2
S230	Star, Heavy	23PA, B, C, or D	6.25	159	N/A	N/A	1.6	40	1.7	43	2.9	1.3
T23	Tiger	23PA, B, C, or D	6.1	156	N/A	N/A	1.6	40	1.7	43	2.3	1.0
T23L	Tiger, Long	23PA, B, C, or D	6.4	164	N/A	N/A	1.6	40	1.7	43	2.2	1.0
23WT	Twin Tiger	23PA, B, C, or D	6.4	162	3.0	76	1.6	40	1.7	43	3.4	1.5
23WTL	Twin Tiger, Long	23PA, B, C, or D	6.4	164	3.0	76	1.6	40	1.7	43	2.6	1.2
23HXF	Flared	23PA, B, C, or D	5.25	133	4.4	111	1.6	40	1.7	43	2.9	1.3
230ST	Star, Medium	23PA, B, C, or D	6.1	154	N/A	N/A	1.6	40	1.7	43	2.7	1.2
23RC	Rock Chisel	23PA, B, C, or D	6.1	156	N/A	N/A	1.6	40	1.7	43	3.1	1.4
24HX	Standard	24PB	6.75	171	2.1	54	1.6	40	2.1	54	3.7	1.7
24HXSS	Standard, Sharp	24PB	6.8	173	2.25	57	1.6	40	2.1	54	3.5	1.6
24SPHX	Long	24PB	7.5	191	2.25	57	1.6	40	2.1	54	4.3	2.0
S240	Star	24PB	7.6	194	N/A	N/A	1.6	40	2.1	54	4.2	1.9
T24	Tiger	24PB	7.5	191	N/A	N/A	1.6	40	2.1	54	3.6	1.6
24WT	Twin Tiger	24PB	7.5	191	3.1	80	1.6	40	2.1	54	4.7	2.1
24HXF	Flared	24PB	6.7	170	4.0	102	1.6	40	2.1	54	4.5	2.0
25HX	Standard	25/26PB	7.1	179	2.6	67	2.1	52	2.1	54	5.2	2.4

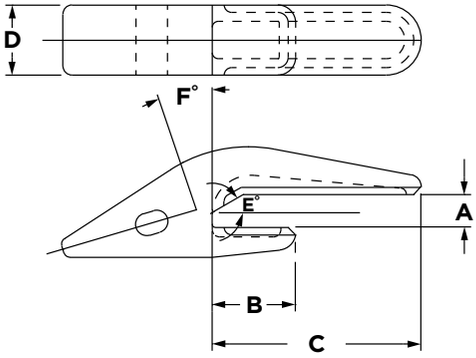
TEETH
H&L Style



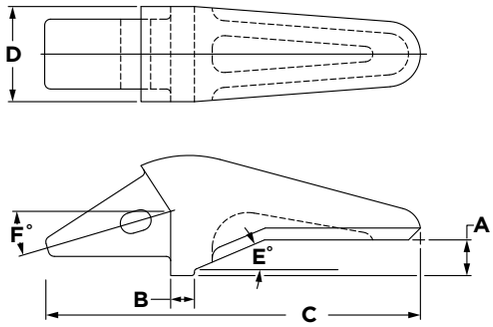
TEETH CONTINUED

Hensley Part No.	Tooth Description	Fastener Part No.	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			"	mm	"	mm	"	mm	"	mm	lb	kg
251HX	Long	25/26PB	7.3	186	2.9	73	2.1	52	2.1	54	5.2	2.4
S252	Star	25/26PB	8.5	216	N/A	N/A	2.1	53	2.1	54	6.1	2.8
T25	Tiger	25/26PB	8.25	210	N/A	N/A	2.0	51	2.1	54	5.2	2.4
25WT	Twin Tiger	25/26PB	8.0	203	3.75	95	2.1	52	2.2	56	6.4	2.9
25HXFW	Flared	25/26PB	7.4	189	5.75	146	2.1	52	2.1	54	6.9	2.1
26HX	Standard	25/26PB	8.3	211	2.9	73	2.1	52	2.8	71	8.5	3.9
T26	Tiger	25/26PB	9.8	249	N/A	N/A	2.1	52	2.8	71	8.7	3.9
271HX	Standard	P300B	7.7	194	3.7	94	2.9	73	2.1	54	8.0	3.6
27HXL	Heavy	P300B	9.0	229	3.75	95	2.9	73	2.1	54	9.6	4.4
T27	Tiger	P300B	9.5	241	N/A	N/A	2.9	73	2.25	57	9.5	4.3
27WT	Twin Tiger	P300B	9.0	229	4.0	102	2.9	73	2.25	57	10.3	4.7
28HXL	Heavy	28PL	9.3	236	4.4	111	3.6	90	2.4	62	15.1	6.8
31HXH	Standard, Heavy	31P	10.5	267	4.4	111	3.4	86	3.0	76	22.4	10.2
33HX	Standard	33/35P	11.1	283	6.0	152	4.6	118	4.1	105	39.9	18.1
33SHL	Long	33/35P	14.0	356	6.0	152	4.6	118	4.1	103	53.0	24.0
36HX	Ripper, Standard	36P	14.1	357	3.0	76	2.9	73	4.6	116	40	18.1
36LHX	Ripper	36P	15.5	394	2.0	51	2.9	73	4.6	116	35.0	15.9
T36	Ripper, Tiger	36P	14.0	356	N/A	N/A	2.9	73	4.6	116	26.6	12.1
37HXL	Heavy	37/50P	10.5	267	3.75	95	2.8	71	3.4	86	14.4	6.5
38HX	Ripper, Standard	38P	16.1	410	3.4	86	3.6	90	5.5	140	61.8	28.0
T38	Ripper, Tiger	38P	16.5	419	N/A	N/A	3.6	90	5.5	140	52.3	23.7
308HX	Ripper, Standard	308P	14.1	359	3.0	76	3.3	84	5.0	127	44.2	20.0
T308	Ripper, Tiger	308P	15.5	394	N/A	N/A	3.3	84	5.0	127	41.7	18.9
50HX	Standard	37/50P	11.1	283	3.9	99	2.9	73	4.0	102	20.1	9.1

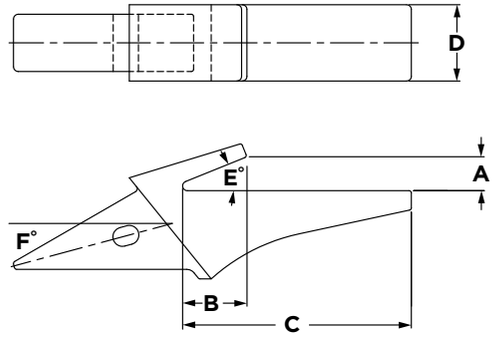
ADAPTERS, WELD-ON NOSES
H&L Style



Type 1



Type 2



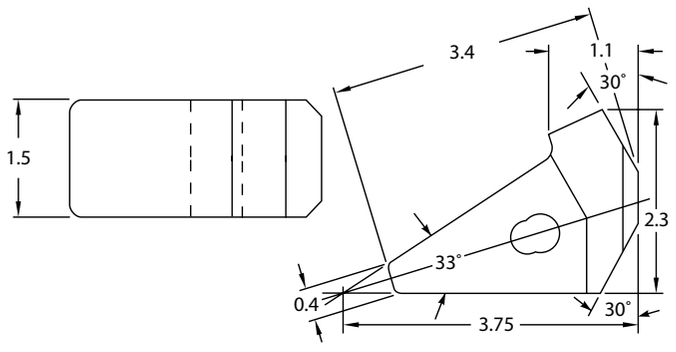
Type 4

ADAPTERS

Hensley Part No.	Type	Dimensions								E Bevel Degree	F Nose Angle	Lip Thickness		Weight	
		A		B		C		D							
		″	mm	″	mm	″	mm	″	mm			″	mm	lb	kg
2730-23HX	1	0.7	18	1.75	44	4.4	111	1.5	37	30°	16°	0.6	16	3.5	1.6
2740-23HX	1	1.1	28	2.9	73	5.4	137	1.5	37	24°	16°	1.0	25	4.4	2.0
D138157HX	1	1.1	29	2.75	70	5.6	143	1.5	37	23°	16°	1.1	27	4.5	2.0
2428A-24HX	4	1.1	29	1.7	43	6.0	152	2.0	51	22°	15°	.6 - .9	16 - 22	8.2	3.7
L2520W-2AHX	2	0.8	19	0.3	8	6.7	170	1.0	25	22°	-	.4 - .5	9 - 13	2.4	1.1
500-2APHX	2	0.5	13	0.4	10	7.9	200	1.6	41	30°	-	0.5	13	2.3	1.0
750F23HX	2	0.8	19	0.5	13	7.9	200	2.0	51	23°	16°	0.75	19	4.3	2.0
1001-3CHX	2	1.0	25			8.3	211	1.5	3.7	25°	-	.75 - 1.0	19 - 25	3.9	1.8
1002-3CHX	2	1.0	25			8.0	203	1.5	37	45°	-	.9 - 1.0	22 - 25	3.7	1.7

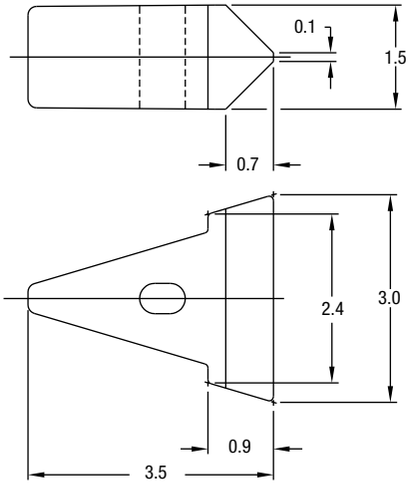
WELD-ON NOSES

23WN
1.7 lb / 0.8 kg

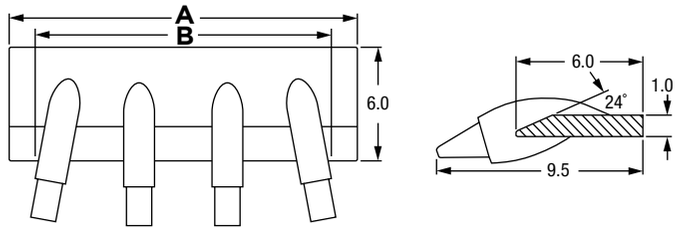


RIPPER SHANK WELD-ON NOSE

23RWN
1.9 lb /.86 kg



CAST LIPS FOR 23 SERIES TEETH
H&L Style



CAST LIPS FOR 23 SERIES TEETH									
Hensley Part No.	Bucket Width		No. of Noses	Dimensions				Weight	
				A		B			
	″	mm		″	mm	″	mm	lb	kg
12M480-12AHX	12.0	305	3	12.7	321	10.7	272	31.0	14.0
18M480-12AHX	18.0	457	4	18.5	470	15.6	397	43.7	20.0
24M480-12AHX	24.0	610	5	24.5	622	22.3	567	59.0	27.0

Note: Measurements are in inches.

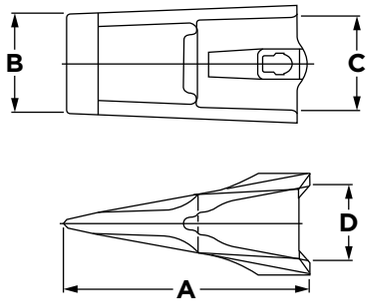
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3.6

DIRECT REPLACEMENT PRODUCTS

Hendrix Style

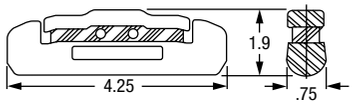
TEETH & FASTENERS
Hendrix Style



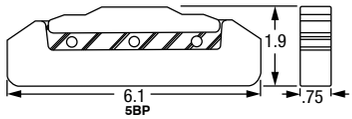
TEETH												
Series	Hensley Part No.	Replaces Hendrix Part No.	Fastener Part No.	Dimensions								Weight	
				Overall Tooth				Tooth Pocket					
				A		B		C		D			
				"	mm	"	mm	"	mm	"	mm	lb	kg
214	214PHX	214P	4EP	8.5	216	3.6	92	3.3	84	2.75	70	12.3	5.6
	214RC	244P	4EP	9.4	238	3.5	89	3.3	84	2.75	70	13.5	6.1
	214FHX	254P	4EP	8.5	216	6.5	165	3.3	84	2.75	70	15.4	7.0
	T214	234P	4EP	10.0	254	0.25	6	3.3	84	2.75	70	11.5	5.2
	214WT	224P	4EP	10.0	254	5.25	133	3.3	84	2.75	70	12.7	5.8
314	314PHX	314P	4EP	9.4	238	4.0	102	3.8	96	2.9	75	13.9	6.3
	314RC	344P	4EP	10.4	264	3.9	99	3.8	96	2.9	75	17.3	7.8
	T314	334P	4EP	10.75	273	0.3	7	3.8	96	2.9	75	14.3	6.5
	314WT	324P	4EP	10.75	273	5.75	146	3.8	96	2.9	75	16.0	7.3
414	414PHX	414P	4EP	10.0	254	4.5	114	4.3	109	3.75	83	18.1	8.2
	414RC	444P	4EP	11.0	279	4.5	114	4.3	109	3.75	83	22.8	10.3
	T414	434P	4EP	11.75	298	0.3	8	4.3	109	3.75	83	18.2	8.3
	414WT	424P	4EP	11.75	298	6.1	156	4.3	109	3.75	83	20.7	9.4
514	514PHX	514P	4EP	12.75	324	5.25	133	5.0	126	3.8	98	36.9	16.7
	T514	534P	4EP	14.5	368	0.4	10	5.0	126	3.8	98	34.8	15.8
	514WT	524P	4EP	14.5	368	7.5	191	5.0	126	3.8	98	39.1	17.7

FLEX PIN FASTENERS

4EP
.7 lb / .3 kg

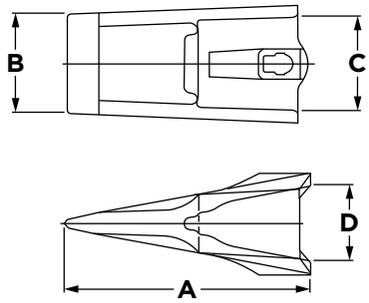


5B9
2.1 lb / 1.0 kg



Note: Measurements are in inches.

TEETH
Hendrix Style

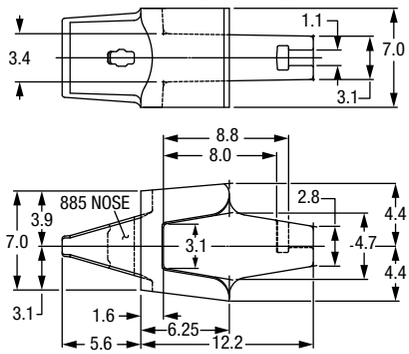


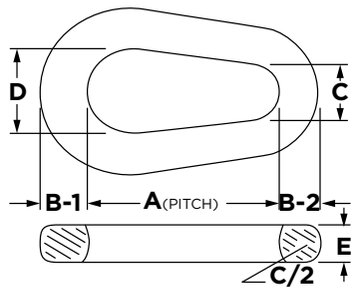
TEETH													
Series	Hensley Part No.	Replaces Hendrix Part No.	Fastener Part No.	Dimensions								Weight	
				Overall Tooth				Tooth Pocket					
				A		B		C		D			
				″	mm	″	mm	″	mm	″	mm	lb	kg
204	204HX	204	34JP	8.9	225	4.4	113	3.75	95	3.1	78	16.9	7.7
	A204HX	A204	34JP	9.25	235	4.0	102	3.1	79	3.3	84	17.0	7.7
304	304HX	304	34JP	9.25	235	4.7	119	3.75	95	3.4	87	20.8	9.4
366	366HX	366	6P	10.75	273	4.1	104	3.9	99	3.7	94	23.0	10.4
604	604HX	604	A478	11.25	286	4.8	122	4.4	112	4.0	102	40.3	18.3
667	667HX	667	7P	11.75	298	5.0	127	4.4	112	4.3	109	35.2	16.0
	667HXL	-	7P	12.0	305	5.0	127	4.4	112	4.3	109	40.0	18.1
685	685HX	685	5BP	12.75	324	5.75	146	6.0	152	4.6	117	50.4	22.9
	685SHX	-	5BP	10.75	273	6.0	152	6.0	152	4.6	117	38.9	17.6
804	804HX	804	A478	11.75	298	5.25	133	4.7	119	4.25	108	40.8	18.5
	804HHX	804A	A478	12.25	311	6.75	171	4.7	119	4.25	108	49.2	22.3
867	867HX	867	7P	12.4	315	5.2	132	4.8	122	4.8	122	44.7	20.3
885	885HX	885	5BP	13.6	345	6.1	155	6.4	163	4.9	124	56.9	25.8
	885RSHX	-	5BP	13.75	349	6.5	165	6.4	163	4.9	124	62.0	28.1
1285	1285BHX	1285B	5BP	14.0	356	7.1	180	6.9	175	5.5	140	70.0	31.8
	T1285	-	5BP	17.0	432	0.5	13	6.9	175	5.5	140	60.0	27.2
1385	1385HX	1385	5BP	14.0	356	7.9	201	6.5	165	5.4	137	81.5	37.0
1578	1578THX	-	5BP	12.9	328	8.0	203	6.8	173	5.4	137	82.4	37.4
1585	1585HX	1585	5BP	12.4	315	6.1	155	6.7	170	5.25	133	59.8	27.1
4085	4085HX	4085	5BP	17.9	455	9.0	229	6.9	175	6.4	163	111.0	50.3

ADAPTERS & PEAR END LINKS
Hendrix Style

ADAPTERS

D875885HX
113.0 lb / 51.3 kg





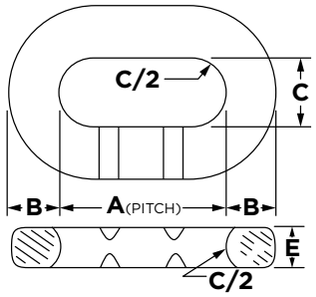
PEAR END LINKS FOR DRAG & HOIST CHAINS

Part No.	Dimensions													
	A Pitch		B-2		B-1		C		C/2 Rad.		D Max Pin Dia.		E	
	″	mm	″	mm	″	mm	″	mm	″	mm	″	mm	″	mm
112ELHX	8.0	203	2.0	51	1.75	44	2.5	64	1.25	32	2.9	73	1.25	32
158ELHX	8.25	210	2.25	57	2.0	51	2.6	67	1.3	33	3.25	83	1.4	35
134ELHX	8.4	213	2.4	60	2.0	51	2.75	70	1.4	35	3.25	83	1.5	38
2ELHX	9.5	241	2.6	67	2.4	60	3.1	79	1.6	40	3.5	89	2.0	51
214ELHX	10.5	267	2.75	70	2.4	62	3.25	83	1.6	41	3.9	98	2.0	51
212ELHX	12.25	311	3.0	76	2.75	70	3.9	98	1.9	49	5.9	149	2.1	54

PEAR END LINKS FOR DRAG & HOIST CHAINS CONTINUED

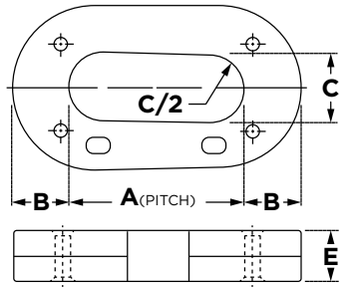
Part No.	Dimensions		Weight		Mating Parts			Bucket Size Range	
	F				Standard Chain Part No.	Chain Size			
	″	mm	lb	kg		″	mm	Cu Yd	Cu M
112ELHX	1.6	41	19.1	8.7	112RRL-W-HX	1.5	38	2.5 - 4.0 (D) 7.0 - 8.5 (H)	1.9 - 3.1 (D) 5.4 - 6.5 (H)
158ELHX	1.6	41	24.0	10.9	158RRL-W-HX	1.6	41	3.75 - 6.5 (D) 9.0 - 11.0 (H)	2.9 - 5.0 (D) 6.7 - 8.4 (H)
134ELHX	1.9	48	28.7	13.0	134RRL-W-HX	1.75	44	7.0 - 14.0 (D) & (H)	5.4 - 10.7 (D) & (H)
2ELHX	2.0	51	42.0	19.1	2RRL-W-HX	2.0	51	9.0 - 11.0 (D)	6.9 - 8.4 (D)
214ELHX	2.4	60	52.0	23.6	214RRL-W-HX	2.25	57	9.5 - 14.0 (D)	7.3 - 10.7 (D)
212ELHX	2.75	70	77.2	35.0	212RRL-W-HX	2.5	64	12.0 - 14.0 (D)	9.2 - 10.7 (D)

WELD-IN CHAIN REPAIR LINKS & PEAR END LINKS
Hendrix Style

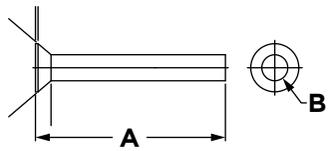


WELD-IN CHAIN REPAIR LINKS																
Part No.	Dimensions												Weight		Bucket Size Range	
	Size		A Pitch		B		C		C/2 Rad.		E					
	″	mm	″	mm	″	mm	″	mm	″	mm	″	mm	lb	kg	Cu Yd	Cu M
112RRL-W-HX	1.5	38	6.0	152	1.7	43	2.5	64	1.25	32	1.25	32	10.4	4.7	7.0 - 8.5 (H)	5.4 - 6.5 (H)
158RRL-W-HX	1.6	41	6.25	159	1.8	46	2.6	67	1.3	33	1.6	41	13.5	6.1	9.0 - 11.0 (H)	6.9 - 8.4 (H)
134RRL-W-HX	1.75	44	6.5	165	2.0	51	2.75	70	1.4	35	1.75	44	16.8	7.6	7.0 - 14.0 (H)	5.4 - 10.7 (H)
2RRL-W-HX	2.0	51	7.5	191	2.2	56	3.0	76	1.5	38	2.0	51	24.2	11.0	9.0 - 11.0 (D)	6.9 - 8.4 (D)
214RRL-W-HX	2.25	57	8.25	210	2.5	64	3.25	83	1.6	41	2.25	57	34.2	15.5	9.5 - 14.0 (D)	7.3 - 10.7 (D)
212RRL-W-HX	1.5	38	10.0	254	2.75	70	3.75	95	1.9	48	2.5	64	53.0	24.0	12.0 - 14.0 (D)	9.2 - 10.7 (D)

RIVET-TYPE REPAIR LINKS
Hendrix Style

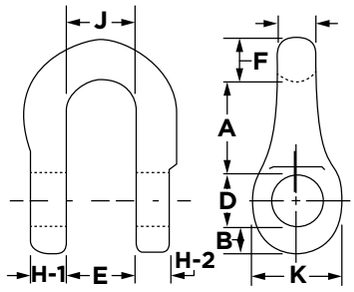


RIVET-TYPE REPAIR LINKS																		
Part No.	Repair Link (2 Req'd)	Link Half Weight		Rivet (4 Req'd)	Rivet Weight		Dimensions										Complete Assembly Weight		Hendrix Part No.
							A Pitch		B		C		C/2 Rad.		E				
		lb	kg		lb	kg	"	mm	"	mm	"	mm	"	mm	"	mm	lb	kg	
A-112-RL-HX	112-RL-HX	6.6	3.0	112RL1	0.1	0.05	5.9	151	1.9	48	2.9	73	1.2	30	1.6	41	13.7	6.2	112-RL
A-158-RL-HX	158-RL-HX	7.9	3.6	112RL1	0.1	0.05	6.1	156	2.0	51	2.6	67	1.3	33	1.75	44	16.2	7.3	158-RL
A-134-RL-HX	134-RL-HX	9.9	4.5	134RL1	0.1	0.05	6.5	165	2.1	54	2.75	70	1.4	35	1.9	48	20.4	9.3	134-RL
A-2-RL-HX	2-RL-HX	14.8	6.7	2RL1	0.2	0.09	7.5	191	2.4	60	3.0	76	1.5	38	2.1	54	30.3	13.7	2-RL
A-214-RL-HX	214-RL-HX	18.6	8.4	2RL1	0.2	0.09	8.25	210	2.6	67	3.25	83	1.6	41	2.4	60	38.0	17.2	214-RL
A-212-RL-HX	212-RL-HX	29.1	13.2	212RL1	0.4	0.18	10.0	254	2.9	73	3.75	95	1.9	48	2.75	70	59.6	27.0	212-RL
A-234-RL-HX	234-RL-HX	36.3	16.5	212RL1	0.4	0.18	11.25	286	2.9	73	4.25	108	2.1	54	3.0	76	72.6	32.9	234-RL
A-3-RL-HX	3-RL-HX	85.0	38.6	3RL1	0.4	0.18	11.5	282	3.2	83	4.5	114	2.25	57	3.0	76	85.0	38.6	3RL
A-312-RL-HX	312-RL-HX	156.0	70.8	3RL1	0.4	0.18	13.1	333	3.8	96	5.5	140	2.75	70	3.8	96	156	70.8	312-RL



RIVETS				
Part No.	Dimensions			
	A		B	
	"	mm	"	mm
112-RL-1	2.5	64	0.4	11
134-RL-1	2.5	64	0.5	13
2-RL-1	3.0	76	0.5	13
212-RL-1	4.0	102	0.6	16
3-RL-1	4.6	116	0.6	16

HITCH SHACKLES & TRUNION
Hendrix Style



HITCH SHACKLES														
Part No.	Dimensions													
	A		B		C		D Pin Dia.		E		F		H-1	
	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm
222-HX	4.4	112	1.2	31	1.8	46	1.6	40	2.5	64	2.0	51	1.5	38
322-HX	4.5	114	1.25	32	1.75	44	1.75	44	2.6	67	2.0	51	1.5	38
622-HX	4.9	124	1.6	40	2.3	59	2.3	59	3.0	76	2.6	65	2.1	52
822-HX	5.6	143	1.9	49	2.5	64	2.6	67	3.25	83	2.75	70	2.25	57

HITCH SHACKLES CONTINUED									
Part No.	Dimensions						Weight		Mating Parts
	H-2		J		K				
	"	mm	"	mm	"	mm	lb	kg	
222-HX	1.5	38	2.9	74	3.7	94	16.5	7.5	
322-HX	1.5	38	3.0	76	3.75	95	16.0	7.3	324 H.P. Pin 3RHP Hitch Plate
622-HX	2.1	52	3.75	95	5.1	130	34.0	15.4	624 Hitch Plate
822-HX	2.25	57	3.5	89	6.0	152	54.0	24.5	

TRUNNION LINK ASSEMBLY					
Part No.	Link	Low Pin	Top Pin	Jam Nut	Cotter Pin
A826NHX	826NHX	830HX	828NHX	134SNHX	38312CP

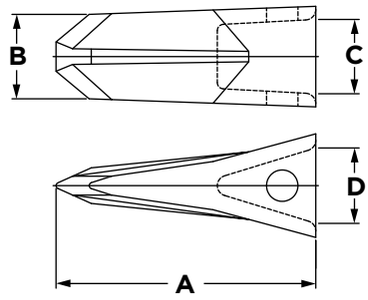
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3.7

DIRECT REPLACEMENT PRODUCTS

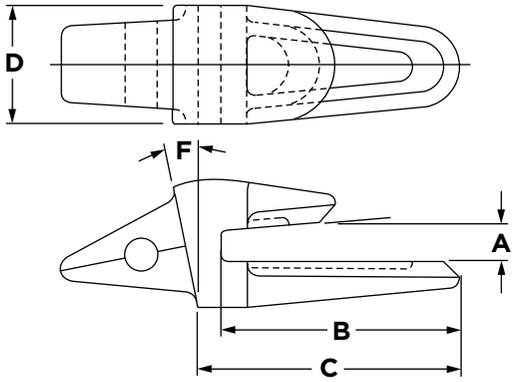
Komatsu Style

TEETH & ADAPTERS FOR RTB & EXCAVATOR
Komatsu Style



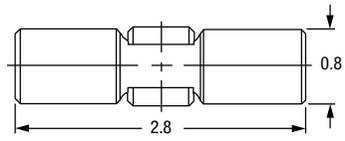
TEETH

Model	Hensley Part No.	Tooth Fastener	Tooth Style	Dimensions								Weight	
				Overall Tooth				Tooth Pocket					
				A		B		C		D			
				"	mm	"	mm	"	mm	"	mm	lb	kg
WB140 WB150	20X-70-14160HX	20X-70-00100P	STD	7.0	178	2.5	64	2.2	56	2.25	57	5.3	2.4
	20X-70-14160RC		RC	7.75	197	2.5	64	2.2	56	2.25	57	6.6	3.0
	20X-70-14160WT		Twin	8.5	216	3.8	97	2.2	56	2.25	57	6.1	2.8
PC 60 PC 75 PC 80 PC 90	20X-70-14160HX	20X-70-00100P	STD	7.0	178	2.5	64	2.2	56	2.25	57	5.3	2.4
	20X-70-14160RC		RC	7.75	197	2.5	64	2.2	56	2.25	57	6.6	3.0
	20X-70-14160WT		Twin	8.5	216	3.8	97	2.2	56	2.25	57	6.1	2.8
	T20X-70-14160		Tiger	8.5	216	0.25	6	2.2	56	2.25	57	5.0	2.3



PIN W/ SNAP RING

20X-70-00100P

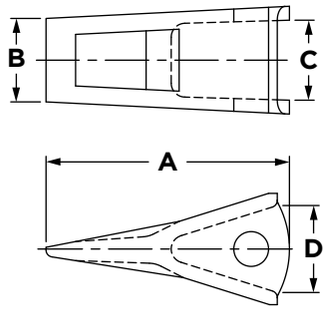


ADAPTERS

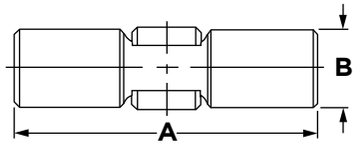
Model	Hensley Part No.	Type	Dimensions										Weight
			A		B		C		D		E	F	
			"	mm	"	mm	"	mm	"	mm	Bevel Degree	Nose Angle	lb
WB140 WB150 PC 60 PC 75 PC 80 PC 90	20X-70-14151HX	4	1.0	25	5.75	146	6.3	160	2.9	73	-	12	8.5

Note: Measurements are in inches.

TEETH FOR EXCAVATOR & PIN W/ SNAP RING
Komatsu Style



TEETH												
Model	Hensley Part No.	Tooth Styles	Tooth Fastener	Dimensions								Weight	
				Overall Tooth				Tooth Pocket					
				A		B		C		D			
				″	mm	″	mm	″	mm	″	mm	lb	kg
PC 100 PC 120 PC 150 PC 200	205-70-19570HX	STD	092-44-02496P	8.75	222	3.1	79	2.9	75	3.1	79	9.7	4.4
	T205-70-19570	Tiger		10.6	270	-	-	2.9	75	3.1	79	10.6	4.8
	205-70-19570WT	Twin		10.6	270	4.75	121	2.9	75	3.1	79	12.7	5.8
	205-70-19570RC	RC		10.7	271	3.7	94	2.9	75	3.1	79	13.8	6.3
	205-70-19570SYL	SYL		10.3	260	3.7	94	2.9	75	3.1	79	12.5	5.7
	205-70-19570F	Flare		9.5	241	6.5	13	2.9	75	3.1	79	13.2	6.0
PC 220 PC 280 PC 300 PC 360	207-70-14151HX	STD	175-78-21740P	9.6	244	3.75	95	3.7	94	3.4	86	16.0	7.3
	T207-70-14151	Tiger		11.5	292	-	-	3.7	94	3.4	86	16.0	7.3
	207-70-14151WT	Twin		11.5	292	5.75	146	3.7	94	3.4	86	19.3	8.8
	207-70-14151RC	RC		11.4	289	4.25	108	3.7	94	3.4	86	21.0	9.5
	207-7014151F	Flare		10.25	260	7.5	191	3.7	94	3.4	86	20.4	9.3
	207-70-14151SYL	SYL		11.0	279	4.5	114	3.7	94	3.4	86	17.3	7.9
PC 400	208-70-14152HX	STD	426-847-2310P	10.7	271	4.5	114	4.3	110	3.6	92	23.3	10.6
	T208-70-14152	Tiger		14.0	356	-	-	4.3	110	3.6	92	27.7	12.6
	208-70-14152WT	Twin		14.0	356	6.75	171	4.3	110	3.6	92	30.1	13.7
	208-70-14152RC	RC		13.5	343	4.7	119	4.3	110	3.6	92	34.0	15.4
	208-70-14152SYL	SYL		13.25	337	5.1	130	4.3	110	3.6	92	26.4	12.0
PC 650	209-70-54210HX	STD	209-70-54240P	13.75	349	5.6	143	5.1	129	5.4	137	63.0	28.6

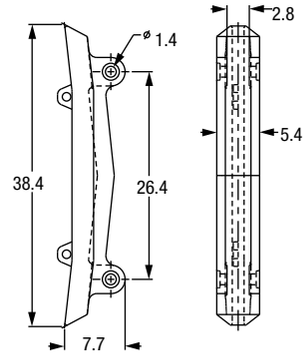


PIN W/ SNAP RING					
Model	Hensley Part No.	Dimensions			
		A		B	
		″	mm	″	mm
PC 100 PC 120 PC 150 PC 200	092-44-02496P	3.8	96	1.0	25
PC 220 PC 280 PC 300 PC 360	175-78-21740P	4.6	117	1.0	25
PC 400	426-847-2310P	5.7	143	1.2	29
PC 650	209-70-54240P	6.6	168	1.4	36
PC 1000	21N-72-14330P	6.5	165	1.6	40

VERTICAL EDGE PROTECTOR FOR EXCAVATOR
Komatsu Style

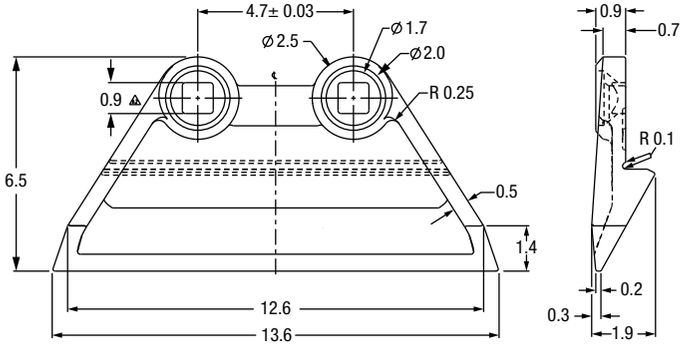
VERTICAL EDGE PROTECTOR

K3814 (PC1800)
149.0 lb / 67.6 kg
uses (2) 8E4708 pin, (2) 4T4707W washer

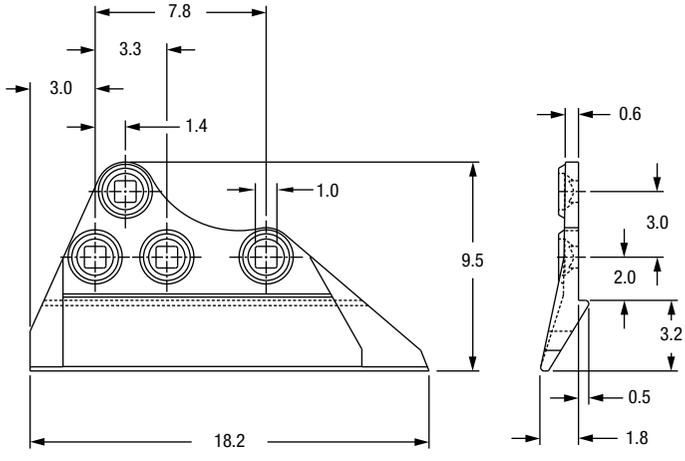


SIDECUTTERS

E72959HX
11.1 lb / 5.0 kg
uses (2) A78-234 plow bolt assemblies



E72958RHX (RH shown)
E72958LHX (LH opposite)
21.4 lb / 9.7 kg
uses (4) A78-234 plow bolt assemblies



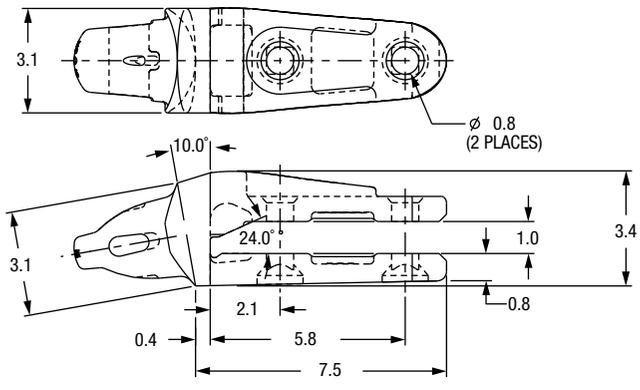
Note: Measurements are in inches.

BOLT ON ADAPTERS FOR LOADERS
Komatsu Style

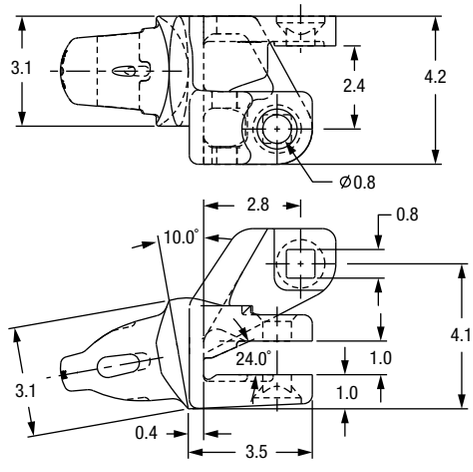
BOLT-ON ADAPTERS					
Model	**Adapter Position**	**KMAX Part No.**	**XS Part No.**	**Replaces Komatsu Part No.**	**Replaces Esco Part No.**
WA120 WA150	center	3022MXS10	3022MXS10		
	left hand	3022MXS10L	3022MXS10L		
	right hand	3022MXS10R	3022MXS10R		
WA180 WA200	center	K3025M15	3025MXS15	418-847-1120	5780-V19
	left hand	K3025M15L	3025MXS15L	418-847-1160	5781L-V19
	right hand	K3025M15R	3025MXS15R	418-847-1170	5781R-V19
WA250 WA320	center	K3028M20	3028MXS20	419-847-1111	4798-V23
	left hand	K3028M20L	3028MXS20L	419-847-1121	5763L-V23
	right hand	K3028M20R	3028MXS20R	419-847-1131	5796R-V23
WA380 WA420 WA450 WA480	center	K3036M25	3036MXS25	423-847-1111	5764-V23 & 5764-V29
	left hand	K3036M25L	3036MXS25L	423-847-1121	
	right hand	K3036M25R	3036MXS25R	423-847-1131	
WA500 40MM lip	center	K3040M40	3040MXS40	425-847-1191	
	left hand	K3040M40L	3040MXS40L	425-847-1221	
	right hand	K3040M40R	3040MXS40R	425-847-1211	
WA500 1.75" lip	center	K317540			
	left hand	K317540L			
	right hand	K317540R			

WA120 K10 SERIES ADAPTERS

3022MXS10
Center
12.0 lb / 5.4 kg
for 22mm lip, uses (2) AC34-300 plow bolt assemblies



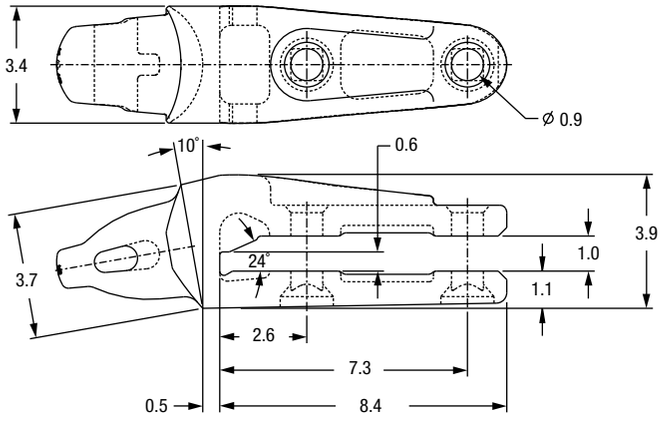
3022MXS10L (LH Opposite)
3022MXS10R (RH Shown)
10.6 lb / 4.8 kg
for 22mm lip, uses (1) AC34-300 and
(1) AC34-212 plow bolt assemblies



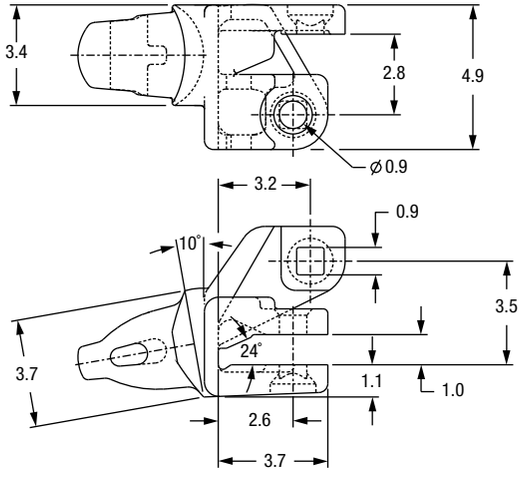
ADAPTERS FOR LOADERS
Komatsu Style

WA180 ADAPTERS

K3025M15 (3025MX15)
Center
18.9 lb / 8.6 kg
for 25mm lip, uses (2) AC78-312 plow bolt assemblies

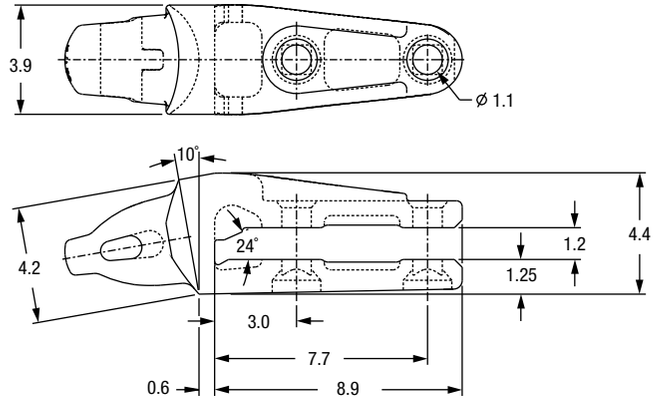


K3025M15R (3025MXS515R) RH Shown
K3025M15L (3025MXS515L) LH Opposite
17.3 lb / 7.9
for 25mm lip, uses (1) AC78-312 and
(1) AC78-200 plow bolt assemblies

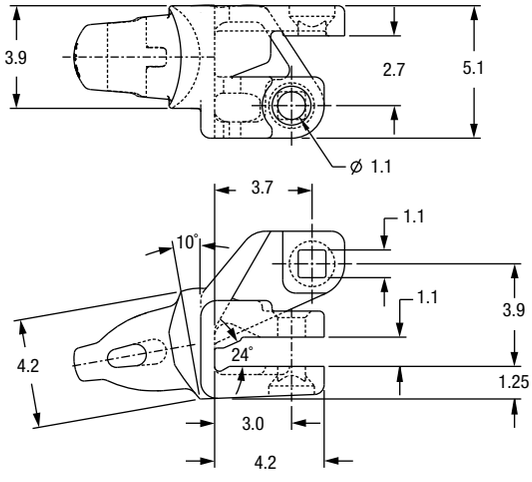


WA250 / WA320 ADAPTERS

K3028M20 (3028MXS20)
Center
25.6 lb / 11.6 kg
for 28mm lip, uses (1) AC10-334 plow bolt assemblies



K3028M20R (3028MXS20R) RH Shown
K3028M20L (3028MXS20L) LH Opposite
22.2 lb / 10.1 kg
for 28mm lip, uses (1) AC10-334 and
(1) AC10-200 plow bolt assemblies

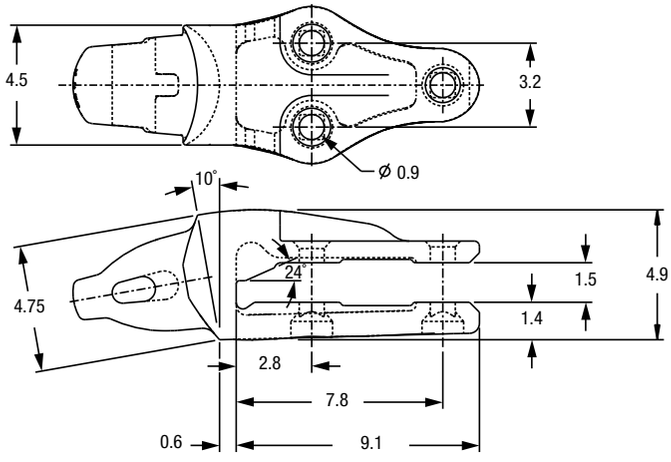


Note: Measurements are in inches.

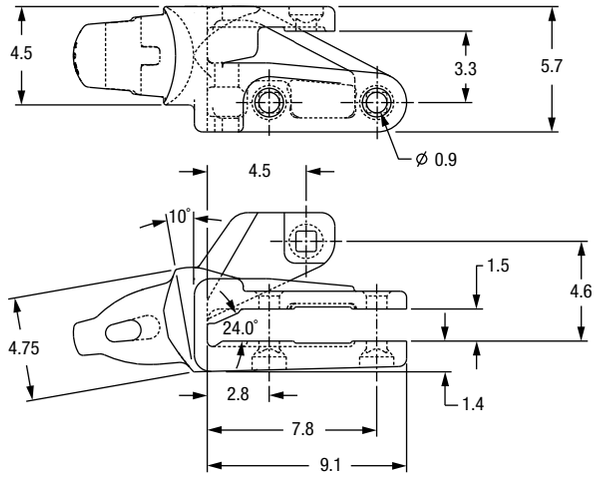
ADAPTERS FOR LOADERS
Komatsu Style

WA380 / WA420 / WA450 ADAPTERS

K3036M25 (3036MXS25)
Center
31.8 lb / 14.4 kg
for 36mm lip, uses (3) AC78-400 plow bolt assemblies

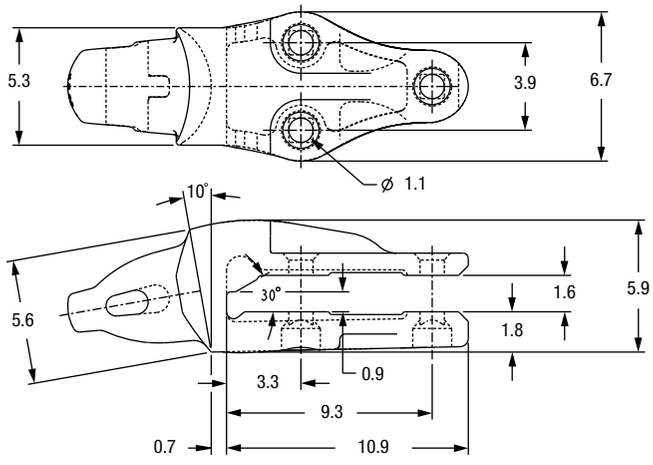


K3036M25R (3036MXS25R) RH Shown
K3036M25L (3036MXS25L) LH Opposite
37.5 lb / 17.0 kg
for 36mm lip, uses (3) AC78-400 plow bolt assemblies

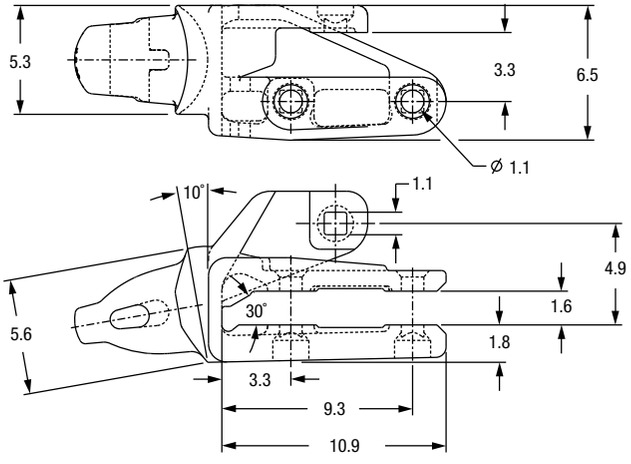


WA500 ADAPTERS

K3040M40 (3040MXS40)
Center
56.0 lb / 25.4 kg
for 40mm lip, uses (3) AC10-412 plow bolt assemblies



K3040M40R (3040MXS40R) RH Shown
K3040M40L (3040MXS40L) LH Opposite
61.0 lb / 27.7 kg
for 40mm lip, uses (3) AC10-412 plow bolt assemblies

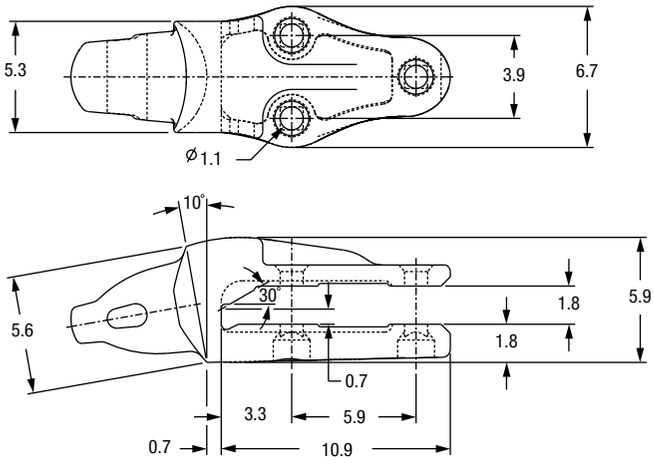


Note: Measurements are in inches.

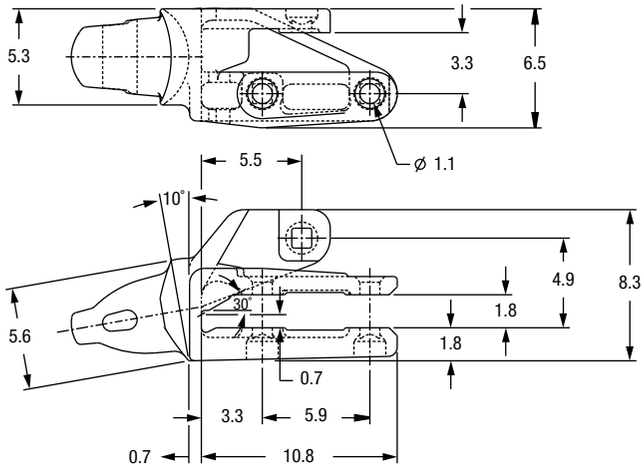
ADAPTERS FOR LOADERS
Komatsu Style

WA500 (1.75” LIP)

K317540
Center
61.0 lb / 27.7 kg
for 1.75” lip, uses (3) AC10-500 plow bolt assemblies

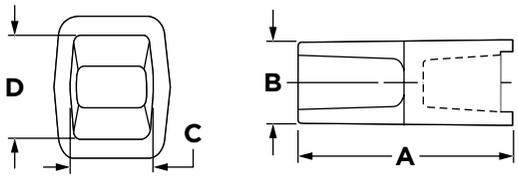


K317540R (RH Shown)
K317540L (LH Opposite)
63.0 lb / 28.6 kga
for 1.75” lip, uses (3) AC10-412 plow bolt assemblies

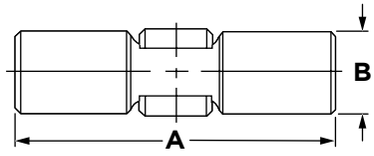


Note: Measurements are in inches.

TEETH & PINS FOR LOADERS
Komatsu Style



TEETH											
Model	Hensley Part No.	Tooth Fastener	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			″	mm	″	mm	″	mm	″	mm	lb	kg
WA350-470	423-847-1140RP2	175-78-21740P	12.5	317	4.1	105	3.7	94	3.4	86	28.2	12.8
	D423-847-1140		9.6	245	3.8	96	3.7	94	3.4	86	16.8	7.6
WA500 WA600	426-847-1110HX	426-847-2310P	11.4	289	4.25	108	4.3	110	4.3	109	27.0	12.3
	426-847-1110RP2		13.75	349	5.0	127	4.3	110	4.3	109	47.0	21.3
	426-847-1110RP3		13.8	351	5.1	130	4.3	110	4.3	109	57.0	25.9
WA700 WA800	427-70-13731HX	427-70-13790P	13.9	353	5.6	142	4.8	122	5.2	132	64.0	29.0
WA900	427-70-13941RP2	427-70-13891	16.0	406							113.0	51.3

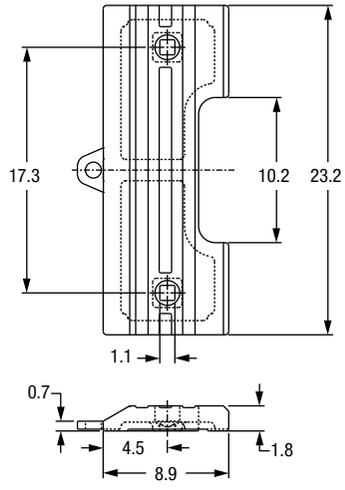


PINS					
Model	Hensley Part No.	Dimensions			
		A		B	
		″	mm	″	mm
WA350-470	175-78-21740P	4.6	117	1.0	25
WA500 WA600	426-847-2310P	5.7	143	1.2	29
WA700 WA800	427-70-13790P	6.6	169	1.2	29

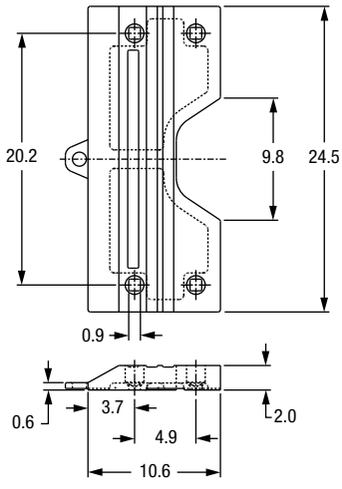
HEEL PLATES FOR LOADERS
Komatsu Style

CAST BOLT-ON HEEL PLATES

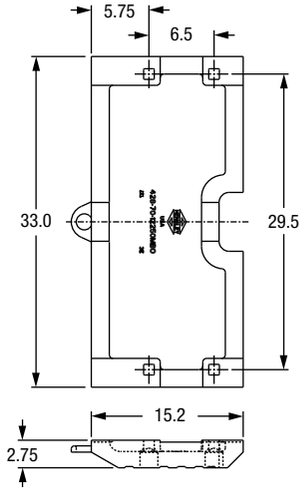
4257032161MHX (WA500-6)
63.0 lb / 28.6 kg
Requires (2) A10-300 plow bolt assemblies



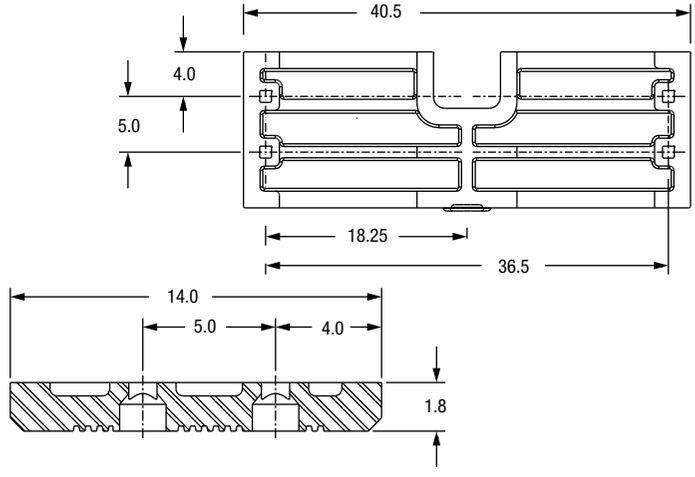
4267032162MHX (WA600-6)
92.0 lb / 41.8 kg
Requires (4) A78-300 plow bolt assemblies



428-70-12250MBO (WA700)
231.0 lb / 104.9 kg
Requires (4) A10-412 plow bolt assemblies



WA8003HP (WA800)
216.0 .b / 98.1 kg
Requires (4) A10-512WLN plow bolt assemblies

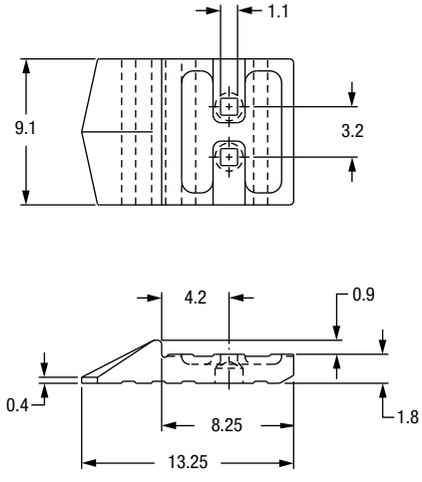


Note: Measurements are in inches.

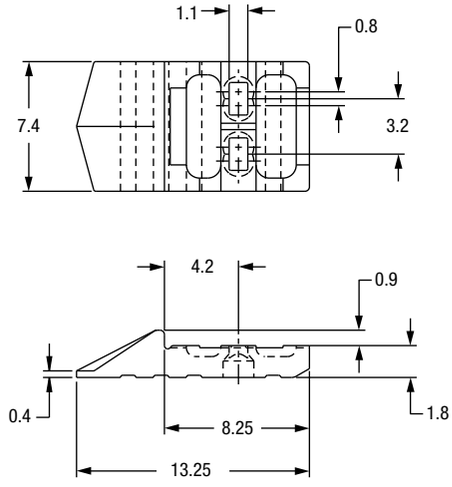
BOLT-ON SEGMENTS FOR LOADERS
Komatsu Style

CAST HALF ARROW BOLT-ON SEGMENTS

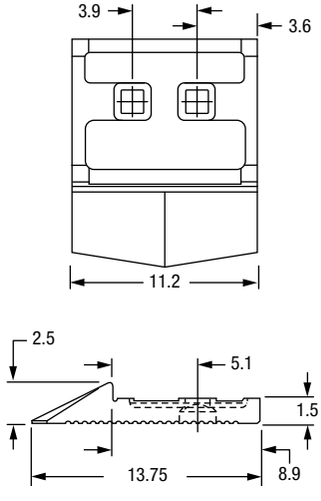
WA480CNR (WA480)
36.9 lb / 18.0 kg
Requires (2) A10-300 plow bolt assemblies



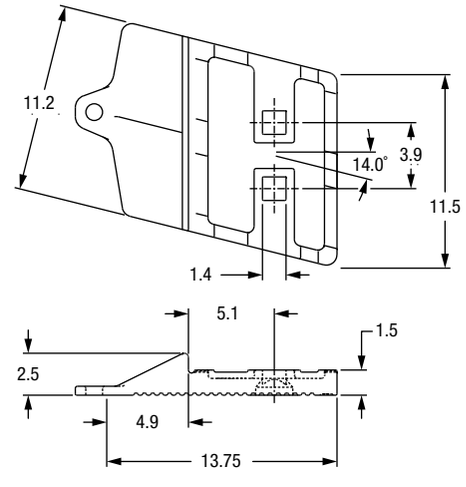
WA480RLNR (WA480)
39.6 lb / 21.1 kg
Requires (2) A10-300 plow bolt assemblies



425-838-A110NR (WA500)
44.5 lb / 20.2 kg
Requires (2) A114-400 plow bolt assemblies each



425-838-A110RNR (WA500) (RH Shown)
425-838-A110LNR (WA500) (LH Opposite)
54.0 lb / 24.5 kg
Requires (2) A114-400 plow bolt assemblies each

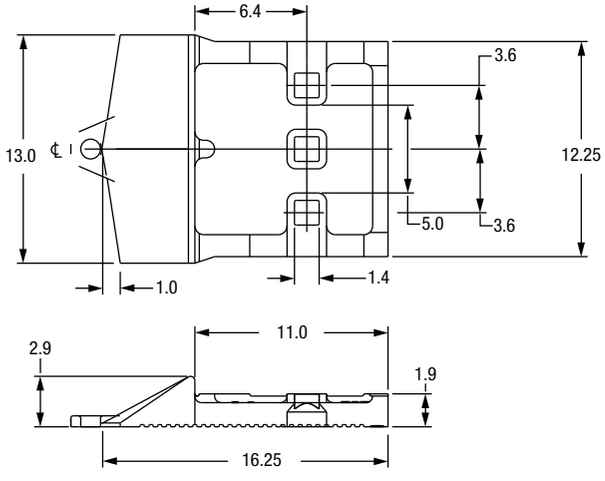


Note: Measurements are in inches.

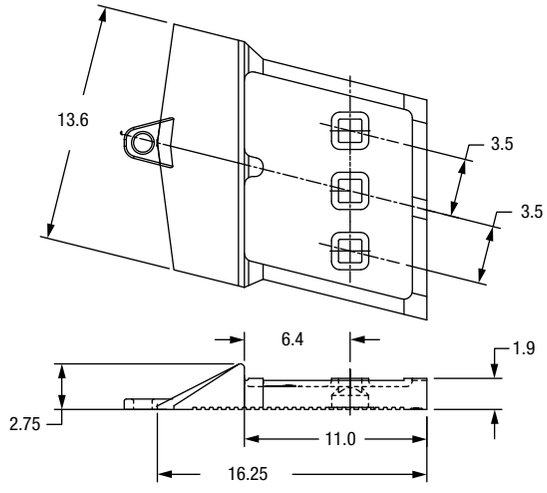
BOLT-ON SEGMENTS FOR LOADERS
Komatsu Style

CAST HALF ARROW BOLT-ON SEGMENTS CONTINUED

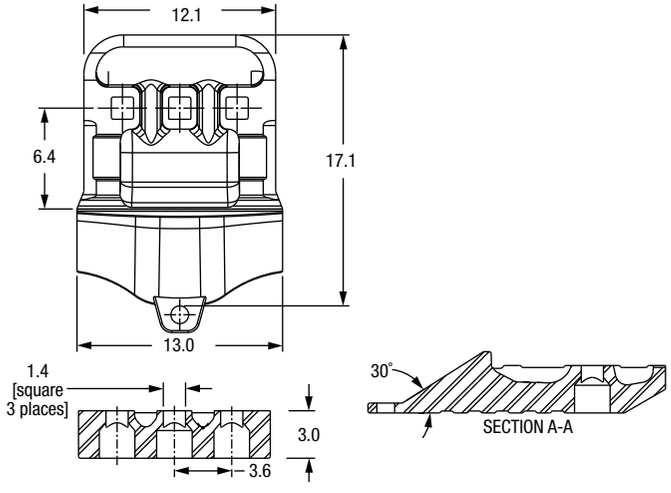
MS600CNR (WA600)
86.5 lb / 39.0 kg
Requires (3) A114-400 plow bolt assemblies each
Use with RP1 teeth



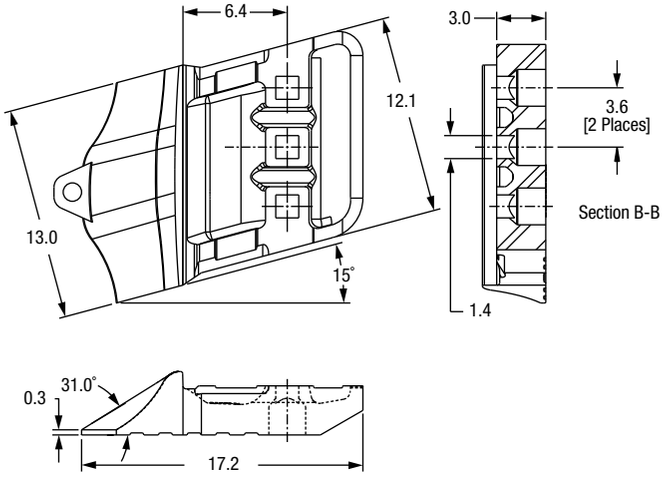
MS600RNR (WA600) (RH Opposite)
MS600LNR (WA600) (LH Shown)
87.0 lb / 39.5 kg
Requires (3) A114-400 plow bolt assemblies each
Use with RP1 teeth



MS600CNRH (WA600)
117.5 lb / 53.3 kg
Requires (3) A114-400 plow bolt assemblies each
Use with RP2 teeth



MS600RNRH (WA600) (RH Shown)
MS600LNRH (WA600) (LH Opposite)
122.5 lb / 55.6 kg
Requires (3) A114-400 plow bolt assemblies each
Use with RP2 teeth

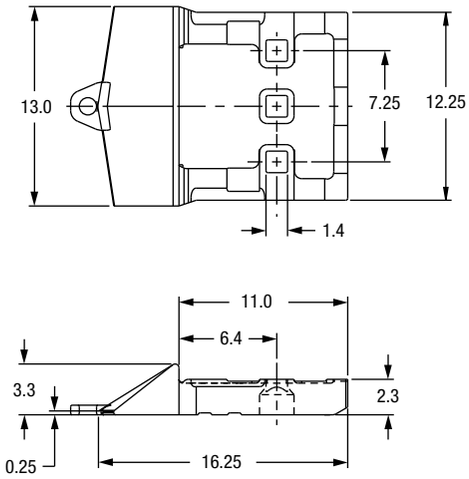


Note: Measurements are in inches.

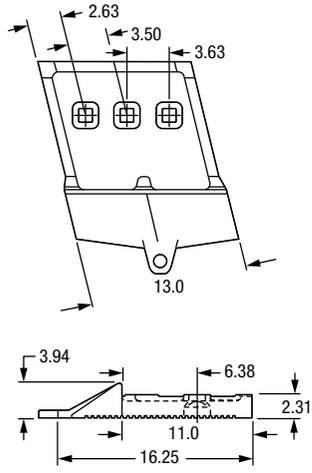
BOLT-ON SEGMENTS FOR LOADERS
Komatsu Style

CAST HALF ARROW BOLT-ON SEGMENTS CONTINUED

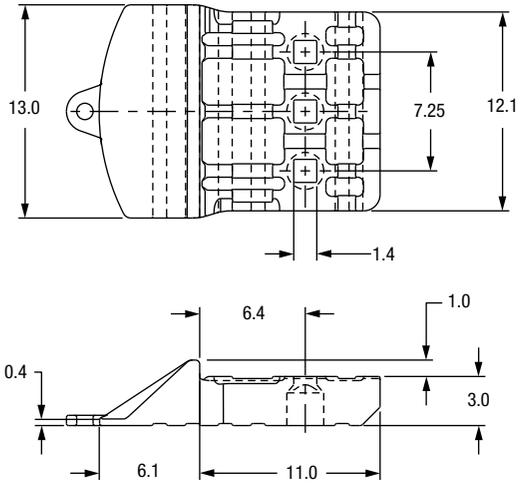
WA600CNR (WA600)
103.0 lb / 46.7 kg
Uses (3) AC114-512 plow bolt assemblies



WA600RNR (WA600) (RH Shown)
WA600LNR (WA600) (LH Opposite)
104.0 lb / 47.2 kg
Uses (3) AC114-512 plow bolt assemblies

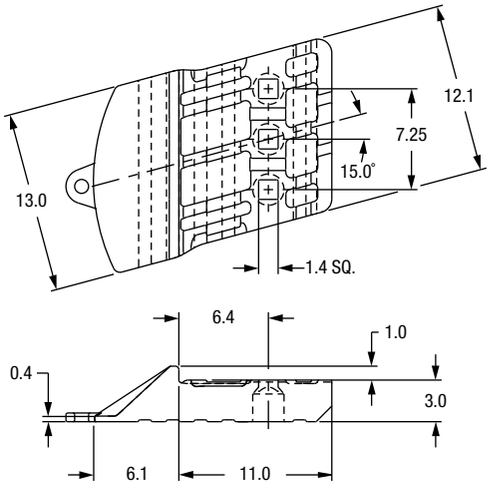


WA600CNR76 (WA600)
142.0 lb / 64.5 kg
Uses (3) AC114-512 plow bolt assemblies



Note: Solid segment with slight recess.

WA600RNR76 (WA600) (RH Shown)
WA600LNR76 (WA600) (LH Opposite)
148.0 lb / 67.2 kg
Uses (3) AC114-512 plow bolt assemblies



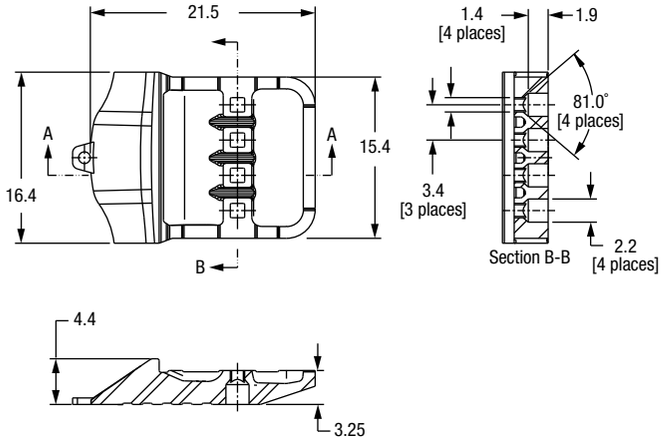
Note: Solid segment with slight recess.

Note: Measurements are in inches.

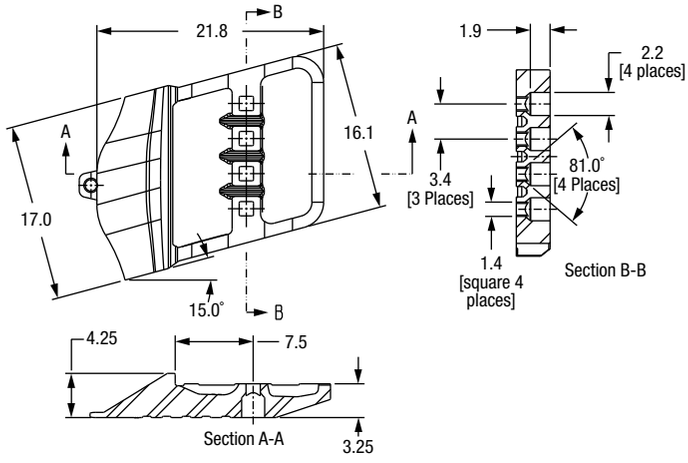
BOLT-ON SEGMENTS FOR LOADERS
Komatsu Style

CAST HALF ARROW BOLT-ON SEGMENTS CONTINUED

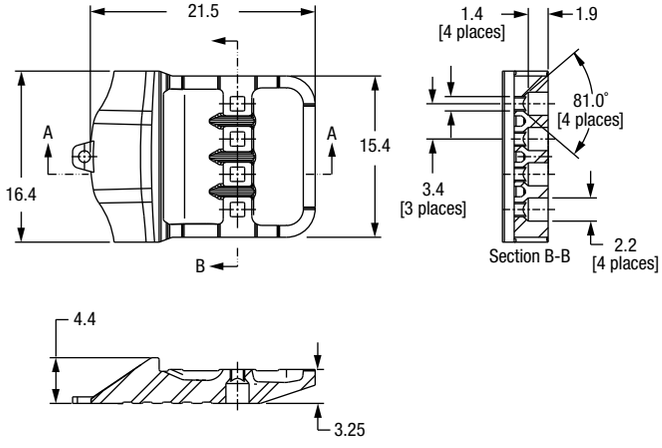
WA700CNR (WA700)
163.0 lb / 74.0 kg
Requires (4) A114-412 plow bolt assemblies each



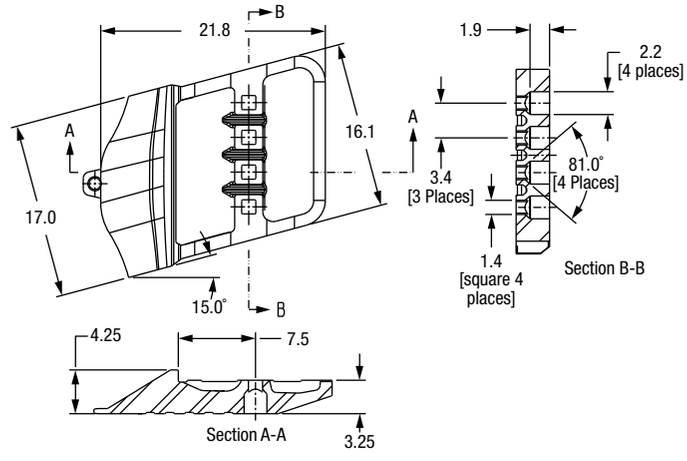
WA700RNR (WA700) (RH Shown)
WA700LNR (WA700) (LH Opposite)
167.0 lb / 75.8 kg
Requires (4) A114-412 plow bolt assemblies each



WA800CNR
208.0 lb / 94.3 kg
Requires (2) A114-612TC plow bolt assemblies



WA800RNR (RH Shown)
WA800LNR (LH Opposite)
227.0 lb / 103.0 kg
Requires (2) A114-612TC plow bolt assemblies



Note: Measurements are in inches.

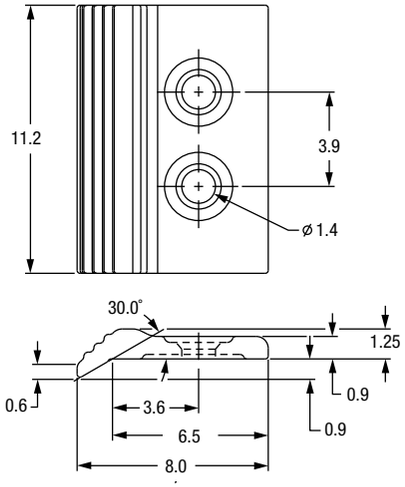
TOP COVERS FOR LOADERS
Komatsu Style

TOP COVER PLOW BOLT ASSEMBLIES*										
Model	Lip Thickness		Plow Bolt Assembly	Assembly Hardware Part No.	Hardware Description	Bolt Length		Bolt Diameter		Torque Recommendations	
	"	mm				"	mm	"	mm	ft-lbs	Nm
WA600 WA700	2.5	64	AC114600TC	PB114600	1.25"-7X6" plow bolt	6.0	152	1.25	32	1,700 3 220	2,300 3 300
				N114C	1.25" hex cone nut	-	-	-	-	-	-
				N114C	1.25" hex nut grade 8	-	-	-	-	-	-
				114LW	1.25" lock washer	-	-	-	-	-	-
WA800 WA900	3.0	76	AC114612TC	PB114612	1.25" -7X6.5" plow bolt	6.5	165	1.25	32	1,700 3 220	2,300 3 300
				N114C	1.25" hex cone nut	-	-	-	-	-	-
				N114C	1.25" hex nut grade 8	-	-	-	-	-	-
				114LW	1.25" lock washer	-	-	-	-	-	-

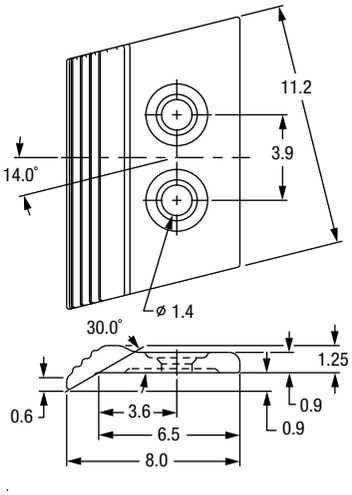
*Plow bolt assembly informatin based on required bolt length and bole thread length.

TOP COVERS

WA500TPC (WA500)
22.4 lb / 10.2 kg
For use with 425-838-A110NR segments
Uses (2) AC114512 plow bolt assemblies



WA500TPR (WA500) RH Shown
WA500TPL (WA500) LH Opposite
23.0 lb / 10.4 kg
Uses (3) AC114-512 plow bolt assemblies;

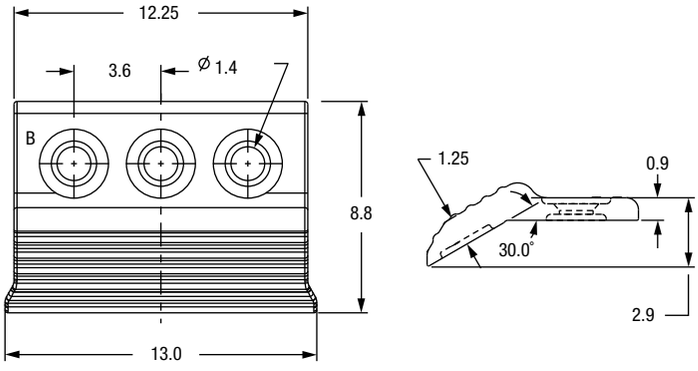


Note: Measurements are in inches.

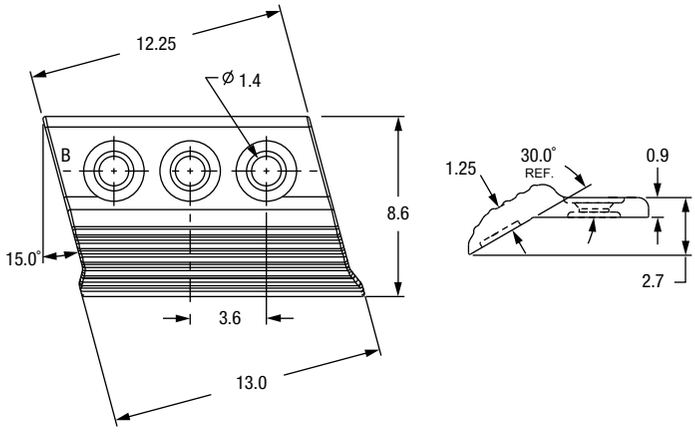
TOP COVERS FOR LOADERS
Komatsu Style

TOP COVERS CONTINUED

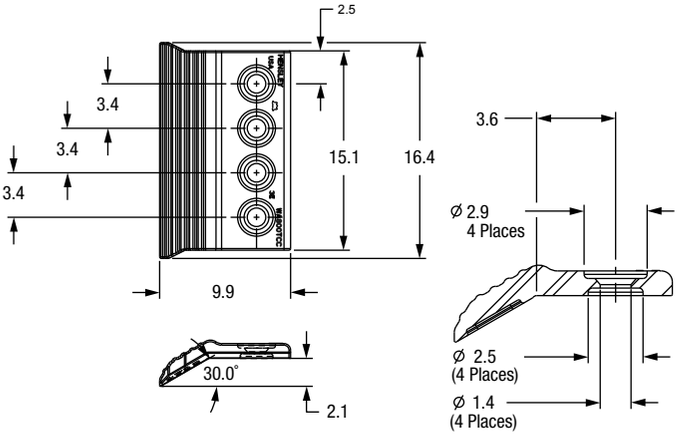
WA600-TCC (WA600)
33.5 lb / 15.2 kg
For use with all WA600 segments



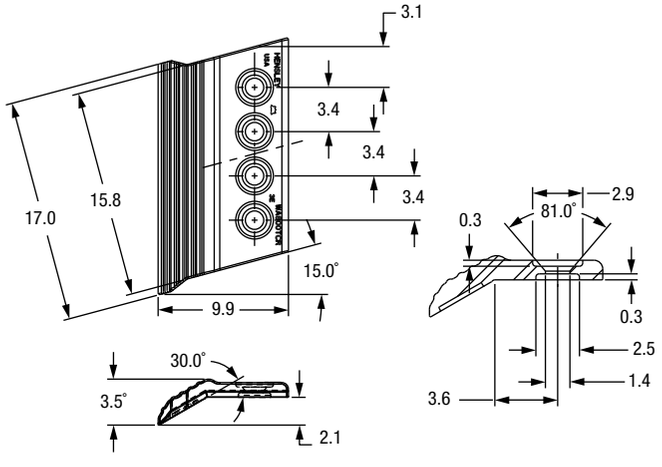
WA600-TCR (WA600) (RH Shown)
WA600-TCL (WA600) (LH Opposite)
36.5 lb / 16.6 kg
For use with all WA600 segments



WA800-TCC (WA800)
43.0 lb / 19.5 kg
For use with WA800CNR segments



WA800-TCR (WA800) (RH Shown)
WA800-TCL (WA800) (LH oppostite)
46.5 lb / 21.1 kg
For use with WA800RNR and WA800LNR segments

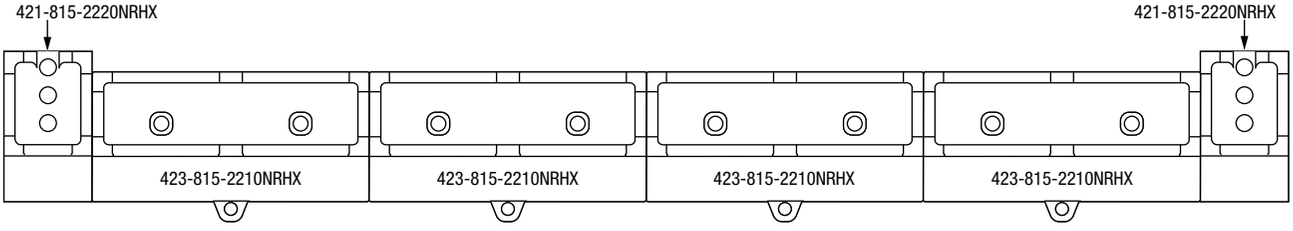


Note: Measurements are in inches.

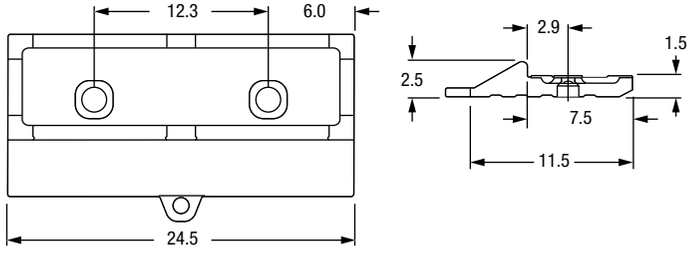
BOLT-ON EDGES FOR LOADERS
Komatsu Style

HALF ARROW BOLT-ON EDGES						
Model	**Center Edge**	**No. Req'd.**	**Bolt/Nut Assemblies**	**End Edge**	**No. Req'd.**	**Bolt/Nut Assemblies**
WA380	423-815-2210NRHX	4	(2) ea. A78-300	421-815-2220NRHX	2	(3) ea. A78-300
		2	(4) ea. A78-300		2	(3) ea. A78-300
		1	(6) ea. A78-314		1	(6) ea. A78-314
					1	
WA450, WA470	421-815-1211CNR	1	(6) ea. A78-312	421-815-1221NR	2	(4) ea. A10-31
	RH: 421-815-1211RCNR	1	(4) ea. A78-312			
	LH: 421-815-1211LCNR	1	(4) ea. A78-312			
	421-815-3210CNR	6	(2) ea. A10-334			
				RH: 421-815-3220RNR	1	(3) ea. A10-334
				LH: 421-815-3220LNR	1	(3) ea. A10-334
	423-815-2211NRHX	5	(2) ea. A78-300	421-815-2220NRHX	2	(3) ea. A78-300
	425-815-1110CNR	3	(4) ea. A10-400	RH: 425-815-1120RNR	1	(2) ea. A10-400
				LH: 425-815-1120LNR	1	
	RH: 425-815-2210RNR	1	(4) ea. A10-400	725-815-1320NRHX	2	(4) ea. A10-400
	LH: 425-815-2210LNR	1				
	425-815-1510CNRHX	1	(4) ea. A10-400	425-815-1520NRHX	2	(2) ea. A10-400
	RH/LH: 425-815-1510RLNRHX	2	(4) ea. A10-400			
	425-70-2220CNR	5	(2) ea. A10-412	RH: 425-70-2220RNR	1	(3) ea. A10-412
				LH: 425-70-2220LNR	1	(3) ea. A10-412
	426-815-1110NRHX	3	(4) ea. A138-400	426-815-1130NRHX	2	(4) ea. A138-400

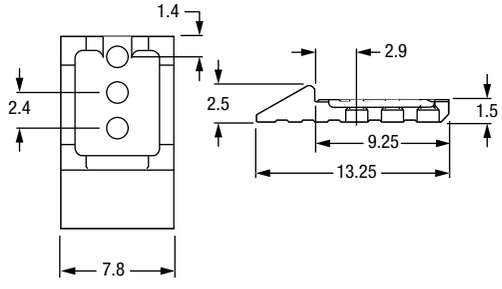
WA380-5



423-815-2210NRHX
102.0 lb / 46.0 kg
Requires (2) A78-300 plow bolt assemblies each



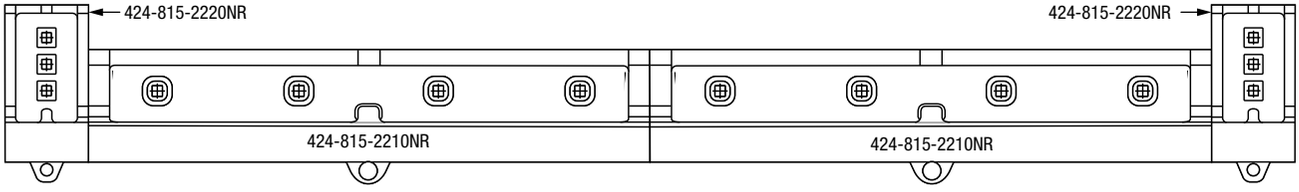
421-815-2220NRHX
37.6 lb / 17.1 kg
Requires (3) A78-300 plow bolt assemblies each



Note: Measurements are in inches.

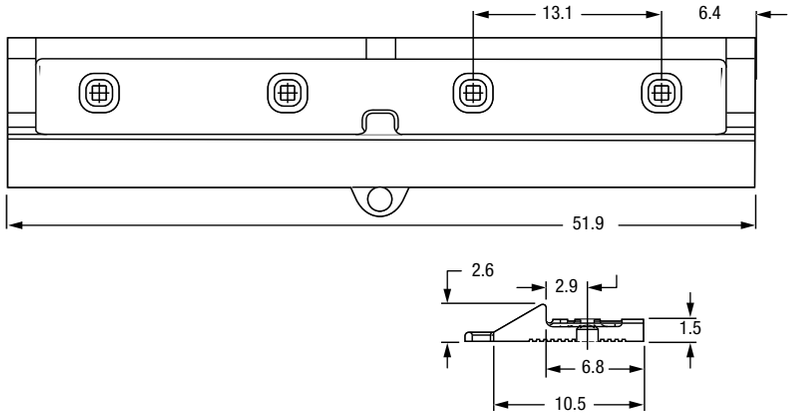
BOLT-ON EDGES FOR LOADERS
Komatsu Style

WA400

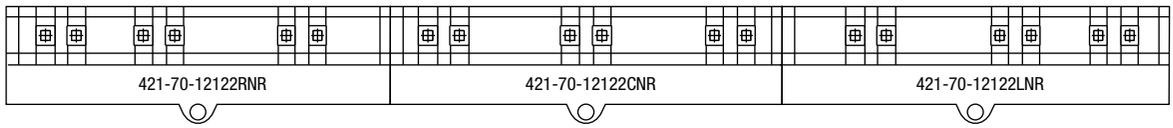


424-815-2210NR
186.0 lb / 84.4 kg
Requires (4) A78-300 plow bolt assemblies each

424-815-2220NR
38.7 lb / 17.6 kg
Requires (3) A78-300 plow bolt assemblies each

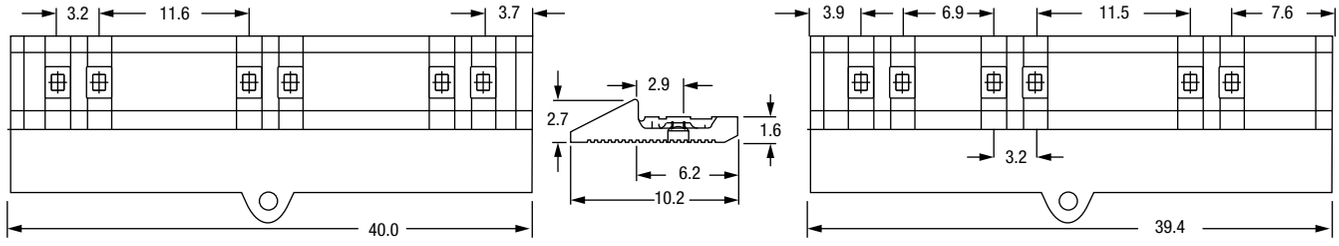


WA420-1 (S/N 10001 - 20001)



421-70-12122CNR
158.0 lb / 71.7 kg
Requires (6) A78-314 plow bolt assemblies each

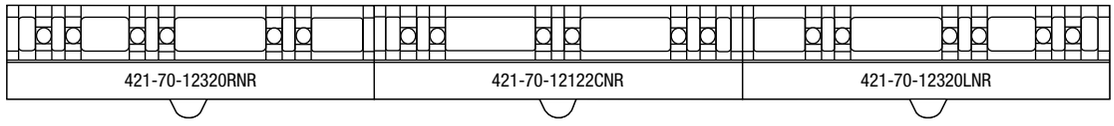
421-70-12122RNR (RH Shown)
421-70-12122LNR (LH Opposite)
160.0 lb / 72.6 kg
Requires (6) A78-314 plow bolt assemblies each



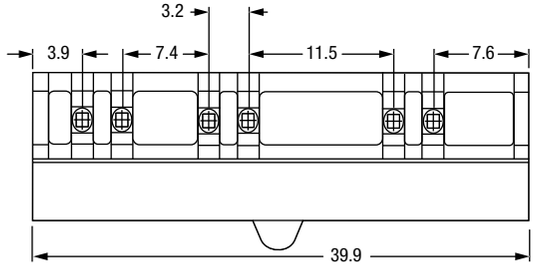
Note: Measurements are in inches.

BOLT-ON EDGES FOR LOADERS
Komatsu Style

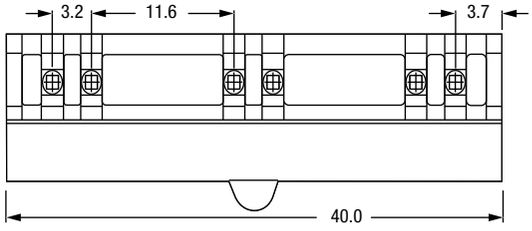
WA450-1 (S/N 10001-20001)

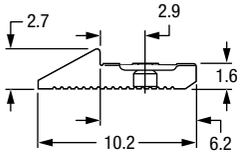


421-70-12320RNR (RH Shown)
421-70-12320LNR (LH Opposite)
163.0 lb / 74.0 kg
Requires (6) A78-314 plow bolt assemblies each

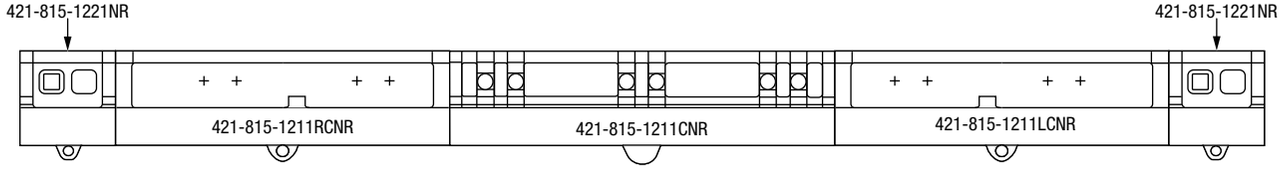


421-70-12122CNR
158.0 lb / 71.7 kg
Requires (6) A78-314 plow bolt assemblies each

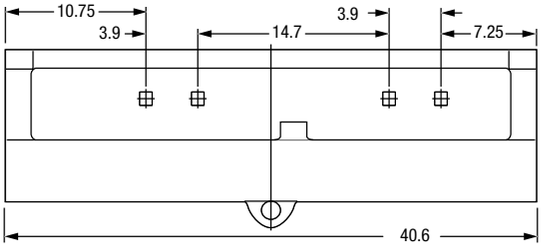




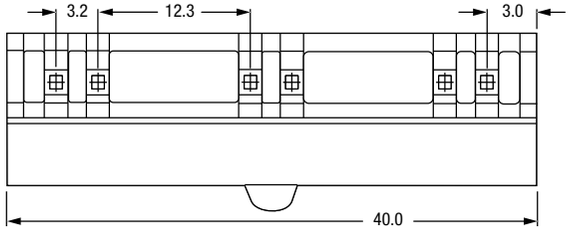
WA450-3 / WA470



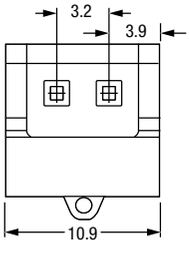
421-815-1211RCNR (RH Shown)
421-815-1211LCNR (LH Opposite)
110.0 lb / 50.4 kg
Requires (4) A78-312 plow bolt assemblies each

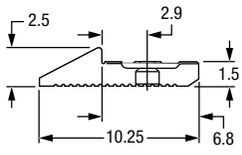


421-815-1211CNR
144.5 lb / 65.6 kg
Requires (6) A78-312 plow bolt assemblies each



421-815-1221NR
42.0 lb / 19.0 kg
Requires (2) A78-312 plow bolt assemblies each

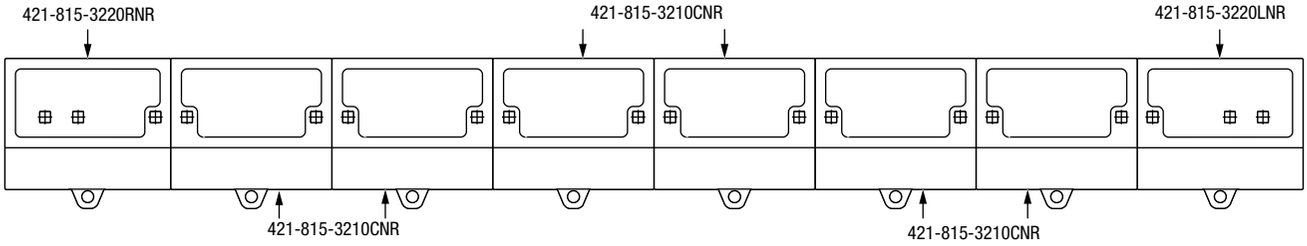




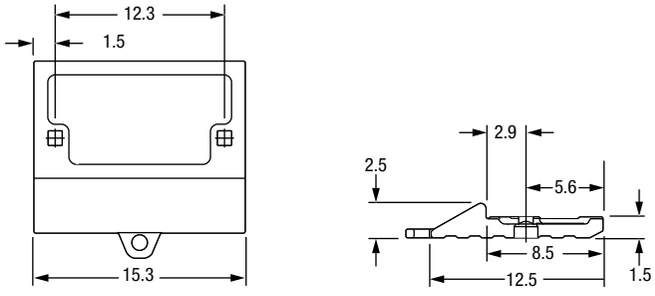
Note: Measurements are in inches.

BOLT-ON EDGES FOR LOADERS
Komatsu Style

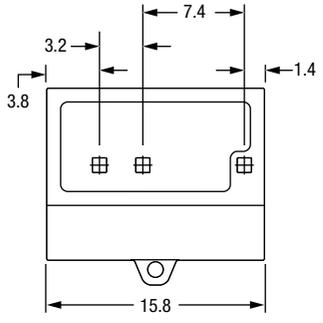
WA450-5/WA450-6 / WA480-5/WA480-6



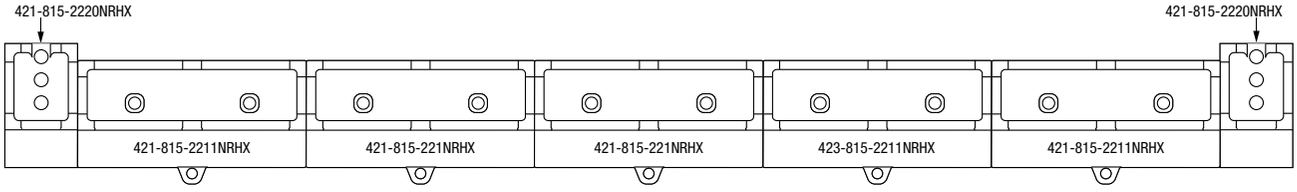
421-815-3210CNR
68.0 lb / 19.0 kg
Requires (2) A10-334 plow bolt assemblies each



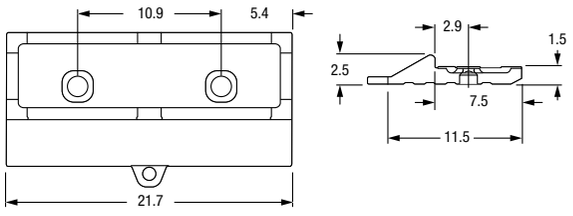
421-815-3220RNR (RH Shown)
421-815-3220LNR (LH Opposite)
Requires (2) A10-344 plow bolt assemblies each



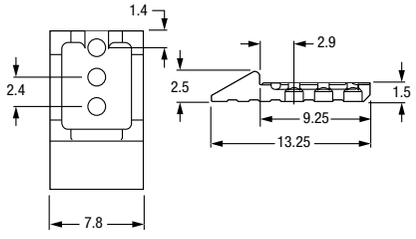
WA470-5



421-815-2211NRHX
88.0 lb / 40.0 kg
Requires (2) A78-300 plow bolt assemblies each



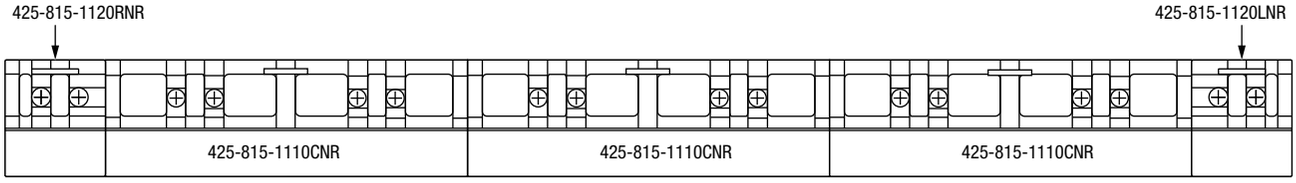
421-815-2220NRHX
37.6 lb / 17.1 kg
Requires (3) A78-300 plow bolt assemblies each



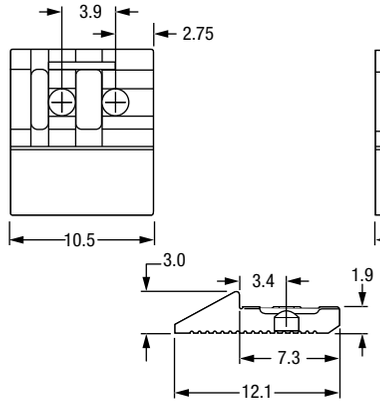
Note: Measurements are in inches.

BOLT-ON EDGES FOR LOADERS
Komatsu Style

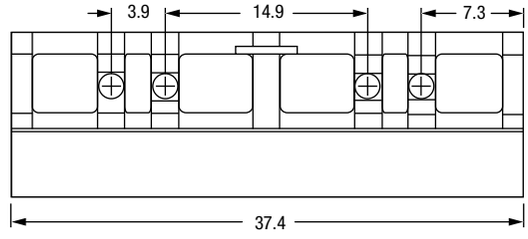
WA500-1 (S/N 10001-19999)



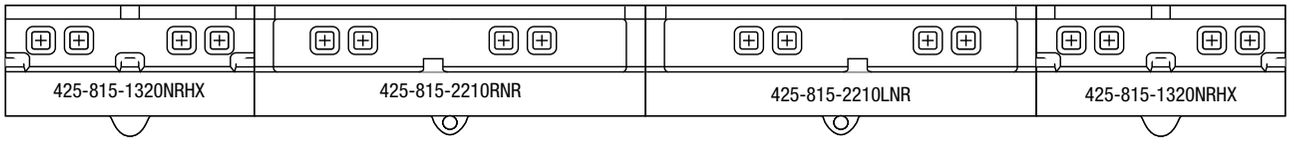
425-815-1120RNR (RH Shown)
425-815-1120LNR (LH Opposite)
62.0 lb / 28.1 kg
Requires (2) A10-400 plow bolt assemblies each



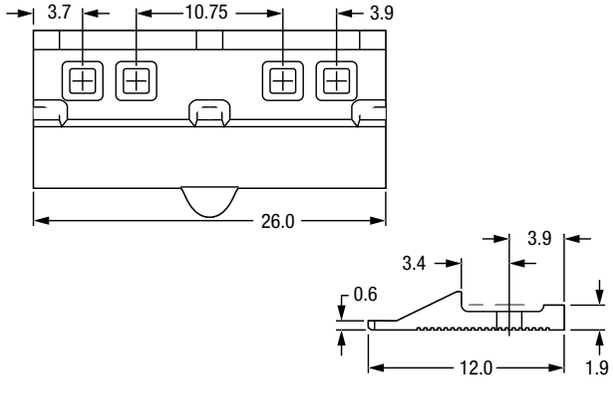
425-815-1110CNR
217.0 lb / 98.4 kg
Requires (4) A10-400 plow bolt assemblies each



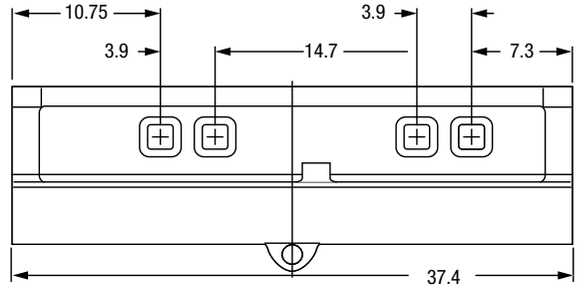
WA500-1 (S/N 20001) / WA500-3



425-815-1320NRHX
149.0 lb / 67.6 kg
Requires (4) A10-400 plow bolt assemblies each



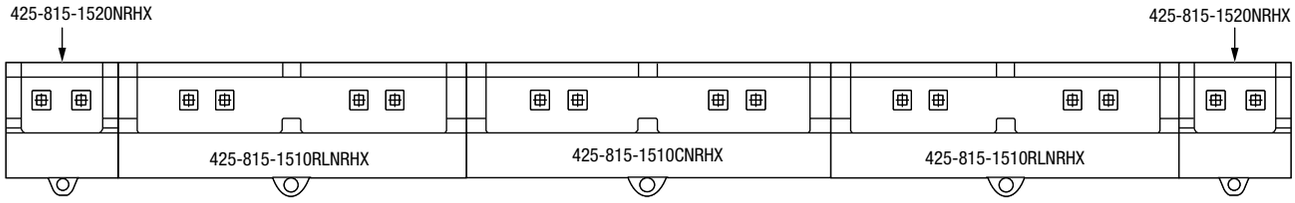
425-815-2210RNR (RH Shown)
425-815-2210LNR (LH Opposite)
222.0 lb / 100.7 kg
Requires (4) A10-400 plow bolt assemblies each



Note: Measurements are in inches.

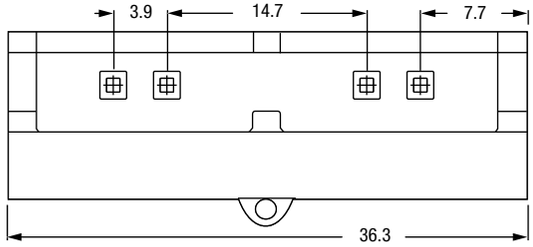
BOLT-ON EDGES FOR LOADERS
Komatsu Style

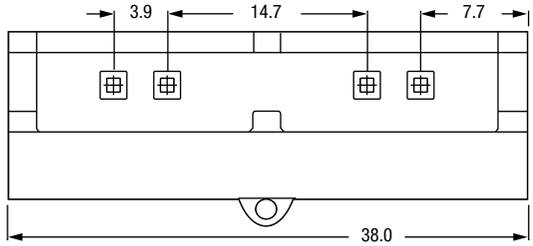
WA500-3



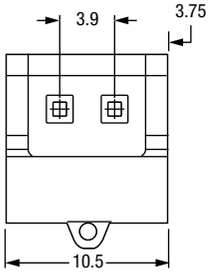
425-815-1510RLNRHX
192.0 lb / 87.1 kg
Requires (4) A10-400 plow bolt assemblies each

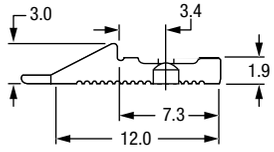
425-815-1510RCNRHX
201.0 lb / 91.2 kg
Requires (4) A10-400 plow bolt assemblies each



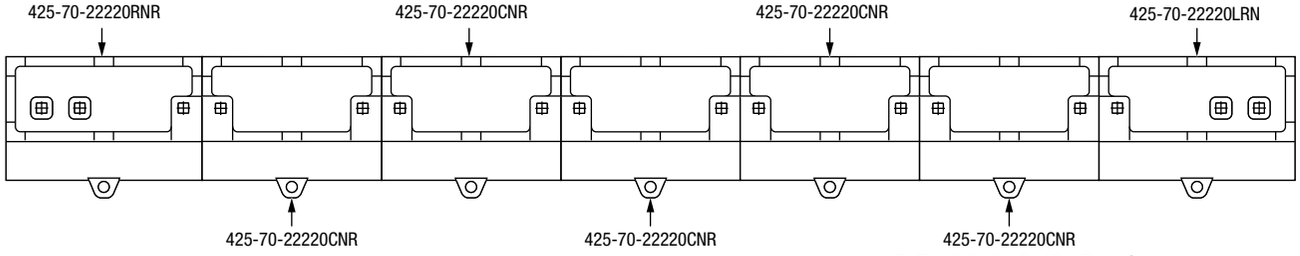


425-815-1520NRHX
61.8.0 lb / 28.0 kg
Requires (2) A10-400 plow bolt assemblies each



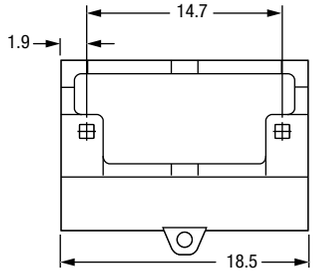


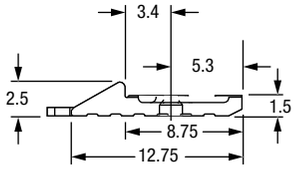
WA500-6

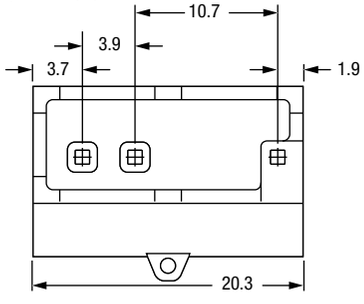


425-70-22220CNR
81.0 lb / 36.8 kg
Requires (2) A10-412 plow bolt assemblies each

425-70-22220RNR (RH shown)
425-70-22220LRN (LH opposite)
88.0 lbs. (40.0 kgs.)
Requires (2) A10-412 plow bolt assemblies each



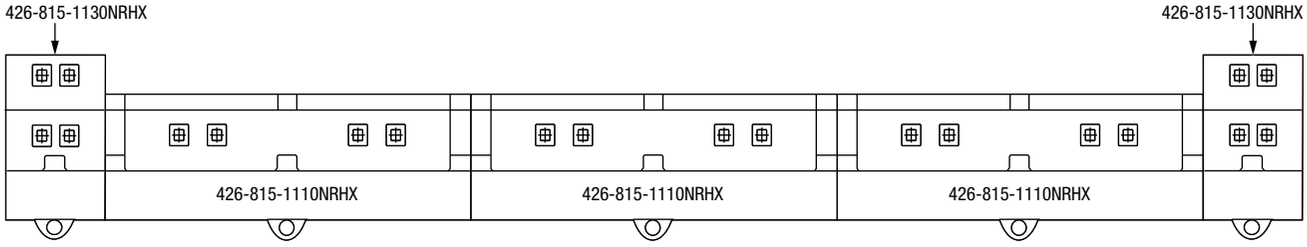




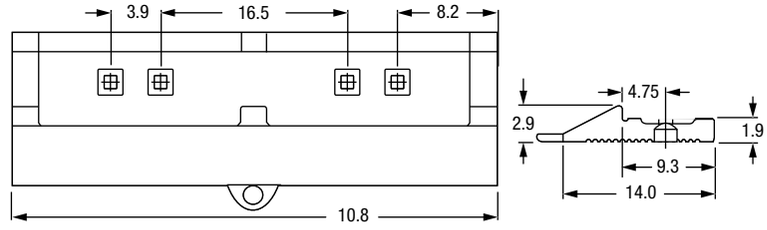
Note: Measurements are in inches.

BOLT-ON EDGES FOR LOADERS
Komatsu Style

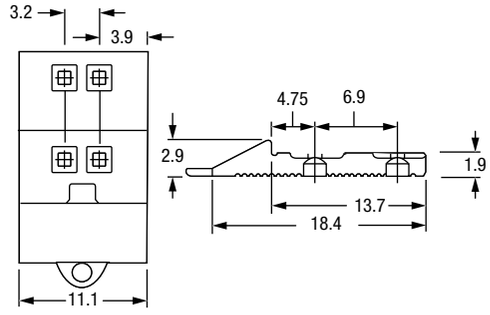
WA600-1 / WA600-3



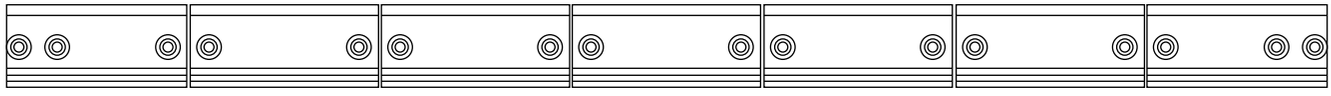
426-815-1110NRHX
236.0 lb / 107.1 kg
Requires (4) A138-400 plow bolt assemblies each



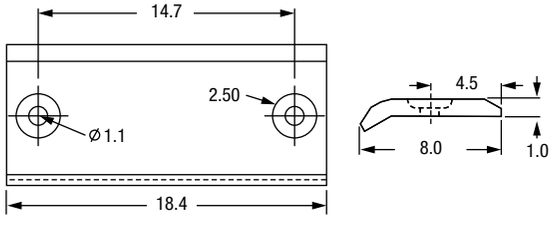
426-815-1130NRHX
85.0 lb / 38.6 kg
Requires (4) A138-400 plow bolt assemblies each



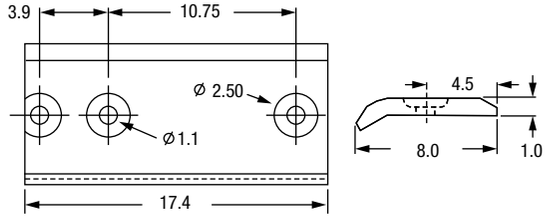
TOP COVERS FOR BOLT-ON STRAIGHT EDGES



WA500ADC (Center)
39.0 lb / 17.7 kg
Uses (2) A10-500 plow bolt assemblies each



WA500ADRH (RH Shown)
WA500ADLH (LH Opposite)
36.0 lb / 16.3 kg
Uses (3) A10-500 plow bolt assemblies each

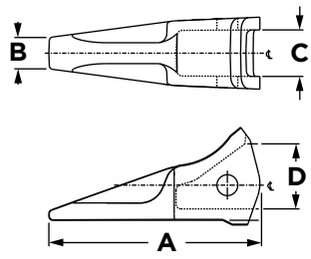


Note: Measurements are in inches.

REPLACEMENT PARTS FOR DOZERS & MOTOR GRADERS
Komatsu Style

RIPPER TEETH, SHANK GUARDS, AND SEGMENTS							
Model	**Tooth**	**Optional Tooth**	**Tooth Pin**	**Lower Segment**	**Shank Guard**	**Optional Guard**	**Guard Pin**
D40/D45-1 D40/D41-3 D50-D53-16 D50/D53-17 D57S-1 D66S-1	131-78-31190HX	-	092-44-02496P	-	-	-	-
D60/D65-7 D40-D41-3 D65-12 D75A-1 D75S-3 D75S-5 D85E-SS-21	141-78-11253HX	141-78-11253S-HX T141-78-11254	175-78-21740P	-	-	-	-
D85-18 D85-21 D135A-1 D135A-2 D150A-1 D155A-1 D155A-2 D155A/AX-3	175-78-31230HX	T175-78-31230 175-78-31230S-HX	175-78-21740P	-	195-78-21320HX	195-78-21580HX	175-78-21740P
D275A-2 D355A-3	195-78-21331HX	T195-78-21331 195-78-21331RC	175-78-21740P	17M-78-21360HX	195-78-21320HX	195-78-21580HX	175-78-21740P
D455A	198-79-11230HX	-	426-847-2310P	-	-	-	-
D375A-1	195-78-71140HX	-	175-78-21740P	-	195-78-71110HX	-	175-78-21740P
D375A-1 D375A-2	195-78-71320HX	195-78-71350HX	195-78-71360P	195-78-71380HX	195-78-72410HX	-	092-44-03036P
D475A-1 D475A-2	198-78-21340HHX	198-78-21370HX T198-78-21370 198-78-21340DPHX 198-78-21340HHX 198-78-21340SHX	198-78-21340PL	198-78-21430HX	198-78-21330HX	198-78-21390HX 198-78-21390	198-78-21340PL
D575A	T19M-78-11341	-	-	-	-	-	-
GD825A-2	235-785-1310HX	-	-	-	-	-	-
Dresser TD25	1313564H1HX	-	092-44-02488P	-	-	-	-

TEETH FOR DOZERS & MOTOR GRADERS
Komatsu Style

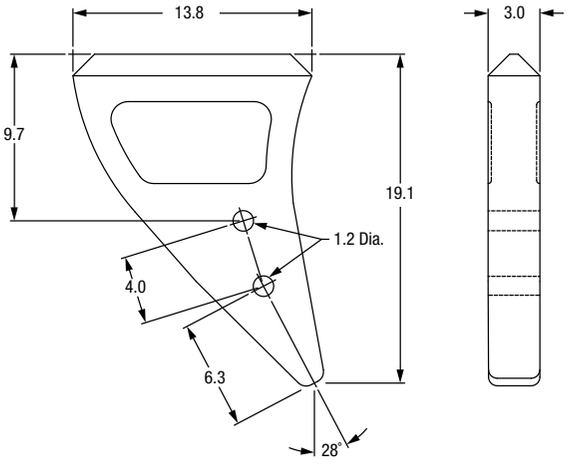


TEETH										
Hensley Part No.	Dimensions								Weight	
	Overall Tooth				Tooth Pocket					
	A		B		C		D			
	"	mm	"	mm	"	mm	"	mm	lb	kg
131-78-31190HX	10.4	263	3.2	81	2.3	59	4.9	125	20.4	9.3
141-78-11253XH	11.1	283	3.9	98	3.1	78	4.9	125	27.7	12.6
141-78-11253S-HX	14.0	356	2.1	52	3.1	78	4.9	125	30.5	12.6
T141-78-11254	13.0	330	N/A	N/A	3.1	78	4.9	125	28.0	12.7
175-78-31230HX	13.1	333	3.0	76	3.25	83	5.2	132	34.0	15.3
T175-78-31230	14.0	356	N/A	N/A	3.25	83	5.2	132	31.3	14.2
175-78-31230S-HX	15.6	397	2.0	51	3.25	83	5.2	132	33.0	15.0
195-78-21331HX	14.5	368	2.9	73	3.3	84	6.1	154	41.1	18.7
T195-78-21331	15.5	394	N/A	N/A	3.3	84	6.1	154	42.2	19.2
195-78-71320HX	16.4	416	3.0	76	6.2	154	3.25	83	49.8	22.6
195-78-71350HX	18.5	470	3.5	89	6.2	154	3.25	83	62.0	28.1
198-78-21340HX	19.8	502	3.7	94	4.1	105	7.3	185	88.0	39.9
198-78-21340HHX	18.3	465	3.0	76	4.2	107	7.5	192	73.0	33.1
198-78-21340DPHX	21.25	540	3.0	76	4.2	107	7.5	192	94.0	42.7
198-78-21340SHX	19.2	487	3.2	80	4.2	107	7.5	192	89.0	40.4
198-78-21370HX	17.5	445	3.75	95	4.1	105	7.3	185	82.0	37.2
T19M-78-11341	23.25	591	N/A	N/A	5.0	127	7.3	185	39.6	18.0
235-785-1310HX	14.9	378	2.4	60	3.4	86	4.6	116	39.6	18.0
1313564H1HX	13.25	336	3.5	89	3.0	76	5.4	136	36.0	16.3

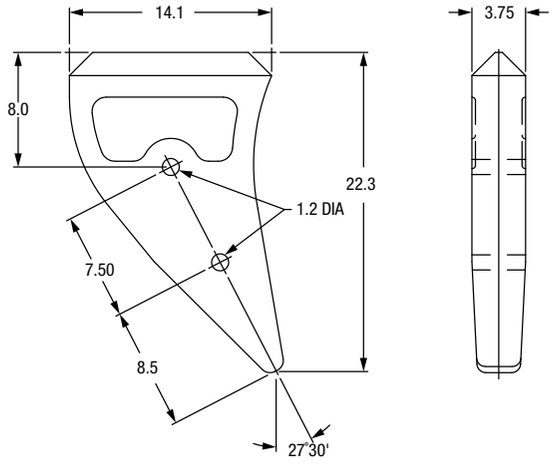
SEGMENTS FOR DOZERS
Komatsu Style

WELD-ON SEGMENTS

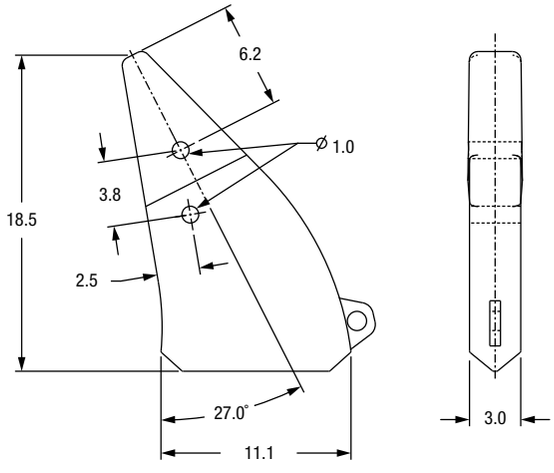
195-78-71380HX
126.0 lb / 57.1 kg



198-78-21430HX
198.0 lb / 89.8 kg



17M-78-21360HX
112.0 lb / 50.8 kg

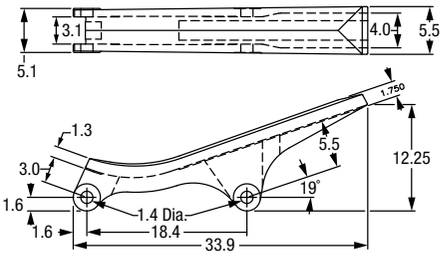


Note: Measurements are in inches.

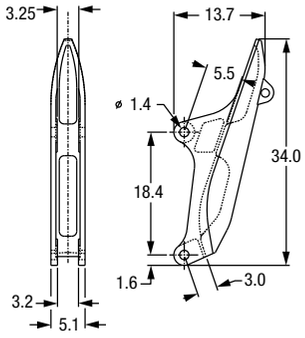
SHANK GUARDS FOR DOZERS
Komatsu Style

SHANK GUARDS

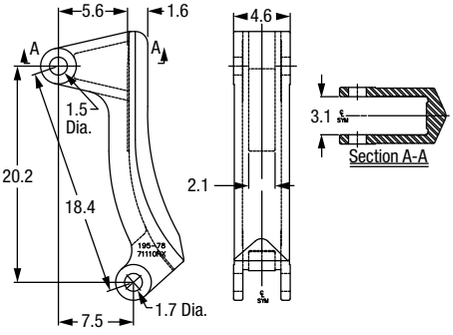
195-78-72410HX
111.0 lb / 49.9 kg



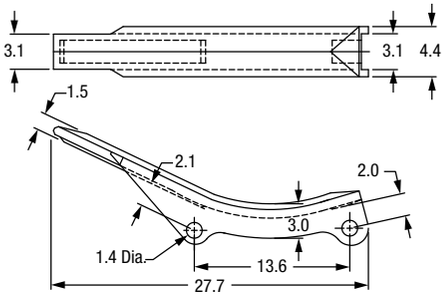
195-78-72410HHX
116.0 lb / 52.6 kg



195-78-71110HX
54.0 lb / 24.5 kg



195-78-21580HX
51.7 lb / 23.5 kg

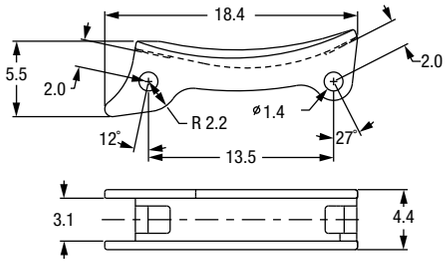


Note: Measurements are in inches.

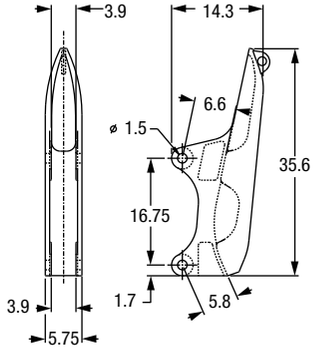
GUARDS & PINS FOR DOZERS
Komatsu Style

SHANK GUARDS CONTINUED

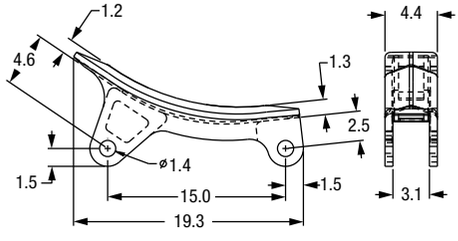
195-78-21320HX
33.6 lb / 15.3 kg



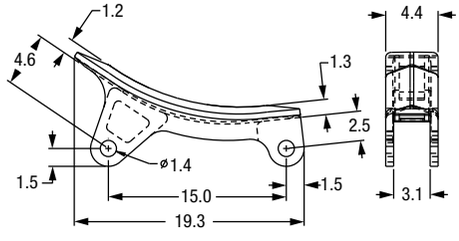
198-78-21390HHX
156.0 lb / 70.8 kg

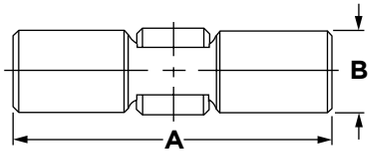


17M-782-1330HX
38.4 lb / 17.4 kg



17M-78-21330HX
38.4 lb / 17.4 kg

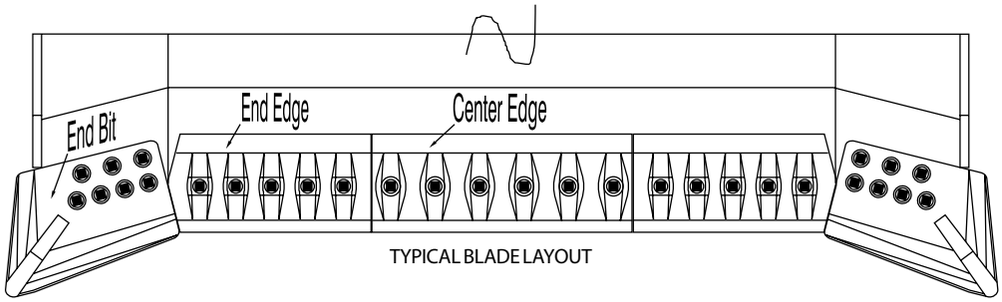




PINS				
Hensley Part No.	Dimensions			
	A		B	
	"	mm	"	mm
092-44-02488P	3.6	92	1.0	25
092-44-02496P	3.8	96	1.0	25
175-78-21740P	4.6	117	1.0	25
426-847-2310P	5.7	143	1.2	29
198-78-21340PL	6.0	152	1.2	30

Note: Measurements are in inches.

CAST EDGES & END BITS
Komatsu Style



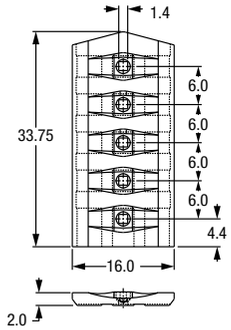
TYPICAL BLADE LAYOUT

EDGES FOR KOMATSU DOZERS				
Model	**Center Edge (#) nut/ bolt assy.**	**End Edge (#) nut/bolt assy.**	**Standard Duty End Bit (#) nut/bolt assy.**	**Heavy Duty End Bit (#) nut/bolt assy.**
D50A, D53A D60, D65	N/A	N/A	134-72-61460RH (5) A34-400 134-72-61450LH (5) A34-400	140-70-11180HX (RH) (5) A34-400 140-70-11170HX (LH) (5) A34-400
D-155A-3/5	N/A	N/A	175-71-22282HX (RH) (7) A78-312 175-71-22272HX (LH) (7) A78-312	N/A
D275A-2/5	N/A	N/A	17M-71-21940RH (7) A10-400 17M-71-21930LH (7) A10-400	N/A
D355	LA2540HHDX (8) A114-514	LA2539HHDHX (2 req'd) (8) A114-514	N/A	195-71-61940RH (8) A114-412 195-71-61930LH (8) A114-412
D375A-1 D375A-2 D375A-3	LA6248HHDHX (6) A114-500	LA6227HHDHX (2 req'd) (5) A114-514	N/A	195-71-61940RH (8) A114-412 195-71-61930LH (8) A114-412
D375 SEMI-U	LA2541HHDHX (8) A114-514	LA6227HHDHX (2 req'd) (5) A114-514	N/A	195-71-61940RH (8) A114-412 195-71-61930LH (8) A114-412
D375 FULL-U	LA2540HHDHX (8) A114-514	LA6227HHDHX (2 req'd) (5) A114-514	N/A	195-71-61940RH (8) A114-412 195-71-61930LH (8) A114-412
D455	LA2540HHDHX (3 req'd.) (8) A114-514	LA2539HHDHX (2 req'd) (8) A114-514	N/A	N/A
D475A-1 D475A-2	N/A	N/A	N/A	198-71-31530HX (RH) (8) nut/bolt assys. req'd 198-71-31520HX (LH) (8) nut/bolt assys. req'd
D575A-2	N/A	N/A	N/A	19M-72-13220HX (RH) (8) nut/bolt assys. req'd 19M-72-13210HX (LH) (8) nut/bolt assys. req'd
WD600	N/A	N/A	175-71-22282HX (RH) (7) A78-312 175-71-22272HX (LH) (7) A78-312	N/A

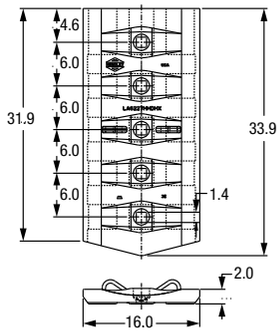
CAST EDGES & END BITS
Komatsu Style

CAST EDGES

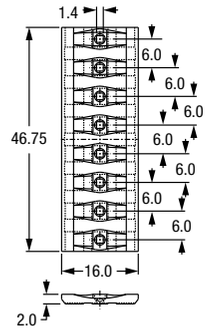
LA2539HHDHX (end edge)
231.0 lb / 104.9 kg
Requires (5) A114-400 plow bolt assemblies each
Fits Dozer Models: D355, D455



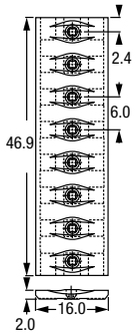
LA6227HHDHX (end edge)
234.0 lb / 106.2 kg
Requires (5) A114-514 plow bolt assemblies each Fits Dozer Models: D375A-1, D375A-2, D375A-3, D375 (semi-U), D375 (full-U)



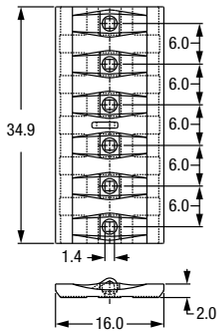
LA2540HHDHX (center edge)
317.0 lb / 143.9 kg
Requires (8) A114-400 plow bolt assemblies each. Fits Dozer Models: D355, D375 (full-U), D455



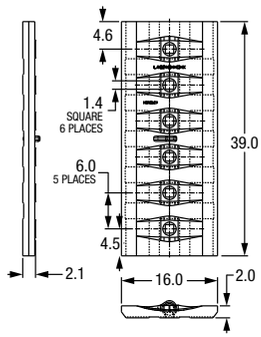
LA2541HHDHX (center edge)
350.0 lb / 159.0 kg
Requires (8) A114-514 plow bolt assemblies each
Fits Dozer Models: D375 (semi-U)



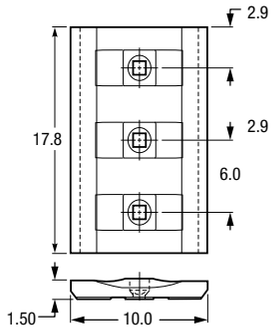
LA6247HHDHX (center edge)
261.0 lb / 118.4 kg
Requires (6) A114-514 plow bolt assemblies each



LA6248HHDHX (center edge)
276.0 lb / 125.3 kg
Requires (6) A114-500 plow bolt assemblies each. Fits Dozer Models: D375A-1, D375A-2, D375A-3



41E70A5221HX
66.0 lb / 30.0 kg
Requires (6) A78-300 plow bolt assemblies each
Fits Dozer Models: WD600

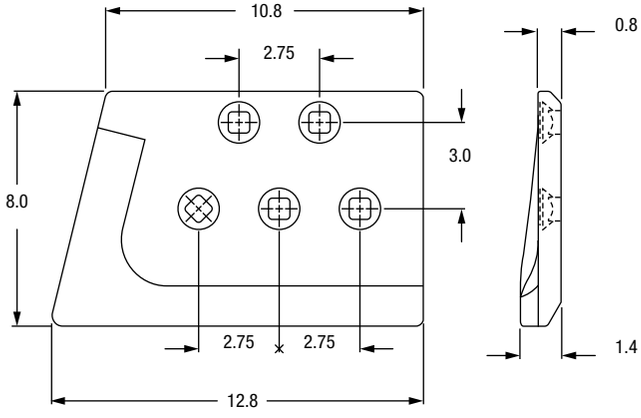


Note: Measurements are in inches.

END BITS FOR DOZERS
Komatsu Style

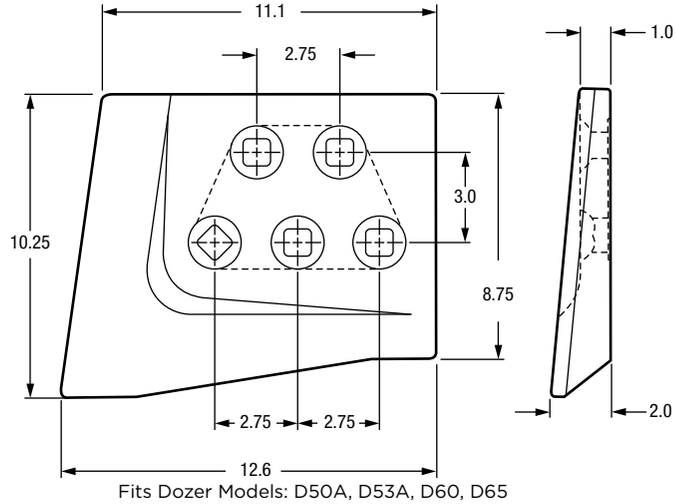
CAST END BITS

134-72-61460RH (RH shown)
134-72-61450LH (LH opposite)
21.3 lb / 937 kg
Requires (5) A34-212 plow bolt assemblies



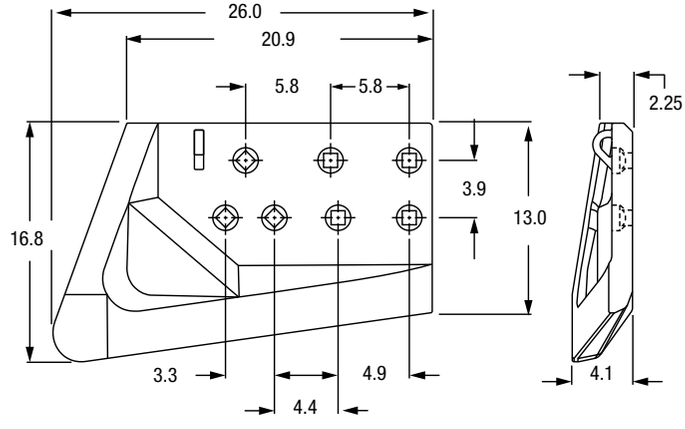
Fits Dozer Models: D50A, D53A D60, D65 model dozers.

140-70-11180HX (RH Shown)
140-70-11170HX (LH Opposite)
35.8 lb / 16.2 kg
Requires (5) A34-400 plow bolt assemblies each



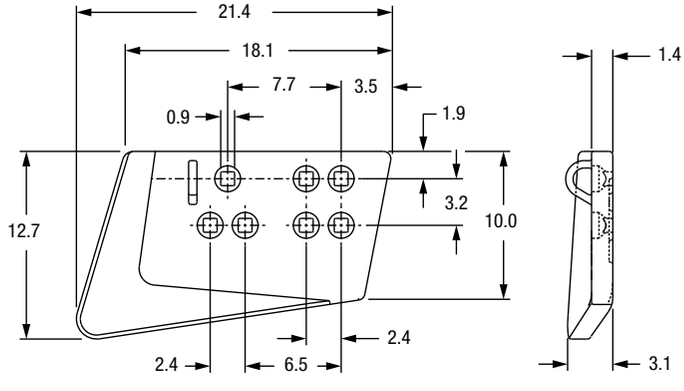
Fits Dozer Models: D50A, D53A, D60, D65

17M-71-21940RH (RH shown)
17M-71-21930LH (LH opposite)
154.0 lb / 70.0 kg
Plow bolts not available from Hensley Industries



Fits Dozer Models: D155A-3/5, D275A-2/5

175-71-22282HX (RH shown)
175-71-22272HX (LH opposite)
83.0 lb / 37.7 kg
Requires (7) A78-412 plow bolt assemblies



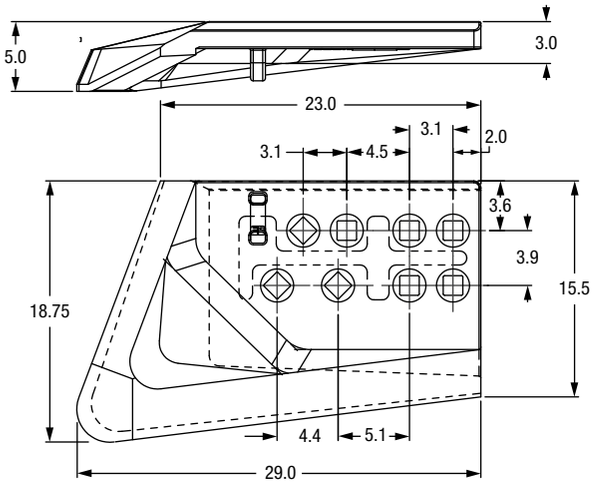
Fits Dozer Models: D155

Note: Measurements are in inches.

END BITS FOR DOZERS
Komatsu Style

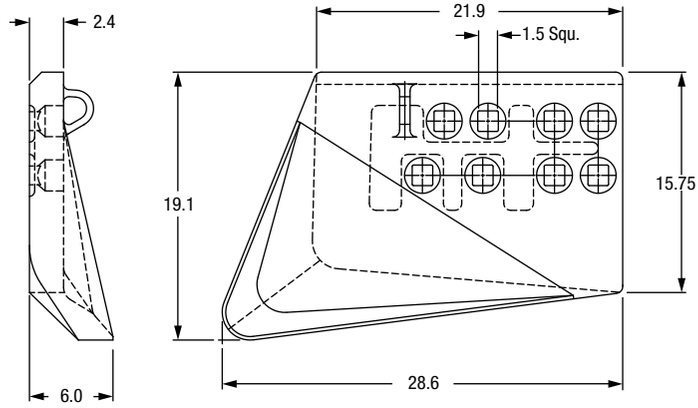
CAST END BITS CONTINUED

195-71-61940RH (RH Shown)
195-71-61930LH (LH Shown)
260.0 lb / 118.0 kg
Requires (8) A114-412 plow bolt assemblies



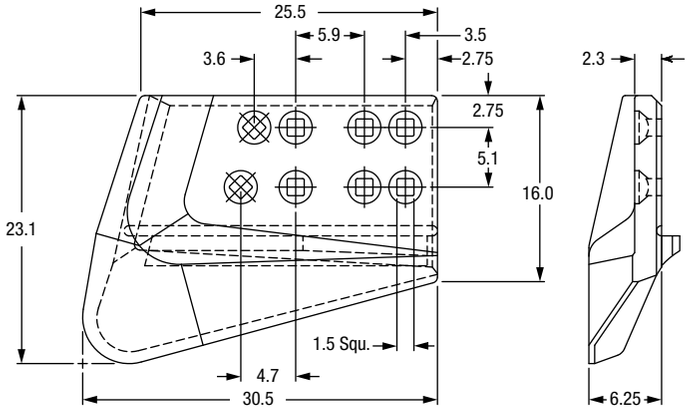
Fits Dozer Models: D375A-1, D375A-2, D375A-3

198-71-31530HX (RH Shown)
198-71-31520HX (LH Opposite)
317.0 lb / 143.8 kg
Plow bolts not available from Hensley Industries



Fits Dozer Models: D475A-1, D475A-2

19M-72-13220HX (RH Shown)
19M-72-13210HX (LH Opposite)
472.0 lb / 214.0 kg
Plow bolts not available from Hensley Industries



Part Replacement Note:
19M-72-21710 uses 19M-72-13210HX
19M-72-21720 uses 19M-72-13220HX

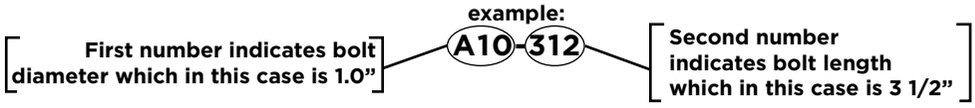
Fits Dozer Models:D575-2

Note: Measurements are in inches.

PLOW BOLTS
Komatsu Style

PLOW BOLT ASSEMBLIES

Hensley plow bolt assembly numbers designate the diameter and length of the bolt.



Komatsu Adapter Part No.	XS Adapter Part No.	Plow Bolt Assembly*	Diameter w/ Threads per inch	Bolt Length	Number Req’d
3022MXS10	3022MXS10	AC34-300	3/4” 10	3.0”	2
3022MXS10L	3022MXS10L	AC34-300 / AC34-212	3/4” 10	3.0”	1 OF EACH.
3022MXS10R	3022MXS10R	AC34-300 / AC34-212	3/4” 10	3.0”	1 OF EACH.
K3025M15	3025MXS15	AC78-312	7/8” 9	3.5”	2
K3025M15L	3025MXS15L	AC78-312 / AC78-200	7/8” 9	3.5”	1 OF EACH.
K3025M15R	3025MXS15R	AC78-312 / AC78-200	7/8” 9	3.5”	1 OF EACH.
K3028M20	3028MXS20	AC10-334	1.0” 8	3 3/4”	2
K3028M20L	3028MXS20L	AC10-334 / AC10-200	1.0” 8	3 3/4”	1 OF EACH.
K3028M20R	3028MXS20R	AC10-334 / AC10-200	1.0” 8	3 3/4”	1 OF EACH.
K3036M25	3036MXS25	AC78-400	7/8” 9	4.0”	3
K3036M25L	3036MXS25L	AC78-400	7/8” 9	4.0”	3
K3036M25R	3036MXS25R	AC78-400	7/8” 9	4.0”	3
K3040M40	3040MXS40	AC10-412	1.0” 8	4 1/2”	3
K3040M40L	3040MXS40L	AC10-412	1.0” 8	4 1/2”	3
K3040M40R	3040MXS40R	AC10-412	1.0” 8	4 1/2”	3
K317540		AC10-475	1.0” 8	4 3/4”	3
K317540L		AC10-475	1.0” 8	4 3/4”	2
		AC10-450	1.0” 8	4 1/2”	1
K317540R		AC10-475	1.0” 8	4 3/4”	2
		AC10-450	1.0” 8	4 1/2”	1

*Plow Bolt Assemblies consist of Plow Bolt with Nut

BOX RIPPERS FOR EXCAVATORS
System Information

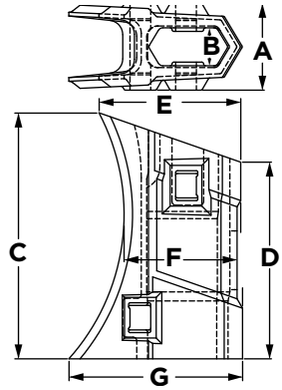
TYPICAL MACHINE USAGE							
System	**Operating Weight (lb)**	**J.I. Case**	**Caterpillar**	**Daewoo**	**Deere**	**Hitachi**	**Hyundai**
B200	20,000-39,000	9010B, 9020B	311, 312, 315	5130-3 -, DH170-2	490, 590	EX100, EX150	R130LC, R180LC
B250	40,000-59,000	9030, 9040	215, 225, 320, 322	DH220LC	690, 790	EX200	R200LC
B300	60,000-84,000	9050	325, 330	DH280, 320	892	EX270LC, 300	R290LC, 320
B350	85,000-109,000	9060B	235C	DH450	992ELC	EX400-3, EX-400LC-3	R420LC, R450LC
B400	110,000-169,000	-	350L, 245	-	-	EX550, EX700	-

TYPICAL MACHINE USAGE CONTINUED						
System	**Operating Weight (lb)**	**Kobelco**	**Komatsu**	**Liebherr**	**Linkbelt**	**Samsung**
B200	20,000-39,000	SK100, SK120, SK150	PC120, PC150	-	2650, 2700	SE130
B250	40,000-59,000	SK200, 220	PC200, 210, 220	R902, 912, 922, 932	LS2800, 3400	SE210LC
B300	60,000-84,000	SK300	PC250, 300	R942	LS4300	SE280LC, 350
B350	85,000-109,000	SK400LC	PC400LC-5	R954	LS5800C	SE450LC-2
B400	110,000-169,000	-	PC650LC-5	R964, R974	-	-

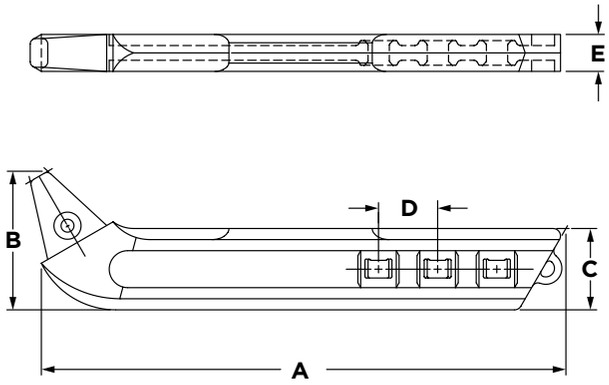
PARTS NEEDED FOR SYSTEM*						
System	**Box**	**Shank**	**Box Pin**	**Tiger Tooth**	**Tooth Fastener**	**Kit No.**
200	B200	C200-12	B250P	T9J8910	9J6583P, 6Y9459W	BK200
250	B250	C250-14	B250P	T6Y0352	9W2678P, 6Y9459W	BK250
300	B300	C300-20	B250P	T9W2452	6Y3394P, 8E5559W	BK300
350	B350	C350-20	B350P	T9W2452	6Y3394P, 8E5559W	BK350-1
350	B350	C350-22	B350P	T3G6503	6Y3909P, 4T4707W	BK350-2
400	B400	C400-22	B350P	T3G6503	6Y3909P, 4T4767W	BK400

*A complete system may be ordered by Kit Number.

BOX RIPPERS FOR EXCAVATORS
System Details

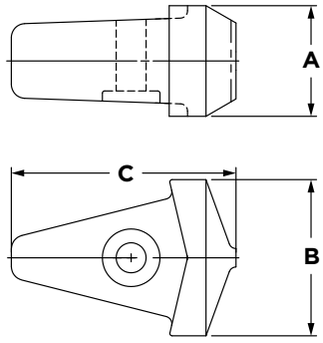


RIPPER BOXES																
Box	Dimensions														Weight	
	A		B		C		D		E		F		G			
	“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg
B200	6.0	152	2.5	63	14.9	378	11.9	302	8.6	218	6.8	173	10.5	264	55.0	25.0
B250	6.0	152	2.6	67	17.1	435	13.6	346	9.75	248	7.8	198	12.0	305	75.0	34.0
B300	6.0	152	3.1	79	19.1	486	15.3	389	11.2	284	8.75	222	13.5	343	105.0	48.0
B350	7.5	191	4.0	102	21.25	540	17.0	432	12.25	311	9.75	248	15.0	381	150.0	68.0
B400	7.9	202	5.25	133	25.5	648	20.4	519	14.75	375	11.75	298	18.0	457	245.0	111.0



RIPPER SHANKS													
Box	Shank	Dimensions										Weight	
		A		B		C		D		E			
		“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg
B200	C200-12	31.2	792	8.0	203	4.8	122	3.5	89	2.0	51	65.0	29.0
B250	C250-14	36.75	933	10.1	257	5.5	140	4.0	102	2.5	64	95.0	43.0
B300	C300-20	41.0	1041	11.25	286	6.2	157	4.5	114	3.0	76	113.0	51.0
B350	C350-20	45.0	1143	11.1	283	6.9	175	5.0	127	3.1	79	185.0	84.0
	C350-22	46.0	1168	12.75	324	6.9	175	5.0	127	3.1	79	200.0	91.0
B400	C400-22	54.0	1372	13.75	349	8.25	210	6.0	152	3.8	95	300.0	136.0

REPLACEMENT NOSES
System Details



REPLACEMENT NOSES									
Weld-On Nose	For Shank No.	Dimensions						Weight	
		A		B		C			
		“	mm	“	mm	“	mm	lb	kg
C12WN	C200-12	3.0	76	4.25	108	5.7	145	9.6	4.4
9W7488WN	C250-14	3.0	76	5.4	137	7.7	194	18.5	8.4
C20WN	C300-20, C350-20	2.9	75	6.0	152	8.8	224	24.5	11.0
C22WN	C350-22, C400-22	3.9	99	7.6	194	10.25	260	46.9	21.0

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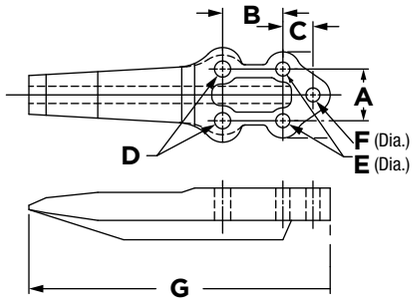
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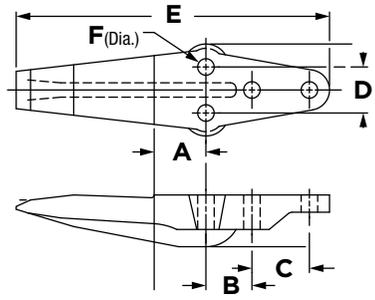
DIRECT REPLACEMENT PRODUCTS

Miscellaneous

BOLT-ON CLAMSHELL TEETH
Erie-Strayer Replacement Products



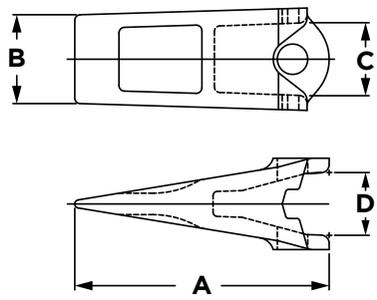
Type 1



Type 2

BOLT-ON CLAMSHELL TEETH																	
Erie-Strayer Part No.	Hensley Part No.	Type	Dimensions														Weight	
			A		B		C		D		E		F		G			
			“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg
T-67-CS	T-67-CS HX	1	3.0	76	3.5	89	1.75	44	0.9	23	0.8	20	0.8	20	17.5	445	28.5	12.9
T-74-CS	T-74-CS HX	1	3.0	76	3.0	76	3.75	95	1.1	28	0.9	23	0.9	23	20.1	511	35.8	16.3
T-86-CS	T-86-CS HX	1							1.3	33	0.8	20	0.8	20	22.0	559	55.0	25.0
T-91-M	T-91-M HX	2	4.5	114	4.0	102	5.0	127	4.0	102	27.25	692	1.4	36	-	-	91.6	41.6

FORD STYLE REPLACEMENT PARTS					
Style Part	Hensley Part No.	Ford No.	Uni-Z No.	Weight	
				lb	kg
Standard	555HX	E7NN295AA	366330	2.5	1.1
Tiger	T555	F1NN302AA	367484	2.6	1.2
Twin Tiger	555WT	F1NN302BA	367485	3.1	1.4
Flare	555F	-	-	3.4	1.5
Roll Pin	P555	E7NNA161AA E646686S2	-	0.1	0.0
Adapter	2740-555	E9NN294AA	366948	4.8	2.2

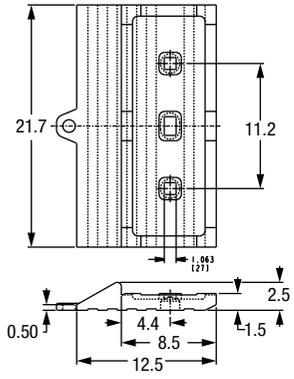


TEETH											
Hensley Part No.	TYPE	Pin Assembly	Dimensions								Weight	
			Overall Tooth				Tooth Pocket					
			A		B		C		D			
			“	mm	“	mm	“	mm	“	mm	lb	kg
555HX	Standard	P555	5.75	146	2.0	51	1.7	42	1.4	36	2.5	1.1
T555	Tiger	P555	7.0	178	0.2	5	1.7	42	1.4	36	2.6	1.2
555WT	Twin Tiger	P555	7.0	178	3.0	76	1.7	42	1.4	36	3.1	1.4
555F	Flare	P555	5.75	146	4.5	114	1.7	42	1.4	36	3.4	1.5

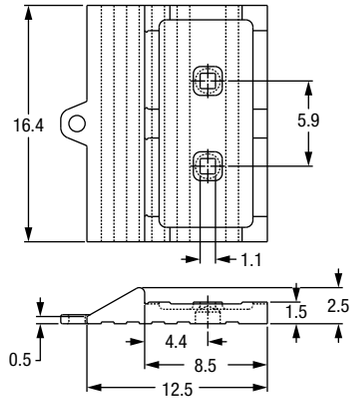
EDGES
Volvo Replacement Parts

VOLVO LOADER EDGES - L150

Center
L150-E2664NR
93.0 lb / 42.2 kg



End
L150-E2666CNR
978.0 lb / 35.4 kg



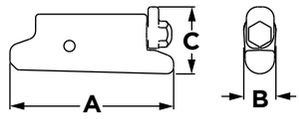
Note: Measurements are in inches.

4.1

PINS & FASTENERS

Hensley

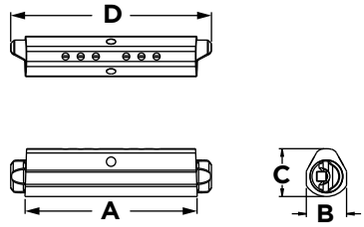
XS TOOTH PINS
Pins & Fasteners



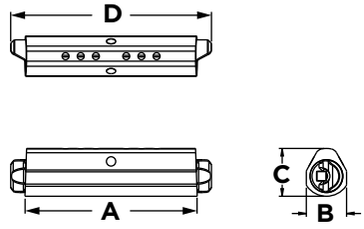
XS TOOTH PINS									
Part Number	Duty Rating	Dimensions						Weight	
		A		B		C			
		“	mm	“	mm	“	mm	lb	kg
XS04P	Standard	2.25	57	0.4	11	0.9	23	0.3	0.1
XS05P	Standard	2.6	66	0.4	11	1.1	27	0.3	0.1
XS10P	Standard	3.1	78	0.5	14	1.2	30	0.5	0.2
XS15PC	Standard	3.6	91	0.6	16	1.3	34	0.5	0.2
XS15PS	Slag*	3.6	91	0.6	16	1.3	34	0.8	0.4
XS20PC	Heavy	4.1	103	0.7	18	1.5	39	0.9	0.4
XS20PS	Slag*	4.1	103	0.7	18	1.5	39	0.9	0.4
XS25PC	Heavy	4.6	118	0.8	21	1.7	44	1.1	0.5
XS25PS	Slag*	4.6	118	0.8	21	1.7	44	1.1	0.5
XS30PC	Heavy	5.1	130	0.9	23	1.9	48	1.3	0.6
XS30PS	Slag*	5.1	130	0.9	23	1.9	48	1.3	0.6
XS40PC	Heavy	5.4	138	1.0	24	2.0	52	1.8	0.8
XS40PS	Slag*	5.4	138	1.0	24	2.0	52	1.8	0.8
XS50PC	Heavy	6.1	156	1.1	27	2.3	57	2.5	1.1
XS50PS	Slag*	6.1	156	1.1	27	2.2	56	2.5	1.1
XS70PC	Heavy	6.7	169	1.2	29	2.5	63	3.2	1.5
XS70PS	Slag*	6.7	169	1.2	29	2.5	63	3.2	1.5
XS85PC	Standard	7.0	178	1.2	31	2.6	65	3.8	1.7
XS85PX	Heavy	7.0	178	1.2	31	2.6	65	3.8	1.7
XS85PS	Slag*	7.0	178	1.2	31	2.6	65	3.2	1.5
XS115PC	Standard	8.0	203	1.5	39	2.7	69	5.2	2.4
XS115PX	Heavy	8.0	203	1.5	39	2.7	69	5.5	2.5
XS115PS	Slag*	8.0	203	1.5	39	2.7	69	5.2	2.4
XS145PC	Standard	8.9	225	1.75	44	3.1	79	7.2	3.3
XS145PX	Heavy	8.9	225	1.75	44	3.1	79	7.6	3.4
XS145PS	Slag*	8.9	226	1.70	44	3.1	79	7.2	3.3
XS145PD	Special	8.9	203	1.75	44	3.1	79	7.6	3.4
XS250P	Standard	10.1	255	2.0	50	3.4	87	10.5	4.8
XS250PC	Standard	10.1	255	2.0	50	3.4	87	10.5	4.8
XS250PX	Heavy	10.1	256	2.0	50	3.4	86	10.5	4.8
XS250PS	Slag*	10.1	255	2.0	50	3.4	87	10.5	4.8
XS340PX	Heavy	9.6	244	1.8	47	3.5	88	11.0	5.0
XS340PS	Slag*	9.6	244	1.8	47	3.5	88	10.9	4.9

*Slag pin is NOT reusable

XS ROTARY PINS & INTERMEDIATE ADAPTER PINS
Pins & Fasteners

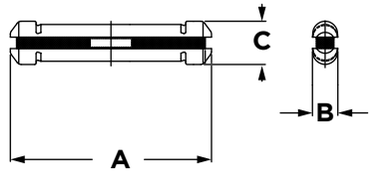


XS ROTARY PINS										
Part Number	Dimensions								Weight	
	A		B		C		D			
	“	mm	“	mm	“	mm	“	mm	lb	kg
XSC12P	6.1	156	3.0	76	4.1	105	8.1	156	13.8	6.3
TS922PSL	9.2	234	2.2	55	2.6	65	10.75	273	10.4	4.7
TS1122PSL	10.9	278	2.6	67	3.1	79	12.9	327	19.0	8.6
TS1222PSL	14.4	367	3.5	89	3.5	89	14.4	367	27.0	12.2

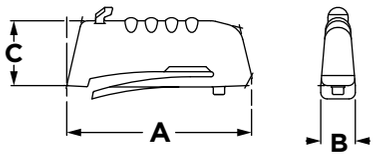


XS INTERMEDIATE ADAPTER PINS										
Part Number	Dimensions								Weight	
	A		B		C		D			
	“	mm	“	mm	“	mm	“	mm	lb	kg
XS394P	9.2	235	2.4	62	3.0	76	12.2	311	14.3	6.5
XS644P	10.7	271	2.7	68	3.1	79	14.1	358	17.0	7.7
XS804P	12.2	308	3.0	76	3.6	91	15.8	402	35.0	15.9

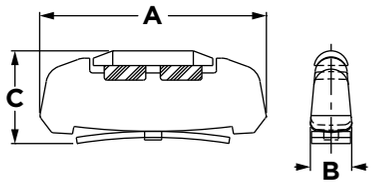
FLEX & KEEPER PINS
Pins & Fasteners



FLEX PINS									
Part Number	Type	Dimensions						Weight	
		A		B		C			
		“	mm	“	mm	“	mm	lb	kg
P162	Reversible, 4-Tab	2.5	64	0.5	13	0.8	21	0.2	0.1
225PB	Reversible, 4-Tab	3.1	79	0.5	13	0.8	21	0.2	0.1
501P		3.3	83	0.4	10	0.7	17	0.2	0.1
P300B	Reversible, 4-Tab	4.0	100	0.5	13	0.8	21	0.2	0.1
P290		3.1	78	0.6	14	1.25	32	0.3	0.1
P330		3.5	89	0.6	14	1.6	41	0.4	0.2
P370		4.3	110	0.8	21	1.9	48	0.8	0.4
P410		4.6	117	0.8	21	2.1	53	1.2	0.5
P450		5.2	132	0.9	22	2.1	54	1.5	0.7



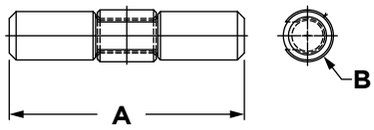
Type 1



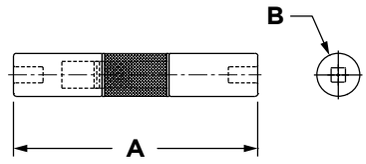
Type 2

KEEPER PINS									
Part Number	TYPE	Dimensions						Weight	
		A		B		C			
		“	mm	“	mm	“	mm	lb	kg
K290S	1	3.2	80	0.5	13	1.1	27	0.3	0.1
K370S	1	4.4	111	0.8	21	1.7	42	1.0	0.5
K410S	1	4.6	116	0.8	21	1.8	47	1.2	0.5
K450S	1	5.2	133	0.9	22	1.9	48	1.7	0.8
K500B	2	5.8	147	1.1	28	2.4	61	2.6	1.2

PINS WITH SNAP RINGS AND RUBBER INSERT
Pins & Fasteners

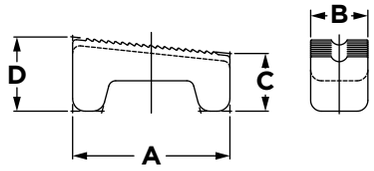


PINS WITH SNAP RINGS						
Part Number	Dimensions				Weight	
	A		B			
	“	mm	“	mm	lb	kg
P135	2.6	65	0.6	14	0.2	0.1
P235	3.5	89	0.6	16	0.1	0.0
P295	3.6	92	0.75	19	0.4	0.2
P335	4.25	108	0.9	22	1.0	0.5
P385	5.0	127	1.0	25	0.6	0.3
P435	5.4	137	1.25	32	1.8	0.8
P485	6.1	155	1.5	38	3.0	1.4

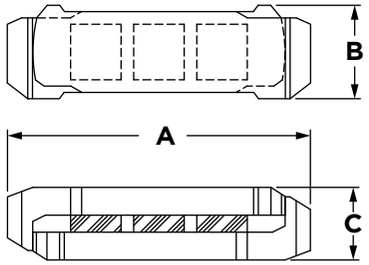


RUBBER INSERTS THREADED PINS						
Part Number	Dimensions				Weight	
	A		B			
	“	mm	“	mm	lb	kg
P385RI	5.6	141	1.0	25	0.1	0.0
P435RI	5.7	144	1.25	32	0.2	0.1

RATCHET SPOOL & WEDGE, RIPPER SHANK PINS
Pins & Fasteners



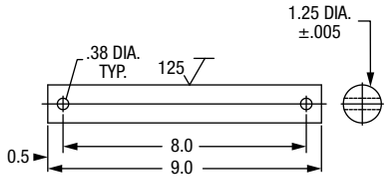
RATCHET SPOOL & WEDGE											
Part Number	Type	Dimensions								Weight	
		A		B		C		D			
		“	mm	“	mm	“	mm	“	mm	lb	kg
R410W	Wedge	4.6	117	0.7	17	0.8	21	1.2	31	0.8	0.4
R410SP	Spool	4.7	119	0.8	21	0.6	15	1.0	25	0.7	0.3
R469EL	Wedge	17.5	444	2.4	60	2.2	57	3.9	100	28.4	12.9
R599EL	Wedge	24.0	610	2.75	70	2.75	70	5.1	131	57.0	25.9
R435SP	Spool	5.5	140	2.0	51	2.0	51	2.6	66	4.5	2.0
R500W	Wedge	6.0	152	1.0	25	0.5	12	1.3	32	1.2	0.5
R500SP	Spool	6.0	152	1.0	25	1.2	30	1.7	43	1.5	0.7
R450SP	Spool	5.4	137	0.9	23	0.7	18	1.1	2.8	0.9	0.4
R450/600W	Wedge	5.7	145	0.7	19	0.8	20	1.3	33	1.0	0.5



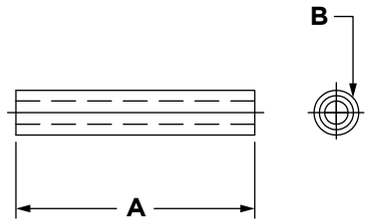
RIPPER SHANK PINS FOR BOX RIPPERS								
Part Number	Dimensions						Weight	
	A		B		C			
	“	mm	“	mm	“	mm	lb	kg
B250P	5.5	140	1.7	43	1.4	37	2.7	1.2
B350P	7.5	190	2.3	58	1.8	46	5.6	2.5

RIPPER SHANK PINS FOR MOLDBOARD RIPPERS

8PC
3.0 lb / 1.4 kg



Note: Measurements are in inches.



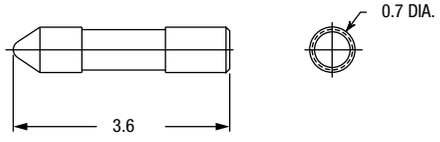
ROLL PINS							
Part Number	Type	Dimensions				Weight	
		A		B			
		“	mm	“	mm	lb	kg
1000P	Roll Pin	1.6	41	0.4	10	0.1	0.0
P156	Roll Pin	2.0	51	0.4	10	0.1	0.0
P100	Roll Pin	2.3	57	0.4	10	0.1	0.0
P160	Roll Pin	3.0	76	0.5	13	0.1	0.0
P5000H	Double Roll Pin	3.75	95	0.6	16		
P295SL	Slotted Pin	3.6	92	0.8	20	0.3	0.1
P335SL	Slotted Pin	4.3	108	0.9	23	0.5	0.2
P385SL	Slotted Pin	5.0	127	1.0	26	0.8	0.4
P435SL	Slotted Pin	5.4	137	1.3	33	1.2	0.5
P385SL	Oversized	5.0	127	0.6	16	0.7	0.3
P385SL2	Oversized	5.0	127	1.1	28	0.7	0.3
P435SL	Slotted Pin	5.4	137	1.3	33	1.2	0.5
P435SL2	Oversized	5.4	137	1.3	33	1.2	0.5
P485SL	Slotted Pin	6.1	155	1.5	38	2.0	0.9

Note: Measurements are in inches.

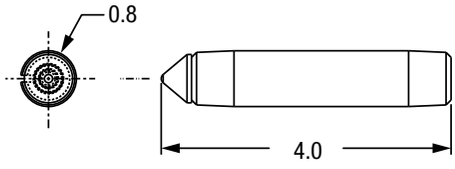
VERTICAL SHROUD PINS
Pins & Fasteners

VERTICAL SHROUD PINS

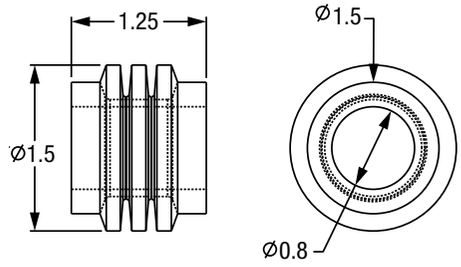
VSP3
0.4 lb / 0.2 kg



VSP3SL
0.4 lb / 0.2 kg



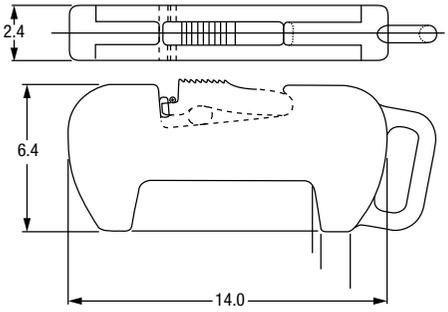
VSR3SL
0.3 lb / 0.1 kg



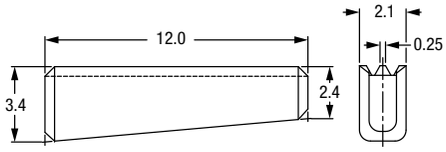
Note: Measurements are in inches.

MISCELLANEOUS

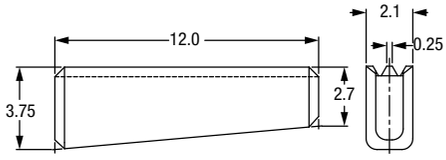
R469C
41.5 lb / 18.8 kg



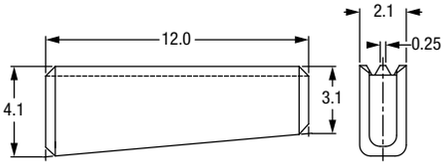
469W1
18.2 lb / 8.3 kg



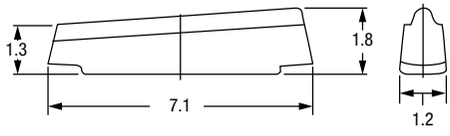
469W2
20.0 lb / 9.1 kg



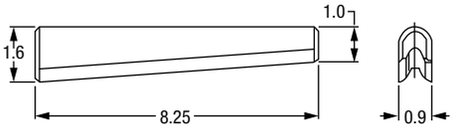
469W3
22.5 lb / 10.2 kg



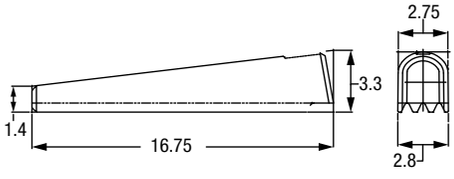
550SP
2.7 lb / 1.2 kg



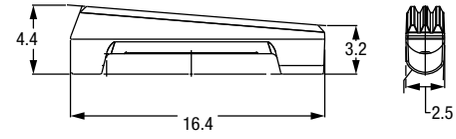
550W
2.2 lb / 1.0 kg



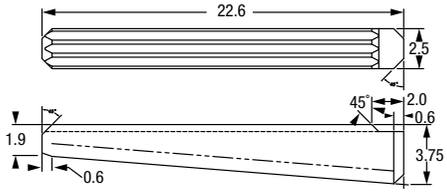
556ELW
24.5 lb / 11.1 kg



574SP
27.2 lb / 12.3 kg



574ELS
37.7 lb / 17.1 kg

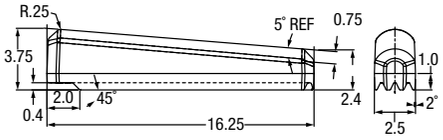


Note: Measurements are in inches.

REMOVAL TOOLS
Pins & Fasteners

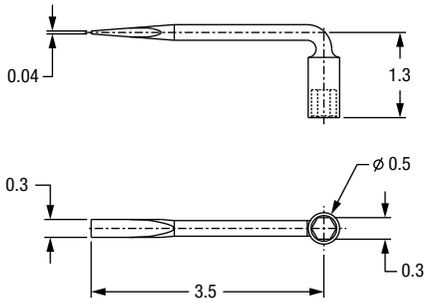
MISCELLANEOUS CONTINUED

574W2W
28.9 lb / 13.1 kg

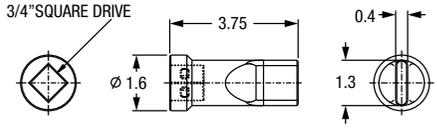


REMOVAL TOOLS

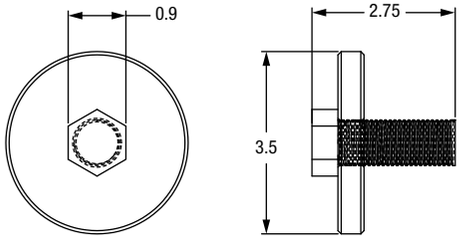
PRTXS04
XS 04, 05, 10 Series
0.1 lb / 0.05



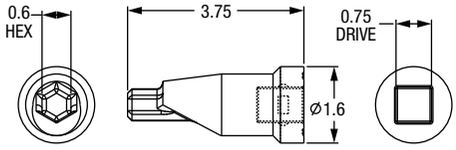
XSC12RT
XSC12 Series
0.7 lb / 0.3 kg



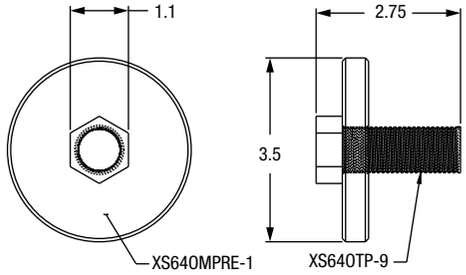
XS390MPR
922 Series
1.8 lb / 0.8 kg



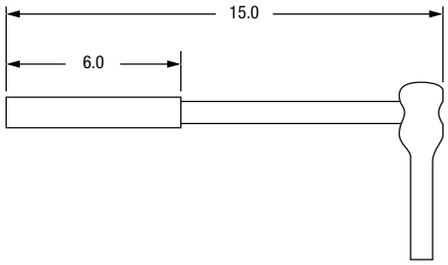
TS1122RT
1122 Series
1.0 lb / 0.5 kg



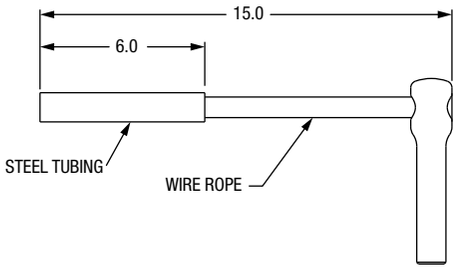
XS640MPR
1122, 1222 Series
3.0 lb / 1.4 kg



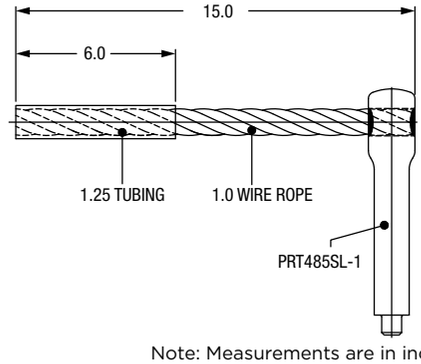
PRT335
335 '5' Series
3.8 lb / 1.7 kg



PRT435
435 5' Series
4.4 lb / 2.0 kg



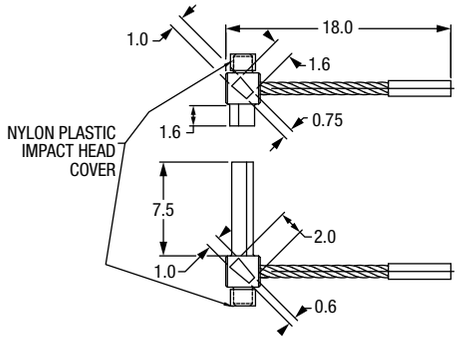
PRT485SL
435 5' Series
4.4 lb / 2.0 kg



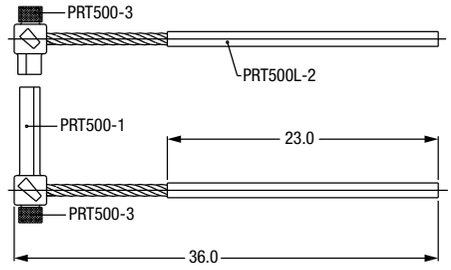
Note: Measurements are in inches.

REMOVAL TOOLS CONTINUED

PRT500
500 Parabolic Series
13.0 lb / 5.9 kg

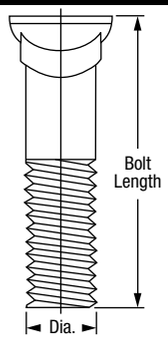


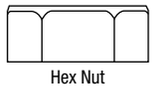
PRT500L
500 Parabolic Series
19.5 lb / 8.9 kg

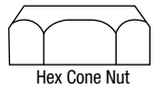


Note: Measurements are in inches.

PLOW BOLTS
Hensley Plow Bolts




Hex Nut


Hex Cone Nut

PLOW BOLTS						
Plow Bolt Assemblies*				Dimensions		
w/Hex Nut	Stock No.	W/Hex Cone Nut	Stock No.	Diameter w/ Threads per Inch		Bolt Length
A58-200	75-1090	-	-	5/8″	11	2″
A58-214	75-1100	-	-	5/8″	11	2 1/4″
A58-212	75-1110	-	-	5/8″	11	2 1/2″
A58-234	75-1120	-	-	5/8″	11	2 3/4″
A58-300	75-1130	-	-	5/8″	11	3″
A58-312	75-1140	-	-	5/8″	11	3 1/2″
A34-212	75-1200	-	-	3/4″	10	2 1/2″
A34-234	75-1210	-	-	3/4″	10	2 3/4″
A34-300	75-1220	-	-	3/4″	10	3″
A34-314	75-1230	-	-	3/4″	10	3 1/4″
A34-312	75-1240	-	-	3/4″	10	3 1/2″
A34-334	75-1250	-	-	3/4″	10	3 3/4″
A34-400	75-1260	-	-	3/4″	10	4″
A34-412	75-1270	-	-	3/4″	10	4 1/2″
A78-300	75-1300	-	-	7/8″	9	3″
A78-314	75-1310	-	-	7/8″	9	3 1/4″
A78-312	75-1320	-	-	7/8″	9	3 1/2″
A78-334	75-1330	-	-	7/8″	9	3 3/4″
A78-400	75-1340	AC78-400	75-2340	7/8″	9	4″
A78-412	75-1350	-	-	7/8″	9	4 1/2″
A10-212J**	75-1490	-	-	1″	8	2 1/2″
A10-300	75-1400	AC10-300	75-2400	1″	8	3″
A10-314	75-1410	AC10-314	75-2410	1″	8	3 1/4″
A10-312	75-1420	AC10-312	75-2420	1″	8	3 1/2″
A10-334	75-1430	AC10-334	75-2430	1″	8	3 3/4″
A10-400	75-1440	AC10-400	75-2440	1″	8	4″
A10-412	75-1450	AC10-412	75-2450	1″	8	4 1/2″
A10-500	75-1460	AC10-500	75-2460	1″	8	5″
A10-600	75-1610					
A114-400	75-1500	AC114-400	75-2500	1 1/4″	7	4″
A114-414	75-1510	AC114-414	75-2510	1 1/4″	7	4 1/4″
A114-412	75-1520	AC114-412	75-2520	1 1/4″	7	4 1/2″
A114-434	75-1700	AC114-434	75-1710	1 1/4”	7	4 3/4”
A114-500	75-1530	AC114-500	75-2530	1 1/4″	7	5″
A114-512	75-1540	AC114-512	75-2540	1 1/4″	7	5 1/2″
-	-	AC114-600TC	75-2580	1 1/4”	7	6”
A114-700	75-1550	AC114-700TC	75-2550	1 1/4″	7	7″

*Plow Bolt Assembly consists of Plow Bolt with Nut.

**Comes w/Hex Jam nut

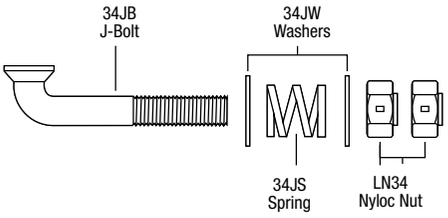
HEX NUTS			
Part No.	**Stock No.**	**Inside Dia.**	**Description**
N10J	75-0730	1″	Hex Jam Nut
N58	75-0800	5/8″	Hex Nut
N34	75-0810	3/4″	
N34C	75-0910	3/4”	
N78	75-0820	7/8″	
N78C	75-0920	7/8”	
N10	75-0830	1″	
N114	75-0840	1 1/4″	
N10C	75-0930	1″	Hex Cone Nut
N114C	75-0940	1 1/4″	
78NLN	75-5070	7/8”	Nylon Lock Nut
1NLN	75-5058	1”	

WASHERS		
Part No.	**Stock No.**	**Inside Dia.**
LW58	75-0600	5/8″
LW34	75-0610	3/4″
LW78	75-0620	7/8″
LW10	75-0630	1″
LW114	75-0640	1 1/4″
FW10	75-0650	1” Flat Washer

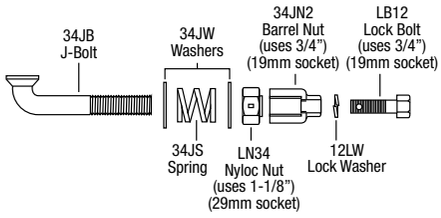
J-BOLTS
Hensley J-Bolts

J-BOLT ASSEMBLIES

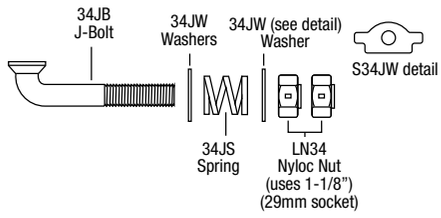
SFA34J
1.4 lb / 0.6 kg



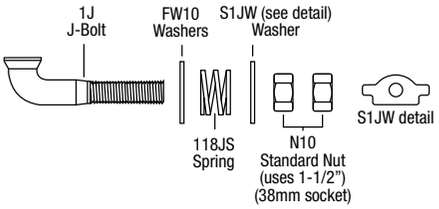
SFA34J2
2.2 lb / 1.0 kg



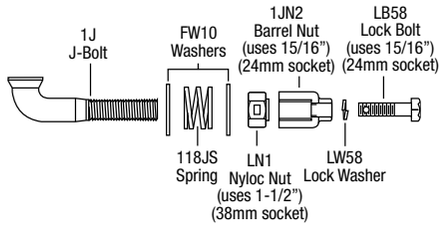
SFA34J4
2.2 lb / 1.0 kg



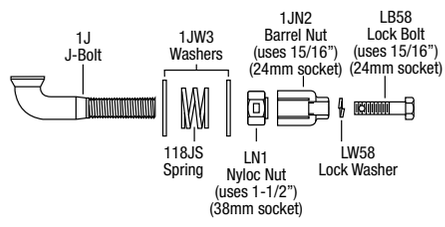
SFA1J
3.2 lb / 1.5 kg



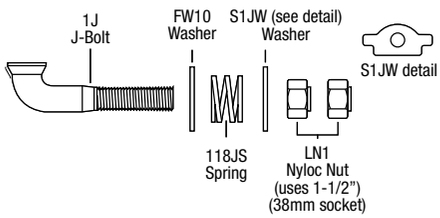
SFA1J2
3.7 lb / 1.7 kg



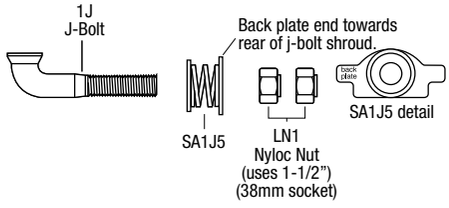
SFA1J3
3.8 lb / 1.7 kg



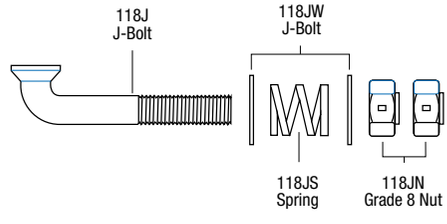
SFA1J4
3.4 lb / 1.5 kg



SFA1J5
3.3 lb / 1.5 kg



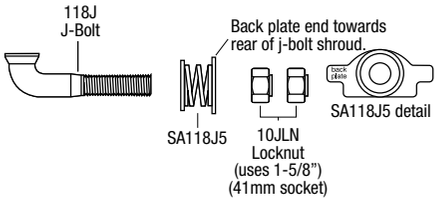
SFA118J
3.7 lb / 1.7 kg



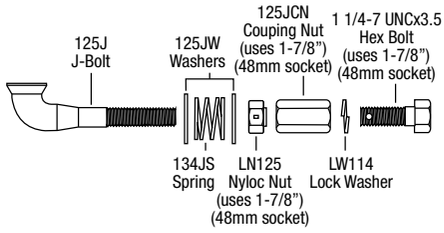
Note: Measurements are in inches.

J-BOLT ASSEMBLIES CONTINUED

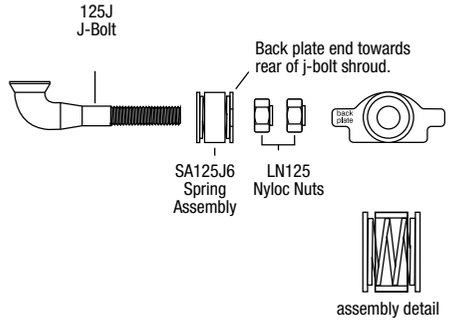
SFA118J5
4.7 lb / 2.1 kg



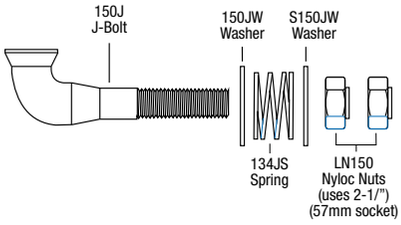
SFA125J2
9.5 lb / 4.3 kg



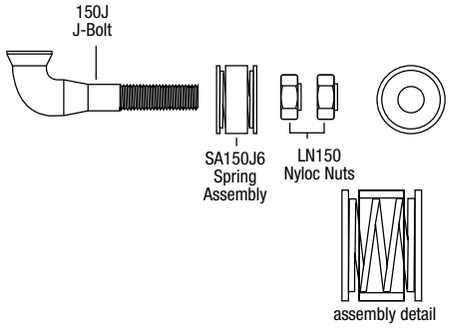
SFA125J6
8.0 lb / 3.6 kg



SFA150J4
lb / kg



SFA150J6
11.9 lb / 5.4 kg



Note: Measurements are in inches.

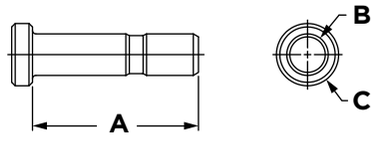
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4.2

PINS & FASTENERS

Caterpillar Style

FLEX PIN
Caterpillar Style

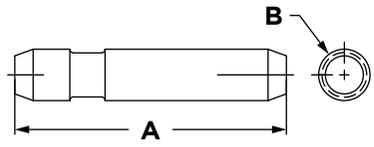


MODULOK STYLE PINS FOR VERTICAL PROTECTOR									
Part Number	Retainer Needed	Dimensions						Weight	
		A		B		C			
		“	mm	“	mm	“	mm	lb	kg
9J8442P	6Y8442P	3.4	86	0.75	19	1.1	29	0.8	0.4
1U0739P	8E5559W	4.1	105	1.0	25	1.4	35	1.0	0.5
8E4708P	4T4707W	5.4	137	1.25	32	1.9	48	0.4	0.2

Cat® and Caterpillar® are registered trademarks of Caterpillar, Inc.

Note: Measurements are in inches.

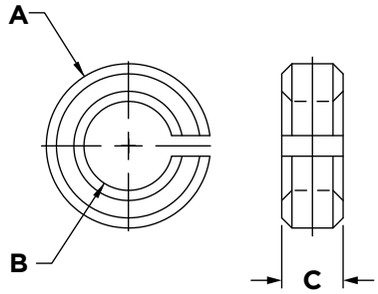
PIN & RETAINER
Caterpillar Style



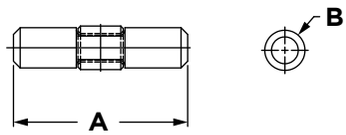
PIN & RETAINER						
Part Number	Dimensions				Weight	
	A		B			
	“	mm	“	mm	lb	kg
9W7112P	2.3	59	0.4	11	0.1	0.0
6Y3228P	2.6	67	0.6	14	0.2	0.1
9J2258	3.1	79	0.6	14	0.2	0.1
9J6583P	3.4	87	0.75	19	0.3	0.1
9J2308P	3.6	92	0.6	14	0.2	0.1
9W2678P	4.2	106	0.75	19	0.5	0.2
9J2358P	4.25	108	0.75	19	0.5	0.2
6Y3394P	4.3	110	1	25	1.1	0.5
7T3408P	4.6	117	0.9	22	0.6	0.3
6Y2527P	5.25	133	0.75	19	0.6	0.3
8E0468P	5.25	133	0.9	24	1.0	0.5
6Y3909P	5.6	143	1.25	32	1.9	0.9
6Y8558P	6.4	162	1	25	1.2	0.5
6I6608P	7.6	194	1.1	29	2.3	1.0
1359292P	2.7	68	0.75	19	0.3	0.1
4T4708P	7.7	195	1.25	32	2.7	1.2
8E2229P	6.3	160	1.4	35	2.6	1.2

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PINS, RETAINER WASHERS & SNAP RINGS
Caterpillar Style



PIN & RETAINER WASHERS								
Part Number	Dimensions						Weight	
	A		B		C			
	“	mm	“	mm	“	mm	lb	kg
4T0001W	0.75	19	0.4	10	0.3	7	0.1	0.0
3G9609W	1.1	29	0.5	13	0.3	9	0.1	0.0
3G9609WHR							0.1	0.0
8E6259W	1.2	30	0.5	13	0.3	9		
6Y9459W	1.5	38	0.7	18	0.3	9	0.1	0.0
6Y9459WHR							0.1	0.0
7T3409W	1.6	40	0.8	21	0.3	9	0.2	0.1
7T3409WHR							0.2	0.1
8E0469W	1.7	43	0.9	23	0.3	9	0.4	0.2
8E0469WHR							0.4	0.2
8E5559W	2.0	51	1.0	25	0.3	9	0.2	0.1
8E5559WHR							0.2	0.1
6I6609W	2.25	57	1.2	29	0.3	8	0.3	0.1
4T4707W	2.5	64	1.2	31	0.4	10	0.4	0.2
1012874W							0.5	0.2
1320999W							0.3	0.1



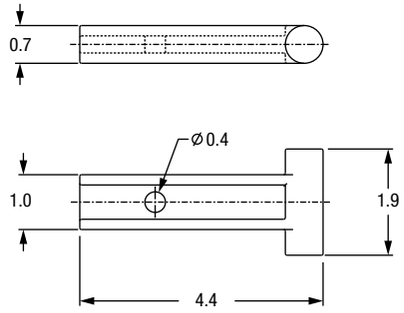
PINS WITH SNAP RINGS						
Part Number	Dimensions				Weight	
	A		B			
	“	mm	“	mm	lb	kg
8J1433P	3.25	83	0.75	32	0.1	0.0
6J8811P	4.4	11	1.25	32	1.4	0.6
7J9600P	5.0	127	1.0	25	1.0	0.5
3G0500P	6.0	152	1.25	32	1.8	0.8
6Y2443P	6.1	156	1.4	35	2.5	1.1

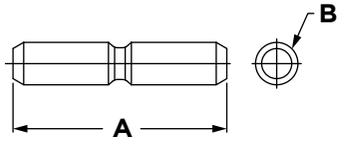
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SCARIFIER SHANK WEDGES & STRAIGHT PINS
Caterpillar Style

SCARIFIER SHANK WEDGES

5K1459W
0.8 lb / 0.4 kg





STRAIGHT PINS							
Part Number	Use	Dimensions				Weight	
		A		B			
		“	mm	“	mm	lb	kg
7K9535P	Compactor Feet	3.8	96	0.75	19	0.4	0.2
7K9937P	Compactor Feet	2.9	75	0.75	19	0.4	0.2

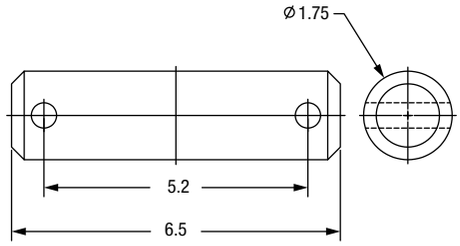
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Note: Measurements are in inches.

STRAIGHT PIN WITH COTTER & MISC.
Caterpillar Style

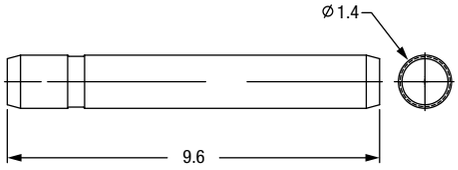
STRAIGHT PIN WITH COTTER

2K6413P
4.2 lb / 1.9 kg
Used with ripper shank 9J6586HX.
Requires (2) Cotter Keys,
3R5325P [3.0" x 0.5"]

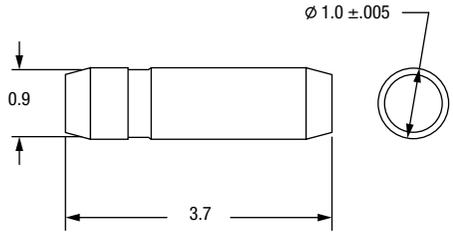


MISCELLANEOUS PINS

1020101P
3.9 lb / 1.8 kg



1321008P
0.8 lb / 0.4 kg



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Note: Measurements are in inches.

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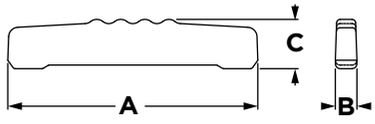
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4.3

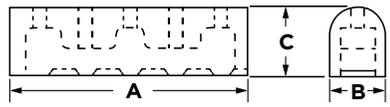
PINS & FASTENERS

Esco Style

PINS & RUBBER LOCKS
Esco Style



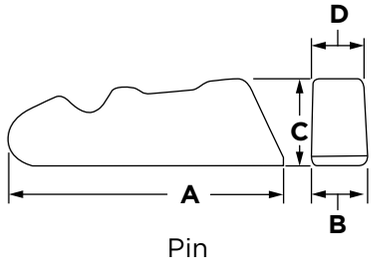
Pin



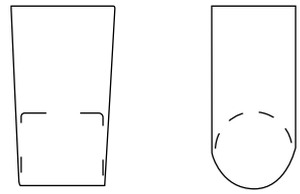
Lock

PINS & RUBBER LOCKS										
Part Number	Dimensions								Weight	
	A		B		C		D			
	“	mm	“	mm	“	mm	“	mm	lb	kg
18-20MPNP	2.1	52	0.25	6	0.5	13	-	-	0.1	0.0
18-20MLKR	1.4	35	0.5	12	0.6	16	-	-	0.1	0.0
25/30PNP	2.8	71	0.4	10	0.8	20	-	-	0.2	0.1
25/30LKR	1.3	33	0.4	11	0.9	22	-	-	0.1	0.0
35PNP	3.3	84	0.4	11	0.9	23	-	-	0.3	0.1
35/40LKR	3.5	89	0.6	14	0.9	22	-	-	0.1	0.0
40PNP	3.75	95	0.5	13	1.2	30	-	-	0.5	0.2
44DLKR	3.6	92	0.9	22	1.2	30	-	-	0.6	0.3
44DPNP	5.75	146	0.5	13	1.2	30	-	-	1.0	0.5
45PNP	4.25	108	0.6	14	1.4	35	-	-	0.7	0.3
45LKR	2.3	59	0.6	16	1.0	25	-	-	0.1	0.0
50LKRR	2.4	62	0.7	17	1.25	32	-	-	0.3	0.1
50PNRP	4.75	121	0.6	16	1.5	37	0.4	10	0.8	0.4
50LKR	2.4	62	0.7	17	1.2	30	-	-	0.3	0.1
50PNP	4.6	116	0.6	16	1.5	37	-	-	0.9	0.4
55LKRR	2.6	65	0.4	10	1.2	31	0.7	17	0.3	0.1
55PNRP	5.1	130	0.7	17	1.6	40	0.4	11	1.2	0.5
55LKR	2.6	65	0.75	19	1.25	32	-	-	0.3	0.1
55PNP	5.1	130	0.7	17	1.6	41	0.4	10	1.2	0.5
66PNP	6.5	165	0.6	14	1.3	33	-	-	1.1	0.5
80PNP									3.8	1.7

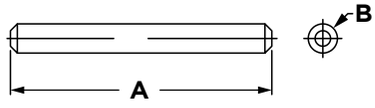
PINS, RIPPER PINS, RUBBER PLUGS & BUSHINGS
Esco Style



Pin

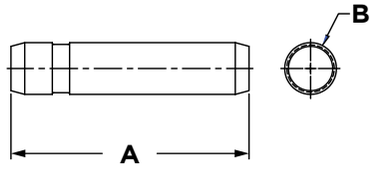

Rubber Plug

PINS & RUBBER PLUGS											
Part Number	Type	Dimensions								Weight	
		A		B		C		D			
		“	mm	“	mm	“	mm	“	mm	lb	kg
R3P	Pin	2.4	60	0.5	13	0.75	19	0.4	11		
R5P	Pin	3.75	95	0.75	19	1.0	25	0.7	17		
80PLP	Plug									1.5	0.7



RIPPER PINS & BUSHINGS							
Part Number	Type	Dimensions				Weight	
		A		B			
		“	mm	“	mm	lb	kg
39RSPP	Ripper Pin	5.0	127	1.2	30	1.0	0.5
35RP	Pin	4.75	121	0.5	13	0.4	0.2
39RP	Pin	5.25	133	0.5	13	0.5	0.2
39RB	Rubber Bushing	3.5	89	0.8	21	0.1	0.0

PINS
Esco Style



PINS						
Part Number	Dimensions				Weight	
	A		B			
	“	mm	“	mm	lb	kg
CB11690#2HX	11.0	279	4.25	108	49.3	22.4
ES4410P	4.3	109	0.9	23	0.2	0.1
ES5280P	3.2	81	0.9	23	0.3	0.1
PDB31183#2HX	7.25	184	1.5	38	3.5	1.6

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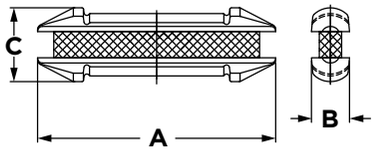
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4.4

PINS & FASTENERS

H&L Style

FLEX PINS
H&L Style



FLEX PINS									
Part Number	Type	Dimensions						Weight	
		A		B		C			
		“	mm	“	mm	“	mm	lb	kg
23PA	Black, Standard	2.25	57	0.4	10	0.7	18	0.1	0.0
23PB	Yellow, Reversible	2.25	57	0.4	10	0.7	18	0.1	0.0
23PBL	Reversible, 4-Tab, Long	2.5	64	0.4	10	0.8	20	0.2	0.0
23PC	Blue, Oversize	2.25	57	0.4	10	0.8	20	0.1	0.0
23PD	Green, Oversize, Reversible	2.25	57	0.4	10	0.8	20	0.1	0.0
24PB	Reversible, 4-Tab	2.3	58	0.5	13	0.8	21	0.2	0.1
25/26PB	Reversible, 4-Tab	2.8	72	0.5	13	0.8	21	0.2	0.1
25/26PD	Oversize	2.8	72	0.5	13	0.9	22	0.2	0.1

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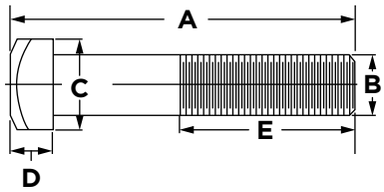
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4.5

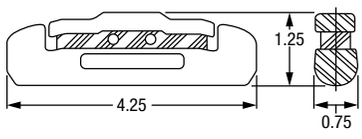
PINS & FASTENERS

Hendrix Style

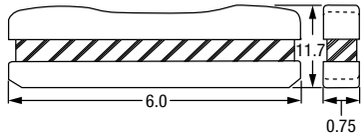
BOLT WITH NUT WASHER & FLEX PINS
Hendrix Style



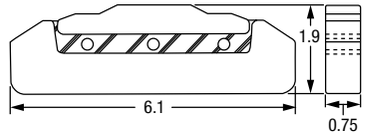
BOLT WITH NUT & WASHER												
Part Number	Type	Dimensions										Weight	
		A		B		C		D		E			
		“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg
114PBB	with Nut & Washer	7.1	181	1.25	32	1.9	48	0.9	22	3.6	92	3.7	1.7



4EP



5BP

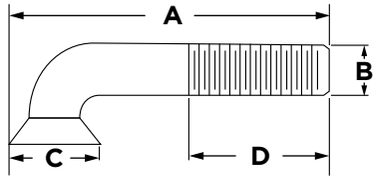


5BP2

FLEX PINS									
Part Number	Type	Dimensions						Weight	
		A		B		C			
		“	mm	“	mm	“	mm	lb	kg
4EP		4.25	108	0.75	19	1.25	32	0.7	0.3
5BP	Old Style	6.0	152	0.75	19	1.7	43	1.7	0.8
5BP2	New Style	6.1	156	0.75	19	1.9	48	1.8	0.8

Note: Measurements are in inches.

J-BOLT WITH NUT & MISCELLANEOUS
Hendrix Style



J-BOLT WITH NUT										
Part Number	Dimensions								Weight	
	A		B		C		D			
	“	mm	“	mm	“	mm	“	mm	lb	kg
58J	4.0	102	0.6	16	1.1	29	1.75	44	0.5	.23
34J	5.3	135	0.75	19	1.4	35	2.5	64	0.8	0.4
78J	6.9	175	0.9	22	1.6	41	2.75	70	1.1	0.5
A78JH	6.9	175	0.9	22	1.6	41	2.75	70	1.4	0.6

*Sold as assembly with lock washer and grade 8 hex nut

Note: Measurements are in inches.

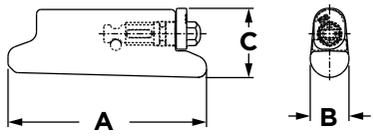
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4.6

PINS & FASTENERS

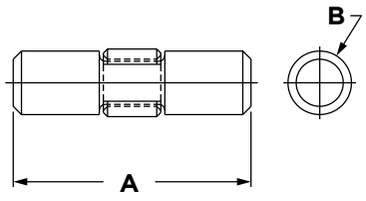
Komatsu Style

KMAX PINS
Komatsu Style



KMAX PINS							
Part Number	Duty Rating	Dimensions					
		A		B		C	
		“	mm	“	mm	“	mm
KP15C	Heavy	3.6	91	0.7	18	1.25	32
KP20C	Heavy	4.1	103	0.8	20	1.4	36
KP25C	Heavy	4.6	117	0.9	23	1.6	41
KP30C	Heavy	5.1	130	1.0	25	1.8	45
KP50C	Heavy	6.1	156	1.2	30	2.1	53
KP70C	Heavy	6.7	169	1.3	33	2.0	57
KP85C	Heavy	7.0	177	1.3	32	2.25	57

PINS WITH SNAP RINGS
Komatsu Style



PINS WITH SNAP RINGS						
Part Number	Dimensions				Weight	
	A		B			
	“	mm	“	mm	lb	kg
092-44-02488-P	3.6	92	1.0	25	0.7	0.3
092-44-02496-P	3.8	96	1.0	25	0.8	0.4
175-78-21740-P	4.6	117	1.0	25	0.9	0.4
195-78-71360-P	4.6	117	1.2	30	1.4	0.6
426-847-1130P	5.0	128	1.1	27	1.7	0.7
092-44-03036-P	5.4	137	1.2	29	1.6	0.7
198-78-21340-PL	6.0	152	1.2	30	1.8	0.8
21N-72-14330-P	6.5	165	1.6	40	3.4	1.5
427-70-13790-P	6.6	168	1.5	37	3.1	1.4
20X-70-00100P	2.8	71	0.8	20	0.3	0.1
113-78-21170P	2.8	71	1.1	28	0.5	0.2
209-70-54240P	6.6	168	1.4	36	2.8	1.3
426-847-2310P	5.7	145	1.2	30	1.7	0.8

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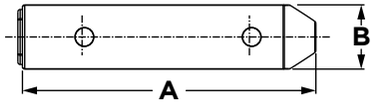
4.7

PINS & FASTENERS

Miscellaneous

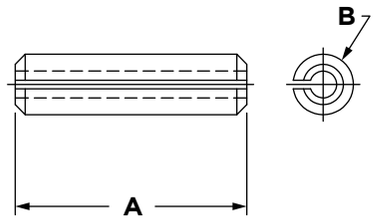
BOLT AND NUT ASSEMBLIES, FLEX PINS
Miscellaneous

WEAR RUNNER BOLT AND NUT ASSEMBLIES						
Part Number	Stock Number	Diameter		Description	Weight	
		“	mm		lb	kg
112X234BN	70-6800	1.5	38	1 1/2” x 2 3/4” Bolt/nut assy	3.0	1.4
115BLN	70-4100	1.0	25	1”UNF x 1 1/2” Bolt w/lock nut	0.5	0.2
115BN	70-2960	1.0	25	1”UNC x 1 1/2” Bolt w/lock nut	0.8	0.4
12BN	70-6130	1.0	25	1”UNC x 2” Bolt w/nut	0.7	0.3
13BN	70-6140	1.0	25	1”UNC x 3” Bolt w/nut	0.9	0.4
1FLN	70-4101	1.0	25	1” - 8 Stover lock nut	0.1	0.0
58125BCRN	70-7390	5/8	16	5/8” x 1 1/4” Bolt w/crimp nut	0.3	0.1
58125BN	70-4280	5/8	16	5/8” X 1 1/4” Bolt w/nut	0.3	0.1

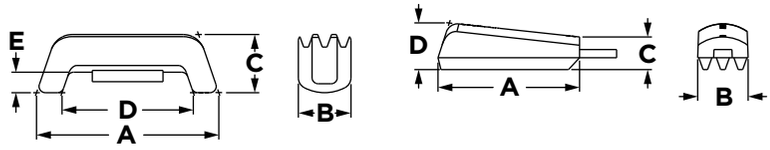


FLEX PINS							
Part Number	Style	Dimensions				Weight	
		A		B			
		“	mm	“	mm	lb	kg
1582161P	O&K shovel	10.6	270	1.6	41	9.3	4.2
D05124P	Berkeley wing shrouds (D05111AHX)	8.0	203	1.75	44	5.1	2.3

FORD ROLL PIN, SPOOL & WEDGE ASSEMBLIES
Miscellaneous



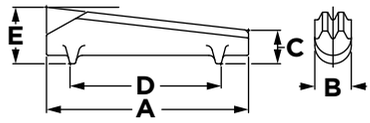
FORD ROLL PIN							
Part Number	Style	Dimensions				Weight	
		A		B			
		“	mm	“	mm	lb	kg
P555	Ford	2.1	52	0.3	15	0.1	0.0



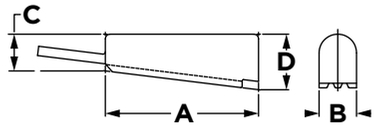
Spool Wedge

AMSCO SPOOL & WEDGE ASSEMBLIES												
Part Number	Type	Dimensions										Weight	
		A		B		C		D		E			
		“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg
289572SP	SPOOL	7.25	184	2.1	53	2.3	58	5.2	132	0.8	20	5.1	2.3
289574W	WEDGE	6.0	152	2.1	53	1.4	36	2.0	51	-	-	4.6	2.1

SPOOL & WEDGE ASSEMBLIES
Miscellaneous



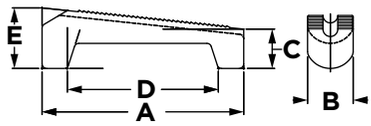
Spool



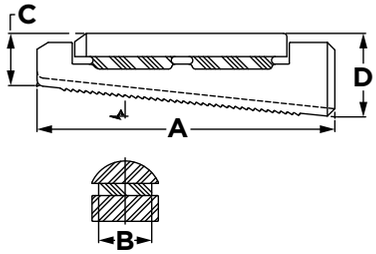
Wedge

BUCYRUS-ERIE SPOOL & WEDGE ASSEMBLIES

Part Number	Type	Dimensions										Weight	
		A		B		C		D		E			
		“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg
C11053002HX	WEDGE	7.7	196	1.5	38	1.3	33	2.2	56	-	-	4.9	2.2
C11053102SP	SPOOL	8.3	211	1.5	38	1.4	36	6.2	157	2.3	58	4.1	1.9
C11059102HX	WEDGE	8.2	208	2.0	51	2.0	51	3.0	76	-	-	10.7	4.9



Spool



Wedge

HENSLEY SPOOL & WEDGE ASSEMBLIES

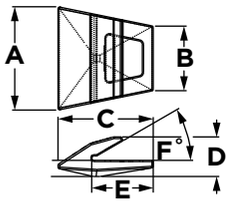
Part Number	Type	Dimensions										Weight	
		A		B		C		D		E			
		“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg
AH4100SP	FASTENER - SPOOL	11.1	281	2.5	64	5.3	136					18.6	8.4
B00467402W	WEDGE	13.3	338	1.1	29	2.6	66	3.7	93	-	-	10.5	4.8
CA072001W	WEDGE			1.5	38	1.4	37	2.1	53	-	-	5.0	2.3
CA072101SP	FASTENER - SPOOL	8.3	211	1.5	38	2.0	51	4.9	125	2.6	67	5.0	2.3
H530W	WEDGE	7.0	177	1.75	44	1.5	37	2.8	72	-	-	4.6	2.1
H530WOS	WEDGE	7.0	177	1.75	44	1.7	42	3.0	76	-	-	5.2	2.4
R4100SP	FASTENER - SPOOL	11.1	282	2.5	64	2.2	56	8.3	211	3.3	84	11.4	5.2
R4100EL	FASTENER	11.25	286	2.0	51	2.0	51	3.2	81	-	-	14.5	6.6

5.1

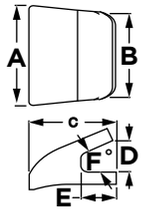
SPECIALIZED WEAR PROTECTION

Shrouds

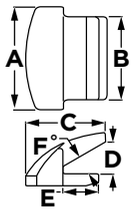
WELD-ON LIP SHROUDS
Specialized Wear Protection



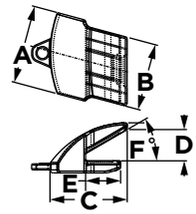
Type 1



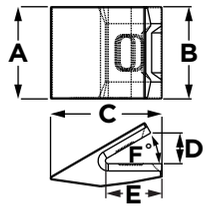
Type 2



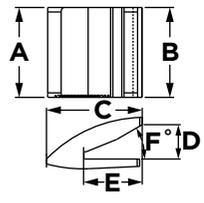
Type 3A
Center



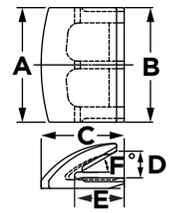
Type 3B
(RH/LH)



Type 4



Type 5

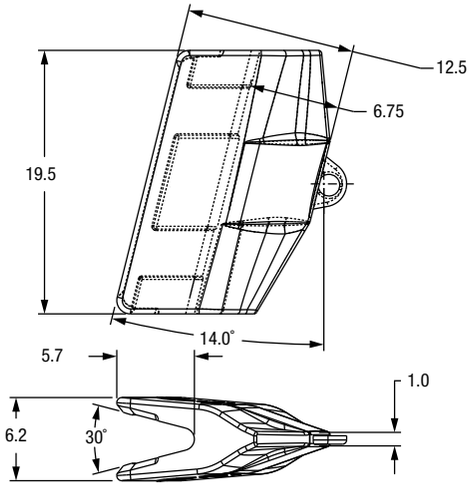


Type 6

WELD-ON LIP SHROUDS FOR EXCAVATORS AND LOADERS																
Lip Thickness		Part Number	Type	Dimensions											Weight	
				A		B		C		D		E		F		
“	mm			“	mm	“	mm	“	mm	“	mm	“	mm		lb	kg
1.5	35	10WSHX	1	10.0	254	7.0	178	7.4	187	1.5	38	-	-	30°	22.6	10.3
1.75	45	13WSHX	1	13.0	330	10.0	254	10.25	260	1.75	44	-	-	23°	53.4	24.2
1.75	45	14WS2HX	1	15.0	381	12.0	305	10.25	260	1.75	44	-	-	23°	65.0	29.5
1.75	45	CD-9100-B-HX	2	5.4	136	4.5	114	4.3	109	1.5	38	1.75	44	25°	9.3	4.2
1.75	45	WS-25	5	2.5	63	2.5	63	4.75	121	1.75	44	-	-	30°	4.4	2.0
2.0	50	14WS-3230HX	1	32.0	813	32.0	813	10.25	260	2.1	54	-	-	30°	146.0	66.3
2.0	50	14WS-32HX	1	32.0	813	32.0	813	10.25	260	1.8	46	-	-	23°	151.0	68.5
2.0	50	14WSHX	1	15.0	381	12.0	305	10.25	260	2.1	52	-	-	30°	65.0	29.5
2.0	50	WS-45	4	4.5	114	4.5	114	7.25	184	2.0	51	-	-	30°	15.5	7.0
2.0	50	WS-60	4	6.0	152	6.0	152	7.2	184	2.0	51	-	-	30°	18.4	8.3
2.75	70	WS-80	4	8.0	203	7.0	178	8.6	217	2.75	70	-	-	30°	34.8	15.8
3.0	75	3000901-HX	3	10.25	260	8.2	208	8.0	203	3.5	89	3.6	92	30°	50.4	22.9
3.0	75	3000902-HX (RH)	3	11.1	283	8.75	222	7.7	195	3.0	76	3.9	98	30°	52.3	23.7
3.0	75	3000903-HX (LH)	3	11.1	283	8.75	222	7.7	195	3.0	76	3.9	98	30°	52.3	23.7
3.0	75	3000904HX	3	9.0	229	8.1	206	8.0	203	3.1	80	4.3	110	30°	46.8	21.3
3.0	75	3000905HX	3	5.9	150	4.75	121	8.0	203	3.2	82	3.6	92	30°	31.0	14.1
3.0	75	3000906HX	3	8.1	206	6.9	176	8.0	203	3.2	82	3.6	92	30°	45.6	20.7
3.0	75	3000906LHX (LH)	3	8.1	206	6.9	176	8.0	203	3.2	82	3.6	92	30°	44.0	20.0
3.0	75	3000906RHX (RH)	3	8.1	206	6.9	176	8.0	203	3.2	82	3.6	92	30°	44.0	20.0
3.0	75	B70HX	5	9.8	249	9.8	249	8.75	222	2.5	63	-	-	30°	46.1	20.9
3.5	90	18WSHX	1	18.0	457	13.9	352	13.25	336	3.3	84	-	-	28°	123.5	56.1
3.5	90	350LS15	6	15.0	381	15.0	381	10.9	276	3.5	89	6.5	165	30°	122.0	55.4
4.75	120	WS100L	3B	10.0	258	6.7	170	9.25	234	4.9	123	5.5	140	30°	69.0	31.3
4.75	120	WS100R	3B	10.0	258	6.7	170	9.25	234	4.9	123	5.5	140	30°	69.0	31.3
4.75	120	WS140	3	14.2	360	7.0	180	9.25	235	4.9	123	5.5	140	30°	83.5	37.9
4.75	120	WS90	3	9.0	229	6.7	170	9.25	235	4.9	123	5.5	140	30°	63.5	28.8
4.75	120	WS130L	3B	13.2	335	9.75	248	9.2	234	4.9	124	5.5	140	30°	97.0	44.0
4.75	120	WS130R	3B	13.2	335	9.75	248	9.2	234	4.9	124	5.5	140	30°	97.0	44.0
4.75	120	WS141LL	3	14.0	356	10.0	254	12.9	327	4.9	124	6.25	159	30°	191.0	86.6

LIP SHROUD

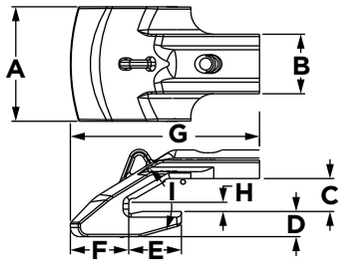
WS120-1950 (universal left or right)
for use on 4.75” (120) lips
203.0 lb / 92.2 kg



Note: Can replace j-bolt lip shroud
LS475-1950JR + JL

Note: Measurements are in inches.

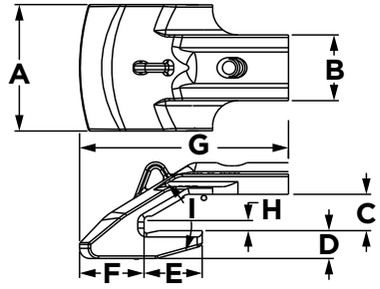
J-BOLT SHROUDS FOR LOADERS AND EXCAVATORS
Specialized Wear Protection



J-BOLT SHROUDS FOR LOADERS AND EXCAVATORS 2” - 4” LIPS												
Lip Thickness		Part No.	Dimensions									
			A		B		C		D		E	
“	mm		“	mm	“	mm	“	mm	“	mm	“	mm
2.0	51	LS200-1350J*	13.5	343	5.0	127	2.1	54	1.4	35	8.25	210
2.5	64	LS250-1500J*	15.0	381	5.0	127	2.6	67	1.6	41	9.75	248
2.5	64	LS250-1500J2L**	15.0	381	5.0	127	2.4	61	2.6	66	5.2	132
2.75	70	LS275-1675J**	16.75	425	6.5	165	2.9	73	1.9	48	11.0	279
3.0	80	LS300-1000J**	10.0	254	6.5	165	3.2	81	2.0	51	11.2	284
3.0	80	LS300-1000J2B**	10.0	254	6.5	165	3.1	79	2.0	51	12.1	308
3.0	80	LS300-1600J**	16.4	416	6.4	162	3.2	82	3.25	83	13.0	331
3.5	90	LS350-1250J**	12.5	317	6.5	165	3.7	91	2.75	70	18.5	470
3.5	90	LS350-1750J**	17.5	445	6.5	165	3.6	91	3.5	89	12.1	308
3.5	90	LS350-M275J**	10.8	276	6.5	165	3.6	91	2.75	70	5.75	146
4.0	100	LS400-900J**	9.0	229	6.5	165	4.2	106	2.75	70	5.75	146
4.0	100	LS400-1175J**	11.75	298	6.5	165	4.1	103	1.3	33	10.7	271
4.0	100	LS400-1200J**	12.0	305	6.5	165	4.2	106	2.75	70	12.1	308
4.0	100	LS400-1600J**	16.0	406	6.5	165	4.2	106	2.75	70	12.6	321
4.0	100	LS400-1600JCS**	16.0	406	6.5	165	4.2	106	1.75	44	11.8	299
4.0	100	LS400-1750J**	17.5	445	6.5	165	4.2	106	3.25	83	12.25	311
4.0	100	LS400-2450J**	24.5	622	6.5	16.5	4.2	106	3.25	83	5.75	146
-	-	LS425-1475J***	14.75	375	6.5	165	4.25	108	3.0	76	5.0	127

*Optional Shroud Cap: J-Bolt SFA34J2 and Cap LSCAP3
**Optional Shroud Cap: J-Bolt SFA1J2 and Cap MACAP
*** Berkeley Saber Lip System

J-BOLT SHROUDS FOR LOADERS AND EXCAVATORS
Specialized Wear Protection

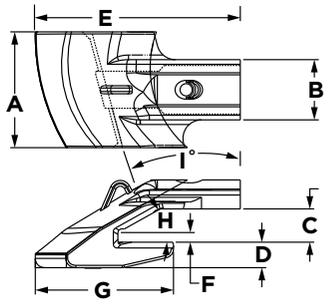


J-BOLT SHROUDS FOR LOADERS AND EXCAVATORS 2” - 4” LIPS CONTINUED

Part No.	Dimensions							Weight		Weld Base	J-Bolt
	F		G		H		I				
	“	mm	“	mm	“	mm		lb	kg		
LS200-1350J*	3.5	89	13.6	346	0.75	19	30°	64.0	29.0	LSWB3	SFA34J4
LS250-1500J*	4.5	114	15.0	381	1.1	27	30°	82.0	37.2	LSWB3	SFA34J4
LS250-1500J2L**	4.6	117	15.0	381	1.1	28	30°	125.0	57.0	LSWB3	SFA34J4
LS275-1675J**	6.4	162	18.75	476	1.6	41	35°	160.0	72.6	LSWB8	SFA1J4
LS300-1000J**	7.8	198	17.7	449	3.2	81	Blunt	125.0	56.7	LSWB8	SFA1J4
LS300-1000J2B**	6.4	162	20.7	525	0.9	23	30°	143.0	64.9	LSWB8	SFA1J4
LS300-1600J**	7.2	184	24.5	622	1.6	41	30°	277.0	125.6	LSWB8	SFA1J4
LS350-1250J**	6.4	162	20.7	525	1.0	25	30°	180.0	81.7	LSWB8	SFA1J4
LS350-1750J**	6.4	162	20.7	525	1.0	26	30°	285.5	129.5	LSWB8	SFA1J4
LS350-M275J**	6.4	162	20.7	526	1.4	37	30°	162.0	73.5	LSWB8	SFA1J4
LS400-900J**	6.4	162	21.8	553	1.2	30	30°	160.0	72.6	LSWB8	SFA1J4
LS400-1175J**	4.8	122	20.4	519	1.25	32	30°	110.0	50.0	LSWB8	SFA1J4
LS400-1200J**	6.4	162	21.8	553	1.25	32	30°	187.0	84.8	LSWB8	SFA1J4
LS400-1600J**	6.4	162	21.75	552	1.0	25	30°	194.0	88.0	LSWB8	SFA1J4
LS400-1600JCS**	6.0	153	21.8	553	1.3	32	30°	182.0	82.6	LSWB8	SFA1J4
LS400-1750J**	7.5	191	21.7	551	1.5	38	30°	290.0	131.6	LSWB8	SFA1J4
LS400-2450J**	7.5	191	21.7	551	1.7	43	30˚	385.0	174.6	LSWB8	SFA1J4
LS425-1475J***	10.5	267	20.4	518	4.25	76	n/a	282.0	127.9	LSWB8	SFA1J4

*Optional Shroud Cap: J-Bolt SFA34J2 and Cap LSCAP3
**Optional Shroud Cap: J-Bolt SFA1J2 and Cap MACAP
*** Berkeley Saber Lip System

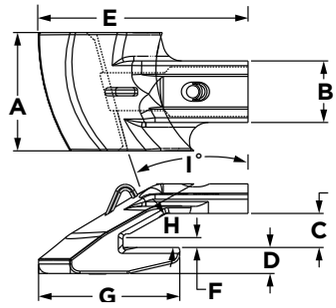
J-BOLT SHROUDS FOR LOADERS AND EXCAVATORS
Specialized Wear Protection



J-BOLT SHROUDS FOR LOADERS AND EXCAVATORS 2"- 4" LIPS												
Lip Thickness		Part No.	Dimensions									
			A		B		C		D		E	
"	mm		"	mm	"	mm	"	mm	"	mm	"	mm
2.0	51	LS200-1350JR* LS200-1350JL*	13.5	343	5.0	127	2.1	54	1.4	35	13.6	346
2.5	64	LS250-1500JR* LS250-1500JL*	15.0	381	5.0	127	2.6	67	1.6	41	15.0	381
2.5	64	LS250-1500JR2L** LS250-1500JL2L**	15.0	381	5.0	127	2.6	67	2.6	67	15.5	394
2.75	70	LS275-1675JR** LS275-1675JL**	16.75	425	6.5	165	2.9	73	1.9	48	18.75	476
3.0	80	LS300-1000JR** LS300-1000JL**	10.0	254	6.5	165	3.2	81	2.0	51	17.8	452
3.0	80	LS300-1000JR2B** LS300-1000JL2B**	10.0	254	6.5	165	3.1	79	2.0	51	21.9	556
3.0	80	LS300-1700JR LS300-1700JL	17.0	432	6.4	162	3.2	82	3.25	83	25.8	657
3.5	90	LS350-925JR LS350-925JL	9.25	235	6.5	165	3.6	91	2.5	64	21.2	538
3.5	90	LS350-1250JR** LS350-1250JL**	12.5	317	6.5	165	3.7	91	2.75	70	22.1	562
3.5	90	LS350-1750JL** LS350-1750JR**	17.5	445	6.5	165	3.6	91	3.5	89	20.5	521
4.0	100	LS350-M295JR LS350-M295JL	10.2	259	6.5	165	3.6	91	2.75	70	20.4	519
4.0	100	LS400-900JR** LS400-900JL**	9.0	229	6.25	159	4.2	106	2.75	70	22.2	564
4.0	100	LS400-1200JL** LS400-1200JR**	12.0	305	6.25	159	4.2	106	2.75	70	21.9	558
4.0	100	LS400-1600JR** LS400-1600JL**	16.0	406	6.5	165	4.2	106	2.75	70	21.75	552
4.0	100	LS400-1600JRS** LS400-1600JLS**	16.0	406	6.25	159	4.2	106	1.75	44	22.6	573
4.0	100	LS400-1750JR** LS400-1750JL**	17.5	445	6.5	165	4.2	106	3.25	83	21.7	551

*Optional Shroud Cap: J-Bolt SFA34J2 and Cap LSCAP3
**Optional Shroud Cap: J-Bolt SFA1J2 and Cap MACAP

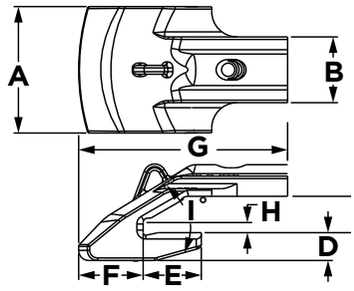
J-BOLT SHROUDS FOR LOADERS AND EXCAVATORS
Specialized Wear Protection



J-BOLT SHROUDS FOR LOADERS AND EXCAVATORS 2"- 4" LIPS CONTINUED										
Part No.	Dimensions						Weight		Weld Base	J-Bolt
	F		G		H	I				
	"	mm	"	mm			lb	kg		
LS200-1350JR* LS200-1350JL*	0.75	19	8.25	210	30°	10°	59.0	26.8	LSWB3	SFA34J4
LS250-1500JR* LS250-1500JL*	1.1	27	9.75	248	30°	15°	82.0	37.2	LSWB3	SFA34J4
LS250-1500JR2L** LS250-1500JL2L**	1.1	27	11.3	287	30°	15°	125.0	57.0	LSWB3	SFA34JA
LS275-1675JR** LS275-1675JL**	1.6	41	11.0	279	35°	15°	160.0	72.6	LSWB8	SFA1J4
LS300-1000JR** LS300-1000JL**	3.8	81	11.2	284	Blunt	15°	127.0	57.6	LSWB8	SFA1J4
LS300-1000JR2B** LS300-1000JL2B**	0.9	23	14.3	363	29.1°	15°	146.0	66.2	LSWB8	SFA1J4
LS300-1700JR LS300-1700JL	1.6	41	12.8	324	30°	15°	294.0	133.4	LSWB8	SFA1J4
LS350-925JR LS350-925JL	1.0	26	13.5	344	29.1°	15°	132.0	59.9	LSWB8	SFA1J4
LS350-1250JR** LS350-1250JL**	1.0	25	14.9	379	30°	15°	180.0	81.7	LSWB8	SFA1J4
LS350-1750JL** LS350-1750JR**	1.0	26	12.1	308	30°	10°	287.0	130.2	LSWB8	SFA1J4
LS350-M295JR LS350-M295JL	1.4	37	11.9	303	30°	15°	149.0	67.6	LSWB8	SFA1J4
LS400-900JR** LS400-900JL**	1.25	32	12.1	308	30°	15°	162.0	73.5	LSWB8	SFA1J4
LS400-1200JL** LS400-1200JR**	1.25	32	14.1	358	30°	15°	176.0	79.8	LSWB8	SFA1J4
LS400-1600JR** LS400-1600JL**	1.0	25	12.6	321	30°	15°	207.0	93.9	LSWB8	SFA1J4
LS400-1600JRS** LS400-1600JLS**	1.25	32	11.7	296	30°	15°	182.0	82.6	LSWB8	SFA1J4
LS400-1750JR** LS400-1750JL**	1.5	38	12.25	311	30°	14°	300.0	136.1	LSWB8	SFA1J4

*Optional Shroud Cap: J-Bolt SFA34J2 and Cap LSCAP3
**Optional Shroud Cap: J-Bolt SFA1J2 and Cap MACAP

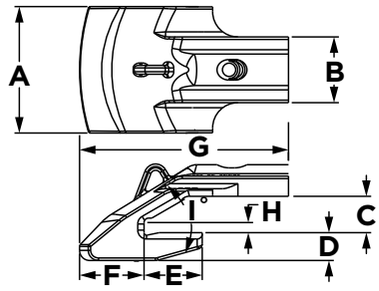
J-BOLT SHROUDS FOR LOADERS AND FACE SHOVELS
Specialized Wear Protection



J-BOLT SHROUDS FOR LOADERS AND FACE SHOVELS 4.75” - 6.25” LIPS												
Lip Thickness		Part No.	Dimensions									
			A		B		C		D		E	
“	mm		“	mm	“	mm	“	mm	“	mm	“	mm
4.75	121	LS475-1300J	13.0	330	8.4	213	4.9	125	2.25	57	7.25	184
4.75	121	LS475-1400J	14.0	356	8.4	213	4.9	125	2.25	57	14.6	372
4.75	121	LS475-1700J	17.0	432	8.4	213	4.9	125	2.25	57	14.6	372
4.75	121	LS475-1950J	19.5	495	8.4	213	4.9	123	2.25	57	7.25	184
5.5	140	LS550-1750J	17.5	444	8.4	213	5.7	144	2.25	57	15.75	400
5.5	140	LS550-2200J	22.0	559	8.4	213	5.7	144	2.25	57	15.75	400
6.25	159	LS625-1400J	14.0	356	8.4	213	6.5	165	2.25	57	17.75	451
6.25	159	LS625-1800J	18.0	457	8.4	213	6.4	164	2.6	67	9.75	248
6.25	159	LS625-2000J	20.0	508	8.4	213	6.4	164	2.6	67	9.75	248

Note: Optional Shroud Cap: J-Bolt SFA125J2 and Cap 255CAP

J-BOLT SHROUDS FOR LOADERS AND FACE SHOVELS
Specialized Wear Protection

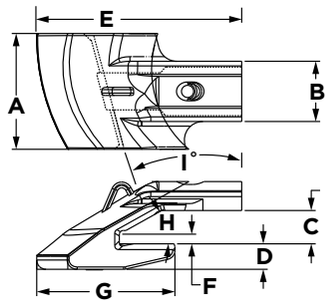


J-BOLT SHROUDS FOR LOADERS AND FACE SHOVELS 4.75” - 6.25” LIPS CONTINUED

Part No.	Dimensions							Weight		Weld Base	J-Bolt
	F		G		H		I				
	“	mm	“	mm	“	mm		lb	kg		
LS475-1300J	7.4	187	26.9	683	1.75	44	30°	280.0	127.0	LSWB6	SFA125J6
LS475-1400J	7.4	187	26.9	683	1.75	44	30°	262.0	118.9	LSWB6	SFA125J4
LS475-1700J	7.4	187	26.9	683	1.75	44	30°	354.0	160.7	LSWB6	SFA125J4
LS475-1950J	7.4	187	26.8	679	1.75	44	30°	374.0	169.6	LSWB6	SFA125J4
LS550-1750J	7.4	187	27.75	705	2.0	51	30°	396.0	179.8	LSWB6	SFA125J4
LS550-2200J	7.4	187	27.75	705	2.0	51	30°	388.0	176.0	LSWB6	SFA125J4
LS625-1400J	8.0	203	29.8	757	2.0	51	30°	330.0	149.8	LSWB6	SFA125J4
LS625-1800J	8.0	203	29.1	740	3.0	76	30°	467.5	212.1	LSWB6	SFA125J6
LS625-2000J	8.0	203	29.1	740	2.3	59	30°	496.0	255.0	LSWB6	SFA125J6

Note: Optional Shroud Cap: J-Bolt SFA125J2 and Cap 255CAP

J-BOLT SHROUDS FOR LOADERS AND FACE SHOVELS
Specialized Wear Protection

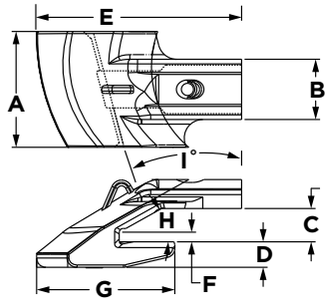


J-BOLT SHROUDS FOR LOADERS AND FACE SHOVELS 4.75” - 6.25” LIPS												
Lip Thickness		Part No.	Dimensions									
			A		B		C		D		E	
“	mm		“	mm	“	mm	“	mm	“	mm	“	mm
4.75	120	LS475-1300JR* LS475-1300JL*	13.0	330	8.4	213	4.9	125	2.25	57	27.5	697
4.75	120	LS475-1400JR LS475-1400JL	14.0	356	8.4	213	4.9	123	2.25	57	27.2	691
4.75	120	LS475-1700JR LS475-1700JL	17.0	432	8.4	213	4.9	125	2.25	57	27.5	699
4.75	120	LS475-1950JR LS475-1950JL	19.5	432	8.4	213	4.9	125	2.25	57	27.5	699
5.5	140	LS550-1750JR LS550-1750JL	17.5	445	8.4	213	5.7	144	2.25	57	28.0	712
5.5	140	LS550-2200JR LS550-2200JL	22.0	559	8.4	213	5.7	144	2.25	57	28.6	727
6.25	160	LS625-1800JR LS625-1800JL	18.0	457	8.4	213	6.4	164	2.7	68	31.5	799
6.25	160	LS625-2000JR LS625-2000JL	20.0	508	8.4	213	6.5	165	2.25	57	30.2	767
6.25	160	LS625-2200JR LS625-2200JL	22.25	565	8.4	213	6.4	164	2.7	68	31.7	804
6.25	160	LS625-2400JR LS625-2400JL	24.0	610	8.4	213	6.4	164	2.7	68	31.9	811

*Under Development

Note: Optional Shroud Cap: J-Bolt SFA125J2 and Cap 255CAP

J-BOLT SHROUDS FOR LOADERS AND FACE SHOVELS
Specialized Wear Protection

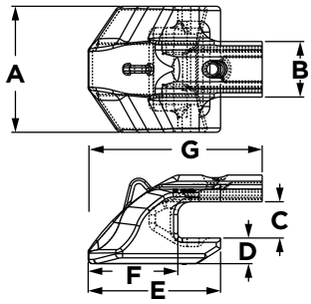


J-BOLT SHROUDS FOR LOADERS AND FACE SHOVELS 4.75” - 6.25” LIPS CONTINUED										
Part No.	Dimensions						Weight		Weld Base	J-Bolt
	F		G		H	I				
	“	mm	“	mm			lb	kg		
LS475-1300JR* LS475-1300JL*	1.75	44	14.6	371	30°	14°	280.0	127.0	LSWB6	SFA125J6
LS475-1400JR LS475-1400JL	1.75	44	14.6	371	30°	14°	315.0	142.9	LSWB6	SFA125J6
LS475-1700JR LS475-1700JL	1.75	44	14.75	375	30°	14°	305.0	138.3	LSWB6	SFA125J4
LS475-1950JR LS475-1950JL	1.75	44	14.75	375	30°	14°	400.0	182.0	LSWB6	SFA125J4
LS550-1750JR LS550-1750JL	2.0	51	15.75	400	30°	14°	400.0	181.6	LSWB6	SFA125J4
LS550-2200JR LS550-2200JL	2.0	51	13.9	352	30°	14°	405.0	183.7	LSWB6	SFA125J4
LS625-1800JR LS625-1800JL	3.0	76	203	516	30°	14°	504.2	228.7	LSWB6	SFA125J6
LS625-2000JR LS625-2000JL	2.0	51	17.75	451	30°	14°	420.0	190.5	LSWB6	SFA125J4
LS625-2200JR LS625-2200JL	2.7	67	20.6	523	30°	14°	635.0	288.3	LSWB6	SFA125J4
LS625-2400JR LS625-2400JL	3.0	76			30°	14°	690.0	131.0	LSWB6	SFA125J6

*Under Development

Note: Optional Shroud Cap: J-Bolt SFA125J2 and Cap 255CAP

J-BOLT SHROUDS FOR LOADER
Specialized Wear Protection

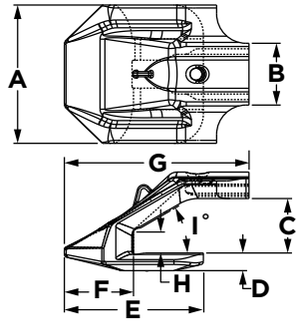


J-BOLT SHROUDS FOR L1850 LOADERS - CENTER												
Lip Thickness		Part No.	Dimensions									
			A		B		C		D		E	
“	mm		“	mm	“	mm	“	mm	“	mm	“	mm
4.25	108	LS425-1475J*	14.75	375	6.5	165	4.25	108	3.0	76	15.5	394

J-BOLT SHROUDS FOR L1850 LOADERS - CENTER								
Part No.					Weight		Weld Base	J-Bolt
	F		G					
	“	mm	“	mm	lb	kg		
LS425-1475J*	10.5	267	20.4	518	282.0	127.9	LSWB-8	SFA1J4

*Berkeley Saber Lip System

J-BOLT LIP SHROUDS FOR HENSLEY CAST LIPS
Specialized Wear Protection



J-BOLT LIP SHROUDS FOR HENSLEY CAST LIPS												
Part No.	Dimensions											
	A		B		C		D		E		F	
	“	mm	“	mm	“	mm	“	mm	“	mm	“	mm
LS130-1700J*	17.0	432	10.5	267	9.25	235	4.5	114	24.0	610	11.0	279
LS130-1700JSTD	17.0	432	10.5	267	9.25	235	3.0	76	24.0	609	11.0	279
LS130-2350J	23.5	597	10.5	267	9.25	235	3.0	76	23.6	600	11.75	298
LS130-2350JHD	23.5	597	10.5	267	9.25	235	4.5	114	23.6	600	11.75	298
LS640-1950J	19.5	495	10.5	267	9.75	248	3.75	95	19.6	498	11.6	295
LS800-2200J	22.0	559	10.5	267	9.75	248	3.75	95	24.2	614	11.75	298

J-BOLT LIP SHROUDS FOR HENSLEY CAST LIPS CONTINUED											
Part No.	Dimensions					Weight		Weld Base	J-Bolt	Lip Size	
	G		H		I						
	“	mm	“	mm		lb	kg			“	mm
LS130-1700J*	30.6	778	3.6	90	30°	840.0	381.0	LSWB9	SFA150J6	163.0	4140
LS130-1700JSTD	30.6	777	3.6	90	30°	731.0	331.6	LSWB9	SFA150J6		
LS130-2350J	31.4	797	3.6	91	30°	895.0	406.0			169.0	4293
LS130-2350JHD	31.4	797	3.6	91	30°	1035.0	469.5				
LS640-1950J	32.25	819	4.4	111	30°	838.0	380.1			185.0	4699
LS800-2200J	32.4	822	4.1	105	30°	962.0	436.4			201.0	5105

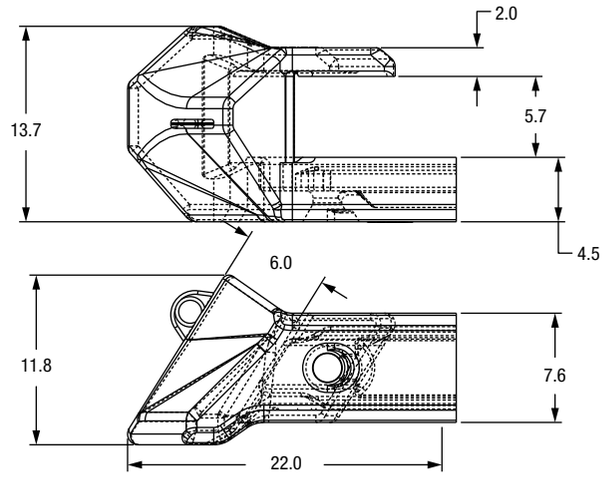
*Optional heavy duty shroud

Note: Measurements are in inches.

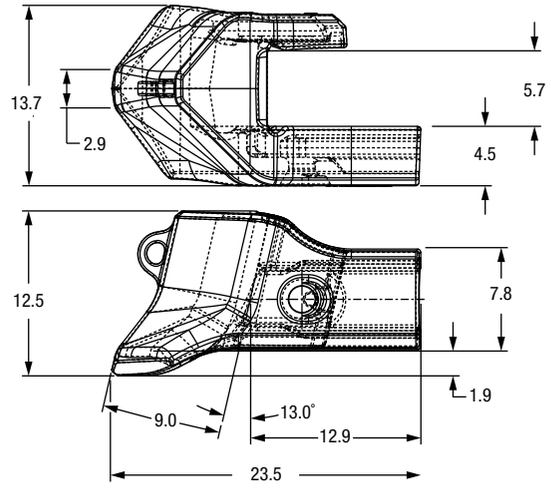
J-BOLT LIP SHROUDS FOR HENSLEY CAST LIPS
Specialized Wear Protection

J-BOLT LOWER WING SHROUD FOR HENSLEY CAST LIPS

WS135L (LH Shown)
WS135R (RH Opposite)
Lower Wing Shroud*
304.0 lb / 137.9 kg



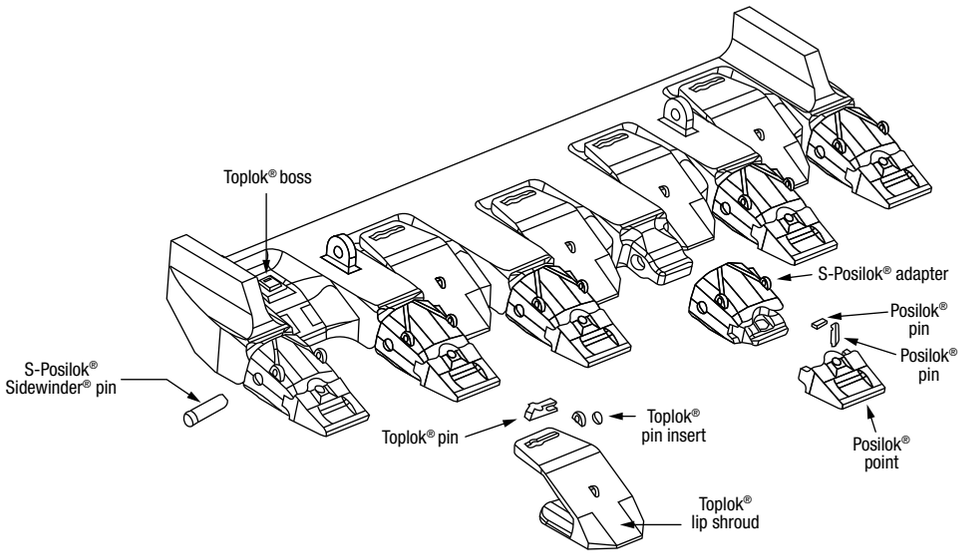
WS185L (LH Shown)
WS185R (RH Opposite)
Lower Wing Shroud*
317.0 lb / 143.8 kg



*Uses Weld base LSWB10 and J-Bolt assembly SFA150J6

Note: Measurements are in inches.

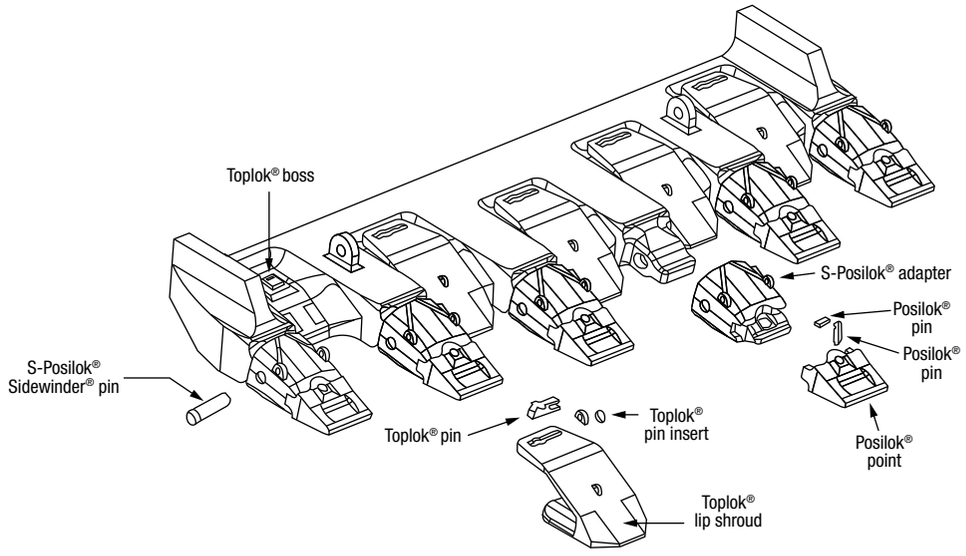
ESCO LOADMASTER® CAST LIP INFORMATION
Specialized Wear Protection



S130 SERIES ESCO LOADMASTER® CAST LIP									
Part No.	Weight		Tooth	Tooth Pin	Adapter	Adapter Pin	Lip Shroud	Shroud Fastener	Machine
	lb	kg							
LCS148S130-1	10,938	8,961	112KH (5)	PN112KC (5)	S130H112K (5)	S130PNA (5)	TCCF130-21C (4)	TCP (4)	Hitachi EX5500
LCS163S130-1	22,322	10,134	112KH (5)	PN112KC (5)	S130H112K (5)	S130PNA (5)	TCCF130-16A (4)	TCP (4)	Komatsu PC5500 (H455S)
LCS169S130-5	22,959	10,423	112KH (6)	PN112KC (6)	S130H112K (6)	S130PNA (6)	TCCF130-21B (5)	TCP (5)	Terex RH200, Komatsu PC5500 (H455S), EX5500
LCS201S130-1	28,862	13,103	112KH (6)	PN112KC (6)	S130H112K (6)	S130PNA (6)	TCCF130-25B (5)	TCP (5)	Komatsu PC5500 (H455S), PC8000 (H655S)

S145 SERIES ESCO LOADMASTER® CAST LIP									
Part No.	Weight		Tooth	Tooth Pin	Adapter	Adapter Pin	Lip Shroud	Shroud Fastener	Machine
	lb	kg							
LCS169S145-1	28,161	12,785	122KH (6)	PN122KC (6)	S145H122K (6)	S145PNA (6)	TCCF145-1B (5)	TCP (5)	Liebherr R996, PC8000
LCS201S145-1	33,171	15,060	122KH (6)	PN122KC (6)	S145H122K (6)	S145PNA (6)	TCCF145-2B (5)	TCP (5)	HRH400, R996, PC8000, Hitachi EX8000

ESCO LOADMASTER® CAST LIP INFORMATION
Specialized Wear Protection



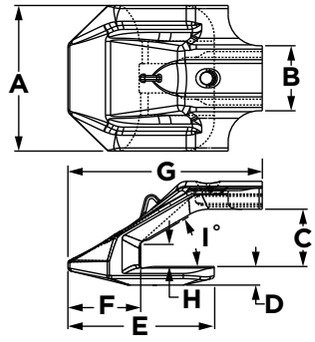
S130 SERIES ESCO LOADMASTER® CAST LIP W/HENSLEY PRODUCT

Part No.	Weight		Tooth	Tooth Pin	Adapter	Adapter Pin	Lip Shroud	Shroud Fastener	Machine
	lb	kg							
LCS148S130-1	Hensley does not offer this lip size		TS1122H (5)	TS1122PEL (5)	644TS1122 (5)	XS644P (5)	LS130M435J (4)	LSWB13 (4), SFA150J6 (4)	Hitachi EX5500
LCS163S130-1			TS1122H (5)	TS1122PEL (5)	644TS1122 (5)	XS644P (5)	LS130M600JBH(4)	LSWB13 (4), SFA150J6 (4)	Komatsu PC5500 (H455S)
LCS169S130-5			TS1122H (6)	TS1122PEL (6)	644TS1122 (6)	XS644P (6)	LS130M435J (5)	LSWB13 (5), SFA150J6 (5)	Terex RH200, Komatsu PC5500 (H455S), EX5500
LCS201S130-1	Hensley does not offer this lip size w/ this nose size		TS1122H (6)	TS1122PEL (6)	644TS1122 (6)	XS644P (6)	LS130M600JBH(5)	LSWB13 (5), SFA150J6 (5)	Komatsu PC5500 (H455S), PC8000 (H655S)

S145 SERIES ESCO LOADMASTER® CAST LIP W/HENSLEY PRODUCT

Part No.	Weight		Tooth	Tooth Pin	Adapter	Adapter Pin	Lip Shroud	Shroud Fastener	Machine
	lb	kg							
LCS169S145-1			TS1222MA (6)	TS1222PEL (6)	804TS1222 (6)	XS804P (6)	LS1451600J (5)	LSWB13 (5), SFA150J6 (5)	Liebherr R996, PC8000
LCS201S145-1			TS1222MA (6)	TS1222PEL (6)	804TS1222 (6)	XS804P (6)	LS1452200J (5)	LSWB13 (5), SFA150J6 (5)	HRH400, R996, PC8000, Hitachi EX8000

J-BOLT LIP SHROUDS FOR ESCO CAST LIPS
Specialized Wear Protection



J-BOLT LIP SHROUDS FOR ESCO LOADMASTER® CAST LIPS										
Part No.	Dimensions									
	A		B		C		D		E	
	“	mm	“	mm	“	mm	“	mm	“	mm
LS130-M435J	17.1	435	10.5	267	9.25	235	4.5	114	23.0	584
LS130-M435JSTD	17.1	435	10.5	267	9.25	235	3.0	76	23.0	584
LS130-M600JBH	23.5	597	10.6	268	9.25	235	3.0	76	20.75	527
LS145-1600J	16.0	406	10.5	267	9.75	248	3.75	95	19.75	502
LS145-2200J	220	559	10.5	267	9.75	248	3.75	95	19.75	502

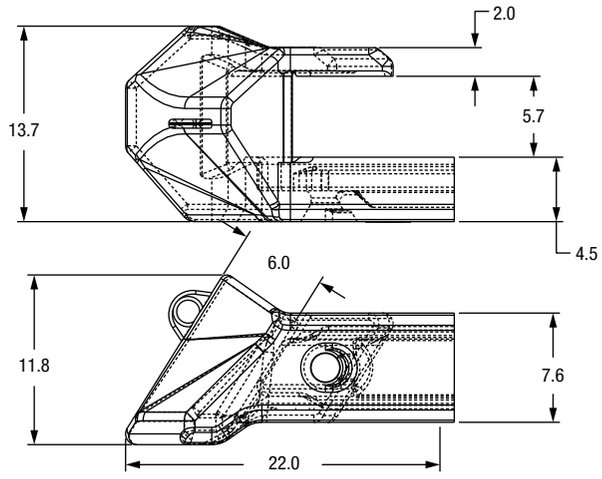
J-BOLT LIP SHROUDS FOR ESCO LOADMASTER® CAST LIPS CONTINUED											
Part No.	Dimensions							Weight		Weld Base	J-Bolt
	F		G		H		I				
	“	mm	“	mm	“	mm		lb	kg		
LS130-M435J	11.0	279	28.6	727	3.6	90	30°	856.0	388.3	LSWB-13	SFA150J6
LS130-M435JSTD	11.0	279	28.6	727	3.6	90	30°	734.0	332.9		
LS130-M600JBH	11.75	298	29.4	746	3.6	90	30°	940.0	426.4		
LS145-1600J	11.75	298	28.6	727	4.1	105	30°	683.0	310.0		
LS145-2200J	11.75	298	28.6	727	4.1	105	30°	880.0	399.0		

Note: Measurements are in inches.

J-BOLT LIP SHROUDS FOR ESCO CAST LIPS
Specialized Wear Protection

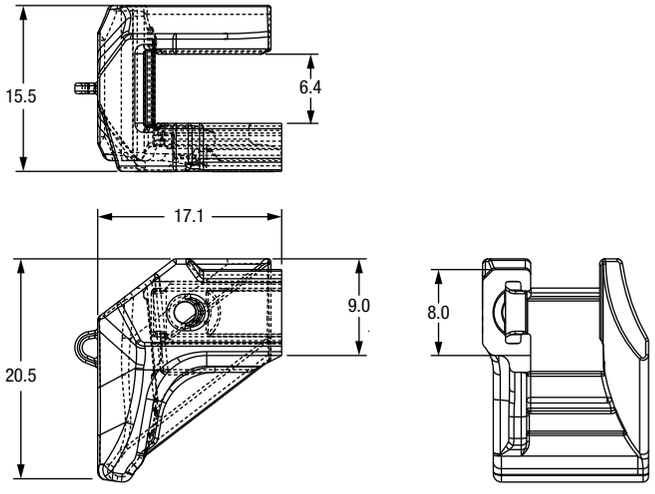
J-BOLT LOWER WING SHROUD FOR ESCO LOADMASTER® CAST LIPS

WS135L (LH Shown)
WS135R (RH Opposite)
Lower Wing Shroud
304.0 lb / 137.9 kg



Uses Weld base LSWB10 and J-Bolt assembly SFA150J6

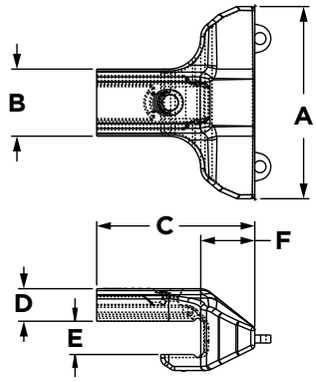
WS165L (LH Shown)
WS165R (RH Opposite)
Lower Wing Shroud
415.0 lb / 188.2 kg



Uses Weld base LSWB10 and J-Bolt assembly SFA150J6 for ESCO Loadmaster® 204" Lip

Note: Measurements are in inches.

J-BOLT WING (VERTICAL) SHROUDS
Specialized Wear Protection



J-BOLT WING (VERTICAL) SHROUDS FOR LOADERS, EXCAVATORS & FACE SHOVELS														
Part No.	Dimensions												Weight	
	A		B		C		D		E		F			
	“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg
WS200-2000J	19.0	483	5.0	127	11.5	292	2.4	60	2.1	52	3.0	76	65.0	29.5
WS275-3100J	31.5	800	8.4	213	17.0	432	4.1	103	2.8	72	4.0	102	262.0	118.8
WS300-2100J	21.0	533	6.5	165	13.0	330	3.1	79	3.25	83	3.5	89	138.0	62.6
WS300-2150J	21.5	546	6.5	165	13.5	343	3.1	79	3.2	81	4.0	102	140.0	63.5
WS300-2200J	22.0	559	8.4	213	17.0	432	4.1	103	3.2	82	4.0	102	203.0	92.1
WS350-3350J	33.5	851	8.4	213	18.0	457	4.1	103	3.6	92	5.0	127	307.0	139.3
WS400-2400J	24.0	610	8.4	213	19.75	502	4.1	103	4.2	106	6.75	171	340.0	154.2
WS475-3000J	30.5	775	10.5	267	19.0	483	4.5	114	4.9	123	7.0	178	418.0	189.6
WS550-3200J	32.5	826	10.5	267	19.0	483	4.5	114	5.7	144	7.0	178	520.0	235.9

J-BOLT STYLE WING SHROUDS									
Cheek Thickness	2.0″	2.75″	3.00″	3.5″	4.0″	4.75″	5.50″	face shovel 135mm	face shovel 165mm
J-bolt Shroud	WS200-2000J	WS275-3100J	WS300-2150J	WS350-3350J	WS400-2400J	WS475-3000J	WS550-3200J	WS135R	WS165R
	-	-	WS300-2100J	-	-	-	-	WS135L	WS165R
	-	-	WS300-2200J	-	-	-	-	-	-
Weld-on Base	LSWB3	LSWB6	LSWB8 (STD)	LSWB6	LSWB6	LSWB9 (STD)	LSWB9 (STD)	LSWB10	LSWB10
	-	-	LSWB6*	-	-	LSWB13**	LSWB13**	-	-
J-bolt Assembly	SFA34J4	SFA125J6	SFA1J4	SFA125J6	SFA125J6	SFA150J6	SFA150J6	SFA150J6	SFA150J6
	-	-	SFA125J6	-	-	-	-	-	-

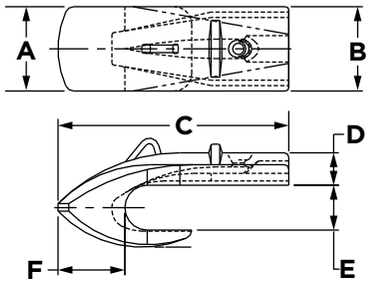
Note:
WS300-2150J uses LSWB8 & SFA1J4
WS300-2100J uses LSWB8 & SFA1J4
*WS300-2200J uses LSWB6 & SFA125J6 for PC3000 F/S and PC4000 B/H

Note:
WS135R & WS135L and
WS165R & 165L are used on cast lips.

**Optional base when used on ESCO cast lips

Note: Measurements are in inches.

HAMMERLESS J-BOLT LIP SHROUDS FOR DIPPERS
Specialized Wear Protection

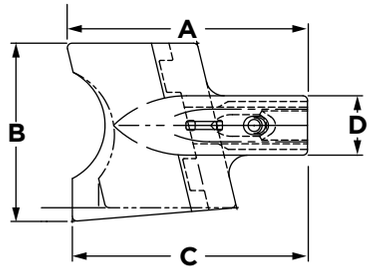


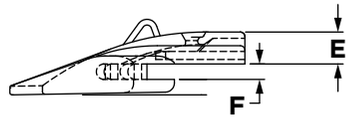
J-BOLT LIP SHROUDS FOR DIPPERS

Lip System	Part No.	Dimensions												Weight		Base (type)	J-Bolt
		A		B		C		D		E		F					
		“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg		
WH-8	LS650J	6.5	165	6.5	165	25.0	635	3.5	89	5.1	128	6.0	152	115.0	52.2	LSWB-1 (weld-on)	SFA118J
WH-8	LS950J	9.5	241	6.5	165	25.0	635	3.75	95	5.1	129	6.0	152	150.0	68.1	LSWB-1 (weld-on)	SFA118J
WH-10	LS800J	8.0	203	8.0	203	26.75	679	4.0	102	5.2	132	7.75	170	210.0	95.3	LSWB-5 (weld-on)	SFA118J
WH-10	LS975J	9.75	248	9.75	248	26.75	679	3.75	95	5.2	132	7.75	170	255.0	115.8	LSWB-2 (weld-on)	SFA118J
WH-10	LS1500J-KUCC	15.0	381	9.75	248	26.75	679	3.5	89	5.2	132	7.75	170	300.0	136.2	LSWB-2 (weld-on)	SFA118J
BI495 WH-12	LS1075J	10.75	273	8.0	203	29.1	738	4.0	102	6.3	160	7.25	184	344.0	156.2	LSB-1 (weldless)	SFA1J5
BI495 WH-12	LS1250J	12.5	318	8.0	203	32.0	813	4.0	102	6.4	162	7.25	184	359.0	162.8	LSB-1 (weldless)	SFA1J5
Berkeley	LSB950J (for Berkeley Lips)	10.0	254	6.5	165	25.25	641	3.75	95	6.4	162	7.25	184	196.8	89.3	LSB-1 (weldless)	SFA1J5
P&H 2800 WH-10	LS1100J	11.0	279	8.0	203	29.4	748	3.75	95	5.2	132	6.5	165	250.0	113.5	LSB-2 (weldless) LSWB-5 (weld-on)	SFA118J SFA118J5
P&H 4100 WH-12	LS1400J	14.0	356	8.0	203	23.0	584	3.75	95	6.3	160	6.5	165	410.0	186.1	LSB-3 (weldless) LSWB-3 (weld-on)	SFA1J5 SFA118J5
	LS1100J12*	11.0	279	9.5	241	26.0	660	3.75	95	6.3	160	6.5	165	328.0	148.8	LSB-4	SFA1J5

* Used on oil sands dippers only.

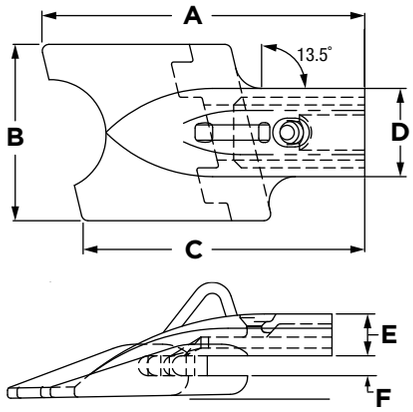
J-BOLT SHROUDS FOR LHDS
Specialized Wear Protection





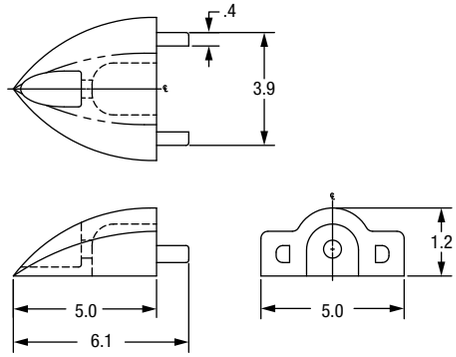
LHD CORNER LIP SHROUDS

Lip Thickness		Part No.	Dimensions												Weight		Weld Base	J-Bolt
			A		B		C		D		E		F					
“	mm		“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg		
1.0	25	LS1400JLC LS1400JRC	18.9	479	15.5	394	18.9	479	5.0	127	2.4	60	1.1	29	99.0	44.9	LSWB3	SFA34J2
1.5	38	LS1800JLC LS1800JRC	26.25	667	19.5	495	25.75	654	6.5	165	3.5	89	1.7	43	235.0	106.7	LSWB1	SFA1J3
1.5	38	LS1900JLC LS1900JRC	26.5	673	20.5	521	26.5	673	6.5	165	3.5	89	1.7	43	245.0	111.2	LSWB1	SFA1J3



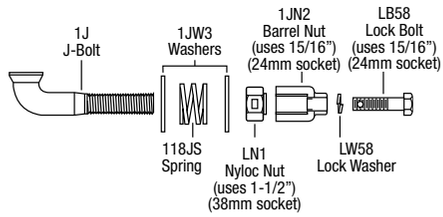
SHROUD CAP

LSCAP3
3.8 lb / 5.1 kg



J-BOLT ASSEMBLIES

SFA1J3
3.8 lb / 1.7 kg

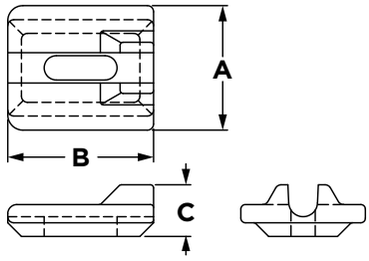


J-BOLT LHD LIP SHROUDS

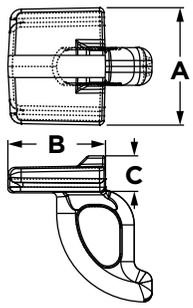
Lip Thickness		Part No.	Dimensions												Weight		Weld Base	J-Bolt
			A		B		C		D		E		F					
“	mm		“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg		
1.0	25	LS1000JL LS1000JR	18.4	467	10.0	254	16.0	406	5.0	127	2.4	60	1.1	29	60.0	27.2	LSWB3	SFA34J2
1.0	25	LS1200JL LS1200JR	18.5	471	12.0	305	15.75	400	5.0	127	2.4	60	1.1	29	68.0	30.9	LSWB3	SFA34J2
1.0	25	LS1400JL LS1400JR	18.9	479	14.0	356	15.5	394	5.0	127	2.4	60	1.1	29	80.0	36.3	LSWB3	SFA34J2
1.5	38	LS1500JL LS1500JR	26.1	662	15.0	381	22.4	570	6.5	165	3.5	89	1.7	43	175.0	79.4	LSWB1	SFA1J3
1.5	38	LS1800JL LS1800JR	26.4	671	18.0	457	22.1	562	6.5	165	3.5	89	1.7	43	200.0	90.8	LSWB1	SFA1J3
1.5	38	LS1900JL LS1900JR	26.6	675	19.0	483	22.0	559	6.5	165	3.5	89	1.7	43	210.0	95.3	LSWB1	SFA1J3

Note: Measurements are in inches.

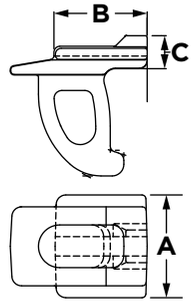
J-BOLT BASES FOR SHROUDS
Specialized Wear Protection



J-BOLT BASES								
Part No.	Dimensions						Weight	
	A		B		C			
	“	mm	“	mm	“	mm	lb	kg
LSWB-1	5.1	130	6.0	152	2.1	54	8.5	3.9
LSWB-2	8.4	213	6.0	152	2.4	62	19.0	8.6
LSWB-3	3.9	98	4.5	114	1.4	36	3.2	1.5
LSWB-4	4.4	111	6.0	152	2.4	62	9.0	4.1
LSWB-5	6.6	168	6.0	152	2.4	62	15.0	6.8
LSWB-6	6.6	168	6.75	171	2.75	70	13.5	6.1
LSWB-7	4.4	111	4.5	114	1.9	48	5.0	2.3
LSWB-8	5.1	130	5.25	133	1.9	48	6.5	2.9
LSWB-9	8.5	216	9.0	229	3.0	76	27.5	12.5
LSWB-10	5.6	143	9.0	229	3.0	76	15.0	6.8



Type 1



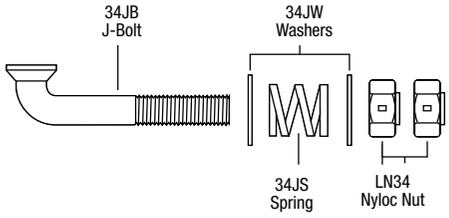
Type 2

WELDLESS J-BOLT BASES									
Part No.	Type	Dimensions						Weight	
		A		B		C			
		“	mm	“	mm	“	mm	lb	kg
LSB-1	1	6.6	168	5.5	168	2.0	51	25	11.3
LSB-2	1	6.6	168	5.6	143	2.3	59	24	10.9
LSB-3	2	6.6	168	6.0	152	2.5	63	35	15.9
LSB-4	1	6.6	168	6.2	157	2.2	55	31	14.1

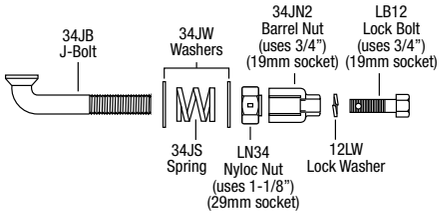
J-BOLT ASSEMBLIES
Specialized Wear Protection

J-BOLT ASSEMBLIES

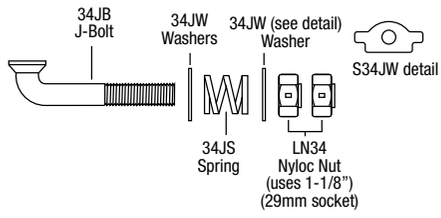
SFA34J
1.4 lb / 0.6 kg



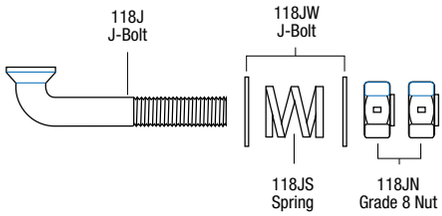
SFA34J2
2.2 lb / 1.0 kg



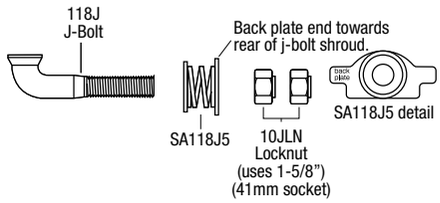
SFA34J4
2.2 lb / 1.0 kg



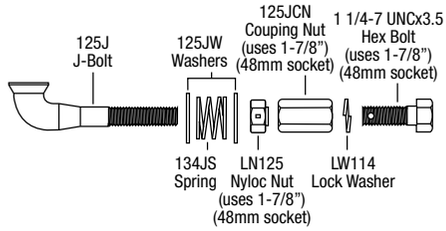
SFA118J
3.7 lb / 1.7 kg



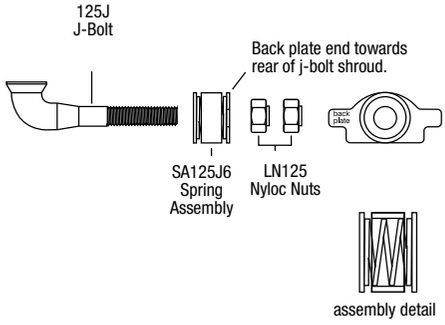
SFA118J5
4.7 lb / 2.1 kg



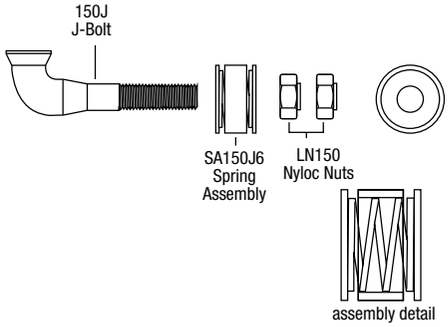
SFA125J2
9.5 lb / 4.3 kg



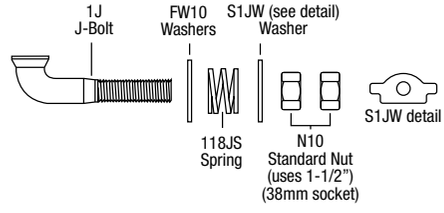
SFA125J6
8.0 lb / 3.6 kg



SFA150J6
11.9 lb / 5.4 kg



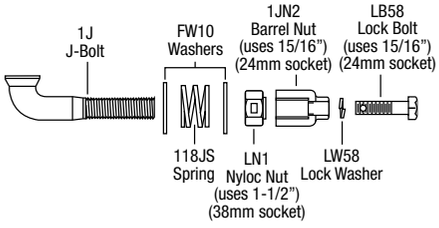
SFA1J
3.2 lb / 1.5 kg



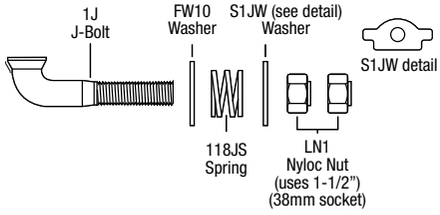
J-BOLT ASSEMBLIES
Specialized Wear Protection

J-BOLT ASSEMBLIES

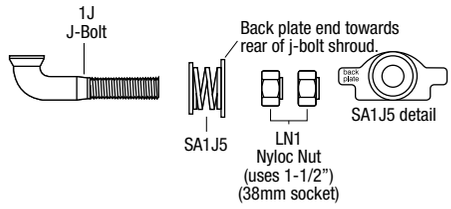
SFA1J2
3.7 lb / 1.7 kg



SFA1J4
3.4 lb / 1.5 kg



SFA1J5
3.3 lb / 1.5 kg

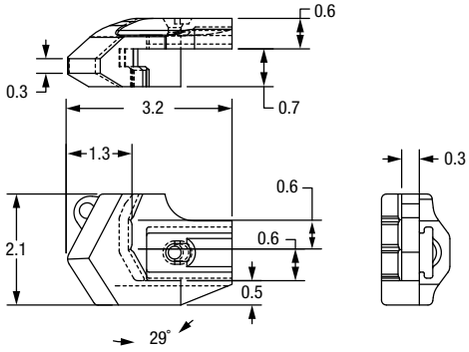


Note: Measurements are in inches.

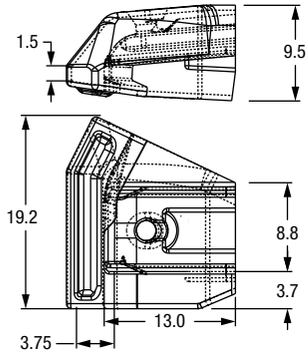
WEAR PROTECTORS FOR LOADERS
Specialized Wear Protection

WEAR PROTECTORS FOR BERKELEY TLC LOADER LIPS

B397WRR (RH shown)
B397WRL (LH opposite)
132.0 lb / 59.9 kg
LSWB8 weld base
SFA1J4 j-bolt assembly
Also required:
1 ea. per side FL397WR front locator



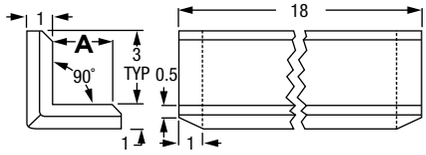
B5461RHX (RH shown)
B5461LHX (LH opposite)
308.0 lb / 139.7 kg
LSWB9 weld base
SFA150J6 j-bolt assembly
Lower Base Plates also required on new installation:
B54561RLP (LH)
B54561RRP (RH)



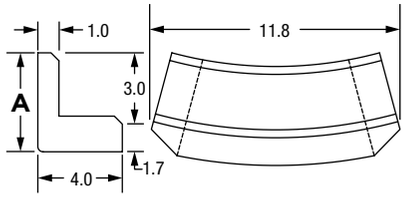
Note: Measurements are in inches.

WEAR PROTECTORS
Specialized Wear Protection

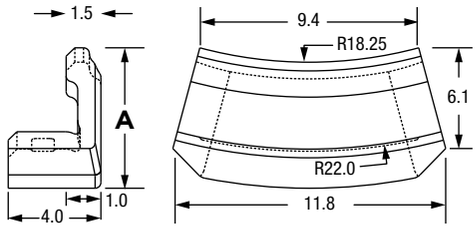
ST001



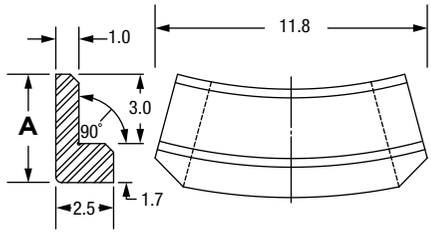
ST002



ST002AT

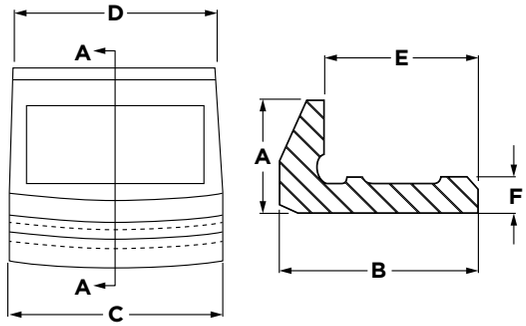


ST003



LOADERS AND LHD SCOOP TRAM BUCKETS					
Wear Edge*	**Type**	**Dimensions**		**Weight**	
		A			
		“	**mm**	**lb**	**kg**
ST001	Straight	3.0	76	35.0	15.9
ST002	Curved	3.0	76	30.0	13.6
ST002AT	Curved	6.1	154	33.1	15.0
ST003	Curved	1.5	38	21.5	9.7

*Wear Edges can be trimmed to fit.



EXCAVATOR AND FACE SHOVELS															
Machine Size	**Part No.**	**Dimensions**												**Weight**	
		A		**B**		**C**		**D**		**E**		**F**			
		“	**mm**	**“**	**mm**	**“**	**mm**	**“**	**mm**	**“**	**mm**	**“**	**mm**	**lb**	**kg**
20 - 40 ton	ES6697-4HX	4.0	100	7.0	175	7.5	188	7.0	178	5.5	135	1.25	32	22.0	10.0
40 - 80 ton	ES6697-3HX	4.0	100	8.0	200	7.5	188	7.0	178	6.0	150	1.5	38	30.0	13.0
80 - 180 ton	1386551MHX	6.75	171	8.75	222	8.0	203	5.0	127	7.0	178	1.75	44	37.0	16.8
80 - 180 ton	ES6697-2HX	6.0	150	10.0	250	7.5	188	6.5	166	8.0	200	2.0	50	45.0	20.0
180 - 400 ton	ES6697-5HX	8.0	200	12.0	300	10.0	250	8.75	220	9.25	235	2.0	50	85.0	38.0
400 ton +	ES6697-7HX	9.9	252	14.0	357	9.9	252	8.4	214	9.3	237	3.9	100	187.0	84.8

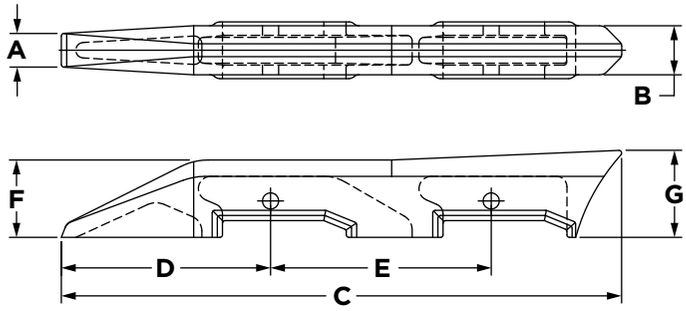
Note: Measurements are in inches.

VERTICAL CHEEK PLATE
Specialized Wear Protection

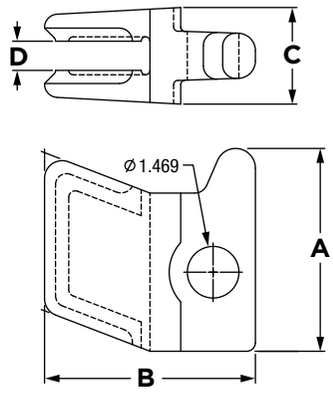
VERTICAL WEAR SHROUDS FOR EXCAVATORS, LOADERS AND FRONT SHOVELS						
Vertical Shroud	**Machine**			**Wrap Around Weldment**	**Fastener (Rubber Plug & Pin)**	**Internal or Flush Mount Weldments**
	Exc./F. Shovel Weight		**Loader Cu. Yd.**	**Upper / Lower**	**Upper / Lower**	**Upper / Lower**
	lb	**kg**				
VS385	up to 60,000	up to 27,216	up to 6	VSM100WN*	EMI-004, EMP-003	VSM100INT*
					VSP2-SL,VSR3-SL	VSM100INT*
VS450	70,000 - 150,000	31,751 - 68,039	6 - 8	VSM100WN*	EMI-004, EMP-003	VSM100INT*
					VSP2-SL,VSR3-SL	VSM100INT*
VS500	175,000 - 350,000	79,739 - 158,757	9 - 15	VSM150WN*	VSR3, VSP3	VSM150INT*
					VSP2-SL,VSR3-SL	VSM150INT*
VS550	200,000 - 400,000	90,718 - 181,437	15 - 25	VSM200WN*	VSR3, VSP3	VSM200INT
					VSP2-SL,VSR3-SL	VSM200INT

*OPTIONAL WELDMENTS			
Cheek Plate Thickness		**Wrap-around**	**Internal**
“	**mm**		
0.75	20	VSM75WN	N/A
1.0	25	VSM100WN	VSM100INT
1.5	40	VSM150WN	VSM150INT
2.0	50	VSM200WN	VSM200INT
2.5	60	VSM250WN	N/A

VERTICAL SHROUDS AND WELDMENTS
Specialized Wear Protection

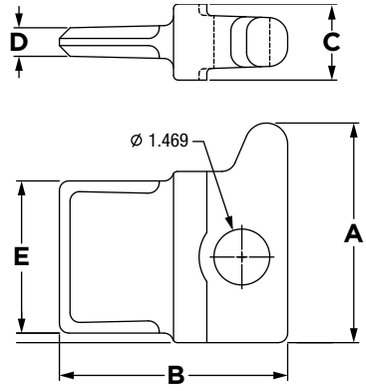


VERTICAL SHROUDS																
Part No.	Dimensions														Weight	
	A		B		C		D		E		F		G			
	“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg
VS385	1.6	41	2.4	73	27.1	689	10.1	257	10.7	271	3.75	95	4.2	107	32.8	14.9
VS410	1.6	41	2.9	73	27.25	692	9.0	229	-	-	2.5	64	4.25	108	29.0	13.2
VS450	1.7	43	2.6	67	30.3	771	10.1	257	13.5	343	3.75	95	4.6	117	42.5	19.3
VS500	2.5	64	3.4	87	32.9	835	10.1	257	16.0	406	3.7	93	4.6	117	66.0	30.0
VS550	2.5	64	4.0	102	35.75	908	10.75	273	17.1	435	4.0	102	5.0	127	86.0	39.0

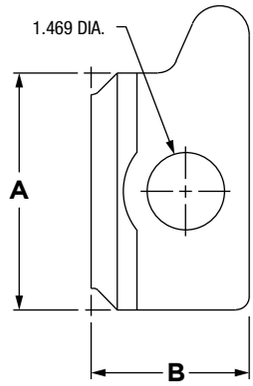


UPPER AND LOWER WRAP-AROUND WELDMENTS FOR VS385, VS450, VS500, AND VS550										
Part No.	Dimensions								Weight	
	A		B		C		D			
	“	mm	“	mm	“	mm	“	mm	lb	kg
VSM75WN	5.8	147	6.0	152	2.75	70	0.8	20	10.7	4.9
VSM100WN	5.75	146	6.0	152	2.75	70	1.1	27	10.9	4.9
VSM150WN	5.75	146	6.0	152	3.4	87	1.6	40	12.3	5.6
VSM175WN	5.75	146	6.0	152	3.4	87	1.8	47	12.5	5.7
VSM200WN	5.75	146	6.0	152	3.4	87	2.1	52	11.9	5.4
VSM250WN	5.75	146	6.25	159	3.9	100	2.6	65	11.6	5.3

UPPER AND LOWER WELDMENTS
Specialized Wear Protection

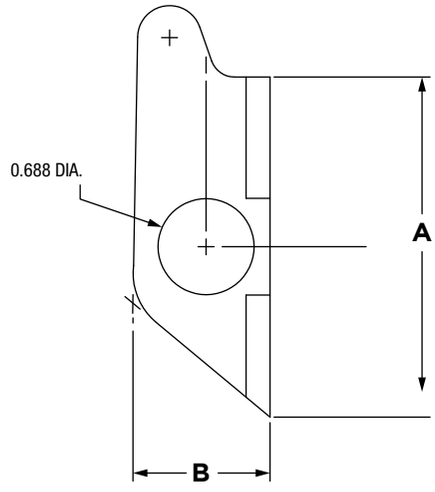


UPPER AND LOWER INTERNAL WELDMENTS FOR VS385, VS450, VS500, AND VS550												
Part No.	Dimensions										Weight	
	A		B		C		D		E			
	“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg
VSM100INT	5.75	146	6.0	152	2.0	51	1.0	25	4.0	102	8.5	3.9
VSM150INT	5.75	146	6.0	152	2.5	63	1.5	38	4.0	102	10.3	4.7
VSM200INT	5.75	146	6.0	152	3.0	76	2.0	51	4.0	102	11.5	5.2

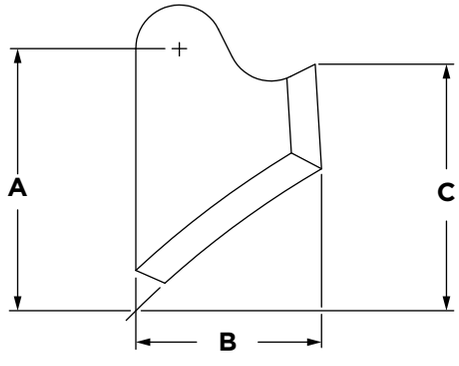


UPPER AND LOWER FLUSH MOUNT WELDMENT FOR VS385, VS450, VS500 AND VS550						
Part No.	Dimensions				Weight	
	A		B			
	“	mm	“	mm	lb	kg
VSMWN	4.5	114	3.0	76	6.0	4.9

UPPER AND LOWER FLUSH MOUNT WELDMENTS
Specialized Wear Protection



UPPER FLUSH MOUNT WELDMENTS FOR VS410						
Part No.	Dimensions				Weight	
	A		B			
	“	mm	“	mm	lb	kg
VS410WNB	5.3	135	2.1	54	2.9	1.3

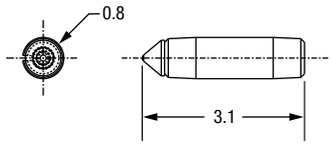


LOWER FLUSH MOUNT WELDMENTS FOR VS410								
Part No.	Dimensions						Weight	
	A		B		C			
	“	mm	“	mm	“	mm	lb	kg
VS410WNA	3.0	76	2.4	61	2.0	51	3.0	1.4

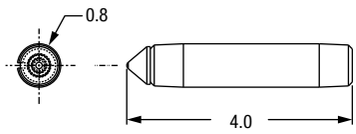
FASTENERS & EXTENSION
Specialized Wear Protection

FASTENERS

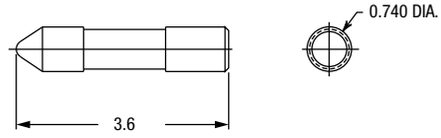
VSP2SL
Pin
0.3 lb / 0.1 kg



VSP3SL
Pin
0.4 / 0.2 kg

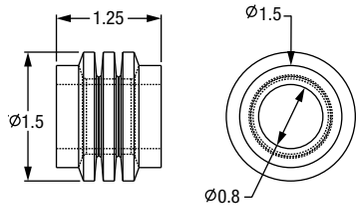


VSP3
Pin
0.4 lb / 0.2 kg



Used with: VS410, VS181 upper, VS385 upper/lower, VS450 upper/lower

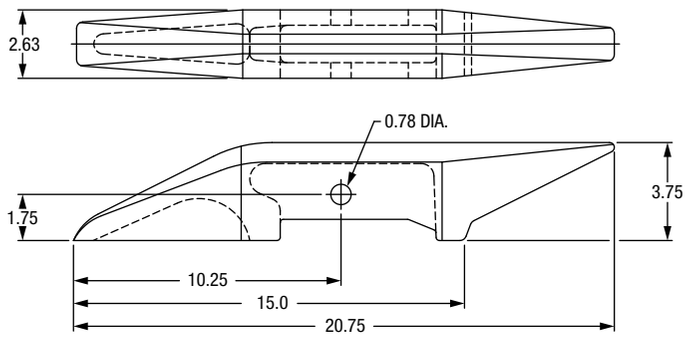
VSR3SL
Rubber Bushing
0.3 lb / 0.1 kg



Used with: VS500 upper/lower, VS550 upper/lower

VERTICAL SHROUD EXTENSION

VS450EXT
24.3 lb / 11.0 kg



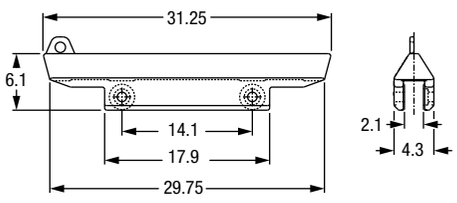
Note: The VS450EXT can be used to extend the VS385, VS480 and VS500 shrouds. Multiple extensions can be "stacked" in order to offer additional protection.

Note: Measurements are in inches.

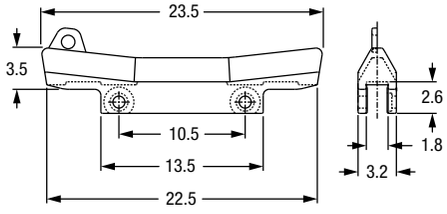
VERTICAL EDGE PROTECTORS
Esco Style Miscellaneous Wear Parts

VERTICAL EDGE PROTECTORS

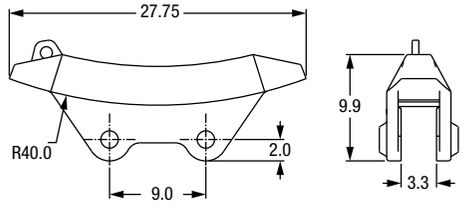
ES4410HX
103.5 lb / 46.9 kg
Fastener: (2) PDB31183#2HX (pin)
(2) 120KLKSRR (snap ring)



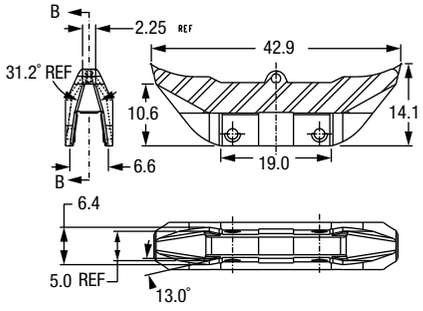
ES5280HX
44.5 lb / 20.2 kg
Fastener: (2) PDB31183#2HX (pin)
(2) 120KLKSRR (snap ring)



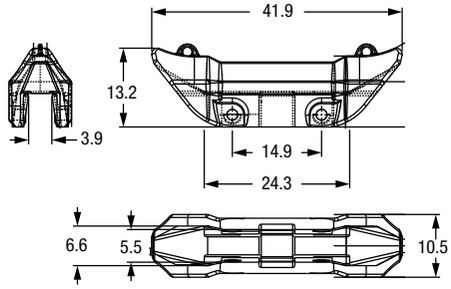
ES6553HX
146.0 lb / 66.2 kg
Fastener: (2) PDB31183#2HX (pin)
(2) 120KLKSRR (snap ring)



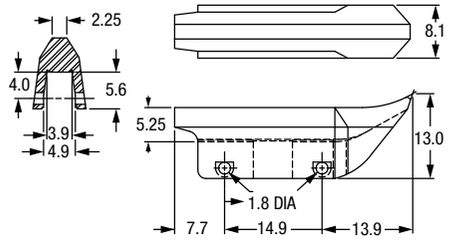
PDE437232HX
440.0 lb / 199.6 kg
Fastener: (2) PDB31183#2HX (pin)
Optional Pin: (2) PDB31183#2LXH (pin, Long)
(2) 120KLKSRR (snap ring)



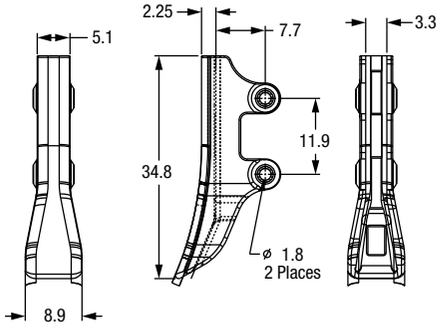
PDE437233HX
505.0 lb / 229.1 kg
Fastener: (2) PDB31183#2HX (pin)
Optional Pin: (2) PDB31183#2LXH (pin, Long)
(2) 120KLKSRR (snap ring)



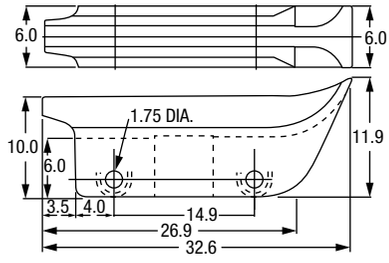
PDE43723HX
338.0 lb / 153.3 kg
Fastener: (2) PDB31183#2HX (pin)
Optional Pin: (2) PDB31183#2LXH (pin, Long)
(2) 120KLKSRR (snap ring)



PDE52445HX
240.0 lb / 108.9 kg
Fastener: (2) PDB31183#3HX (pin)
(2) 120KLKSRR (snap ring)



PDE34295HX
217.0 lb / 98.5 kg
Fastener: (2) PDB31183#2HX (pin)
(2) 120KLKSRR (snap ring

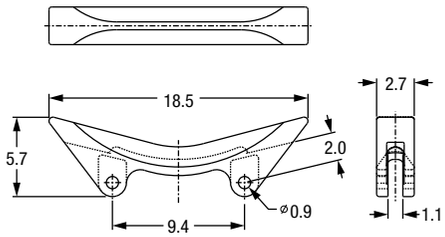


Note: Measurements are in inches.

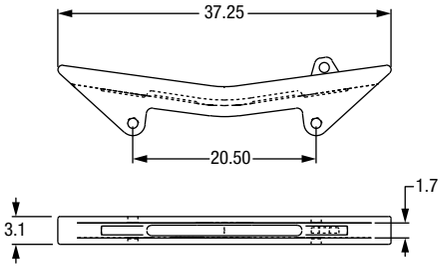
MISCELLANEOUS VERTICAL SHROUDS
Specialized Wear Protection

CATERPILLAR STYLE VERTICAL SHROUDS

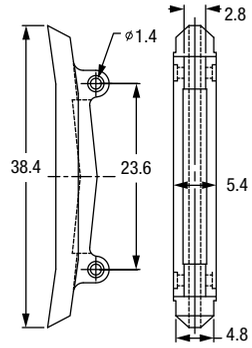
135-8246HX
22.4 lbs / 10.2 kg
used on Cat 966 - 980 loaders
fasteners 1359292P (2), 6Y9459W (2)



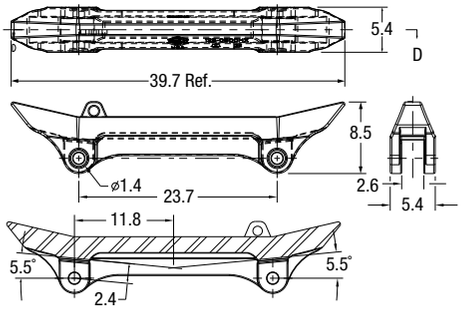
112-2494HX
83.0 lb / 37.7 kg
used on Cat 375 excavator
fasteners 132-1008P (2), 132-0999W (2)



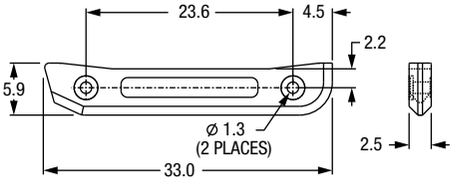
8E3814HX
145.0 lb / 65.8 kg
Fastens with (2) 8E4708P (pin)
& (2) 4T4707W (washer)



125-0800HX
117.0 lb / 53.1 kg

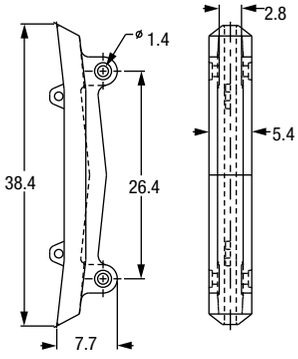


135-9794HX
103.0 lb / 46.8 kg
base for 125-00800HX
Fastener: (2) 8E4708P (pin)
(2) 4T4707W (washer)



KOMATSU STYLE VERTICAL SHROUDS

K3814 (PC1800)
149.0 lb / 67.6 kg
Fastener: (2) 8E4708P (pin)
(2) 4T4707W (washer)

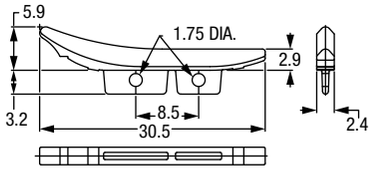


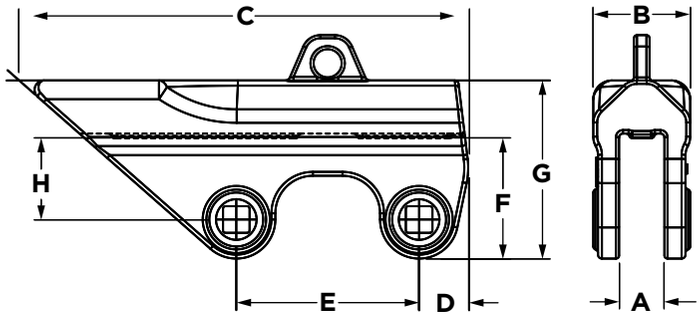
Note: Measurements are in inches.

MISCELLANEOUS VERTICAL SHROUDS
Specialized Wear Protection

HENSLEY WEAR SHROUDS

447AHX
53.2 lb / 24.1 kg
Vertical Wear Shroud
uses shroud base 446447
uses P447A pin & 447AR bushing





RVS SHROUDS

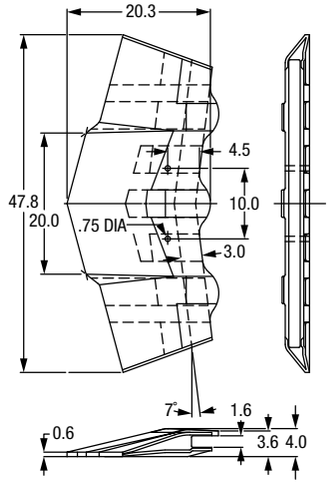
Part No.	Lower Blade Thickness		Dimensions																Plow Bolt Assembly	Weight	
			A		B		C		D		E		F		G		H				
	“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	“	mm		lb	kg
VS25	1	25	1.1	25	2.75	69	13.5	342	1.5	37	5.5	139	3.8	98	5.75	146	2.4	61	AC10312	25.0	11.3
VS30	1.25	30	1.25	33	3.0	76	13.5	342	1.5	38	5.5	139	3.8	98	5.75	146	2.4	61	AC10400	25.0	11.3
VS40	1.5	40	1.6	42	3.6	92	18	457	2.0	50	7.3	185	4.9	124	7.1	180	3.3	84	AC10412	49.7	22.5
VS45	1.75	45	1.75	46	3.9	98	18.0	457	2.0	50	7.3	185	4.8	122	7.1	180	3.25	82	AC10412	55.0	24.9
VS50	2.0	50	2.1	50	4.1	104	22.5	571	2.5	63	9.1	231	6.0	152	8.9	225	4.1	103	AC10500	90.0	40.8
VS65	2.5	65	2.5	65	4.6	119	22.5	571	2.5	63	9.1	231	6.0	152	8.9	225	4.1	103	AC10512	98.0	44.5

Note: Measurements are in inches.

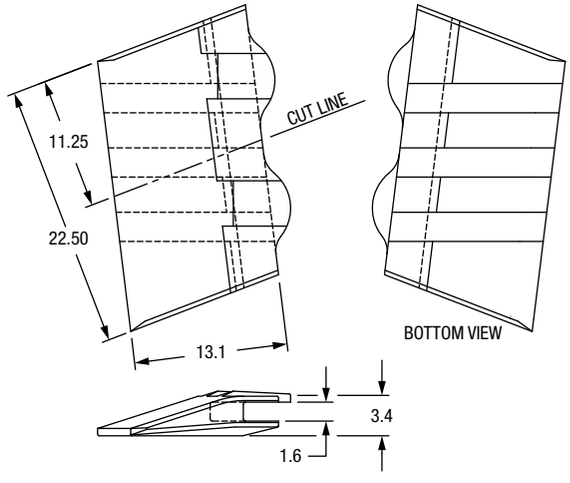
LIP SHROUDS FOR LHD SCOOP TRAM BUCKETS
Specialized Wear Protection

CAST ALLOY LIP SHROUDS FOR LHD SCOOP TRAM BUCKETS

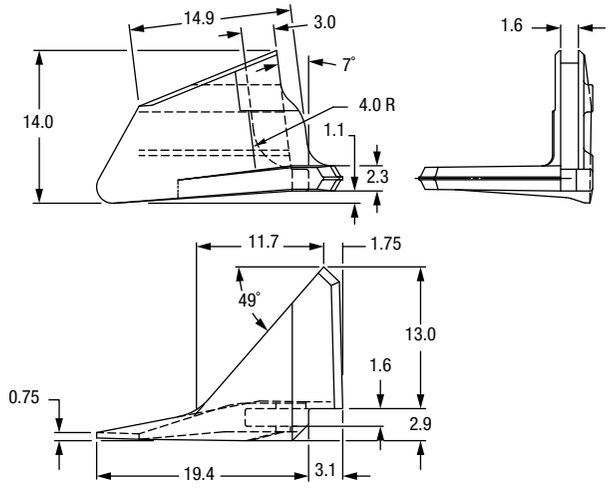
18-7252HX
Center Shroud
370.0 lb / 168.0 kg



18-5370AHX
18-5380AHX
Intermediate Shroud
143.0 lb / 64.9 kg



ET10015LHX (LH Shown)
ET10015RHX (RH Opposite)
Corner Shroud
150.0 lb / 68.1 kg



Note: Measurements are in inches.

LIP SHROUDS FOR LHD SCOOP TRAM BUCKETS
Specialized Wear Protection

CAST ALLOY LIP SHROUDS FOR LHD SCOOP TRAM BUCKETS - WELDING

NOTE: Read all instructions carefully before welding.

The material of the cast lip assembly is Hensley alloy #3, which has been heat-treated to a hardness of approximately 477 Brinell. The alloy is a chrome/moly steel with approximately 0.28% carbon. The material is weldable if the proper precautions are followed.

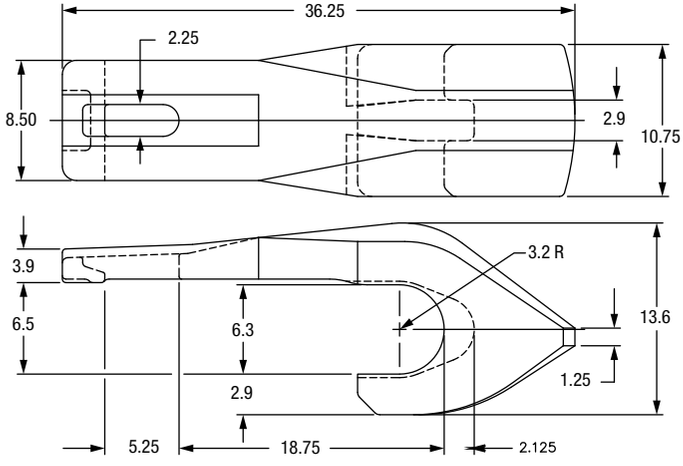
Recommendations:

- Use E7018 low hydrogen rod or E70 wire. Be sure the welding materials are free of moisture.
- Preheat to 350˚ - 500˚ F (175˚ - 257˚ C).
- Interpass temperature should not exceed 500o F (260˚ C).
- Start at the center of the blade and weld toward the edges of the bucket.
- Use 2” (51mm) minimum tack welds on both sides.
- Weld both sides alternately between passes.
- Remove all slag subsequent to weld passes.
- Post-heat the entire assembly uniformly to 350˚ - 400˚ F (176˚ - 204˚C) and cover with a thermal blanket. This serves as stress relief and to temper any martensite that may have formed during cooling from the weld. This is important as the steel contains a significant amount of alloy.

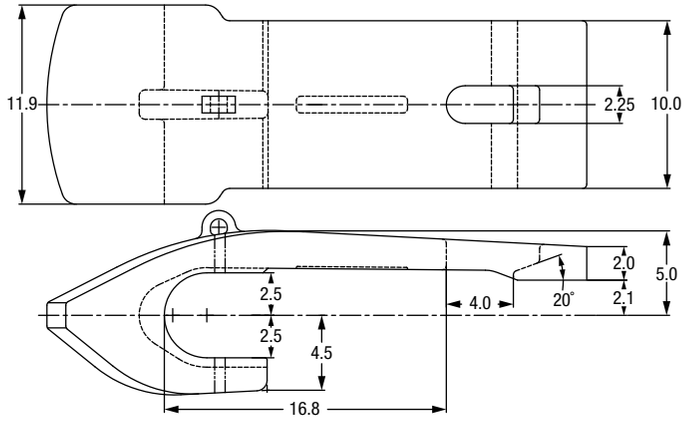
CAT® STYLE REPLACEMENT LIP SHROUDS FOR DIPPERS
Specialized Wear Protection

CATERPILLAR® STYLE LIP SHROUDS

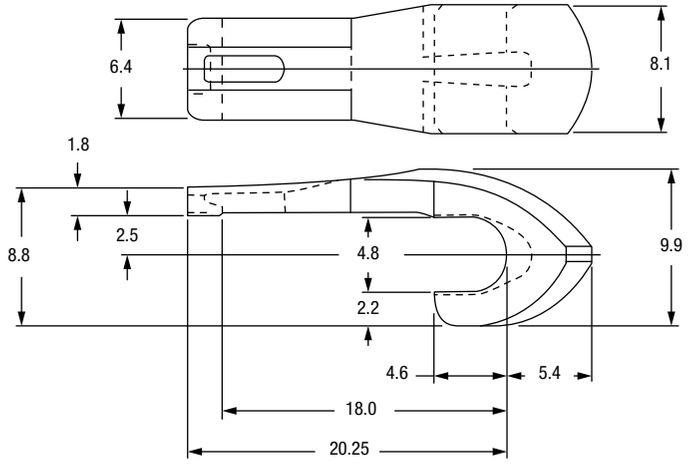
E01400606HX
450.0 lb / 204.1 kg
Used on models 7395 and 7495
Fasteners: C11059202HX (C-Clamp)
C11059102HX (Wedge)



E00840504HX
303.0 lb / 137.4 kg
Used on models 7395 and 7495
Fasteners: C11059202HX (C-Clamp)
C11059102HX (Wedge)



E01400606MHX
406.0 lb / 184.2 kg
Used on models 7395 and 7495
Fasteners: C11059202HX (C-Clamp)
C11059102HX (Wedge)



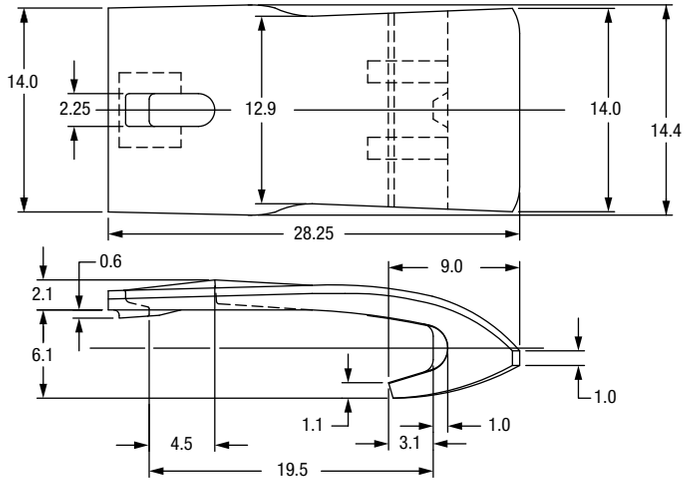
Note: Measurements are in inches.

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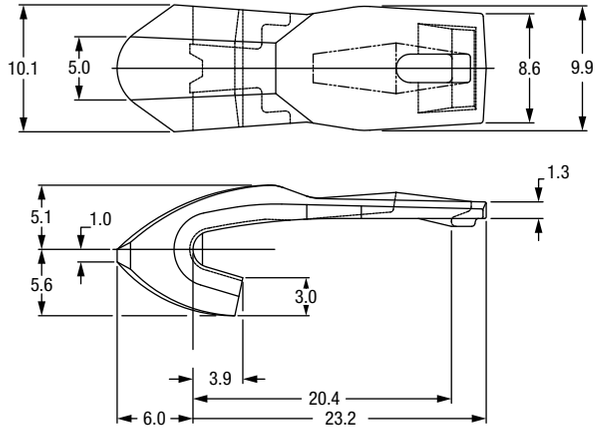
ESCO STYLE REPLACEMENT LIP SHROUDS FOR DIPPERS
Specialized Wear Protection

ESCO STYLE LIP SHROUDS

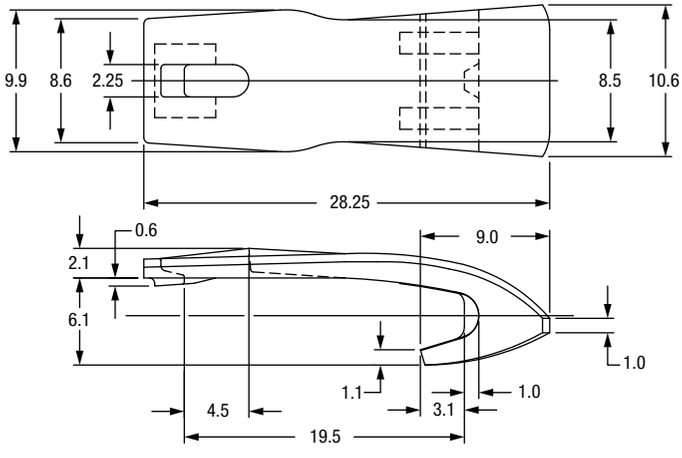
CE251824HX
(WH-8 Size)
264.4 lb / 119.9 kg
Fastener: 419CLTS (C-Clamp)
419WTW (Wedge)
Optional Fastener: R419SP (Spool)
R419EL (Wedge)



CE25183HHX
(HD WH-8 Size)
203.0 lb / 92.1 kg
Fastener: 419CLTS (C-Clamp)
419WTW (Wedge)
Optional Fastener: R419SP (Spool)
R419EL (Wedge)



CE25183HX
(WH-8 Size)
173.0 lb / 78.47 kg
Fastener: 419CLTS (C-Clamp)
419WTW (Wedge)
Optional Fastener: R419SP (Spool)
R419EL (Wedge)

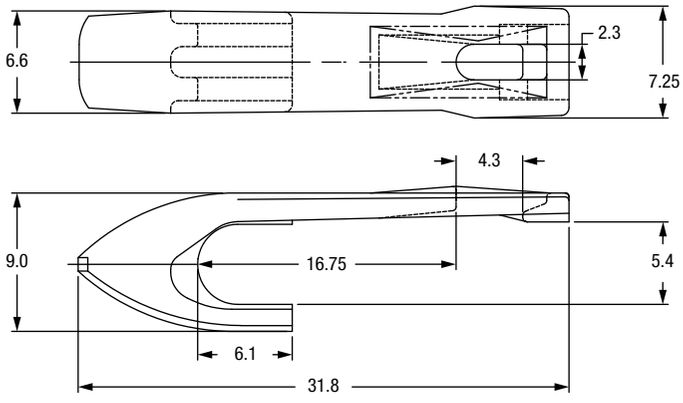


Note: Measurements are in inches.

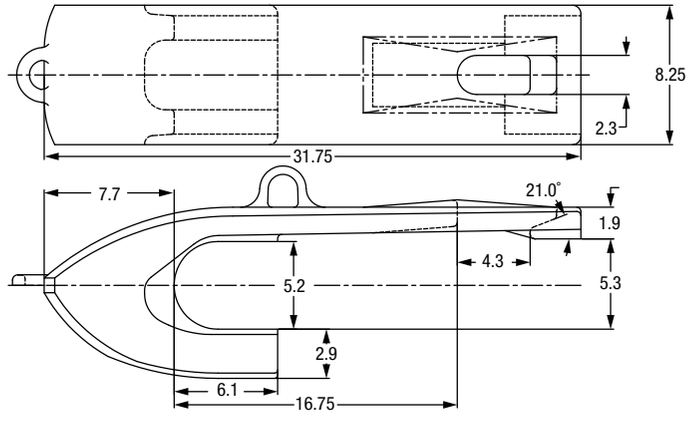
ESCO STYLE REPLACEMENT LIP SHROUDS FOR DIPPERS
Specialized Wear Protection

ESCO STYLE LIP SHROUDS CONTINUED

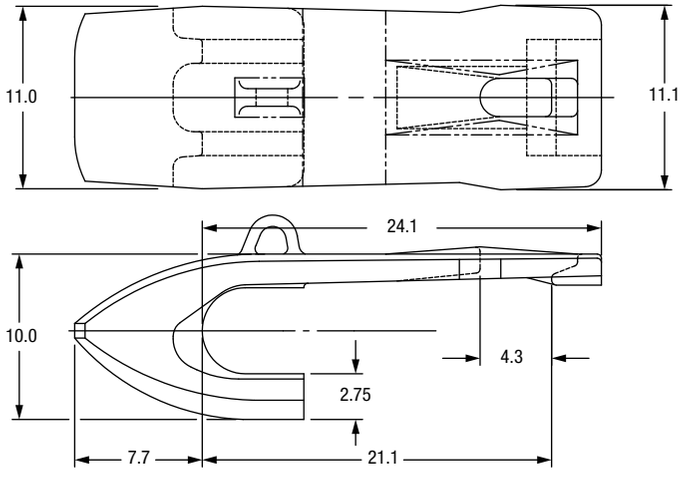
CE257592AHX
(WH-10 Size)
157.0 lb / 71.2 kg
Fastener: 419CLTS (C-Clamp)
419WTW (Wedge)
Optional Fastener: R419SP (Spool)
R419EL (Wedge)



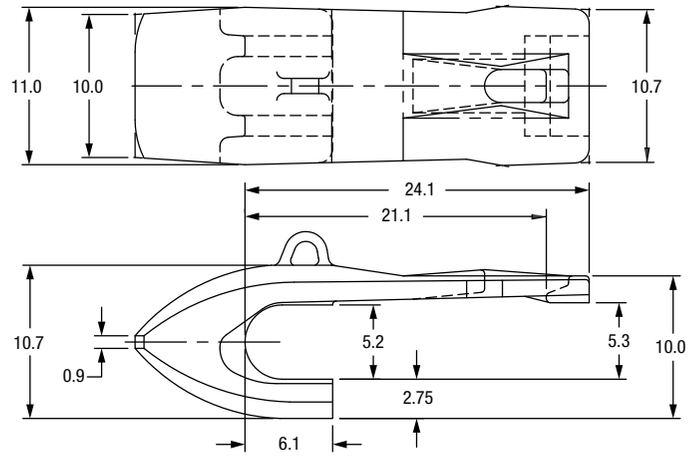
CE257594AHX
(WH-10 Size)
242.5 lb / 110.0 kg
Fastener: 419CLTS (C-Clamp)
419WTW (Wedge)
Optional Fastener: R419SP (Spool)
R419EL (Wedge)



CE25759AHX
(WH-10 Size)
293.0 lb / 132.9 kg
Fastener: 419CLTS (C-Clamp)
419WTW (Wedge)
Optional Fastener: R419SP (Spool)
R419EL (Wedge)



CE25759ASHX
(WH-10 Size)
327.0 lb / 148.3 kg
Fastener: 419CLTS (C-Clamp)
419WTW (Wedge)
Optional Fastener: R419SP (Spool)
R419EL (Wedge)

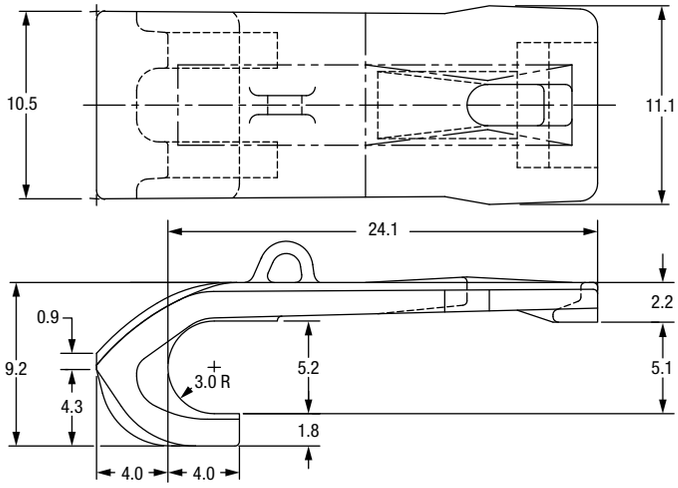


Note: Measurements are in inches.

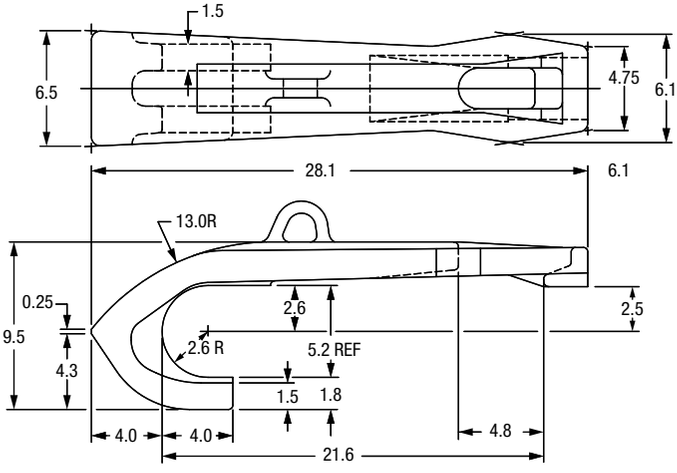
ESCO STYLE REPLACEMENT LIP SHROUDS FOR DIPPERS
Specialized Wear Protection

ESCO STYLE LIP SHROUDS CONTINUED

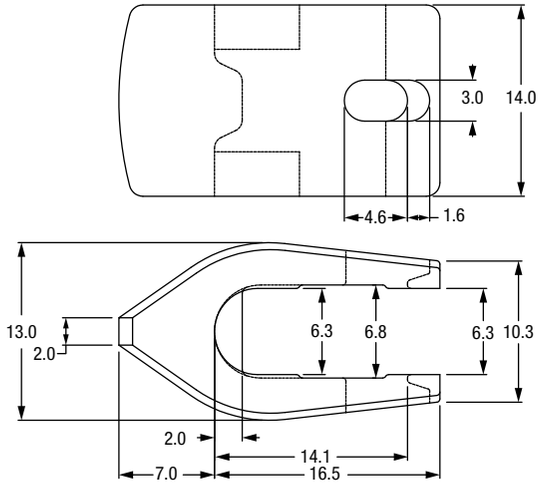
CE25759MHX
(WH-10 Size)
197.0 lb / 89.4 kg
Fastener: 419CLTS (C-Clamp)
419WTW (Wedge)
Optional Fastener: R419SP (Spool)
R419EL (Wedge)



CE25760MHX
(WH-10 Size)
107.0 lb / 48.5 kg
Fastener: 419CLTS (C-Clamp)
419WTW (Wedge)
Optional Fastener: R419SP (Spool)
R419EL (Wedge)



CE25742HX
(WH-12 Size)
502.0 lb / 227.7 kg
Fastener: R4100SP (Spool)
R4100EL (Wedge)
Hammerless Fastener: H4100SP (Spool)
AH4100W (Wedge)

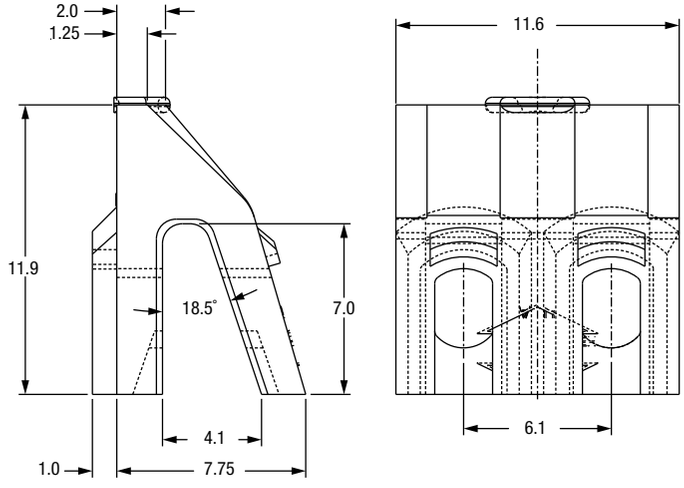


Note: Measurements are in inches.

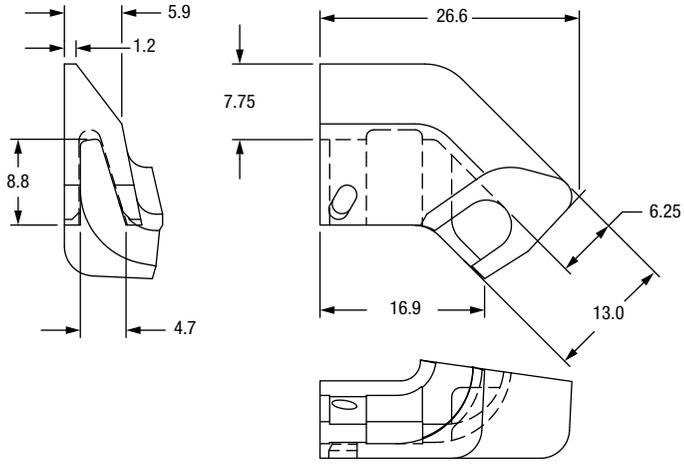
WING SHROUDS FOR DIPPERS
Specialized Wear Protection

AMSCO STYLE REPLACEMENT WING SHROUDS FOR DIPPERS

47846HX
Upper Wing Shroud
127.0 lb / 57.6 kg
(WH-8/10 Size)
Fastener: 289572SP (Spool)
289574W (Wedge)



290237LHX (LH Shown)
290238RHX (RH Opposite)
Lower Wing Shroud
(WH-8/10 Size)
458.0 lb / 207.8 kg
486SPTS (Spool)
485WTW (Wedge)

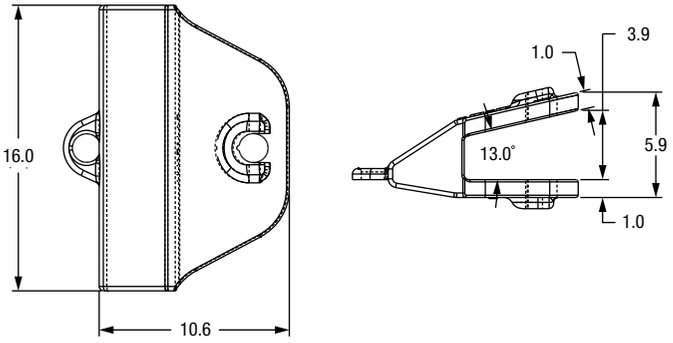


Note: Measurements are in inches.

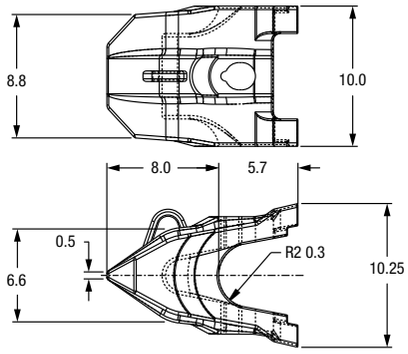
WING SHROUDS FOR DIPPERS
Specialized Wear Protection

BERKELEY STYLE REPLACEMENT WING SHROUDS FOR DIPPERS

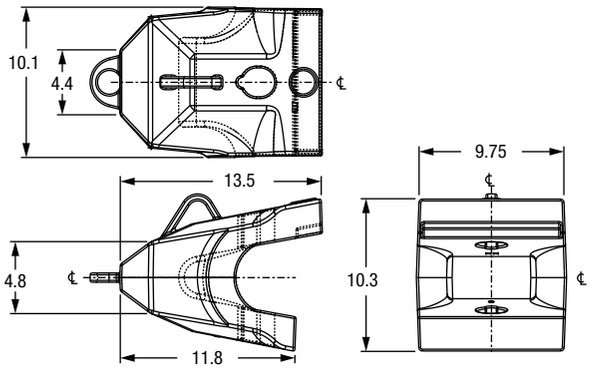
D04958HX
Upper Wing Shroud
105.0 lb / 47.6 kg
Fastener: D05124P



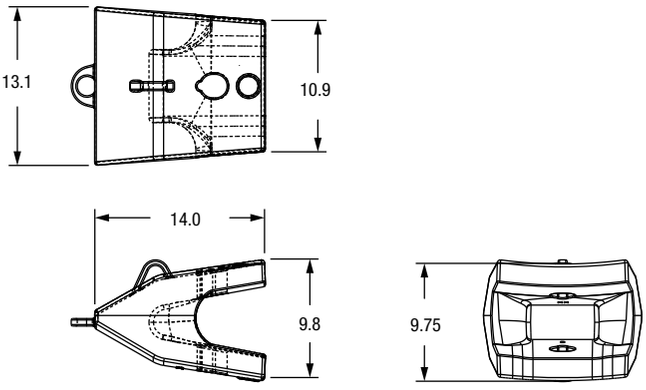
D05111AHX
Wing Shroud
118.0 lb / 53.5 kg
Fastener: D05124P



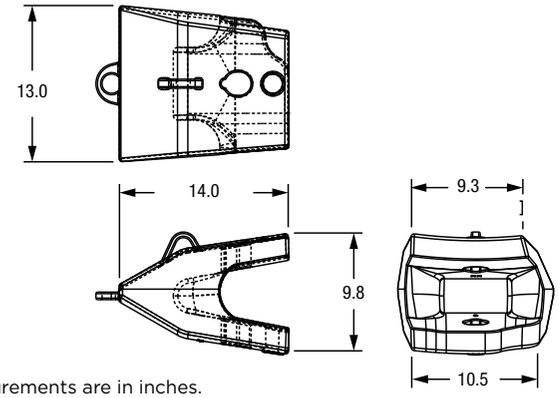
D05111HDHX
Center HD Lip Shroud
153.0 lb / 69.4 kg
Fastener: D05124P



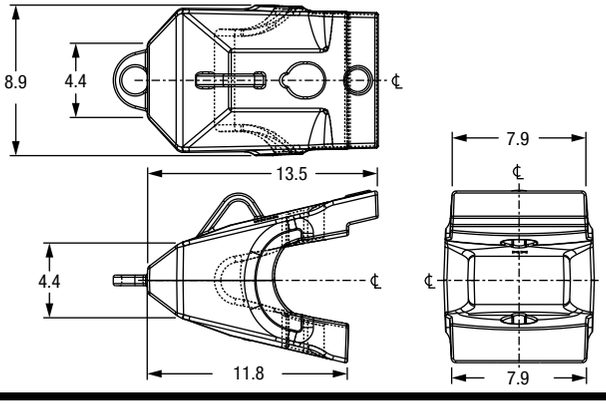
B-06167HX
Mid & Upper Corner
210.0 lb / 95.3 kg
Fastener: D05124P



B-06165LHX (LH Shown)
B-06165RHX (RH Opposite)
Corner Shroud
193.0 lb / 87.5 kg
Fastener: D05124P



D06183HX
Outer Lip Shroud
122.0 lb / 55.3 kg
Fastener: D05124P



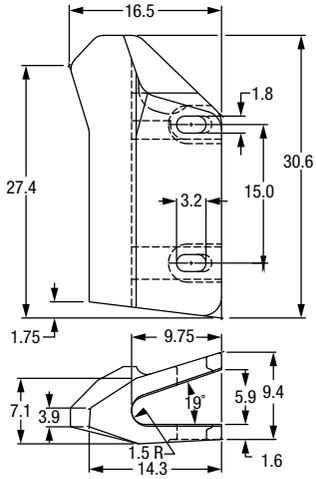
Note: Measurements are in inches.

WING SHROUDS FOR DIPPERS
Specialized Wear Protection

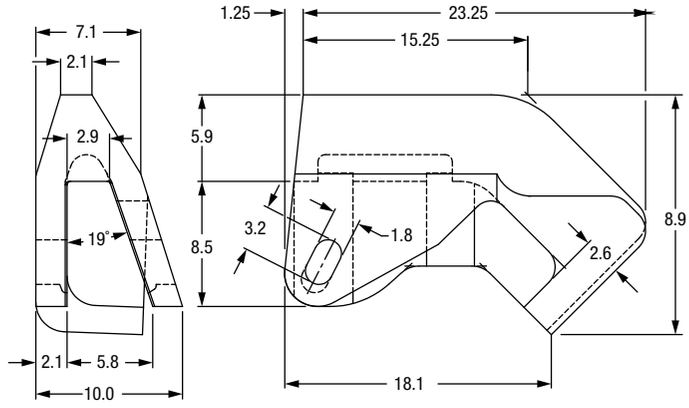
CATERPILLAR® STYLE REPLACEMENT WING SHROUDS FOR DIPPERS

Used on models 7395 & 7495

E01200710RHX (RH Shown)
E01200810LHX (LH Opposite)
Upper Wing Shroud
420.0 lb / 190.5 kg
Hammer Type Fastener:C11053102HX (Spool)
C11053002HX (Wedge)
Hammerless Fastener: AH531SP (Spool)
H530W (Wedge)

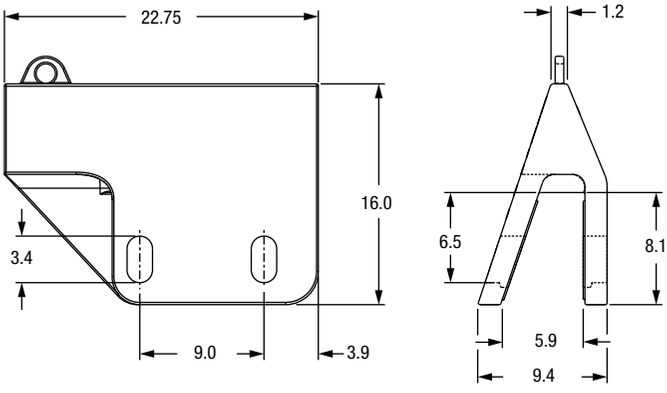


E01401704LHX (LH Shown)
E01401604RHX (RH Opposite)
Lower Wing Shroud
334.0 lb / 151.5 kg
Hammer Type Fastener:C11053102HX (Spool)
C11053002HX (Wedge)
Hammerless Fastener: AH531SP (Spool)
H530W (Wedge)

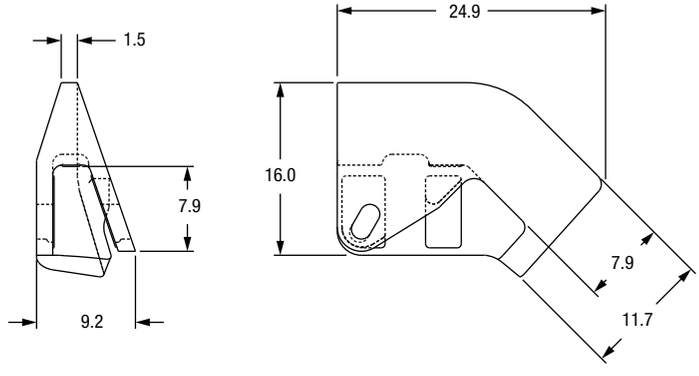


Used on models 7495HR

E02169601HX (RH Opposite)
E02169701HX (LH Shown)
Upper Wing Shroud
309.0 lb / 140.2 kg
Hammer Type Fastener: C11053102HX (Spool)
C11053002HX (Wedge)
Hammerless Fastener: AH531SP (Spool)
H530W (Wedge)



E02169501HX (LH Shown)
E02169401HX (RH Opposite)
Heavy Lower Wing Shroud
310.0 lb / 140.6 kg
Hammer Type Fastener: C11053102HX (Spool)
C11053002HX (Wedge)
Hammerless Fastener: AH531SP (Spool)
H530W (Wedge)



Note: Measurements are in inches.

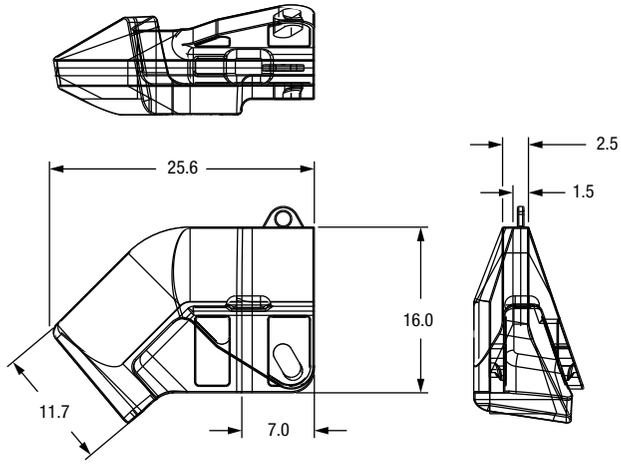
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WING SHROUDS FOR DIPPERS
Specialized Wear Protection

CATERPILLAR® STYLE REPLACEMENT WING SHROUDS FOR DIPPERS

Used on models 7495HR

E02169401SHX (RH Opposite)
E02169501SHX (LH Shown)
Heavy Lower Wing Shroud
419.0 lb / 190.1 kg
Hammer Type Fastener: C11053102HX (Spool)
C11053002HX (Wedge)
Hammerless Fastener: AH531SP (Spool)
H530W (Wedge)



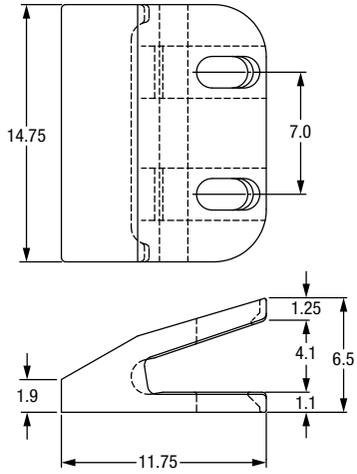
Note: Measurements are in inches.

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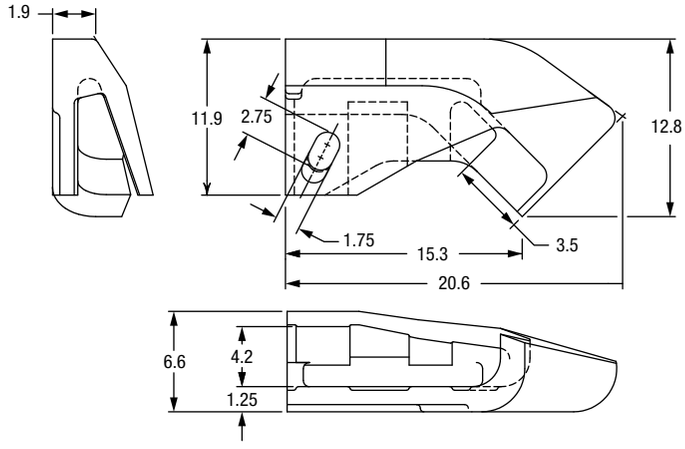
WING SHROUDS FOR DIPPERS
Specialized Wear Protection

ESCO STYLE REPLACEMENT WING SHROUDS FOR DIPPERS

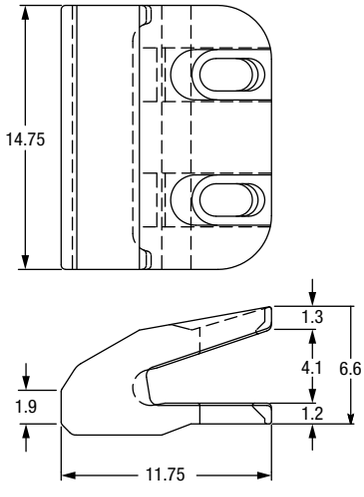
PDE30318HX
Upper Wing Shroud
(WH-8 Size)
116.0 lb / 52.6 kg
Hammer Type Fastener: 488SPTS (Spool)
487WTW (Wedge)
Hammerless Fastener: AH488SP (Spool)
H487W (Wedge)



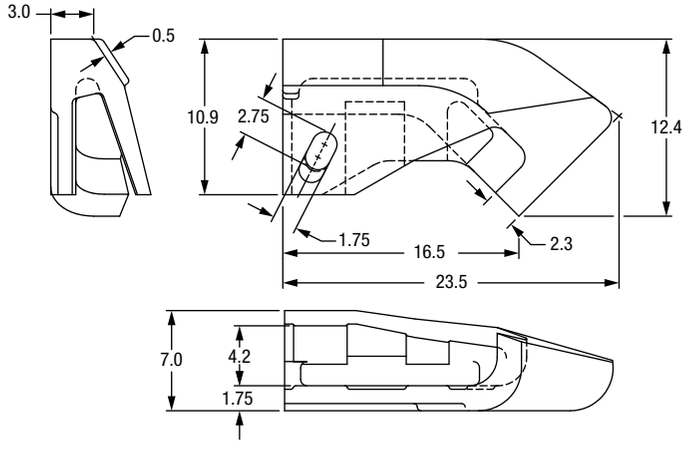
PDE32721LHX (LH Shown)
PDE32721RHX (RH Opposite)
Lower Wing Shroud
(WH-8 Size)
143.0 lb / 64.9 kg
Hammer Type Fastener: 488SPTS (Spool)
487WTW (Wedge)
Hammerless Fastener: AH488SP (Spool)
H487W (Wedge)



PDE30318SHX
Upper Wing Shroud
(WH-8 Size, Heavy Duty)
164.0 lb / 74.4 kg
Hammer Type Fastener: 488SPTS (Spool)
487WTW (Wedge)
Hammerless Fastener: AH488SP (Spool)
H487W (Wedge)



PDE32721LSHX (LH Shown)
PDE32721RSHX (RH Opposite)
Lower Wing Shroud
(WH-8 Size, Heavy Duty)
193.0 lb / 87.5 kg
Hammer Type Fastener: 488SPTS (Spool)
487WTW (Wedge)
Hammerless Fastener: AH488SP (Spool)
H487W (Wedge)

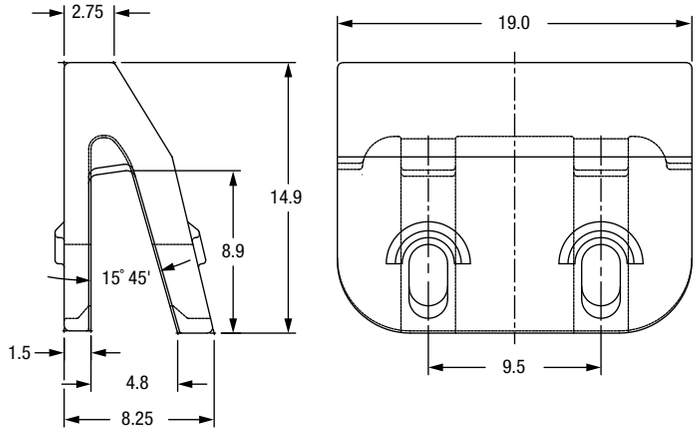


Note: Measurements are in inches.

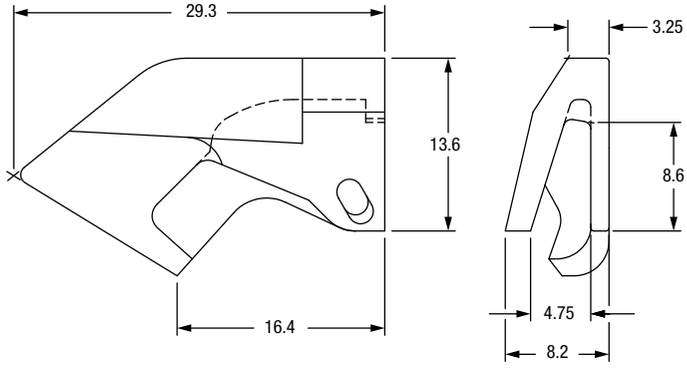
WING SHROUDS FOR DIPPERS
Specialized Wear Protection

ESCO STYLE REPLACEMENT WING SHROUDS FOR DIPPERS

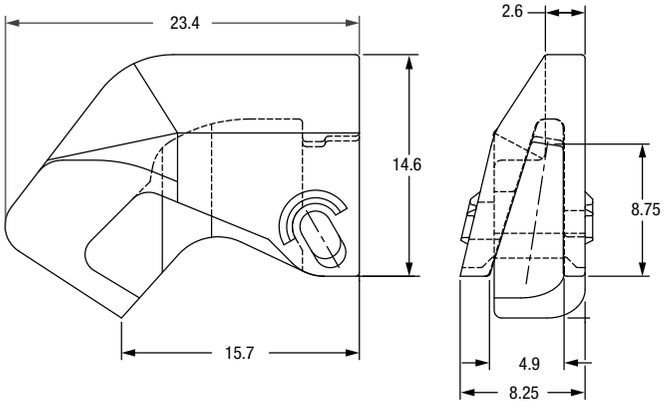
PDD27246HX
Upper Wing Shroud
(WH-10 Size)
282.7 lb / 128.2 kg
Hammer Type Fastener: 486 SPTS (Spool)
485WTW (Wedge)
Hammerless Fastener: AH486SP (Spool)
H485W (Wedge)



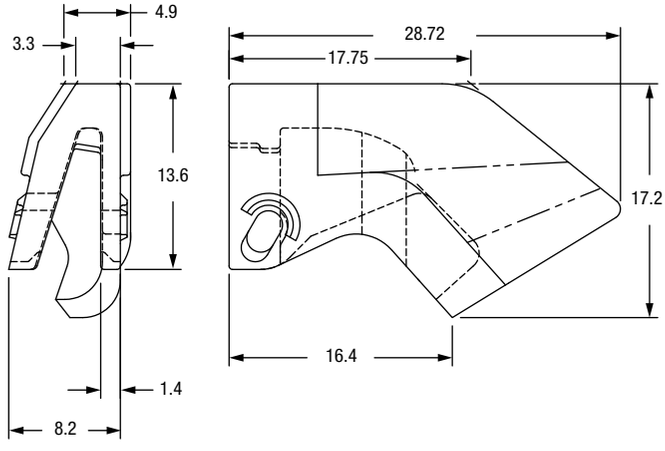
PDE32716RHX (RH Shown)
PDE32716LHX (LH Shown)
Lower Wing Shroud
(WH-10 Size)
287.0 lb / 130.2 kg
Hammer Type Fastener: 486SPTS (Spool)
485WTW (Wedge)
Hammerless Fastener: AH486SP (Spool)
H485W (Wedge)



PDE32716R1HX (RH Shown)
PDE32716L1HX (LH Opposite)
Lower Wing Shroud
(WH-10 Size)
312.0 lb / 141.5 kg
Hammer Type Fastener: 486SPTS (Spool)
485WTW (Wedge)
Hammerless Fastener: AH486SP (Spool)
H485W (Wedge)



PDE32716LSHX (LH Shown)
PDE32716RSHX (RH Opposite)
Lower Wing Shroud
(WH-10 Size, Heavy Duty)
394.0 lb / 178.7 kg
Hammer Type Fastener: 486SPTS (Spool)
485WTW (Wedge)
Hammerless Fastener: AH486 (Spool)
H485W (Wedge)

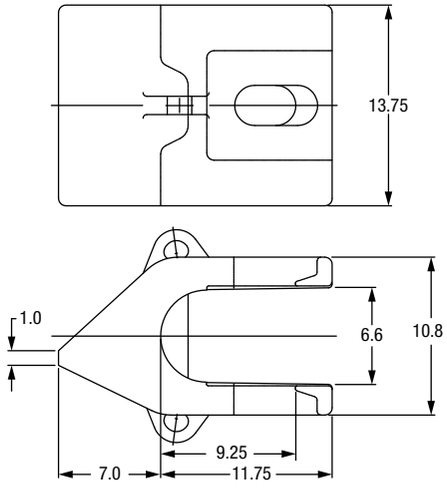


Note: Measurements are in inches.

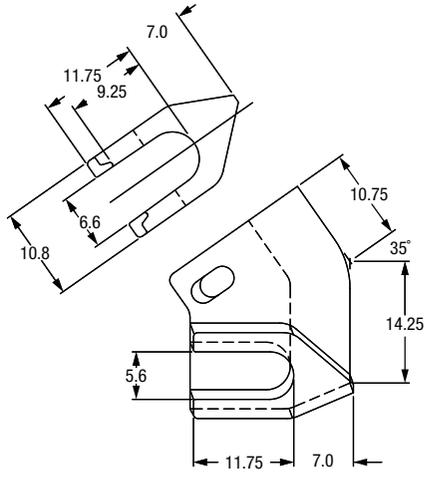
WING SHROUDS FOR DIPPERS
Specialized Wear Protection

ESCO STYLE REPLACEMENT WING SHROUDS FOR DIPPERS

PDD27241HX
Upper Wing Shroud
(WH-12 Size)
335.0 lb / 152.0 kg
Hammer Type B Fastener: R4100SP (Spool)
R4100EL (Wedge)
Hammerless Fastener: AH4100SP (Spool)
A4100W (Wedge)



PDE32741RHX
PDE32741LHX
Lower Wing Shroud
(WH-12 Size)
550.0 lb / 249.5 kg
Hammer Type B Fastener: R4100SP (Spool)
R4100EL (Wedge)
Hammerless Fastener: AH4100SP (Spool)
A4100W (Wedge)



Note: Measurements are in inches.

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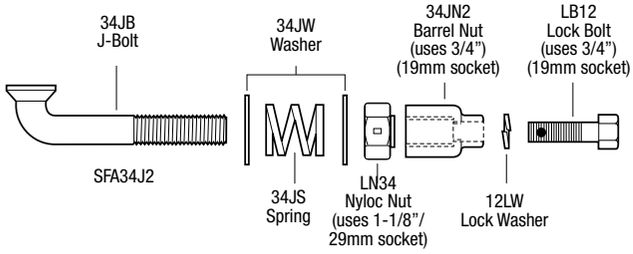
5.1A

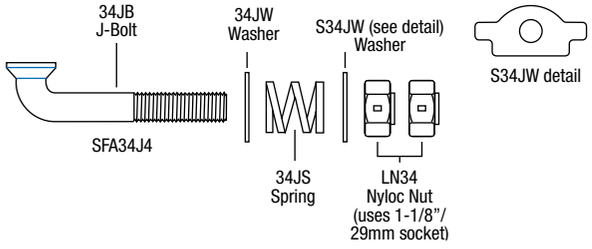
SPECIALIZED WEAR PROTECTION
Shrouds
J-Bolt Installation and Welding

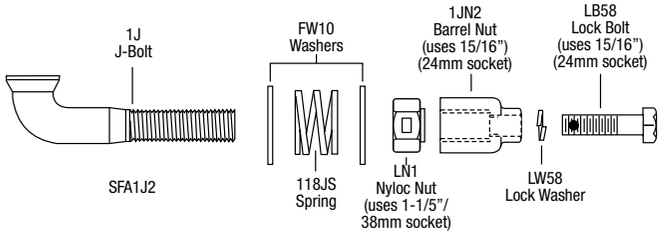
J -BOLT INSTALLATION AND WELDING

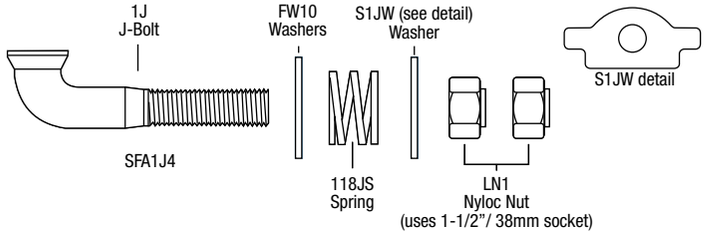
Lip Shrouds for Loaders, Excavators & Face Shovels

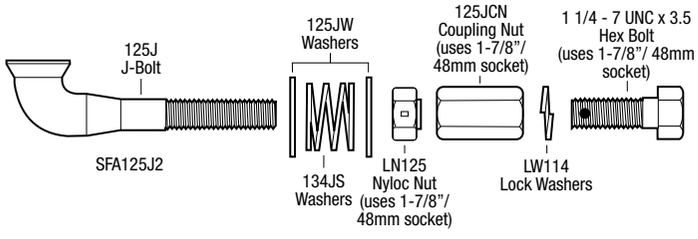
J-bolt Assemblies

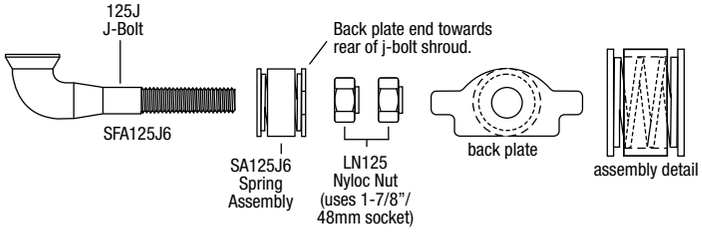




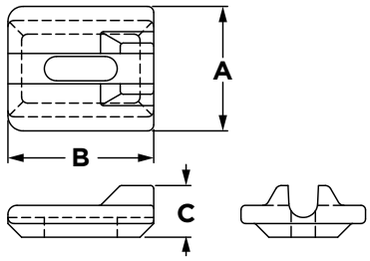








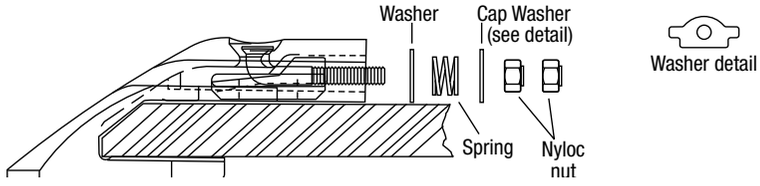
Weld Bases



J-BOLT BASES

Part No.	Dimensions						Weight	
	A		B		C			
	"	mm	"	mm	"	mm	lb	kg
LSWB-3	3.9	98	4.5	114	1.4	36	3.2	1.5
LSWB-6	6.6	168	6.75	171	2.75	70	13.5	6.1
LSWB-8	5.1	130	5.25	133	1.9	48	6.5	2.9

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Loaders, Excavators & Face Shovels



Typical Shroud Assembly With Hardware
(Loader lip shroud shown for illustrative purposes only.
Not all assemblies use all hardware shown.)

IMPORTANT NOTE: READ ALL OF THE INSTRUCTIONS COMPLETELY PRIOR TO ASSEMBLY

STEP 1- NEW INSTALLATION

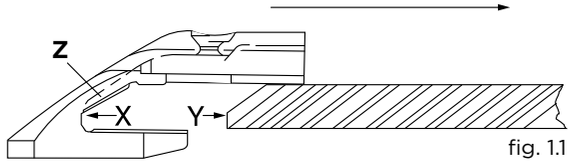


fig. 1.1

Position the shroud on the lip making sure that the **blunt** throat surface of the shroud "X" contacts the **blunt** front surface of the lip "Y". There should be **no** contact between the bevel of the lip and area "Z" of the shroud (fig. 1.1).
NOTE: This contact must be maintained throughout the assembly process to insure the proper location of the weld base.

STEP 1- REPLACEMENT INSTALLATION

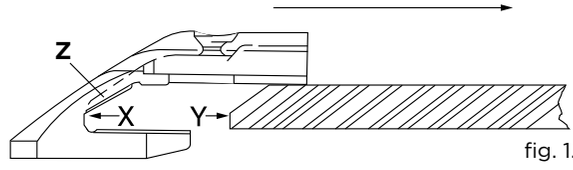


fig. 1.1

Grind the top surface of the lip material that will be affected by weld. Insure all carbon slag or other impurites from the removal of the old base are ground out. The use of non-destructive testing at this point will help determine if there are any cracks present in the base material. Repair base material as needed. (Now proceed as with new installation.)

Position the shroud on the lip making sure that the **blunt** throat surface of the shroud "X" contacts the **blunt** front surface of the lip "Y". There should be **no** contact between the bevel of the lip and area "Z" of the shroud (fig. 1.1). **NOTE:** This contact must be maintained throughout the assembly process to insure the proper location of the weld base.

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Loaders, Excavators & Face Shovels

STEP 2

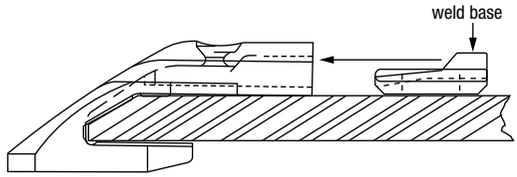


fig. 2.1

Slide the weld base from the rear into the receiving slots of the shroud (fig. 2.1)

STEP 3

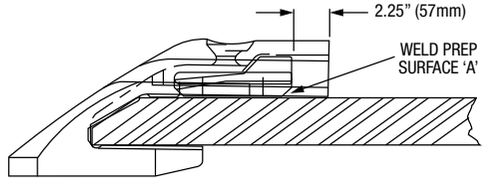


fig. 3.1

Position the weld base according to the chart below (a deviation of 33/32" (2.5 mm) is allowable).

WELD BASE PLACEMENT (33/32" (2.5mm) allowable)		
BASE	INCHES	MM
LSWB3	2-1/4"	(57)
LSWB6	3-1/2"	(89)
LSWB8	2-1/4"	(57)

After placement has been confirmed, preheat the base material to 300°F/147°C and tack weld the base at the rear along weld prep surface "A" (fig.3.1).

STEP 4

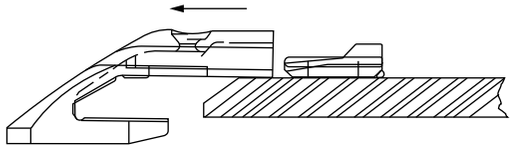


fig. 4.1

Remove the shroud and prepare to weld-out the base by re-establishing the preheat temperature of 300°F/147°C for the base material (fig4.1). Maintain this temperature throughout the welding process.

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Loaders, Excavators & Face Shovels

SPECIAL NOTES

Recommended filler material: AWS specification A5.1, class E7018, stick electrode. Stick electrodes should be kept in a heated rod oven at 250°/120°C prior to use.

NOTE: See manufacturers recommended procedures for storage and preservation of low hydrogen electrodes.

Recommended weld types: Stringer beads are recommended for higher strength and less distortion. The use of weave or wash beads is **NOT** recommended and should not be used. Arc strikes should be avoided or ground down.

STEP 5

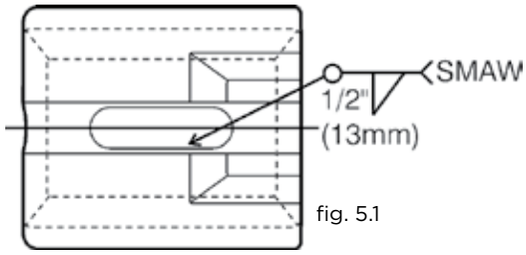


fig. 5.1

Weld-out for the base should begin with the slot weld. A 1/2"(13mm) fillet weld should be deposited in this area (fig. 5.1).

BE SURE THAT THE ENTIRE BOTTOM SURFACE OF THE WELD BASE MAINTAINS CONTACT WITH THE LIP DURING ENTIRE WELD-OUT PROCESS.

STEP 6



fig. 6.1

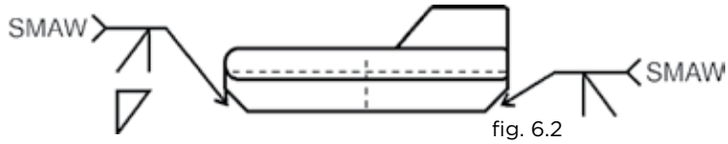
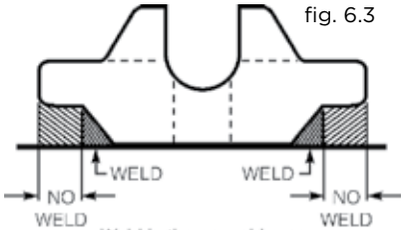


fig. 6.2

Apply weld to the base perimeter next. Utilizing groove welds, fill the 1/2"(13mm) weld groove on the base completely (fig. 6.1 & fig. 6.2). Care must be taken at this point not to add too much weld. If joint is over welded, the weld material can interfere with the lip shroud. The idea is to add as much weld as possible to the base without causing interference with the lip shroud (fig. 6.3 & fig. 6.4)

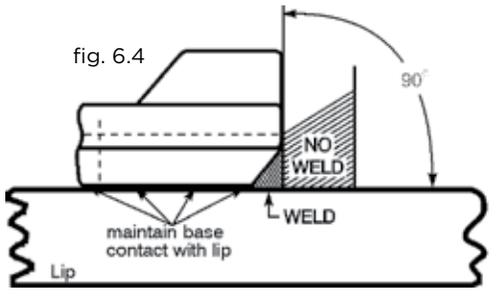
When the welding process has been completed, allow a slow cool down period to ambient temperature. A cool down rate of no greater than 35°F/2°C per hour is recommended.

fig. 6.3



Weld in the no weld area can interfere with the lip shroud.

fig. 6.4

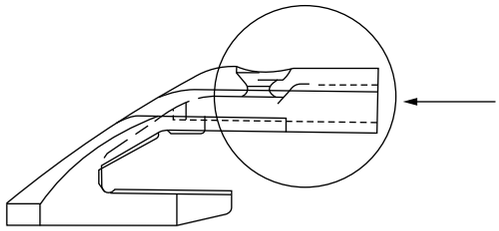


Weld in this area will interfere with the front washer of the J-Bolt assembly which must fit flush against the rear of the weld base.

Ensure contact with lip on entire length of weld base bottom surface as indicated.

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Loaders, Excavators & Face Shovels

STEP 7



Area of detail for figures 7.1 - 7.3

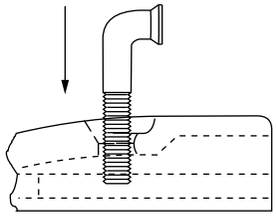


fig. 7.1

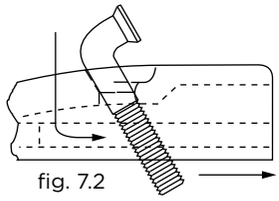


fig. 7.2

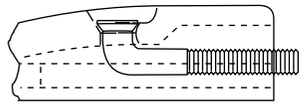


fig. 7.3

Before repositioning the shroud on the lip, insert the J-bolt into the shroud through the top hole (fig. 7.1). Rotate the bolt 90° so that the threaded end is facing the rear of the shroud (figs. 7.2 - 7.3).

STEP 8

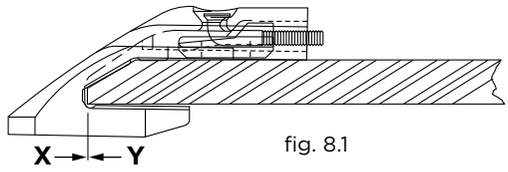


fig. 8.1

Reposition the shroud on the lip by sliding it onto the weld base as far as it will go, once again, making sure surface “X"contacts surface “Y"(fig. 8.1).

STEP 9 (J4 J-bolt assemblies)

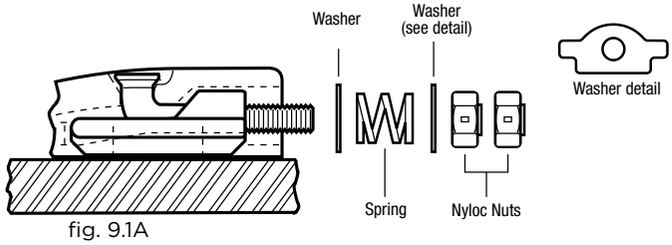


fig. 9.1A

Attach the washers, the spring and the nuts in the order indicated for J-bolt assembly type J4. (fig. 9.1A),

[**NOTE: the locking nut cannot be hand-threaded onto the J-bolt**]
then torque to specifications listed. (fig. 9.2).

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Loaders, Excavators & Face Shovels

STEP 9 (J6 J-bolt assemblies)

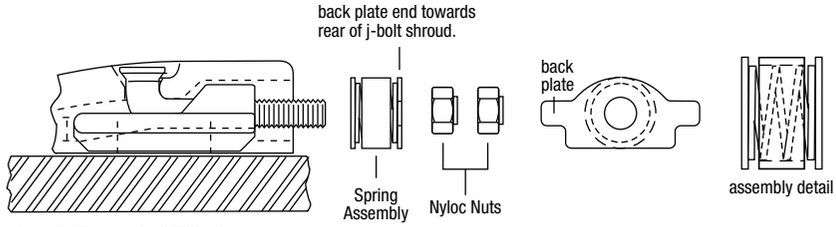


fig. 9.1B **NOTE:** Above assembly is show for illustrative purposes only.
Not all assemblies utlilize all parts shown.

Attach the washers, the spring and the nuts in the order indicated for J-bolt assembly type J6. (fig. 9.1B), then torque to specifications listed. (fig. 9.2).

STEP 9 (J2 J-bolt assemblies used with optional cap)

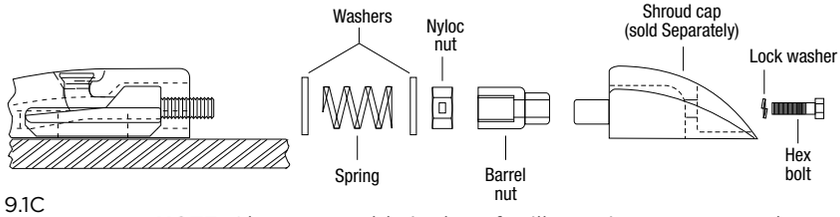


fig. 9.1C

NOTE: Above assembly is show for illustrative purposes only.
Not all assemblies utlilize all parts shown.

Attach the washers, the spring and the nuts in the order indicated for J-bolt assembly type J2. (fig. 9.1C), then torque to specifications listed. (fig. 9.2). Finish assembly by installing cap (if part of assembly) with lock washer and cap bolt.

J-Bolt Assembly Torque Recommendations

J-BOLT ASSEMBLY	LOCKING NUT MAX TORQUE		GRADE 8 BOLT MAX TORQUE	
	ft-lbs	Nm	ft-lbs	Nm
SFA34J2	175	237	NA	NA
SFA34J4	175	237	NA	NA
SFA1J2	200	271	NA	NA
SFA1J4	200	271	NA	NA
SFA125J2	225	305	NA	NA
SFA125J6	225	305	NA	NA

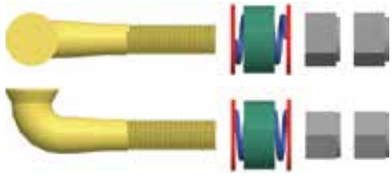
fig. 9.2

SPECIAL NOTE

For best results, it may be necessary to re-torque all fastener components periodically depending on the application. Usually, re-torquing components after a few hours of machine operation will insure component security.

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Hensley Cast Lips for Face Shovels

J-bolt Assembly



SFA150J6

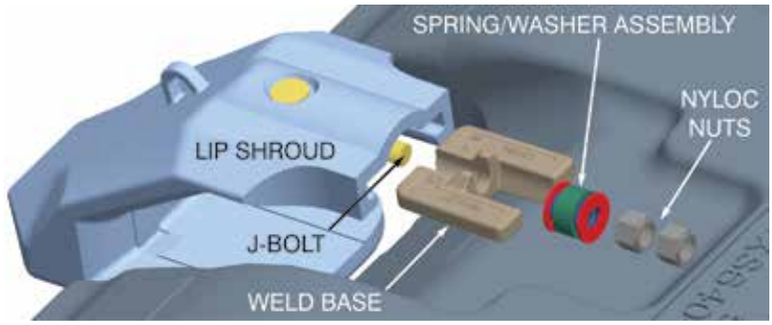
Weld Base



LSWB9

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Hensley Cast Lips for Face Shovels

BEFORE STARTING INSTALLATION, BE SURE TO READ ALL INSTRUCTIONS THOROUGHLY!



STEP 1

NEW INSTALLATION

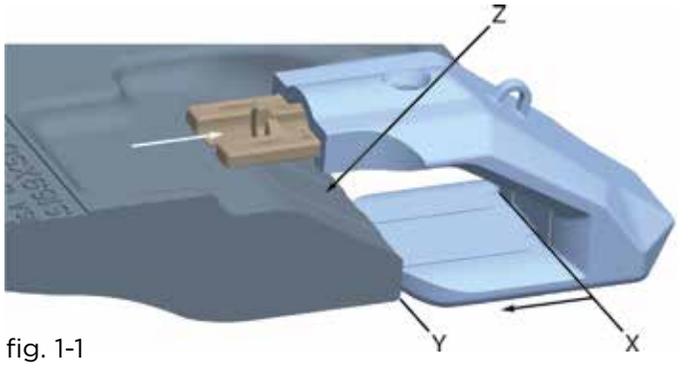


fig. 1-1

1 a) Slide weld base into back of lip shroud.
1 b) Position the shroud on the cast lip making sure that the **blunt** throat surface of the shroud "X" contacts the **blunt** front surface of the lip "Y". There should be no contact between the bevel of the shroud and area "Z" of the cast lip (fig. 1-1).

NOTE: This contact must be maintained throughout the assembly process to insure the proper location of the weld base.

REPLACEMENT INSTALLATION

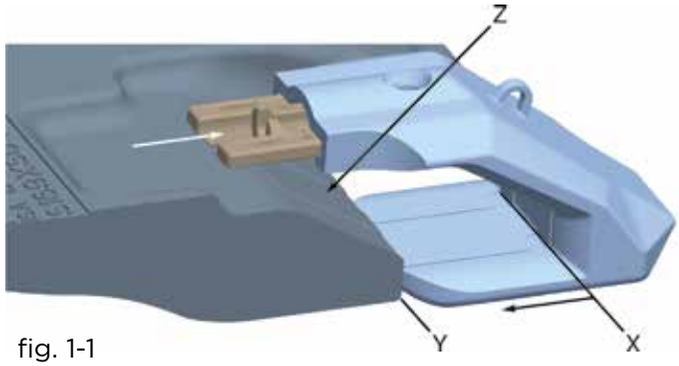


fig. 1-1

Grind the top surface of the lip material that will be affected by weld. Insure all carbon slag or other impurities from the removal of the old base are ground out. The use of non-destructive testing at this point will help determine if there are any cracks present in the base material. Repair base material as needed. (Now proceed as with new installation.)

1 a) Slide weld base into back of lip shroud.
1 b) Position the shroud on the cast lip making sure that the **blunt** throat surface of the shroud "X" contacts the **blunt** front surface of the lip "Y". There should be **no** contact between the bevel of the shroud and area "Z" of the cast lip (fig. 1-1).

NOTE: This contact must be maintained throughout the assembly process to insure the proper location of the weld base.

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Hensley Cast Lips for Face Shovels

STEP 2

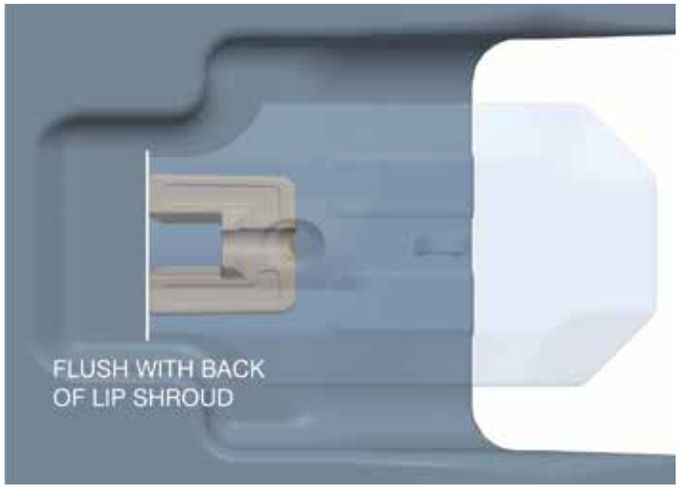


fig. 2-1

Align the back of the Weld base so that it is flush with the back of shroud (fig. 2-1).

STEP 3

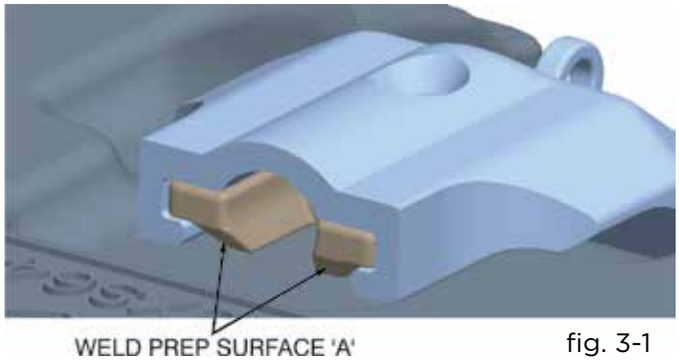


fig. 3-1

After placement of weld base has been confirmed, establish a preheat temperature of 300˚F / 150˚C to 450˚F / 230˚C for the base material. Tack weld the base at the rear along weld prep surface “A" (fig.3-1).

SPECIAL NOTES

Recommended filler material: AWS specification A5.1, class E7018 stick electrode. Stick electrodes should be kept in a heated rod oven at 250°F / 120°C prior to use.

NOTE: See manufacturer’s recommended procedures for storage and preservation of low hydrodgen electrodes.

Recommended weld types: Stringer beads are recommended for higher strength and less distortion.The use of weave or wash beads in **NOT** recommended and should not be used. Arc strikes should be avoided or ground down.

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Hensley Cast Lips for Face Shovels

STEP 4

Remove the shroud and prepare to weld-out the base by re-establishing the preheat temperature of 300˚F / 150˚C to 450˚F / 230˚C for the base material (fig. 4-1). Maintain this temperature throughout the welding process.

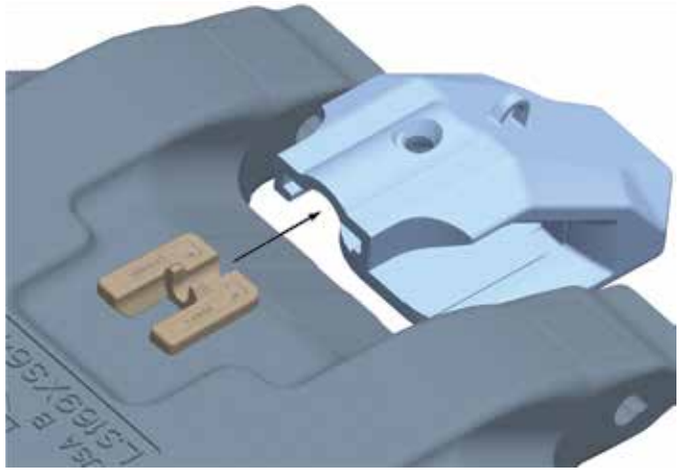


fig. 4-1

STEP 5

Weld-out for the base should begin with the inner legs of base. A 1/2" (13mm) fillet weld should be deposited in this area (fig. 5-1).

BE SURE THAT THE ENTIRE BOTTOM SURFACE OF THE WELD BASE MAINTAINS CONTACT WITH THE LIP DURING ENTIRE WELD-OUT PROCESS.

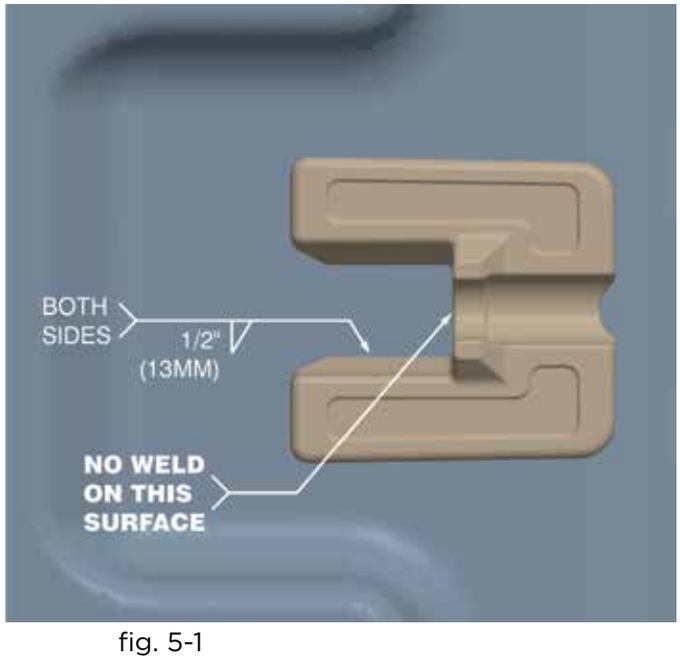


fig. 5-1

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Hensley Cast Lips for Face Shovels

STEP 6

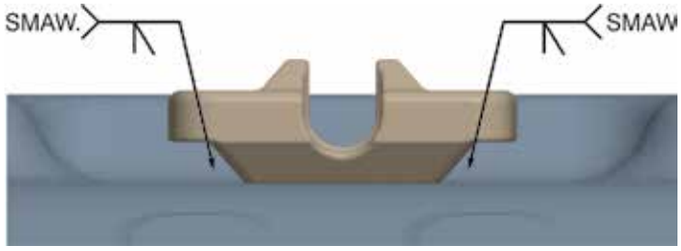


fig. 6-1

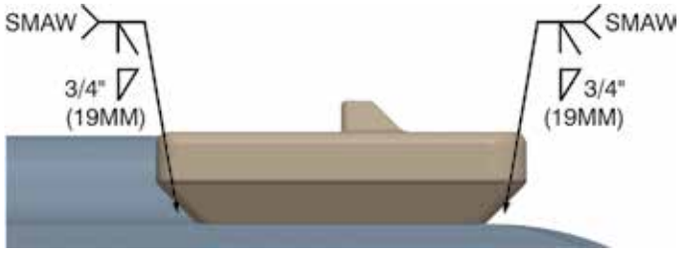


fig. 6-2

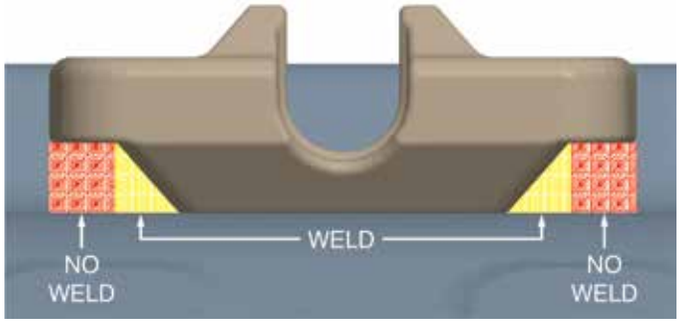


fig. 6-3

Apply weld to the base perimeter next. Utilizing groove welds, fill the 1.0" (25mm) weld groove on the base completely (fig. 6-1 & fig. 6-2). Care must be taken at this point not to add too much weld. If joint is over welded, the weld material can interfere with the lip shroud. The idea is to add as much weld as possible to the base without causing interference with the lip shroud (fig. 6-3). When the welding process has been completed, allow a slow cool down period to ambient temperature. A cool down rate of no greater than 450˚F / 250˚C per hour is recommended.

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Hensley Cast Lips for Face Shovels

STEP 7

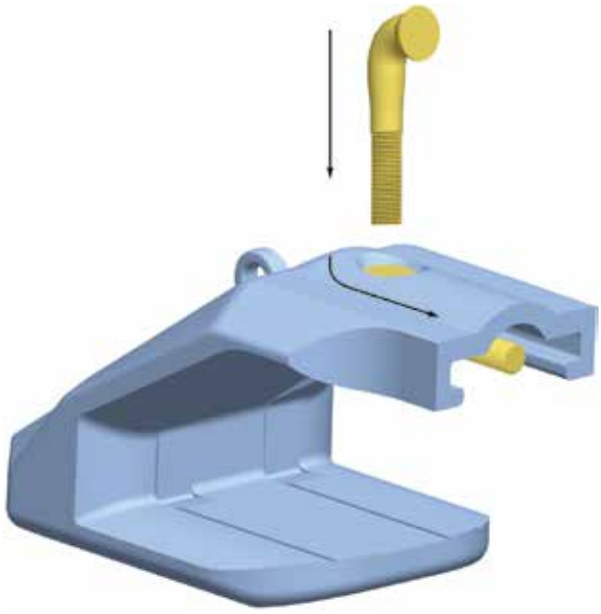


fig. 7-1

Before repositioning the shroud on the lip, insert the J-bolt into the shroud through the top hole
(fig. 7-1). Rotate the bolt 90o so that the threaded end is facing the rear of the shroud.

STEP 8

Reposition the shroud on the lip by sliding it onto the weld base as far as it will go, once again, making sure surface “X" contacts surface “Y" (fig. 8-1).

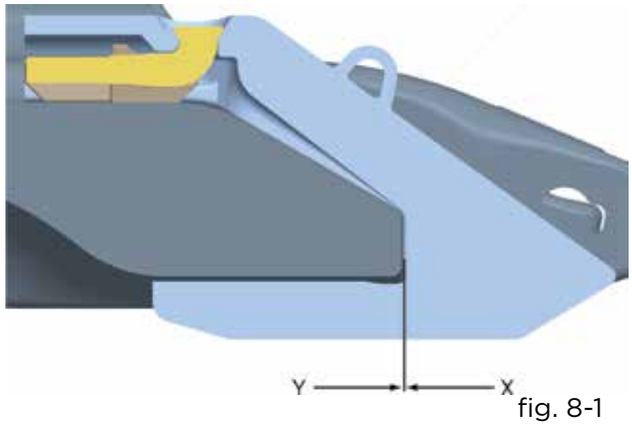


fig. 8-1

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Hensley Cast Lips for Face Shovels

STEP 9

Install the washer, spring collar assembly and the nuts in the order indicated for J-bolt assembly type J6 (fig. 9-1), Torque locking nuts to 300 ft. lbs / 407 Nm.

[**NOTE: the locking nut cannot be hand-threaded onto the J-bolt**]

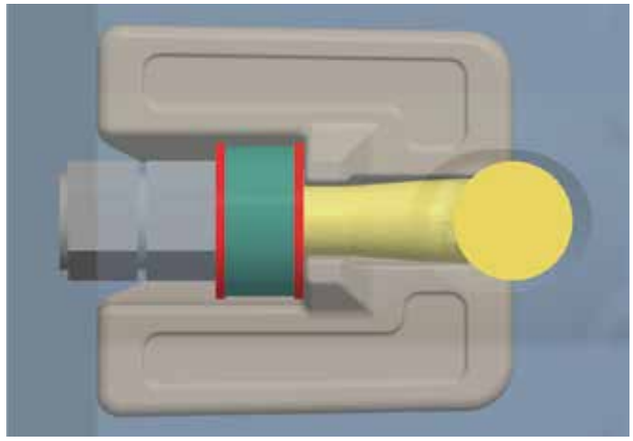


fig. 9-1

SPECIAL NOTE: For best results, it may be necessary to re-torque all fastener components periodically depending on the application. Usually, re-torquing components after a few hours of machine operation will insure component security

J-BOLT SHROUD SEATING AND MAINTENANCE INSTRUCTIONS

SEATING FOR NEW INSTALLATION

It is normal that the shrouds migrate back slightly with the force of the machine. Therefore, it is recommended that the following procedure be followed to ensure proper seating of the shrouds.

Instructions:

1. Run machine for 10 non-production cycles.
2. Remove 2nd locking nut from shroud installation.
3. Re-tighten the 1st locking nut for any movement.
4. Re-install 2nd locking nut
5. Release machine for production.

Note: if the first nut on any installation is excessively loose, then repeat this procedure.

RETIGHTENING AND MAINTENANCE

Check and retighten the nuts after 6 hours of service, then after 24 hrs. Generally, nuts should be periodically checked after 750 to 1000 hrs. in extreme conditions, and 1500 to 2000 hrs. in moderate conditions, or by the frequency dictated by your specific application.

Removing Esco Toplok® Weld Base

STEP 1

To start the conversion, the Toplok® weld base (fig. 1-1) must first be removed. The weld base is welded to a riser that is part of the cast lip (fig. 1-2).



fig. 1-1



fig. 1-2



fig. 2-1

STEP 2

Before gouging the weld base, be sure to preheat (fig. 2-1) to 180˚ F (820˚ C).



fig. 3-1

STEP 3

Gouge weld-on portion of base (fig. 3-1).

J -BOLT INSTALLATION AND WELDING
Convert Esco Loadmaster® to Hensley J-bolt Lip Shrouds

STEP 4
Gouge off the cast riser {if cast riser is present and or creates an issue with the lip shroud template} (fig. 4-1).



fig. 4-1

STEP 5
Grind the gouged area clean and smooth (fig. 5-1).



Check Lip Shroud Area for Proper Fit

It may be necessary at this point in the coversion to rebuild worn blunt fit pads in the lip shroud area to Hensley specifications. The rebuilding of blunt fit pads back to within specifications helps insure an acceptable fit. This will help prevent premature failure of the lip shrouds and possibe damage to the cast lip in the lip shroud area.

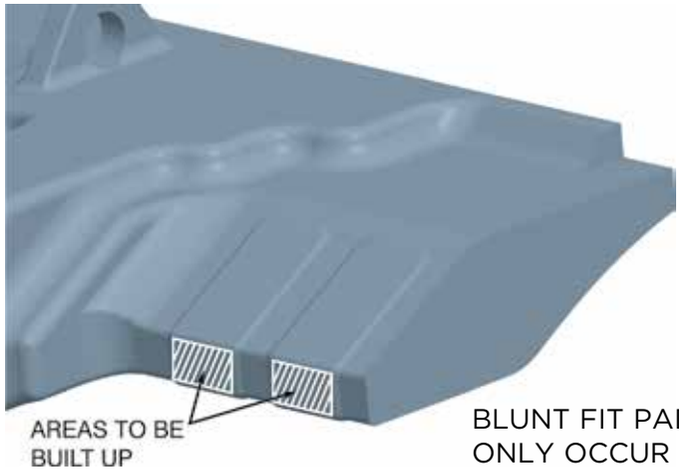
For gauging and determining if the blunt fit pads need rebuilding, you will need the following tools:

- Grinder
- Templates supplied by Hensley Industries, Inc.
- Feeler gauges (shims)
- Non-Destructive Testing "NDT" Inspection tools
- Welding equipment
- Torch
- Temperature indicating crayon or infrared thermometer

LIP SHROUD AREA REBUILD TEMPLATES	
LIP TEMPLATE	**HX LIP SHROUDS**
LS130MLT	LS130M435J
	LS130M600JBH
LS145LT	LS1451600J
	LS1452200J
LS1301700LT	LS1301700J
LS8002200LT	LS8002200J







BLUNT FIT PAD REBUILD SHOULD ONLY OCCUR IN THESE AREAS.

Lip Shroud Area Gauging

BEFORE STARTING GAUGING, BE SURE TO READ ALL INSTRUCTIONS THOROUGHLY!

STEP 1

Prepare the lip shroud area for gauging by:

- Thoroughly clean excess material from the lip shroud area (top & bottom).
- Check top surface area for flatness within 1/16" (1.6mm) and build-up if necessary.

STEP 2

Centering the template on the LIP SHROUD FIT PAD AREA (fig. 2-1), slide it onto the lip. Be sure to maintain contact with the top surface of the cast lip (fig. 2-2)

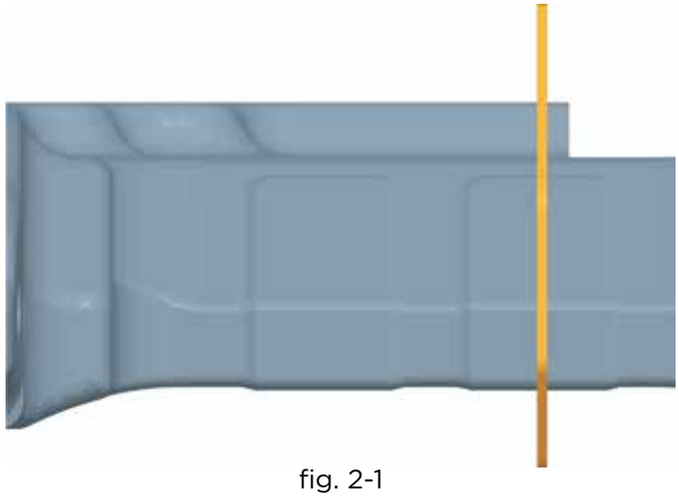


fig. 2-1

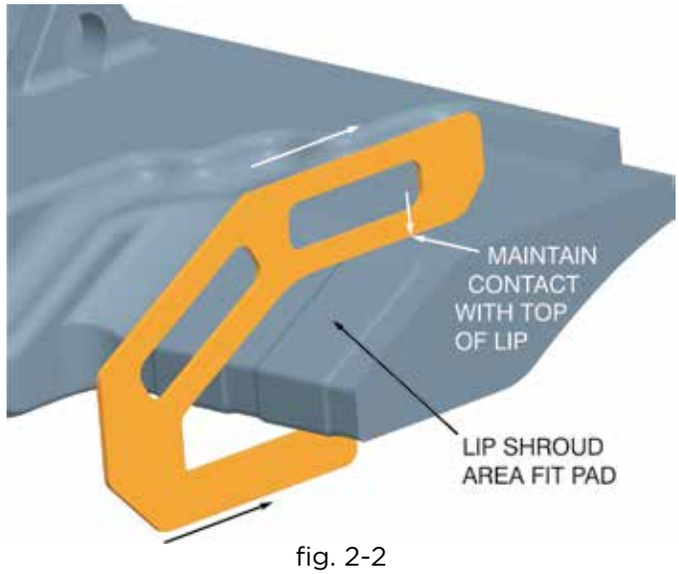


fig. 2-2

J -BOLT INSTALLATION AND WELDING
Convert Esco Loadmaster® to Hensley J-bolt Lip Shrouds

STEP 3

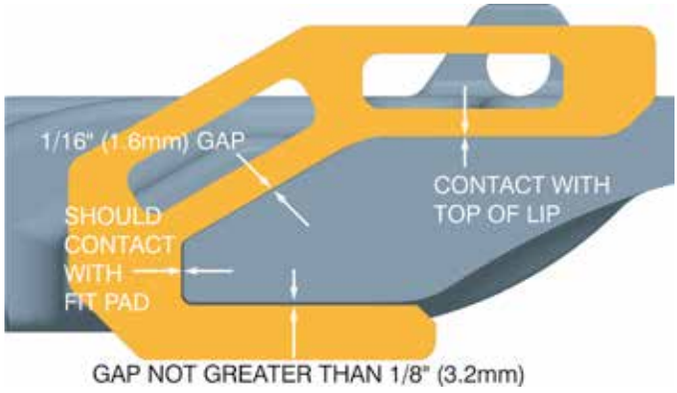


fig. 3-1

Maintaining contact with the top surface of the cast lip slide the template onto the lip until there is a 1/16" (1.6mm) gap between the bevel area of the template and the bevel area of the cast lip. There should also be a gap between the bottom of the template and the bottom of the cast lip (fig. 3-1).
Once the 1/16" (1.6mm) gap between the bevel of the lip and template is reached, check to see if the blunt of the template is contacting the blunt fit pad. If the template does not contact the fit pad, measure the gap. This measurement indicates the amount of the blunt that needs to be built up.

FOR MAXIMUM GAP TOLERANCES REFER TO GAP TOLERANCE CHART (fig. 3-2).

GAP TOLERANCES	
FIT AREA	**MAXIMUM GAP**
blunt	contact 2 points minimum
bevel	1/16" (1.6mm)
top	contact 2 points minimum
bottom	1/8" (3.2mm)

fig. 3-2

J -BOLT INSTALLATION AND WELDING

Convert Esco Loadmaster® to Hensley J-bolt Lip Shrouds

Blunt Fit Pad Build-Up

BEFORE STARTING BLUNT FIT PAD BUILD-UP, BE SURE TO READ ALL INSTRUCTIONS THOROUGHLY!

NOTE: FILLER MATERIALS RECOMMENDED FOR THE BUILD-UP OF FIT PADS ARE HIGH TENSILE STRENGTH FILLER MATERIALS. THEY ARE RECOMMENDED DUE TO THEIR SURFACE HARDNESS PROPERTIES. THEY SHOULD NOT BE USED TO WELD OTHER HENSLEY G.E.T. PRODUCTS.

NOSE BUILD-UP FILLER MATERIAL			
PROCESS	**AWS**	**JIS**	**SHIELDING GAS**
SMAW	*E9018 AWS A5.5	JIS Z3212 D5816	N/A
FCAW	*E91t-1 AWX A5.29	JIS Z3313 YFL-A506R	75% AR / 25%CO2

*Minimum tensile requirement. Higher tensile strength filler materials may be used, such as SMAW E12018 or FCAW E110T5-K4.

Preheat the fit pad to be built-up. Preheat the fit pad to between 300˚F / 150˚C to 450˚F / 230˚C and maintain this temperature throughout the welding process. Temperature may be checked with an infrared thermometer or a temperature indicating crayon.

Build up the fit pad with weld to close the gap between the fit pad and template. Stringer beads are recommended. The use of weave or wash beads should not be used, however weaving is permitted as long as bead widths are no greater than 0.50" [12.7mm].

Clean each pass of deposited weld metal before depositing the next weld pass. Manual slag hammers, pneumatic needle gun, wire brushes or any combination of these tools may be used to accomplish cleaning. Deposit slightly more weld than what is required. This will allow the fit areas to be ground smooth without any weld under fill.

Before dressing / grinding the welds. allow the fit pad to cool to ambient temperature. A cool down rate of no greater than 45˚F / 25˚C per hour is recommended.

Using the template appropriate for your lip, re-check for proper fit. Remember that the template should contact the top of the lip surface and have a 1/16" (1.6mm) gap at the bevel (fig. A-1). If this gap is achieved with the template contacting the blunt fit pad, you are ready to finish dressing / grinding the welds. Dress / grind the blunt fit pad surfaces so that they are flat and parallel to the pin hole in the nose (fig. A-2).

Grind the weld beads so that there is a smooth transition between adjoining beads and a smooth transition into the original fit pad material.

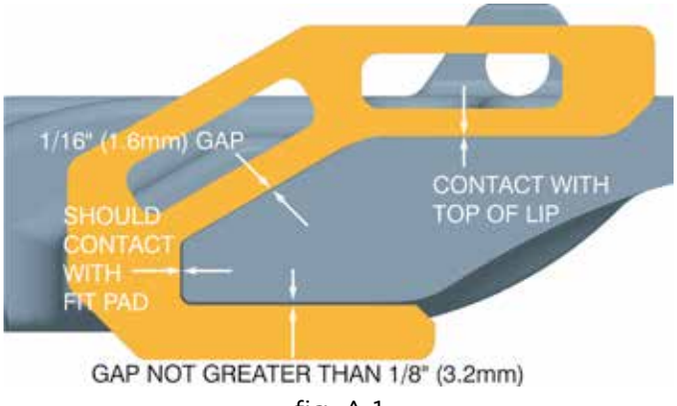
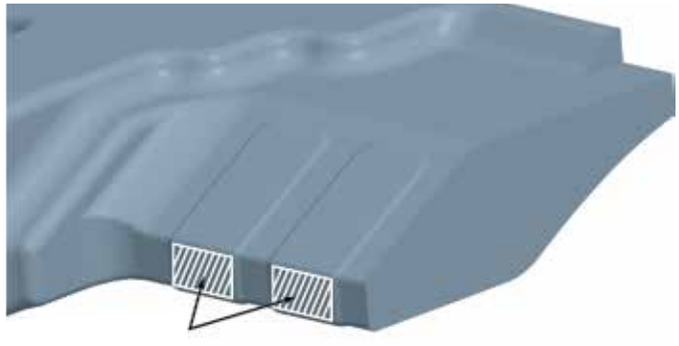


fig. A-1



CHECK THAT RE-BUILT BLUNT FIT PAD SURFACES ARE FLAT AND PARALLEL TO PIN HOLE IN NOSE

fig. A-2

Installation of Hensley Weld Base

REPLACEMENT INSTALLATION

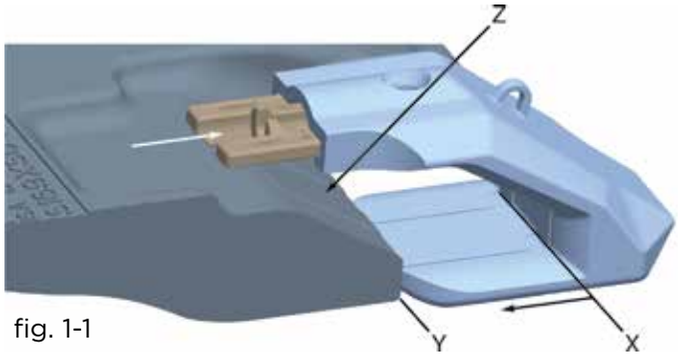


fig. 1-1

STEP 1

After having ground the top surface of the lip material that will be affected by weld, insure all carbon slag or other impurities from the removal of the old base are ground out. The use of non-destructive testing at this point will help determine if there are any cracks present in the base material. Repair base material as needed. (Now proceed as with the installation.)

1 a) Slide weld base into back of lip shroud.
1 b) Position the shroud on the cast lip making sure that the **blunt** throat surface of the shroud "X" contacts the **blunt** front surface of the lip "Y". There should be **no** contact between the bevel of the shroud and area "Z" of the cast lip (fig. 1-1).

NOTE: This contact must be maintained throughout the assembly process to insure the proper location of the weld base.

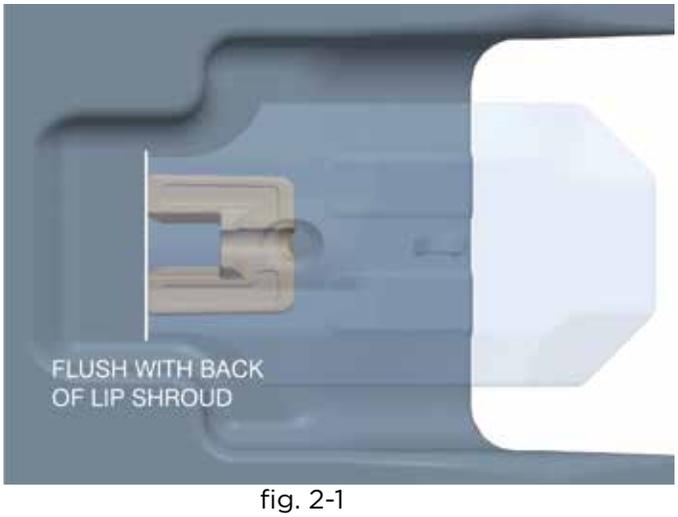


fig. 2-1

STEP 2

Align the back of the Weld base so that it is flush with the back of shroud (fig. 2-1).

J -BOLT INSTALLATION AND WELDING
Convert Esco Loadmaster® to Hensley J-bolt Lip Shrouds

STEP 3
After weld-base placement has been confirmed, establish a preheat temperature of 300°F / 150°C to 450°F / 230°C for the base material. Then tack weld the base at the rear along weld prep surface “A" (fig.3-1).

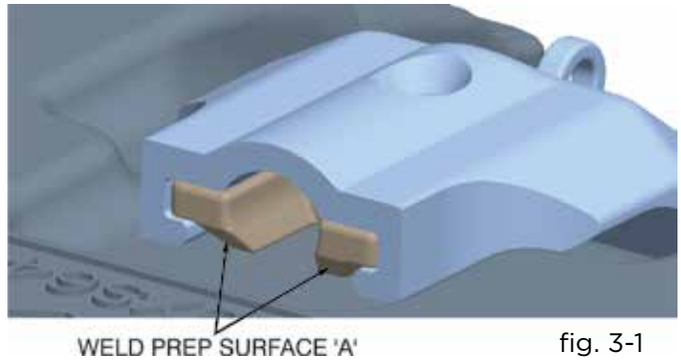


fig. 3-1

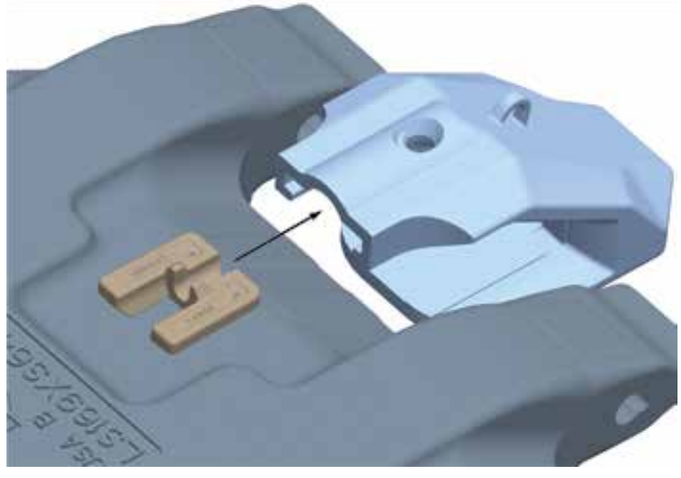
SPECIAL NOTES

Recommended filler material: AWS specification A5.1, class E7018 stick electrode. Stick electrodes should be kept in a heated rod oven at 250°F / 120°C prior to use.

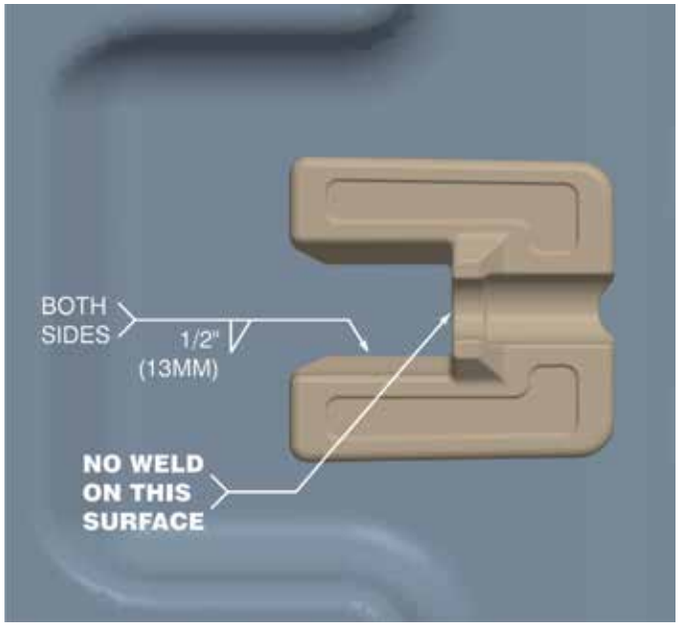
NOTE: See manufacturer’s recommended procedures for storage and preservation of low hydrodgen electrodes.

Recommended weld types: Stringer beads are recommended for higher strength and less distortion.The use of weave or wash beads in **NOT** recommended and should not be used. Arc strikes should be avoided or ground down.

STEP 4
Remove the shroud and prepare to weld-out the base by re-establishing a preheat temperature of 300°F / 150°C to 450°F / 230°C for the base material (fig. 4-1). Maintain this temperature throughout the welding process.


fig. 4-1

J -BOLT INSTALLATION AND WELDING
Convert Esco Loadmaster® to Hensley J-bolt Lip Shrouds



STEP 5

Weld-out for the base should begin with the inner legs of base. A 1/2" (13mm) fillet weld should be deposited in this area (fig. 5-1).

BE SURE THAT THE ENTIRE BOTTOM SURFACE OF THE WELD BASE MAINTAINS CONTACT WITH THE LIP DURING ENTIRE WELD-OUT PROCESS.

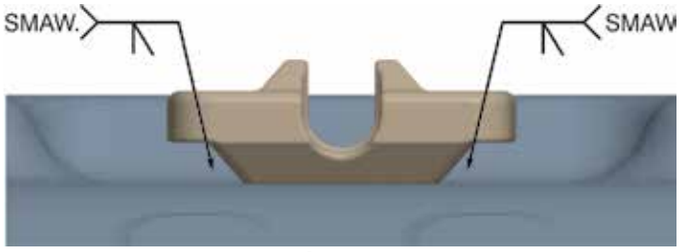


fig. 5-1

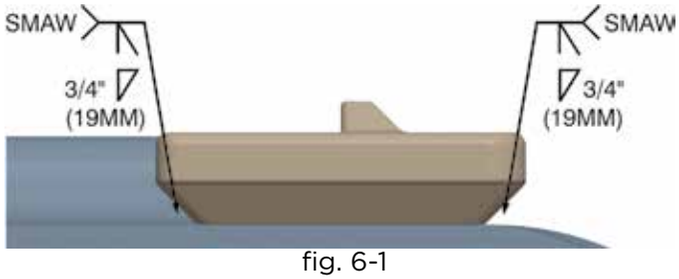


fig. 6-1

STEP 6

Apply weld to the base perimeter next. Utilizing groove welds, fill the 1.0" (25mm) weld groove on the base completely (fig. 6-1 & fig. 6-2). Care must be taken at this point not to add too much weld. If joint is over welded, the weld material can interfere with the lip shroud. The idea is to add as much weld as possible to the base without causing interference with the lip shroud (fig. 6-3). When the welding process has been completed, allow a slow cool down period to ambient temperature. A cool down rate of no greater than 45°F / 25°C per hour is recommended.

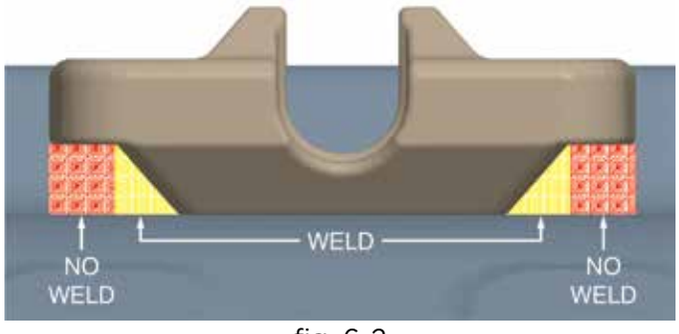


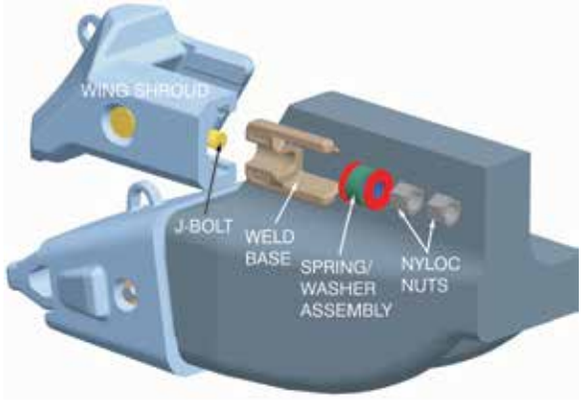
fig. 6-2

J -BOLT INSTALLATION AND WELDING

Lower Wing Shrouds for Loadmaster® & Cast Lips

BEFORE STARTING INSTALLATION, BE SURE TO READ ALL INSTRUCTIONS THOROUGHLY!

STEP 1



NEW AND REPLACEMENT INSTALLATION

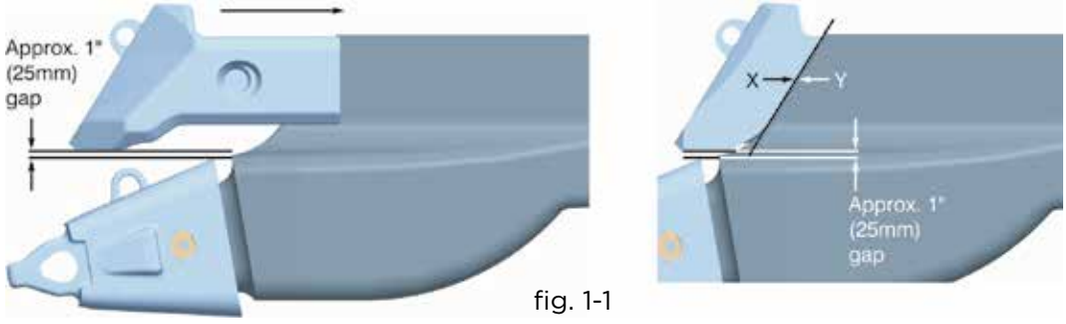


fig. 1-1

NEW INSTALLATION

Position the wing shroud on cheek plate portion of the cast lip making sure that the **blunt** throat surface of the shroud "X" contacts the **blunt** front surface of the cheek plate "Y". The shroud should be positioned so that there is approximately a 1" (25mm) gap between the bottom of the shroud and the intermediate adapter.
(fig. 1-1).

NOTE: This contact and gap must be maintained throughout the assembly process to insure the proper location of the weld base.

FOR 201" LIP - The angle of the blunt front surface of the cheek plate "Y" differs from the 163" & 169" lips.The shroud should still be positioned so that there is approximately a 1" (25mm) gap between the bottom of the shroud and the intermediate adapter (fig. 1-1).

REPLACEMENT INSTALLATION

Grind the outside portion of the cheek plate area of the cast lip that will be affected by weld. Insure all carbon slag or other impurities from the removal of the old base are ground out. The use of non-destructive testing at this point will help determine if there are any cracks present in the base material. Repair base material as needed. (Now proceed as with new installation.)

Position the wing shroud on cheek plate portion of the cast lip making sure that the blunt throat surface of the shroud “X" contacts the blunt front surface of the cheek plate “Y". The shroud should be positioned so that there is approximately a 1" (25mm) gap between the bottom of the shroud and the intermediate adapter. (fig. 1-1).

NOTE: This contact and gap must be maintained throughout the assembly process to insure the proper location of the weld base.

J -BOLT INSTALLATION AND WELDING
Lower Wing Shrouds for Loadmaster® & Cast Lips

STEP 2

FOR 163" & 169" LIPS

Insert the weld base as shown into the rear of the wing shroud until it is flush with the rear of the wing shround (fig. 2-1 - fig. 2-2)

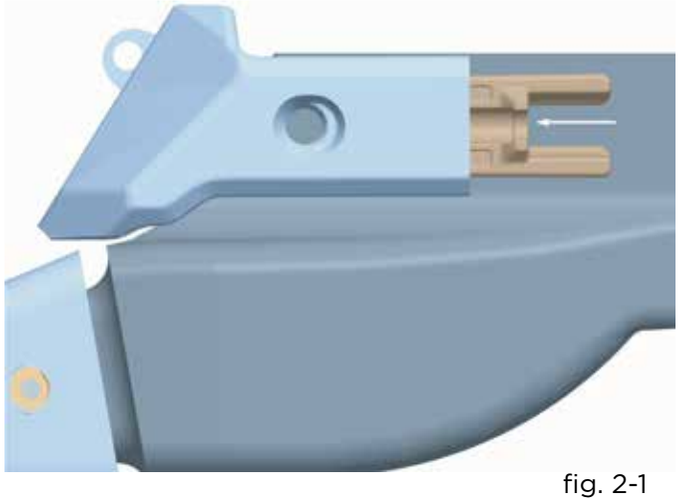


fig. 2-1

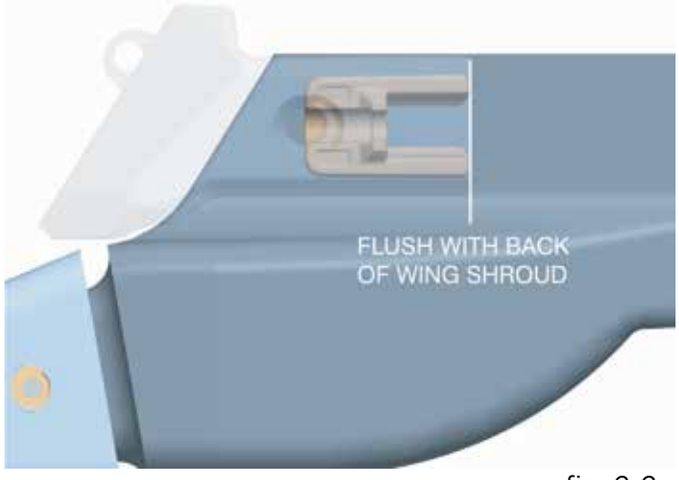


fig. 2-2

STEP 3

After placement of weld base has been confirmed, Pre-heat the base material to 300˚F / 150˚C to 450˚F / 230˚C and tack weld the base at the rear along weld prep surface “A" (fig.3-1).

FOR 201" LIPS

Due to the difference in the angle of the cheek plate for 201" lips, following proper placement (STEP 1) procedures will result in the wing shroud being rotated 5˚ off horizontal (fig. 2-1-201). This is by design. All remaining installation instructions can now be implemented.

Insert the weld base as shown into the rear of the wing shroud until it is flush with the rear of the wing shround (fig. 2-1-201 - fig. 2-2-201).

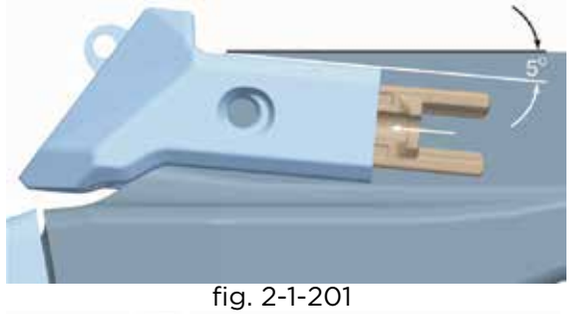


fig. 2-1-201

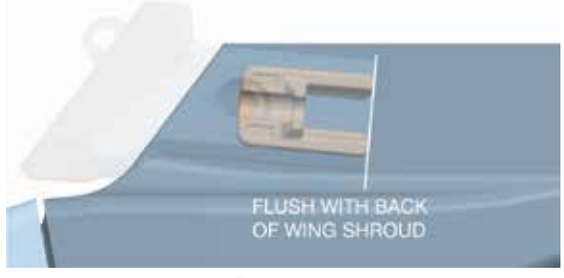


fig. 2-2-201

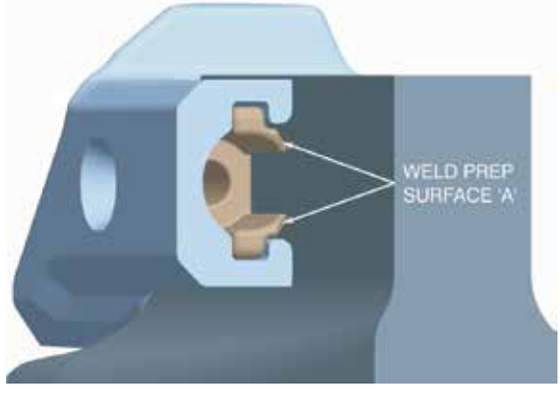


fig. 3-1

J -BOLT INSTALLATION AND WELDING
Lower Wing Shrouds for Loadmaster® & Cast Lips

SPECIAL NOTES

Recommended filler material: AWS specification A5.1, class E7018 stick electrode. Stick electrodes should be kept in a heated rod oven at 250°F / 120°C prior to use.

NOTE: See manufacturer's recommended procedures for storage and preservation of low hydrodgen electrodes.

Recommended weld types: Stringer beads are recommended for higher strength and less distortion. The use of weave or wash beads in **NOT** recommended and should not be used. Arc strikes should be avoided or ground down.

STEP 4

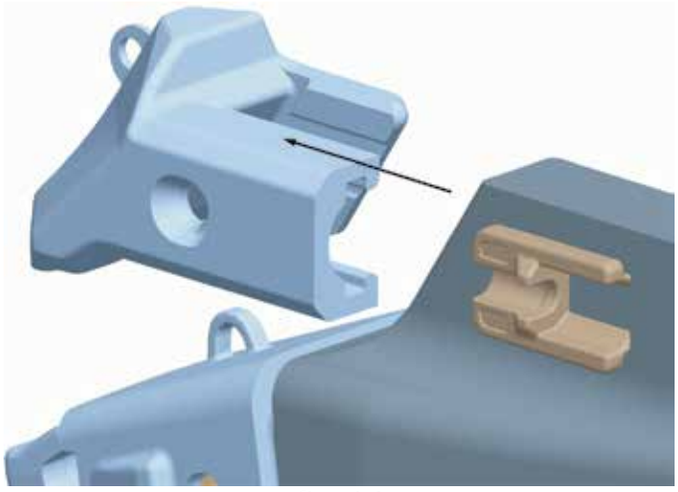
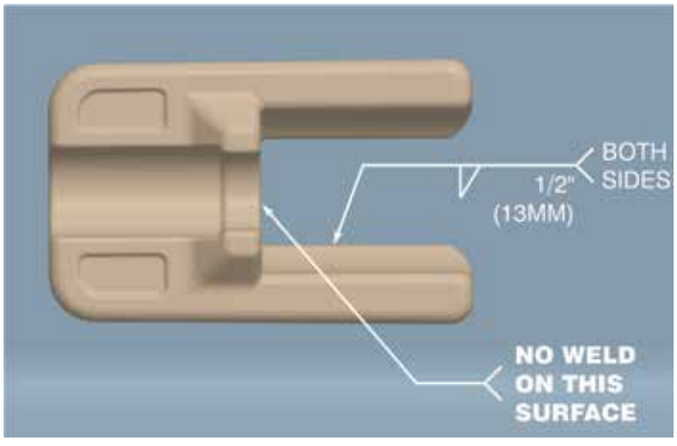


fig. 4-1

Remove the shroud and prepare to weld-out the base by re-establishing the preheat temperature of 300°F / 150°C to 450°F / 230°C for the base material (fig. 4-1). Maintain this temperature throughout the welding process.

STEP 5



Weld-out for the base should begin with the inner legs of base. A 1/2" (13mm) fillet weld should be deposited in this area (fig. 5-1).

BE SURE THAT THE ENTIRE BOTTOM SURFACE OF THE WELD BASE MAINTAINS CONTACT WITH THE CHEEK PLATE DURING ENTIRE WELD-OUT PROCESS

J -BOLT INSTALLATION AND WELDING
Lower Wing Shrouds for Loadmaster® & Cast Lips

STEP 6

Apply weld to the base perimeter next. Utilizing groove welds, fill the 1.0" (25mm) weld groove on the base completely (fig. 6-1 & fig. 6-2). Care must be taken at this point not to add too much weld. If joint is over welded, the weld material can interfere with the lip shroud. The idea is to add as much weld as possible to the base without causing interference with the lip shroud (fig. 6-3). When the welding process has been completed, allow a slow cool down period to ambient temperature. A cool down rate of no greater than 45°F / 25°C per hour is recommended.

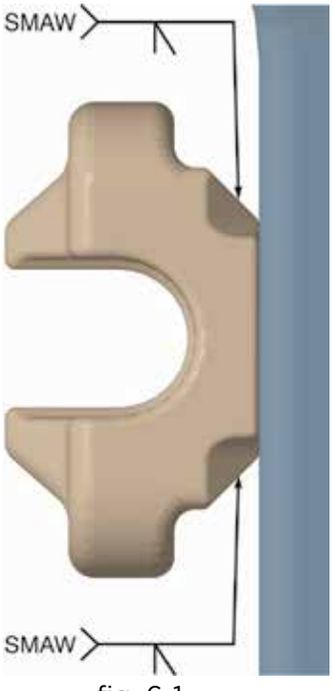


fig. 6-1

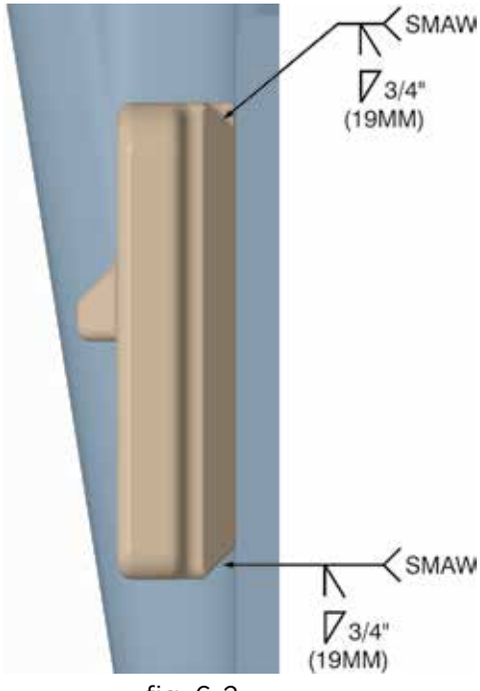


fig. 6-2

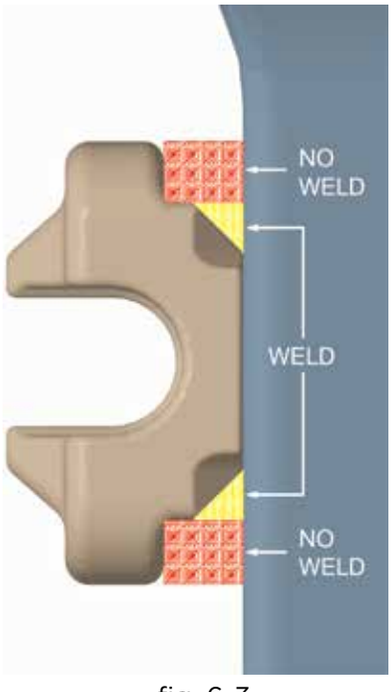


fig. 6-3

J -BOLT INSTALLATION AND WELDING
Lower Wing Shrouds for Loadmaster® & Cast Lips

STEP 7

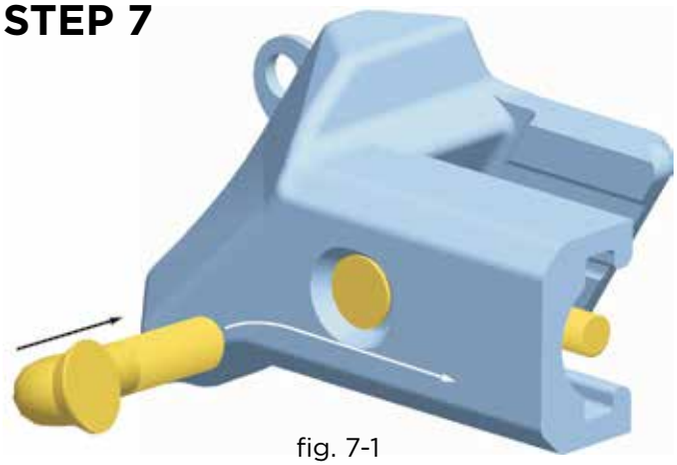


fig. 7-1

Before repositioning the shroud on the cheek plate, insert the J-bolt into the shroud through the top hole (fig. 7-1). Rotate the bolt 90˚ so that the threaded end is facing the rear of the shroud.

STEP 8

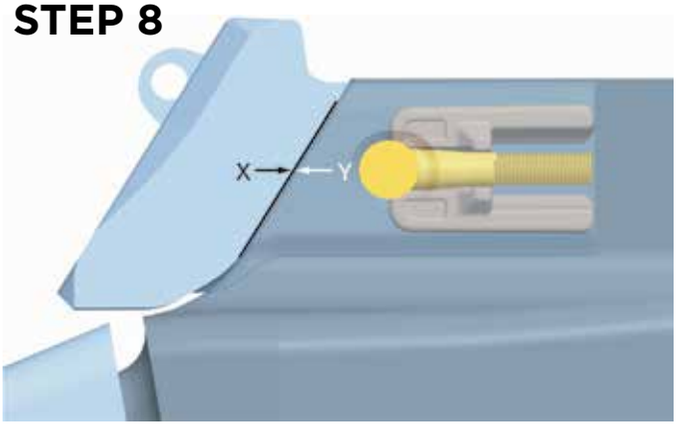


fig. 8-1

Reposition the shroud on the cheek plate by sliding it onto the weld base as far as it will go, once again, making sure surface “X" contacts surface “Y"
(fig. 8-1).

STEP 9

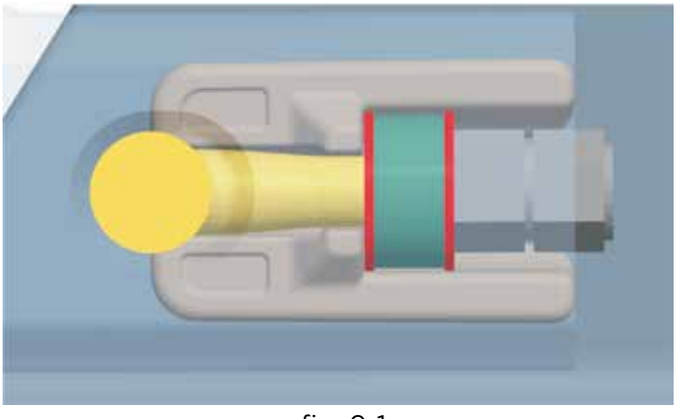


fig. 9-1

Install the washer, spring, collar assembly and the nuts in the order indicated for J-bolt assembly type J6 (fig. 9-1), Torque locking nuts to 300 ft. lbs / 407 Nm.

[NOTE: the locking nut cannot be hand-threaded onto the J-bolt]

SPECIAL NOTE:For best results, it may be necessary to re-torque all fastener components periodically depending on the application. Usually, re-torquing components after a few hours of machine operation will insure component security

J-BOLT SHROUD SEATING AND MAINTENANCE INSTRUCTIONS

SEATING FOR NEW INSTALLATION

It is normal that the shrouds migrate back slightly with the force of the machine.
Therefore, it is recommended that the following procedure be followed to ensure proper seating of the shrouds.

Instructions:

1. Run machine for 10 non-production cycles.
2. Remove 2nd locking nut from shroud installation.
3. Re-tighten the 1st locking nut for any movement.
4. Re-install 2nd locking nut
5. Release machine for production.

Note: if the first nut on any installation is excessively loose, then repeat this procedure.

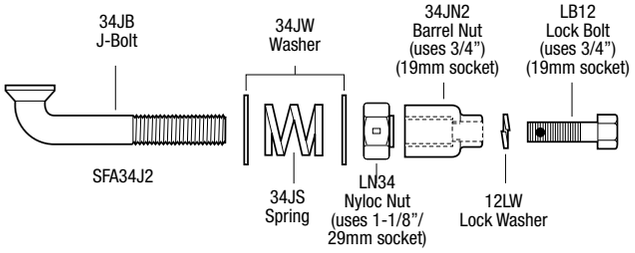
RETIGHTENING AND MAINTENANCE

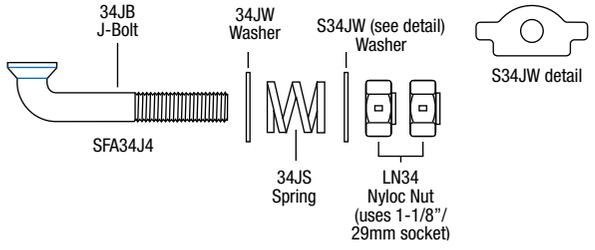
Check and retighten the nuts after 6 hours of service, then after 24 hrs. Generally, nuts should be periodically checked after 750 to 1000 hrs. In extreme conditions, and 1500 to 2000 hrs. In moderate conditions, or by the frequency dictated by your specific application.

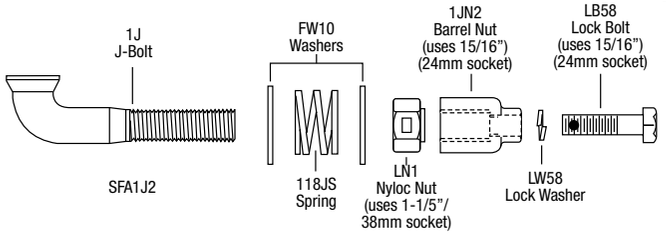
J -BOLT INSTALLATION AND WELDING

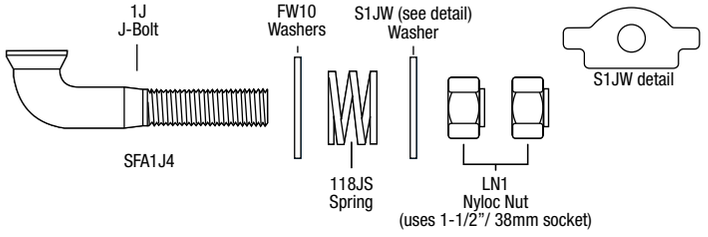
Vertical Wing Shrouds - Loaders, Excavators & Face Shovels

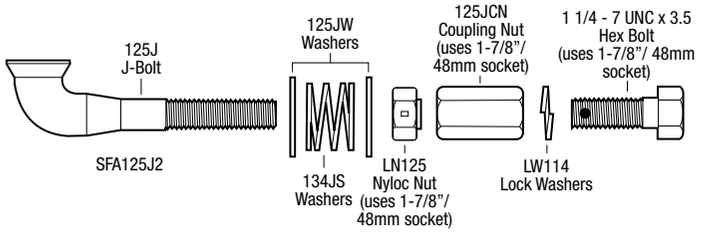
J-bolt Assemblies

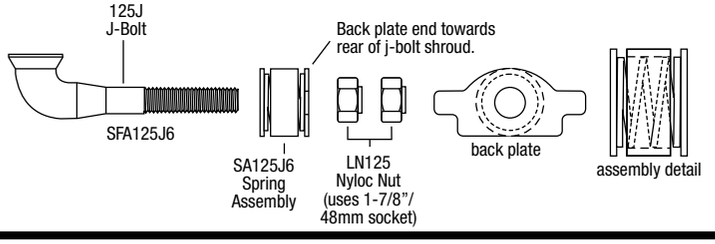




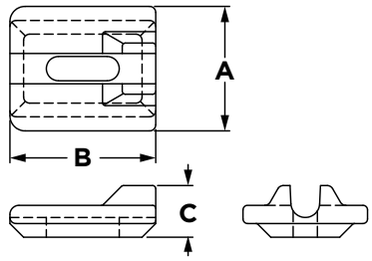








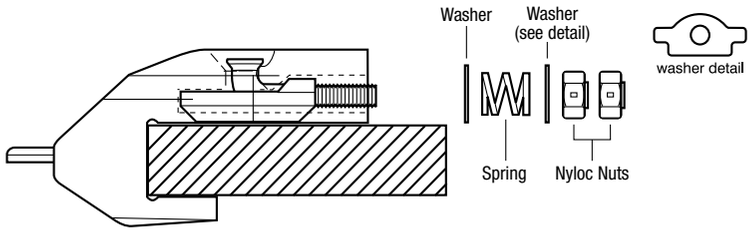
Weld Base



J-BOLT BASES

Part No.	Dimensions						Weight	
	A		B		C			
	"	mm	"	mm	"	mm	lb	kg
LSWB-3	3.9	98	4.5	114	1.4	36	3.2	1.5
LSWB-6	6.6	168	6.75	171	2.75	70	13.5	6.1
LSWB-8	5.1	130	5.25	133	1.9	48	6.5	2.9

J -BOLT INSTALLATION AND WELDING
Vertical Wing Shrouds - Loaders, Excavators & Face Shovels



Typical Shroud Assembly With Hardware
(Shown for illustrative purposes only. Not all assemblies use all hardware shown.)

IMPORTANT NOTE: READ ALL OF THE INSTRUCTIONS COMPLETELY PRIOR TO ASSEMBLY

STEP 1- NEW & REPLACEMENT INSTALLATION

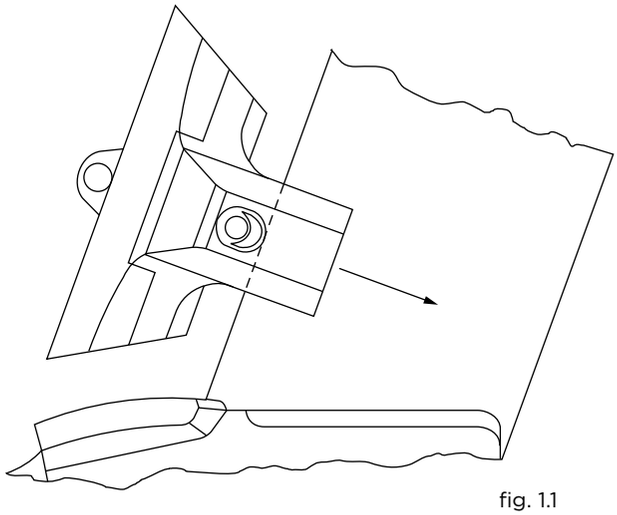


fig. 1.1

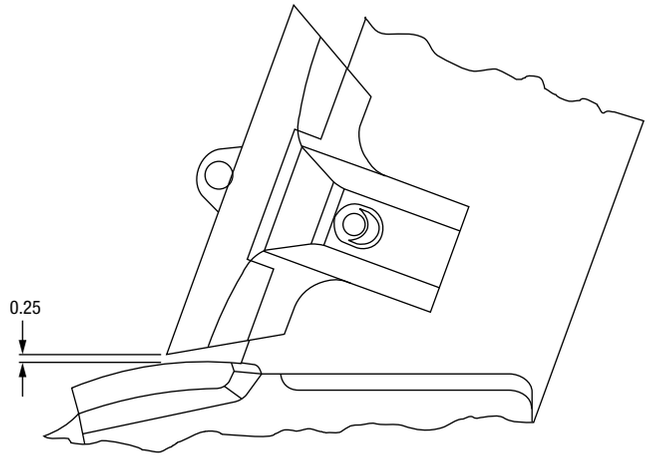
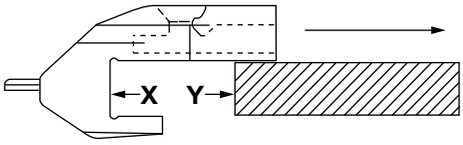


fig. 1.2



NEW INSTALLATION
Position the shroud on the bucket side plate making sure that the **blunt** throat surface of the shroud "X" contacts the **blunt** front surface of the lip "Y" (fig. 1.1).

NOTE: This contact must be maintained throughout the assembly process to insure the proper location of the weld base.

Position the shroud so it is approximately 1/4" above the corner adapter (fig. 1.2).

REPLACEMENT INSTALLATION
Grind the top surface of the lip material that will be affected by weld. Insure all carbon slag or other impurites from the removal of the old base are ground out. The use of non-destructive testing at this point will help determine if there are any cracks present in the base material. Repair base material as needed. (Now proceed as with new installation.)

J -BOLT INSTALLATION AND WELDING
Vertical Wing Shrouds - Loaders, Excavators & Face Shovels

STEP 2

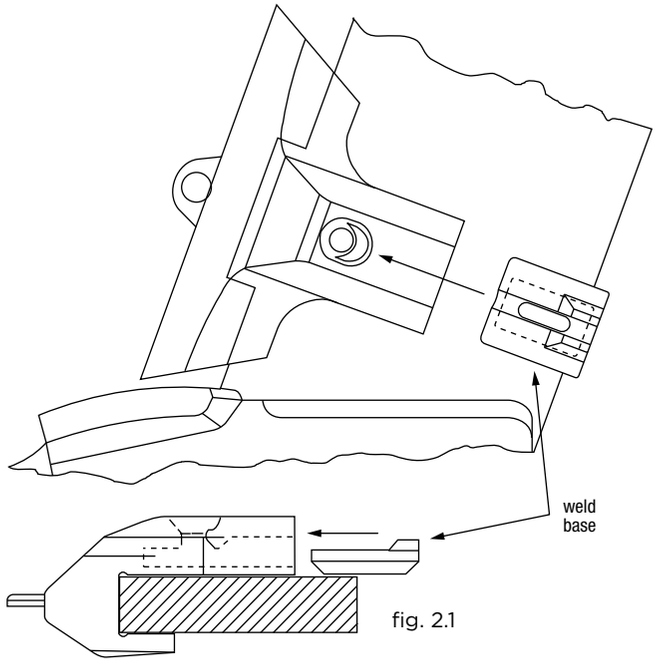


fig. 2.1

Slide the weld base from the rear into the receiving slots of the shroud (fig. 2.1)

STEP 3

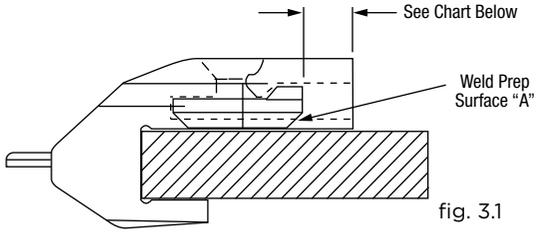


fig. 3.1

Position the weld base according to the chart below (a deviation of 33/32" (2.5 mm) is allowable). After placement has been confirmed, preheat the base material to 300°F/147°C and tack weld the base at the rear along weld prep surface "A" (fig.3.1).

WELD BASE PLACEMENT (33/32" (2.5mm) allowable)		
BASE	**INCHES**	**MM**
LSWB3	2-1/4"	(57)
LSWB6	3-1/2"	(87)
LSWB8	2-1/4"	(57)

STEP 4

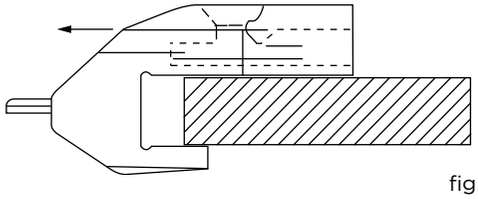


fig. 4.1

Remove the shroud and prepare to weld-out the base by re-establishing the preheat temperature of 300°F/147°C for the base material (fig4.1). Maintain this temperature throughout the welding process.

J -BOLT INSTALLATION AND WELDING
Vertical Wing Shrouds - Loaders, Excavators & Face Shovels

SPECIAL NOTES

Recommended filler material: AWS specification A5.1, class E7018, stick electrode. Stick electrodes should be kept in a heated rod oven at 250°/120°C prior to use.

NOTE: See manufacturers recommended procedures for storage and preservation of low hydrogen electrodes.

Recommended weld types: Stringer beads are recommended for higher strength and less distortion. The use of weave or wash beads is **NOT** recommended and should not be used. Arc strikes should be avoided or ground down.

STEP 5

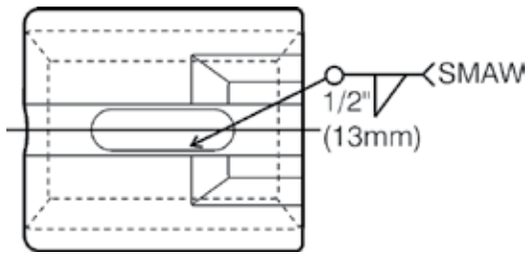


fig. 5.1

Weld-out for the base should begin with the slot weld. A 1/2"(13mm) fillet weld should be deposited in this area (fig. 5.1).

BE SURE THAT THE ENTIRE BOTTOM SURFACE OF THE WELD BASE MAINTAINS CONTACT WITH THE LIP DURING ENTIRE WELD-OUT PROCESS.

STEP 6

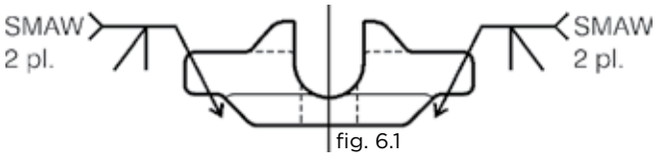


fig. 6.1

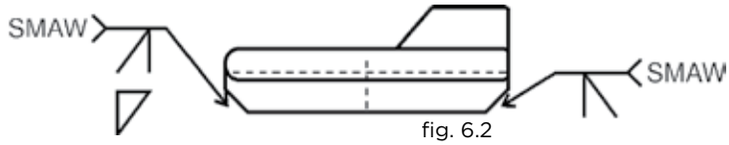


fig. 6.2

Apply weld to the base perimeter next. Utilizing groove welds, fill the 1/2"(13mm) weld groove on the base completely (fig. 6.1 & fig. 6.2). Care must be taken at this point not to add too much weld. If joint is over welded, the weld material can interfere with the lip shroud. The idea is to add as much weld as possible to the base without causing interference with the lip shroud (fig. 6.3 & fig. 6.4)

When the welding process has been completed, allow a slow cool down period to ambient temperature. A cool down rate of no greater than 35OF/2OC per hour is recommended.

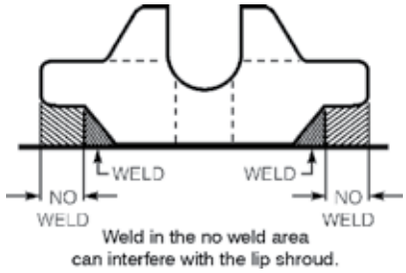


fig. 6.3

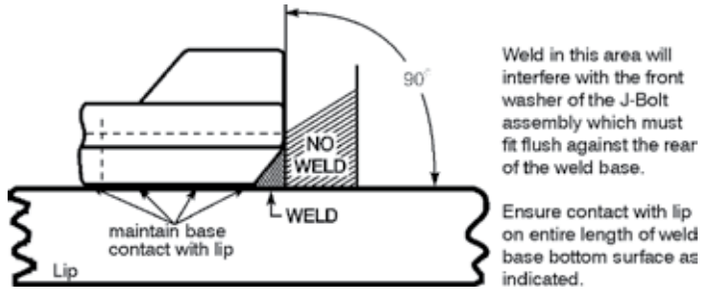
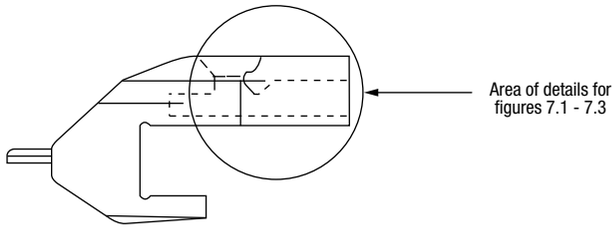


fig. 6.4

J -BOLT INSTALLATION AND WELDING
Vertical Wing Shrouds - Loaders, Excavators & Face Shovels

STEP 7



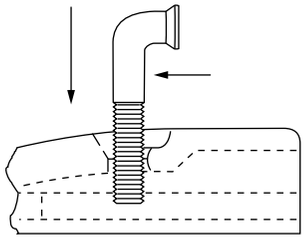


fig. 7.1

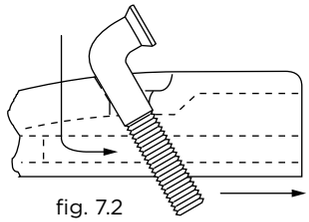


fig. 7.2

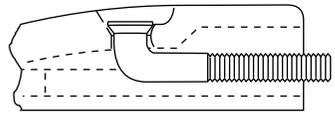


fig. 7.3

Before repositioning the shroud on the lip, insert the J-bolt into the shroud through the top hole (fig. 7.1). Rotate the bolt 90˚ so that the threaded end is facing the rear of the shroud (figs. 7.2 - 7.3).

STEP 8

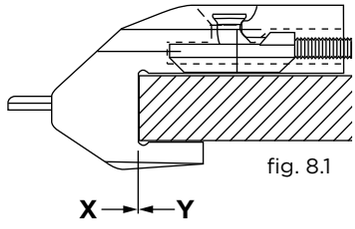


fig. 8.1

Reposition the shroud on the lip by sliding it onto the weld base as far as it will go, once again, making sure surface “X"contacts surface “Y"(fig. 8.1).

STEP 9 (J4 J-bolt assemblies)

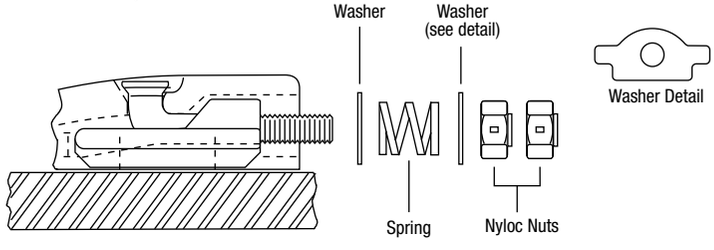


fig. 9.1A

Attach the washers, the spring and the nuts in the order indicated for J-bolt assembly type J4. (fig. 9.1A), [**NOTE: the locking nut cannot be hand-threaded onto the J-bolt**] then torque to specifications listed. (fig. 9.2).

J -BOLT INSTALLATION AND WELDING
Vertical Wing Shrouds - Loaders, Excavators & Face Shovels

STEP 9 (J6 J-bolt assemblies)

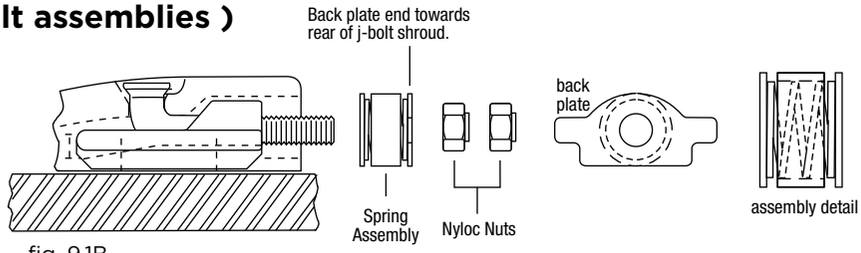


fig. 9.1B

NOTE: Above assembly is show for illustrative purposes only.
Not all assemblies utlilize all parts shown.

Attach the washers, the spring and the nuts in the order indicated for J-bolt assembly type J6. (fig. 9.1B), then torque to specifications listed. (fig. 9.2).

STEP 9 (J2 J-bolt assemblies used with optional cap)

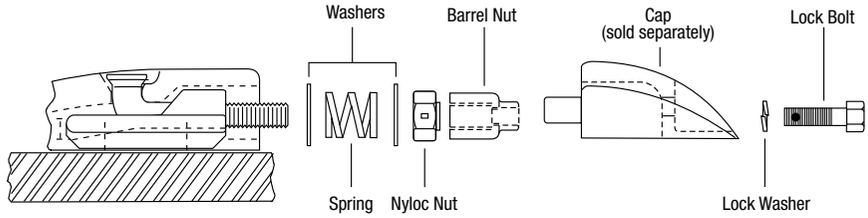


fig. 9.1C

NOTE: Above assembly is show for illustrative purposes only.
Not all assemblies utlilize all parts shown.

Attach the washers, the spring and the nuts in the order indicated for J-bolt assembly type J2. (fig. 9.1C), then torque to specifications listed. (fig. 9.2). Finish assembly by installing cap (if part of assembly) with lock washer and cap bolt.

J-Bolt Assembly Torque Recommendations

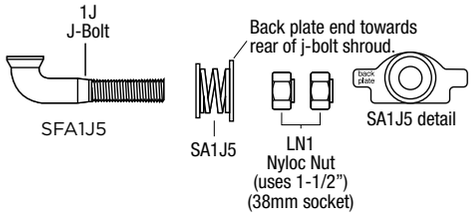
J-BOLT ASSEMBLY	LOCKING NUT MAX TORQUE		GRADE 8 BOLT MAX TORQUE	
	ft-lbs	Nm	ft-lbs	Nm
SFA34J2	175	237	NA	NA
SFA34J4	175	237	NA	NA
SFA1J2	200	271	NA	NA
SFA1J4	200	271	NA	NA
SFA125J2	225	305	NA	NA
SFA125J6	225	305	NA	NA

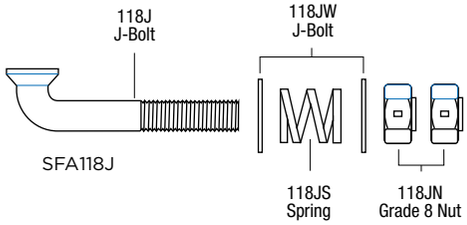
fig. 9.2

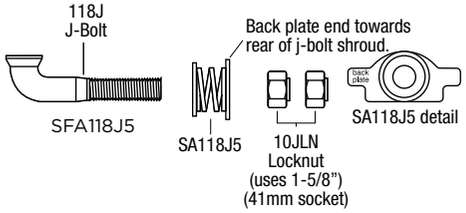
SPECIAL NOTE
For best results, it may be necessary to re-torque all fastener components periodically depending on the application. Usually, re-torquing components after a few hours of machine operation will insure component security.

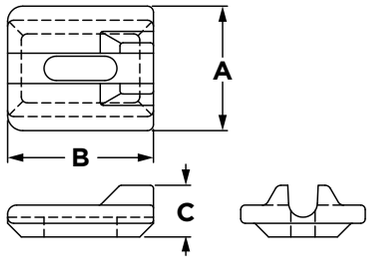
J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Dippers

J-bolt Assemblies

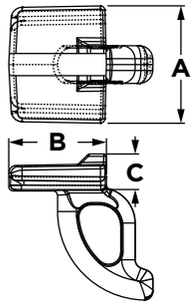




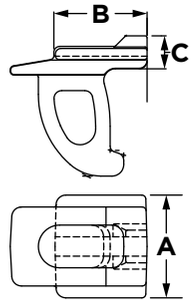




J-BOLT BASES								
Part No.	Dimensions						Weight	
	A		B		C			
	"	mm	"	mm	"	mm	lb	kg
LSWB-1	5.1	130	6.0	152	2.1	54	8.5	3.9
LSWB-2	8.4	213	6.0	152	2.4	62	19.0	8.6
LSWB-3	3.9	98	4.5	114	1.4	36	3.2	1.5
LSWB-5	6.6	168	6.0	152	2.4	62	15.0	6.8



Type 1

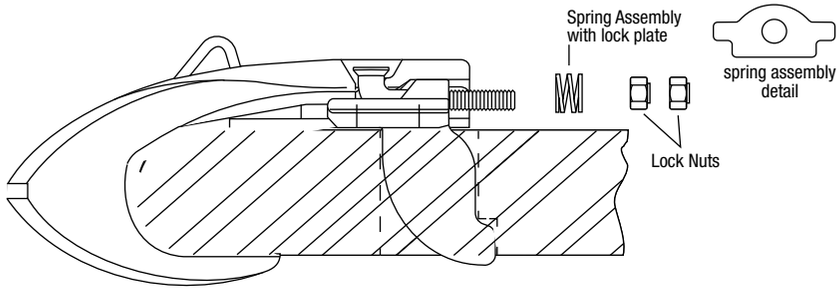


Type 2

WELDLESS J-BOLT BASES									
Part No.	Type	Dimensions						Weight	
		A		B		C			
		"	mm	"	mm	"	mm	lb	kg
LSB-1	1	6.6	168	5.5	168	2.0	51	25	11.3
LSB-2	1	6.6	168	5.6	143	2.3	59	24	10.9
LSB-3	2	6.6	168	6.0	152	2.5	63	35	15.9
LSB-4	1	6.6	168	6.2	157	2.2	55	31	14.1

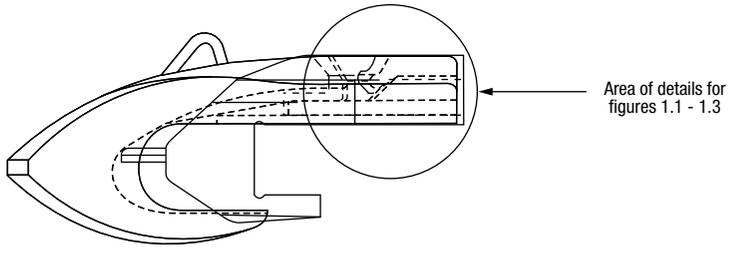
J-BOLT INSTALLATION USING WELDLESS BASE

IMPORTANT NOTE: READ ALL OF THE INSTRUCTIONS COMPLETELY PRIOR TO ASSEMBLY



Typical Shroud Assembly With Hardware (Not all assemblies use all hardware shown.)

STEP 1



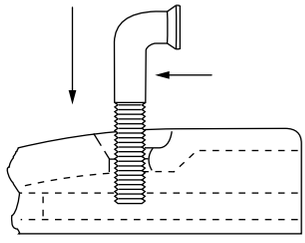


fig. 1.1

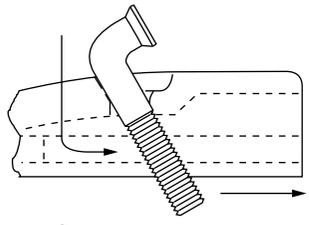


fig. 1.2

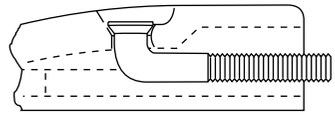


fig. 1.3

Before placing the shroud on the lip, insert the J-bolt into the shroud through the top hole (fig. 1.1). Rotate the bolt 90˚ so that the threaded end is facing the rear of the shroud (figs. 1.2 - 1.3).

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Dippers

STEP 2

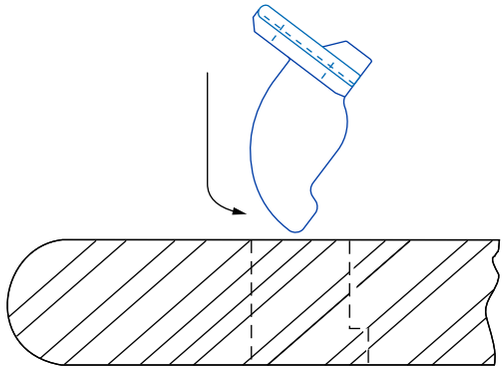


fig. 2.1

Insert the base (LSB1) into the lip (fig. 2.1)

STEP 3

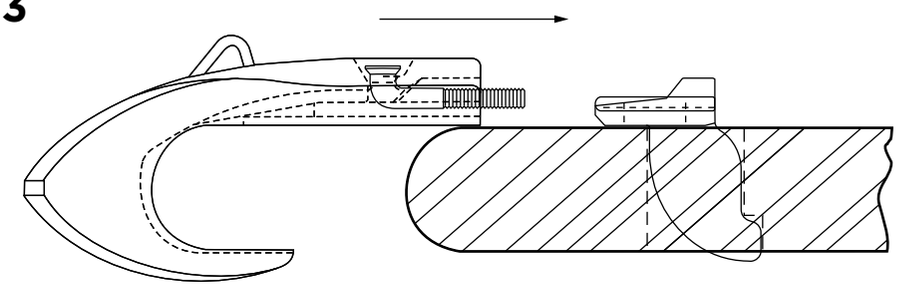


fig. 3.1

Slide shroud (with J-bolt installed)
onto lip and the base (fig. 3.1).

STEP 4 (J J-bolt assemblies)

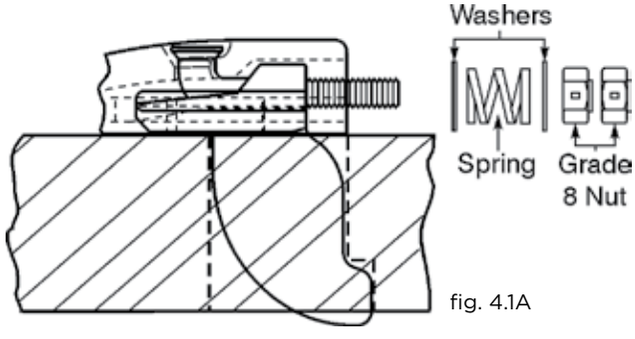


fig. 4.1A

Attach the washers, the spring and the nuts in the order indicated for J-bolt assembly type J. (fig. 4.1A),
[NOTE: the locking nut cannot be hand-threaded onto the J-bolt]
then torque to specifications listed. (fig. 4.2).

STEP 4 (J5 J-bolt assemblies)

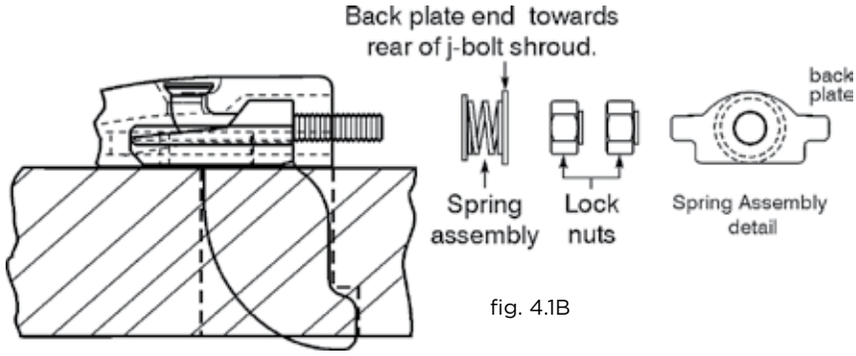


fig. 4.1B

Attach the washers, the spring and the nuts in the order indicated for J-bolt assembly type J. (fig. 4.1A),
[NOTE: the locking nut cannot be hand-threaded onto the J-bolt]then torque to specifications listed. (fig. 4.2).

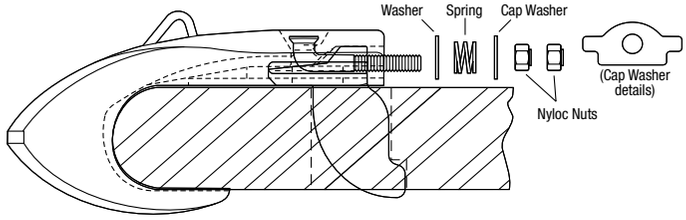
J-Bolt Assembly Torque Recommendations

J-BOLT ASSEMBLY	LOCKING NUT MAX TORQUE		GRADE 8 BOLT MAX TORQUE	
	ft-lbs	Nm	ft-lbs	Nm
SFA1J5	200	271	NA	NA
SFA118J	NA	NA	200	271

SPECIAL NOTE
For best results, it may be necessary to re-torque all fastener components periodically depending on the application. Usually, re-torquing components after a few hours of machine operation will insure component security.

J-BOLT INSTALLATION USING WELD-ON BASE

IMPORTANT NOTE: READ ALL OF THE INSTRUCTIONS COMPLETELY PRIOR TO ASSEMBLY



Typical Shroud Assembly With Hardware (Not all assemblies use all hardware shown.)

IMPORTANT NOTE: BEFORE starting any welding, it must be determined if the cast lip is CARBON ALLOY or MANGANESE due to different preheat and filler material requirements. A CARBON ALLOY lip is magnetic; a MANGANESE lip is not. Use a magnet to determine your lip type and follow the appropriate welding procedures as laid out in the following steps.

STEP 1- NEW INSTALLATION

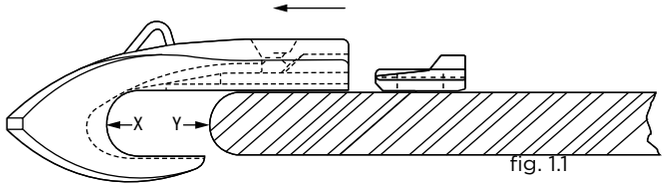


fig. 1.1

Position the shroud on the lip making sure that the throat surface of the shroud “X" contacts the front surface of the lip “Y". (fig. 1.1).
NOTE: This contact must be maintained throughout the assembly process to insure the proper location of the weld base.

STEP 1- REPLACEMENT INSTALLATION

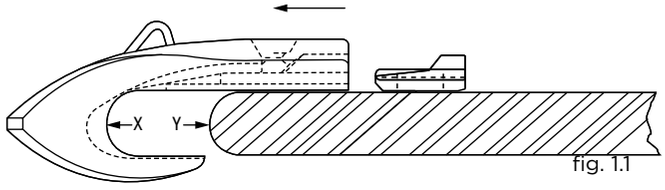


fig. 1.1

Grind the top surface of the lip material that will be affected by weld. Insure all carbon slag or other impurites from the removal of the old base are ground out. The use of non-destructive testing at this point will help determine if there are any cracks present in the base material. Repair base material as needed. (Now proceed as with new installation.)
Position the shroud on the lip making sure that the throat surface of the shroud “X" contacts the front surface of the lip “Y" (fig. 1.1).
NOTE: This contact must be maintained throughout the assembly process to insure the proper location of the weld base.

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Dippers

STEP 2

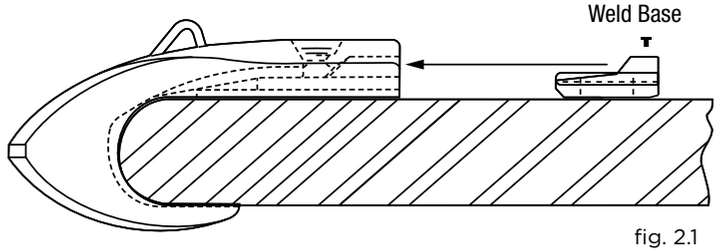


fig. 2.1

Slide the weld base from the rear into the receiving slots of the shroud (fig. 2.1)

STEP 3

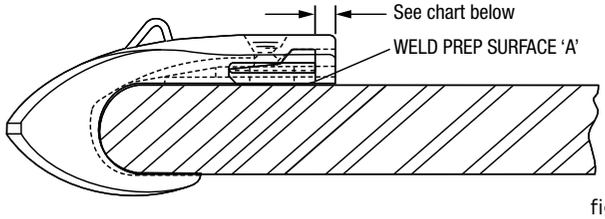


fig. 3.1

MANGANESE ALLOY CAST STEEL LIP
Position the weld base according to the chart below (a deviation of 33/32" (2.5 mm) is allowable). After placement has been confirmed, determine if preheating of the base material is necessary. If the base metal temperature is above 40˚F(4.4˚C) **NO** preheat is required. If the base metal temperature is below 40˚F(4.4˚C), the base metal MUST BE preheated to a minimum of 70˚F(21˚C). Once preheat requirements are determined and met, tack weld the base at the rear along weld prep surface "A" (fig. 3.1).

CARBON ALLOY CAST STEEL LIP
Position the weld base according to the chart below (a deviation of 33/32" (2.5 mm) is allowable). After placement has been confirmed, preheat the base material to 300˚F/147˚C and tack weld the base at the rear along weld prep surface "A" (fig. 3.1).

WELD BASE PLACEMENT (33/32" (2.5mm) allowable)		
BASE	INCHES	MM
LSWB1	2-1/4"	(57)
LSWB2	2-1/4"	(57)
LSWB3	2-1/4"	(57)
LSWB5	2-1/4"	(57)

STEP 4

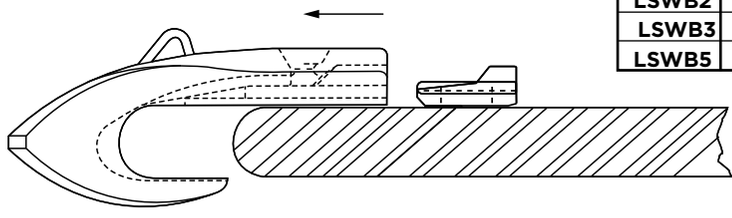


fig. 4.1

MANGANESE ALLOY CAST STEEL LIP
Remove the shroud and prepare to weld-out the base by determining if reheating of the base material (fig. 4.1) is necessary. If the base metal temperature is above 40˚F(4.4˚C) reheating is NOT required. If the base metal temperature is below 40˚F(4.4˚C), the base metal MUST BE reheated to a minimum of 70ºF(21˚C). Maintain this temperature throughout the welding process.

CARBON ALLOY STEEL LIP
Remove the shroud and prepare to weld-out the base by re-establishing the preheat temperature of 30˚˚F/147˚C for the base material (fig. 4.1). Maintain this temperature throughout the welding process.

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Dippers

SPECIAL NOTES

Recommended filler material: **Carbon Alloy Cast Steel Lip**
AWS specification A5.1, class E7018, stick electrode.

Manganese Alloy Cast Steel Lip
AWS specification A5.4, class E308L-16, stick electrode.

NOTE: Stick electrodes should be kept in a heated rod oven at 250˚/120˚C prior to use. See manufacturers recommended procedures for storage and preservation of low hydrogen and stainless steel electrodes.

Recommended weld types: Recommended weld types: Stringer beads are recommended for higher strength and less distortion. The use of weave or wash beads is **NOT** recommended and should not be used. Arc strikes should be avoided or ground down.

STEP 5

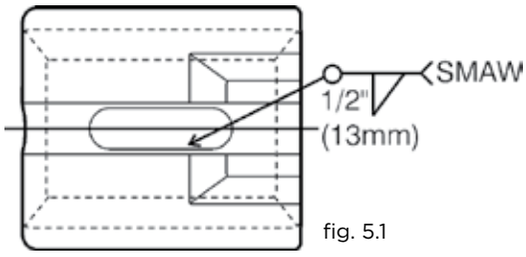


fig. 5.1

Weld-out for the base should begin with the slot weld. A 1/2"(13mm) fillet weld should be deposited in this area (fig. 5.1).

BE SURE THAT THE ENTIRE BOTTOM SURFACE OF THE WELD BASE MAINTAINS CONTACT WITH THE LIP DURING ENTIRE WELD-OUT PROCESS.

STEP 6

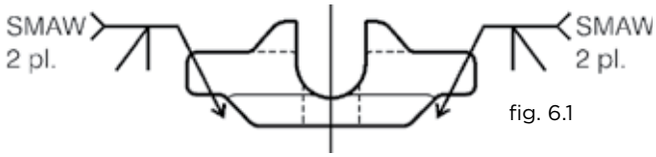


fig. 6.1

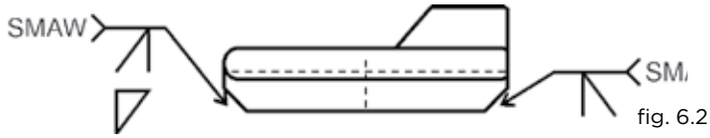
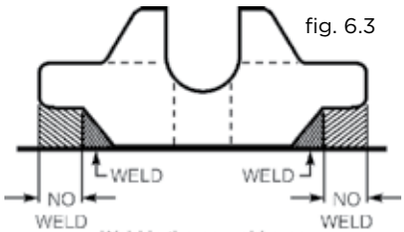


fig. 6.2

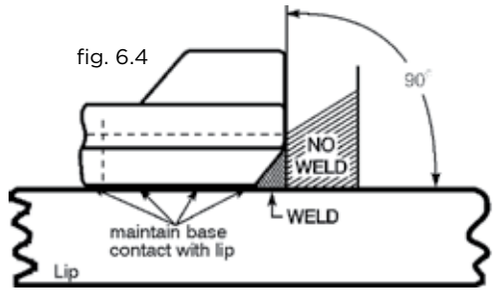
Apply weld to the base perimeter next. Utilizing groove welds, fill the 1/2"(13mm) weld groove on the base completely (fig. 6.1 & fig. 6.2). Care must be taken at this point not to add too much weld. If joint is over welded, the weld material can interfere with the lip shroud. The idea is to add as much weld as possible to the base without causing interference with the lip shroud (fig. 6.3 & fig. 6.4) When the welding process has been completed, allow a slow cool down period to ambient temperature. A cool down rate of no greater than 35OF/2OC per hour is recommended.

fig. 6.3



Weld in the no weld area
can interfere with the lip shroud.

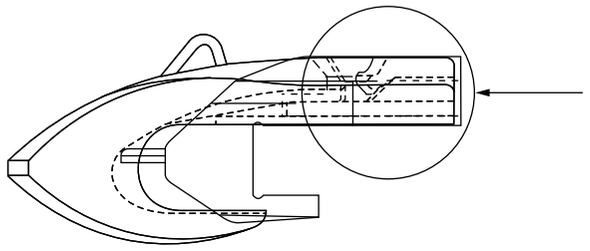
fig. 6.4

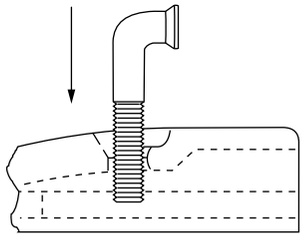


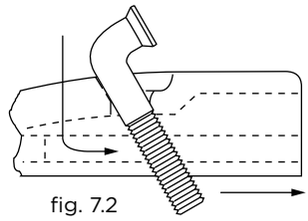
Weld in this area will interfere with the front washer of the J-Bolt assembly which must fit flush against the rear of the weld base.

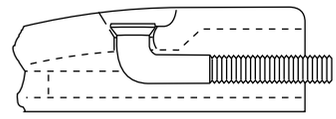
Ensure contact with lip on entire length of weld base bottom surface as indicated.

STEP 7



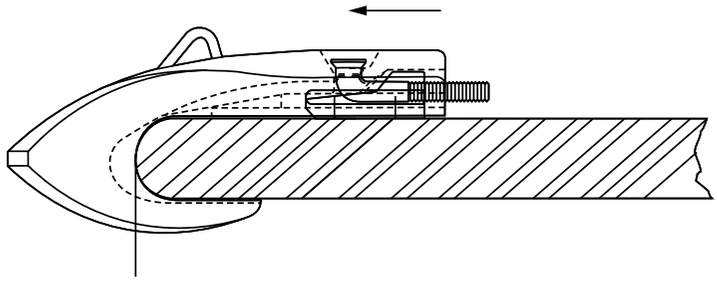

fig. 7.1


fig. 7.2


fig. 7.3

Before repositioning the shroud on the lip, insert the J-bolt into the shroud through the top hole (fig. 7.1). Rotate the bolt 90˚ so that the threaded end is facing the rear of the shroud (figs. 7.2 - 7.3).

STEP 8


fig. 8.1

Reposition the shroud on the lip by sliding it onto the weld base as far as it will go, once again, making sure surface “X" contacts surface “Y"(fig. 8.1).

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for Dippers

STEP 9A

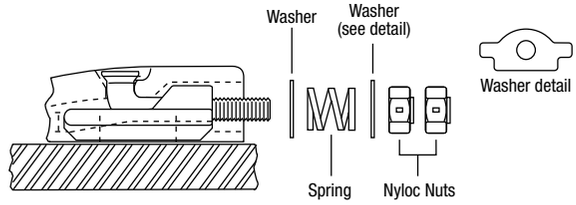


fig. 9.1A

Attach the round washer, spring, cap washer and the nuts in the order indicated for J-bolt assembly (SFA1J5) (fig. 9.1A), **[NOTE: the locking nut cannot be hand-threaded onto the J-bolt]** then torque to specifications listed. (fig. 9.2)

STEP 9B

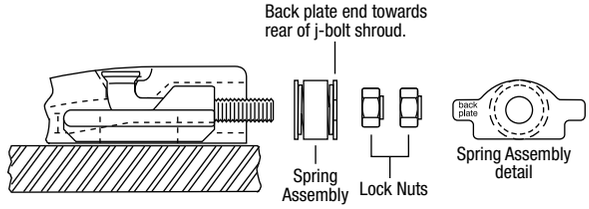


fig. 9.1B

Attach the washers, the spring and the nuts in the order indicated for J-bolt assembly (SFA118J) (fig. 9.1B) **[NOTE: the Grade 8 nuts cannot be hand-threaded onto the J-bolt]** then torque to specifications listed. (fig. 9.2).

J-Bolt Assembly Torque Recommendations

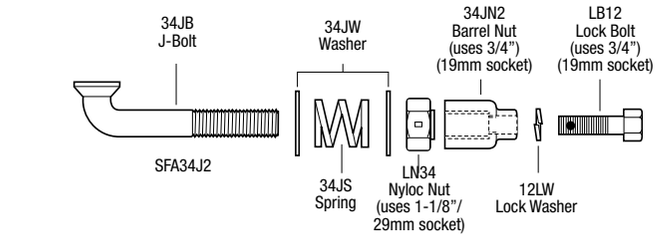
J-BOLT ASSEMBLY	LOCKING NUT		GRADE 8 BOLT	
Part No.	**ft-lbs**	**Nm**	**ft-lbs**	**Nm**
SFA1J5	271	NA	NA	NA
SFA118J	NA	NA	200	271

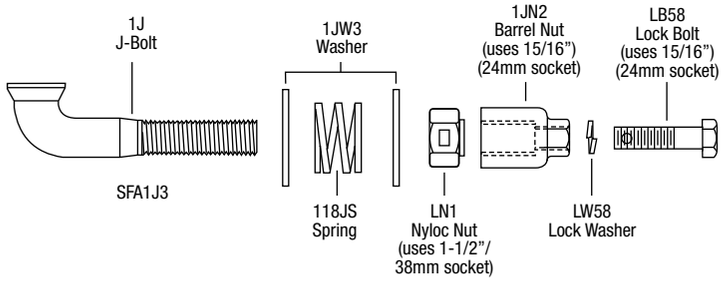
fig. 9.2

SPECIAL NOTE
For best results, it may be necessary to re-torque all fastener components periodically depending on the application. Usually, re-torquing components after a few hours of machine operation will insure component security.

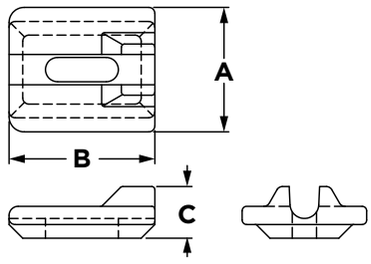
J -BOLT INSTALLATION AND WELDING
Lip Shrouds for LHD Scoop Trams

J-bolt Assemblies



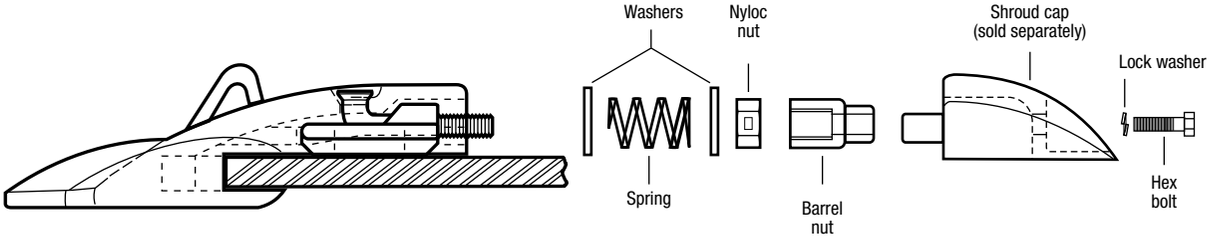


Weld Base



J-BOLT BASES								
Part No.	Dimensions						Weight	
	A		B		C			
	"	mm	"	mm	"	mm	lb	kg
LSWB-1	5.1	130	6.0	152	2.1	54	8.5	3.9
LSWB-3	3.9	98	4.5	114	1.4	36	3.2	1.5

IMPORTANT NOTE: READ ALL OF THE INSTRUCTIONS COMPLETELY PRIOR TO ASSEMBLY



Typical Shroud Assembly With Hardware
(Not all assemblies use all hardware shown.)

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for LHD Scoop Trams

STEP 1- NEW INSTALLATION

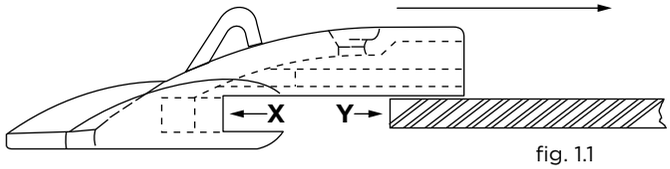


fig. 1.1

Position the shroud on the lip making sure that the **blunt** throat surface of the shroud "X" contacts the blunt front surface of the lip "Y" (fig. 1.1).

NOTE: This contact must be maintained throughout the assembly process to insure the proper location of the weld base.

STEP 1- REPLACEMENT INSTALLATION

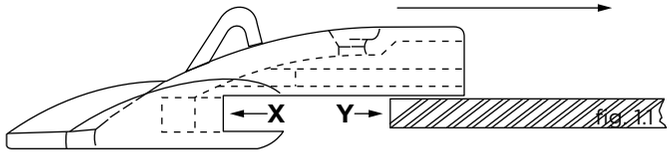


fig. 1.1

Grind the top surface of the lip material that will be affected by weld. Insure all carbon slag or other impurites from the removal of the old base are ground out. The use of non-destructive testing at this point will help determine if there are any cracks present in the base material. Repair base material as needed. (Now proceed as with new installation.)

Position the shroud on the lip making sure that the **blunt** throat surface of the shroud "X" contacts the **blunt** front surface of the lip "Y" (fig. 1.1).

NOTE: This contact must be maintained throughout the assembly process to insure the proper location of the weld base.

STEP 2

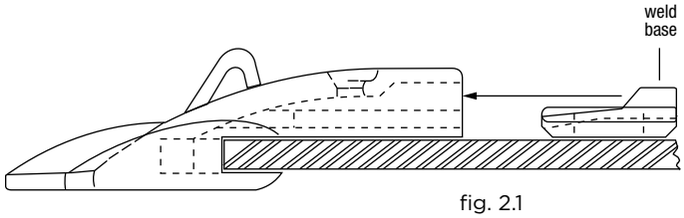


fig. 2.1

Slide the weld base from the rear into the receiving slots of the shroud (fig. 2.1)

STEP 3

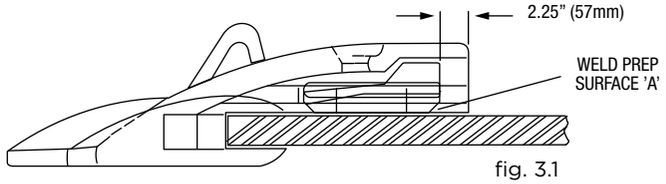
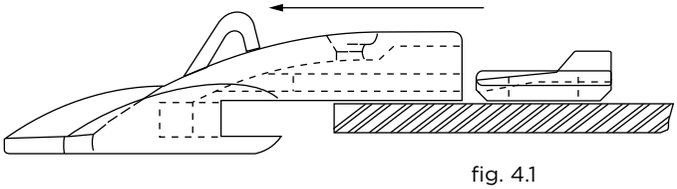


fig. 3.1

After placement has been confirmed, preheat the base material to 30˚F/147˚C and tack weld the base at the rear along weld prep surface "A" (fig.3.1).

STEP 4


fig. 4.1

Remove the shroud and prepare to weld-out the base by re-establishing the preheat temperature of 300˚F/147˚C for the base material (fig4.1). Maintain this temperature throughout the welding process.

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for LHD Scoop Trams

SPECIAL NOTES

Recommended filler material: AWS specification A5.1, class E7018, stick electrode. Stick electrodes should be kept in a heated rod ovenat 250˚/120˚C prior to use

NOTE: See manufacturers recommended procedures for storage and preservation of low hydrogen electrodes.

Recommended weld types: Stringer beads are recommended for higher strength and less distortion. The use of weave or wash beads is **NOT** recommended and should not be used. Arc strikes should be avoided or ground down.

STEP 5

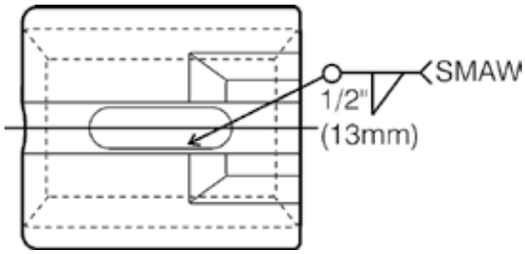


fig. 5.1

Weld-out for the base should begin with the slot weld. A 1/2"(13mm) fillet weld should be deposited in this area (fig. 5.1).

BE SURE THAT THE ENTIRE BOTTOM SURFACE OF THE WELD BASE MAINTAINS CONTACT WITH THE LIP DURINGENTIRE WELD-OUT PROCESS.

STEP 6

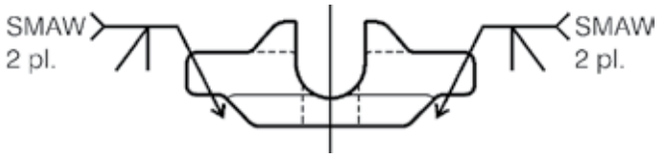


fig. 6.1

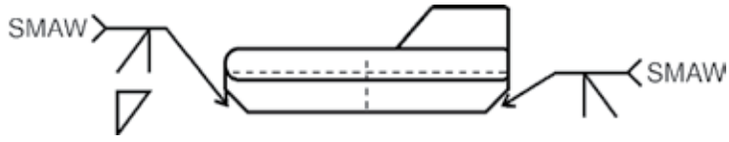


fig. 6.2

Apply weld to the base perimeter next. Utilizing groove welds, fill the 1/2"(13mm) weld groove on the base completely (fig. 6.1 & fig. 6.2). Care must be taken at this point not to add too much weld. If joint is over welded, the weld material can interfere with the lip shroud. The idea is to add as much weld as possible to the base without causing interference with the lip shroud (fig. 6.3 & fig. 6.4)

When the welding process has been completed, allow a slow cool down period to ambient temperature. A cool down rate of no greater than 35˚F/2˚C per hour is recommended.

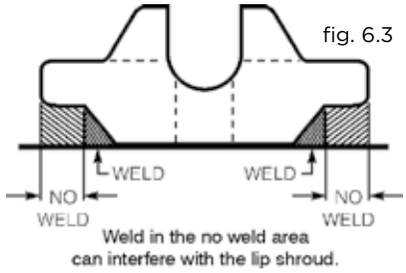
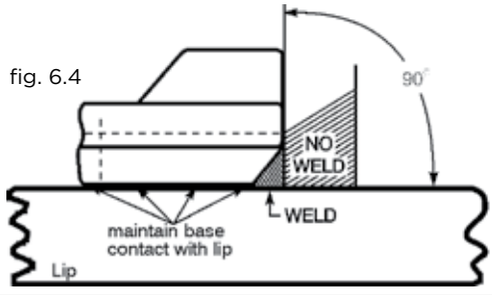


fig. 6.3

fig. 6.4

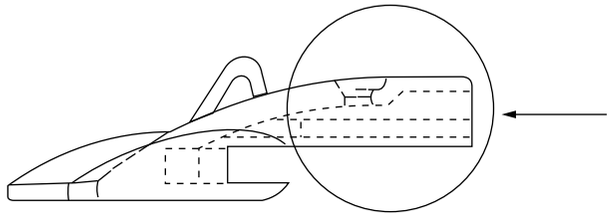


Weld in this area will interfere with the front washer of the J-Bolt assembly which must fit flush against the rear of the weld base.

Ensure contact with lip on entire length of weld base bottom surface as indicated.

J -BOLT INSTALLATION AND WELDING
Lip Shrouds for LHD Scoop Trams

STEP 7



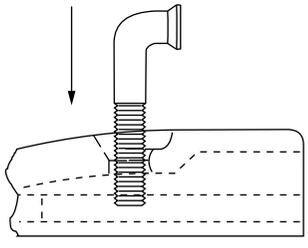


fig. 7.1

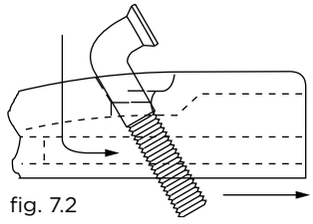


fig. 7.2

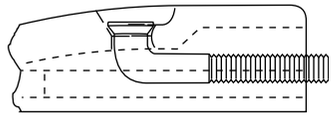
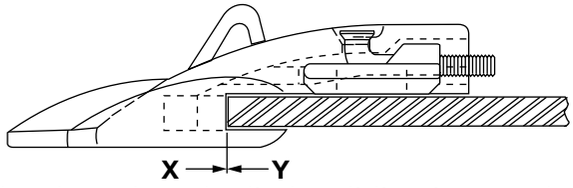


fig. 7.3

Before repositioning the shroud on the lip, insert the J-bolt into the shroud through the top hole (fig. 7.1). Rotate the bolt 90˚ so that the threaded end is facing the rear of the shroud (figs. 7.2 - 7.3).

STEP 8

fig. 8.1



Reposition the shroud on the lip by sliding it onto the weld base as far as it will go, once again, making sure surface “X"contacts surface “Y"(fig. 8.1).

STEP 9 (J2 & J3 J-bolt Assemblies)

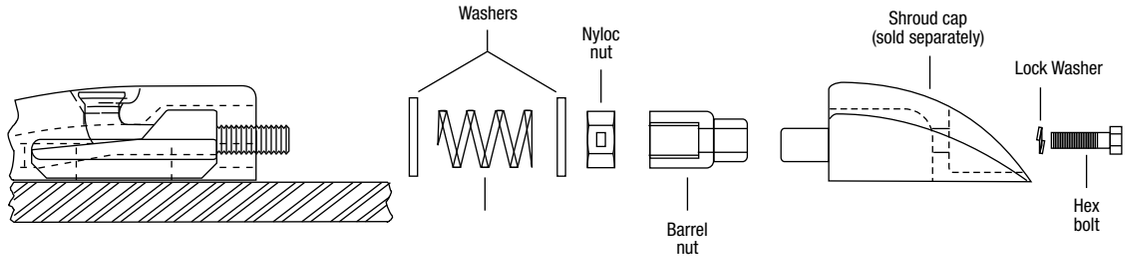


fig. 9.1

Attach the washers, the spring and the nuts in the order indicated for J-bolt assembly type J4. (fig. 9.1),
[NOTE: the locking nut cannot be hand-threaded onto the J-bolt] then torque to specifications listed. (fig. 9.2).

J-Bolt Assembly Torque Recommendations

J-BOLT ASSEMBLY	LOCKING NUT		GRADE 8 BOLT	
	ft-lbs	Nm	ft-lbs	Nm
SFA34J2	175	237	NA	NA
SFA1J3	271	NA	NA	NA

fig. 9.2

SPECIAL NOTE
For best results, it may be necessary to re-torque all fastener components periodically depending on the application. Usually, re-torquing components after a few hours of machine operation will insure component security.

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5.2

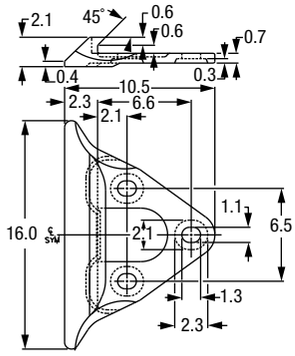
SPECIALIZED WEAR PROTECTION

SIDECUTTERS

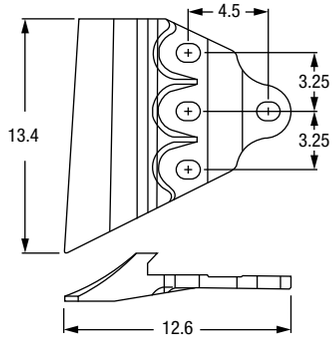
HENSLEY PROPRIETARY SIDECUTTERS
Specialized Wear Protection

BOLT PATTERN A

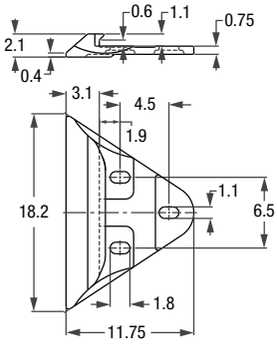
Strike - Off
SCB220-SO
21.9 lb / 9.9 kg
Uses (3) 1" diameter plow bolts



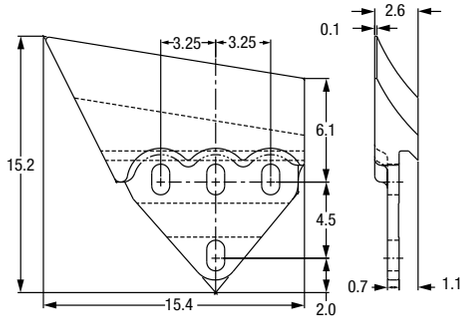
B312RH (RH Shown)
B311LH (LH Opposite)
29.8 lb / 13.5 kg
Uses (4) 1" diameter plow bolts
Additional cutting width
1.5" per side, 3" overall



Strike - Off
SCB330-SO
33.0 lb / 15.0 kg
Uses (3) 1" diameter plow bolts



B330RH (RH Shown)
B331LH (LH Opposite)
45.2 lb / 20.5 kg
Uses (4) 1" diameter plow bolts
Additional cutting width
1.5" per side, 3" overall

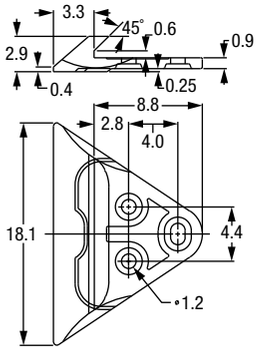


Note: Measurements are in inches.

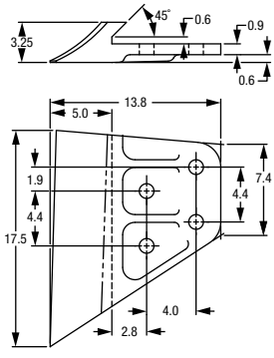
HENSLEY PROPRIETARY SIDECUTTERS
Specialized Wear Protection

BOLT PATTERN B

Strike - Off
SCB410-SO
41.8 lb / 19.0 kg
Uses (3) 1" diameter plow bolts

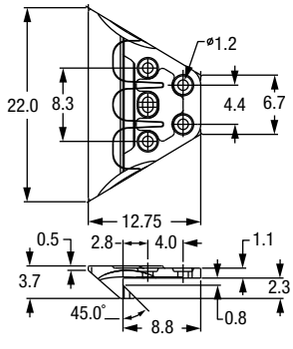


B102RH (RH Shown)
B103LH (LH Opposite)
59.2 lb / 26.9 kg
Uses (4) 1" diameter plow bolts
Additional cutting width
1.5" per side, 3" overall



BOLT PATTERN C

Strike - Off
SCB500-SO
75.5 lb / 34.2 kg
Uses (4) 1" diameter plow bolts

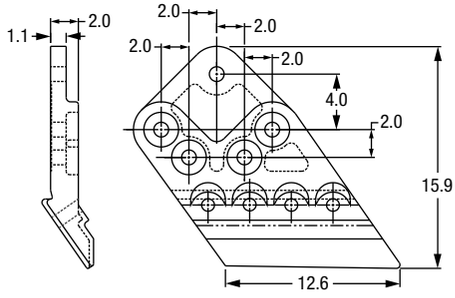


Note: Measurements are in inches.

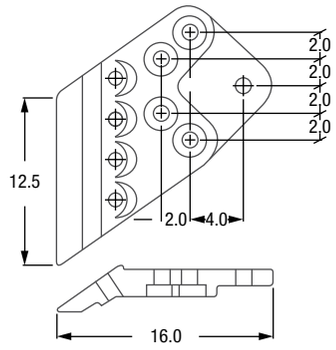
CATERPILLAR SIDECUTTERS
Specialized Wear Protection

CATERPILLAR SIDECUTTERS

8J9825HXR (RH Shown)
8J9826HXL (LH Opposite)
68.0 lb / 30.8 kg
Uses (5) 1" diameter plow bolts
Additional cutting
width 3" per side, 6" overall.
(4.5" per side and 9" overall with
combination plate 4T6664PHX)



8J9615HXR (RH Shown)
8J9614HXL (LH Opposite)
49.0 lb / 22.2 kg
Uses (3) 1" diameter plow bolts
Additional cutting width
2" per side, 4" overall.
(4" per side and 8" overall with
combination plate 4T2886BHX)

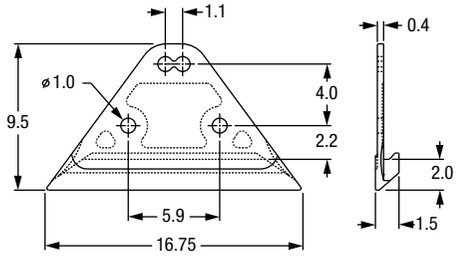


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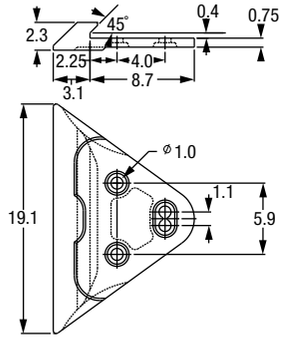
Note: Measurements are in inches.

ESCO SIDECUTTERS

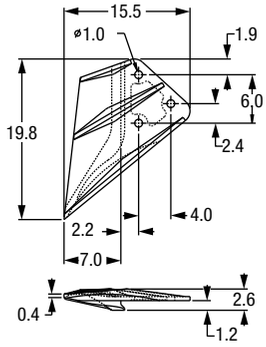
PDE34687HX
15.7 lb / 7.1 kg
Uses (3) 7/8" diameter plow bolts.



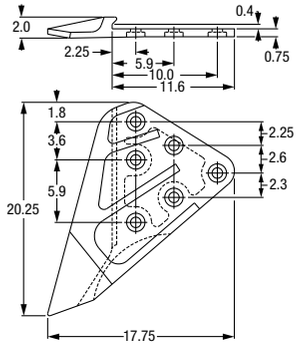
PDE31329HX
30.7 lb / 16.8 kg
Uses (6) 7/8" diameter plow bolts.



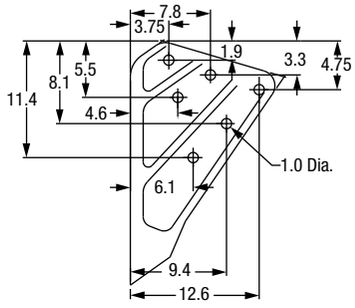
CE17748R3HX (RH Shown)
CE17748L3HX (LH Opposite)
38.2 lb / 17.3 kg



T2144AHX (RH Shown)
T2143AHX (LH Opposite)
44.4 lb / 20.1 kg
Uses (6) 7/8" diameter plow bolts
Additional cutting width
1" per side, 2" overall.



T1157AHX (RH Shown)
T1156AHX (LH Opposite)
59.5 lb / 27.0 kg
Uses (6) 7/8" diameter plow bolts
Additional cutting width
3" per side, 6" overall.

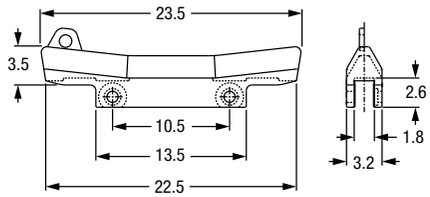


Note: Measurements are in inches.

VERTICAL SHROUDS AND KOMATSU SIDECUTTERS
Specialized Wear Protection

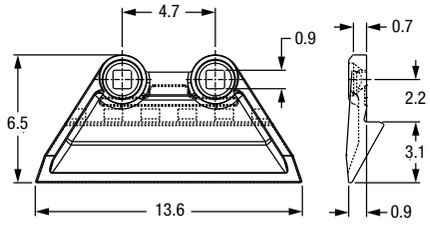
VERTICAL SHROUDS

ES5280HX
44.5 lb / 20.2 kg

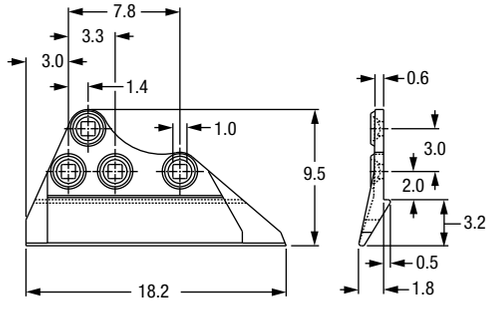


KOMATSU SIDECUTTERS

E72959HX
11.1 lb / 5.0 kg



E72958RHX (RH Shown)
E72958LHX (LH Opposite)
21.4 lb / 9.7 kg



Note: Measurements are in inches.

PLOW BOLTS
Specialized Wear Protection

PLOW BOLTS						
Plow Bolt Assemblies*				Dimensions		
w/Hex Nut	Stock No.	W/Hex Cone Nut	Stock No.	Bolt Diameter	Threads per Inch	Bolt Length
A58-212	75-1110	-	-	5/8”	11	2 1/2”
A58-234	75-1120	-	-	5/8”	11	2 3/4”
A58-300	75-1130	-	-	5/8”	11	3”
A58-312	75-1140	-	-	5/8”	11	3 1/2”
A34-212	75-1200	-	-	3/4”	10	2 1/2”
A34-234	75-1210	-	-	3/4”	10	2 3/4”
A34-300	75-1220	-	-	3/4”	10	3”
A34-314	75-1230	-	-	3/4”	10	3 1/4”
A34-312	75-1240	-	-	3/4”	10	3 1/2”
A34-334	75-1250	-	-	3/4”	10	3 3/4”
A34-400	75-1260	-	-	3/4”	10	4”
A78-300	75-1300	-	-	7/8”	9	3”
A78-314	75-1310	-	-	7/8”	9	3 1/4”
A78-312	75-1320	-	-	7/8”	9	3 1/2”
A78-334	75-1330	-	-	7/8”	9	3 3/4”
A78-400	75-1340	-	-	7/8”	9	4”
A78-412	75-1350	-	-	7/8”	9	4 1/2”
A10-212J**	75-1490	-	-	1.0”	8	2 1/2”
A10-300	75-1400	AC10-300	72-2400	1.0”	8	3”
A10-314	75-1410	-	-	1.0”	8	3 1/4”
A10-312	75-1420	AC10-312	75-2420	1.0”	8	3 1/2”
A10-334	75-1430	-	-	1.0”	8	3 3/4”
A10-400	75-1440	AC10-400	75-2440	1.0”	8	4”
A10-412	75-1450	-	-	1.0”	8	4 1/2”
A10-500	75-1460	-	-	1.0”	8	5”

*Plow Bolt Assembly consists of Plow Bolt with Nut.
**Comes w/Hex Jam nut

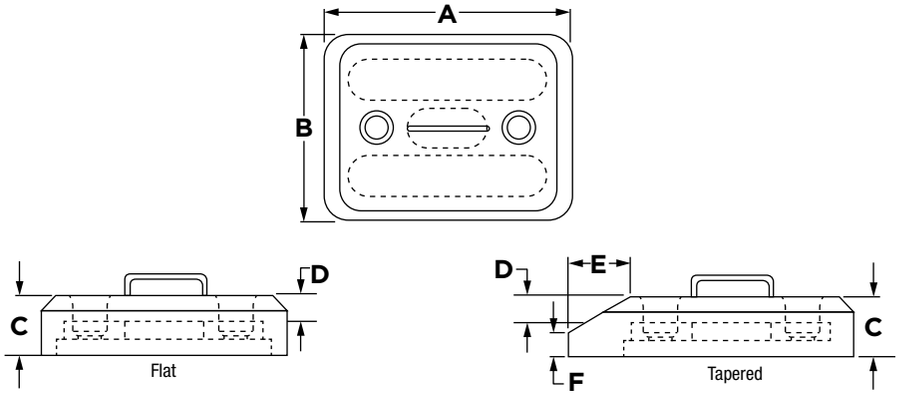
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5.3

SPECIALIZED WEAR PROTECTION

Wear Runners

BOLT-ON WEAR RUNNERS
Miscellaneous Wear Parts



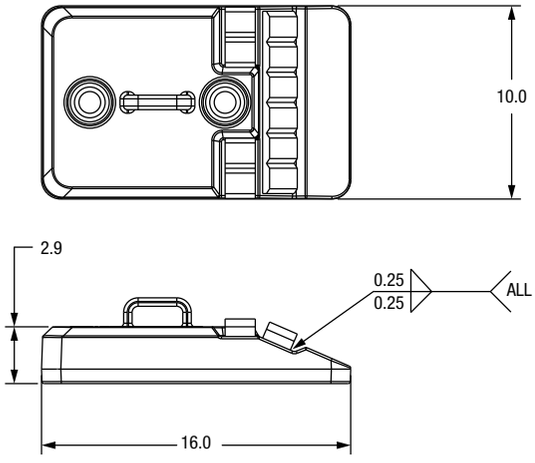
BOLT-ON WEAR RUNNERS

Part Number	Type	Dimensions												Weight		Base	Fastener Assembly
		A		B		C		D		E		F					
		"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	lb	kg		
B8X8WR175	Flat	8.0	203	8.0	203	1.75	44	0.75	19	-	-	-	-	20.0	9.1	8X8B	58125BCRN
B10X8WR175	Flat	10.0	254	8.0	203	1.75	44	0.75	19	-	-	-	-	25.5	11.6	10X8B	58125BCRN
B10X7WRS	Flat	10.0	254	7.0	178	2.9	75	1.25	32	-	-	-	-	35.5	16.1	10X7B	58125BCRN
B10X10WR275	Flat	10.0	254	10.0	254	2.75	70	1.0	25	-	-	-	-	40.0	18.1	10X10B	115BLN
B12X9WR	Flat	12.0	305	9.0	229	3.0	76	1.25	32	-	-	-	-	49.0	22.2	12X9B	115BLN
B12X9WR4	Flat	12.0	305	9.0	229	4.0	102	2.25	57	-	-	-	-	73.0	33.1	12X9B	115BLN
B12X12WR	Flat	12.0	305	12.0	305	2.9	75	1.1	29	-	-	-	-	71.8	32.6	12X12B	115BLN
B14X9WR275T	Tapered	14.0	356	9.0	229	2.75	70	1.0	25	3.0	76	1.25	32	52.5	23.8	12X9B	115BLN
B14X9WR4T	Tapered	14.0	356	9.0	229	3.9	100	1.9	49	2.75	70	1.25	32	94.3	42.8	12X9B	115BLN
B14X10WR275T	Tapered	14.0	356	10.0	254	2.75	70	1.0	25	3.0	76	1.25	32	58.0	26.3	12X10B	115BLN
B14X10WR4T	Tapered	14.0	356	10.0	254	3.9	100	1.9	49	2.75	70	1.25	32	97.8	44.4	12X10B	115BLN
B16X10WR3T	Tapered	16.0	406	10.0	254	2.9	75	1.2	30	4.8	121	0.75	19	74.5	33.8	12X10B	115BLN
AB16X10WR3TL (w / laminite)	Tapered	16.0	406	10.0	254	2.9	75	1.2	30	4.8	121	0.75	19	74.5	33.8	12X10B	115BLN

*Note: Two bolts and nuts required for each wear runner.

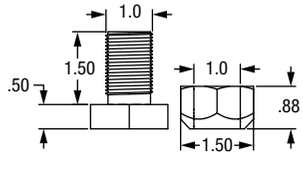
BOLT-ON WEAR RUNNER AND ASSEMBLIES

AB16X10WR3TL
Tapered with Laminite

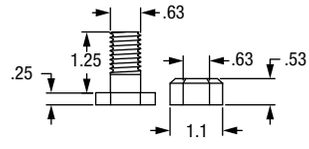


Bolt-on assembly recommended
torque spec. of 300 ft lbs

115BLN
Fine Thread

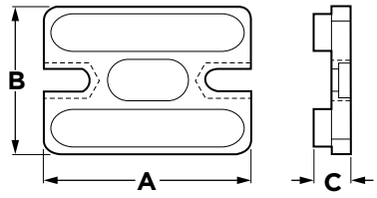


58125BCRN
Coarse Thread



Note: Measurements are in inches.

BOLT-ON WEAR RUNNERS
Miscellaneous Wear Parts



WEAR RUNNER BASE								
Part Number	Dimensions						Weight	
	A		B		C			
	"	mm	"	mm	"	mm	lb	kg
8X8B	6.9	175.0	6.9	175	0.9	23	6.4	2.9
10X7B	8.4	213	5.4	137	1.8	46	11.0	5.0
10X8B	8.9	225.0	6.9	175	0.9	23	10.2	4.6
10X10B	10.0	254.0	10.0	254	1.75	44	24.0	10.9
12X9B	12.0	305.0	9.0	229	1.75	44	22.0	9.9
12X10B	12.0	305.0	10.0	254	1.75	44	28.0	12.7
12X12B	10.4	263.0	10.4	263	1.8	46	36.4	16.5

STANDARD FLAT HEAD BOLT/NUT ASSEMBLIES	
Assembly Number	Description
58125BCRN	5/8" X 1-1/4" flat head bolt w/ crimp nut (coarse thread)
115BLN	1" X 1-1/2" flat head bolt w/ crimp nut (fine thread)

OPTIONAL PARTS & ASSEMBLIES	
Assembly or Part Number	Description
1X112FB	1" x 1-1/2" flat head bolt coarse thread
1FN	Cone nut, coarse thread
1FLN	Cone lock nut, fine thread used w/ part number 115BLN
1X2FFB	1" x 2" flat head bolt w/ fine thread

Note: all bolts are grade 8

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5.4

SPECIALIZED WEAR PROTECTION

Top Covers

TOP COVERS
Caterpillar Style

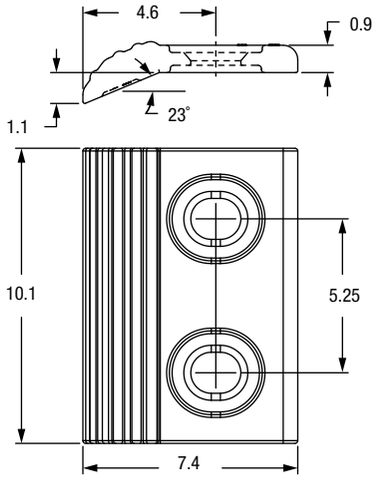
CATERPILLAR STYLE TOP COVERS								
Machine Model	Cast Bolt-on Segments			No. of Holes	Cast Top Cover Plates			Plow Bolt Assemblies
	Center (Straight)	Right-hand	Left-hand		Center (Straight)	Right-hand	Left-hand	
980B	4T3015NRHX	4T7139NRHX	4T7140NRHX	2	4T3015TC	4T7139TC	4T7140TC	AC114600TC
980F,G	116-7460CHX	116-7461RHX	116-7462LHX	3	195-7180HX	195-7181HX	195-7182HX	AC114600TC
	9W5734NRHX	9W5737NRHX	9W5730NRHX	3				AC114600TC
980G, 988B	116-7460CHX	116-7461RHX	116-7462LHX	3	195-7180HX	195-7181HX	195-7182HX	AC114600TC
988, 988B	116-7460CHX	116-7461RHX	116-7462LHX	3	195-7180HX	195-7181HX	195-7182HX	AC114600TC
988F	9W5734NRHX	9W5737NRHX	9W5730NRHX	3	195-7180HX	195-7181HX	195-7182HX	AC114600TC
	109-9080NRHX	109-9081NRHX	109-9082NRHX	3				AC114600TC
	116-7460CHX	116-7461RHX	116-7462LHX	3				AC114600TC
988H	257-1782HX	257-1783HX	257-1784HX	4	257-1778HX	257-1779HX	257-1780HX	AC114-700TC
	264-2090HX	264-2091HX	264-2092HX	4	264-2096HX	264-2097HX	264-2098HX	AC114-700TC
988G, 990	4T6760NRHX 4T6760NRHHX	4T6761NRHX 4T6761NRHHX	4T6762NRHX 4T6762NRHHX	4	195-7096HX	195-7097HX	195-7098HX	AC114700TC
992 992B, C,D,G	4T6760NRHX 4T6760NRHHX 109-2675NRHX	4T6761NRHX 4T6761NRHHX 109-2676NRHX	4T6762NRHX 4T6762NRHHX 109-2677NRHX	4	195-7096HX	195-7097HX	195-7098HX	AC114700TC

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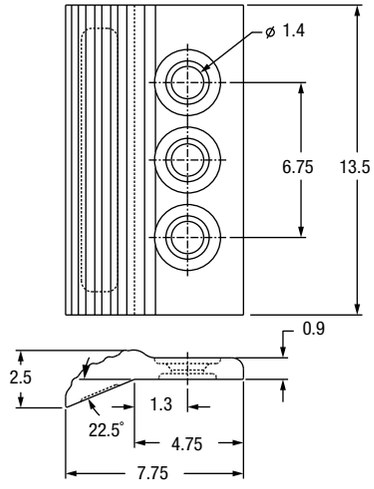
TOP COVERS
Caterpillar Style

CENTER (STRAIGHT) TOP COVERS

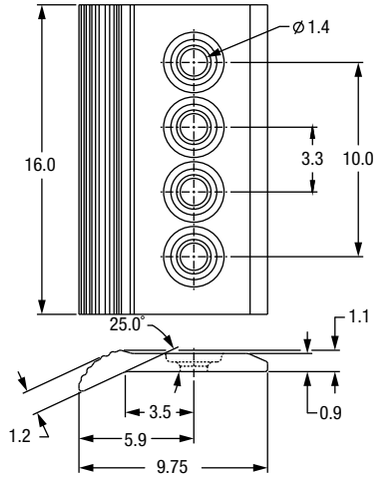
4T3015TC
17.5 lb / 7.9 kg



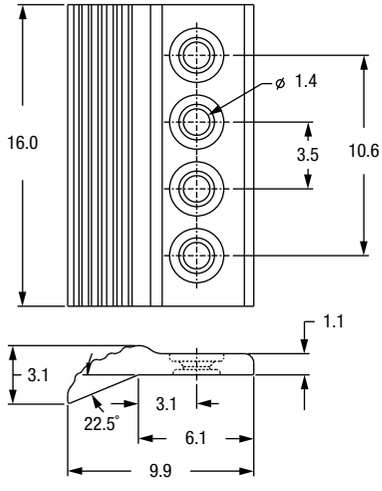
195-7180HX
27.8 lb / 12.6 kg



257-1778HX
36.8 lb. / 16.7 kg



195-7096HX
49.5 lb / 22.5 kg



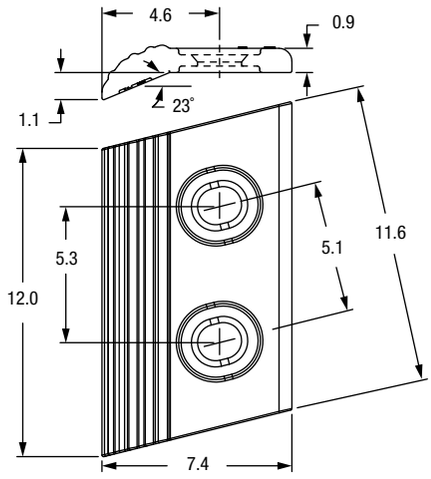
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Note: Measurements are in inches.

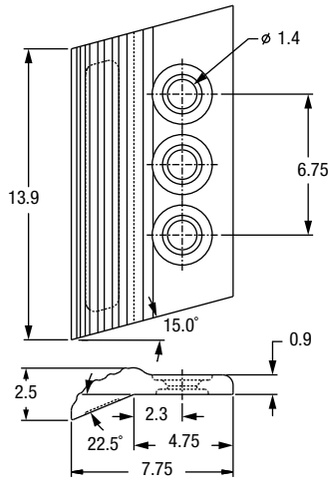
TOP COVERS
Caterpillar Style

CORNER TOP COVERS

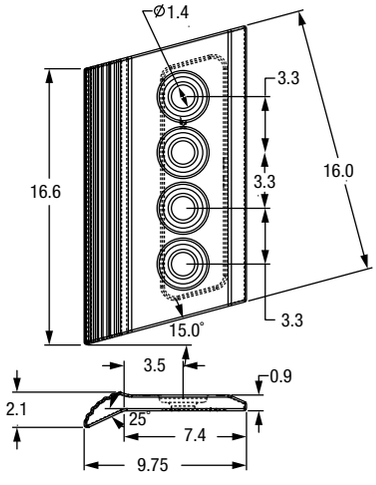
4T7139TC (RH Shown)
4T7140TC (LH Opposite)
21.3 lb / 9.7 kg



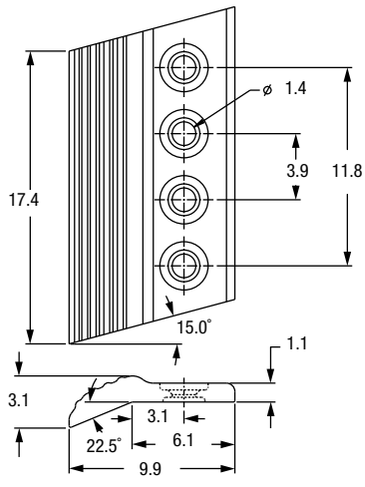
195-7181HX (RH Shown)
195-7182HX (LH Opposite)
29.5 lb / 13.4 kg



257-1779HX (RH Shown)
257-1780HX (LH Opposite)
38.4 lb / 17.4 kg



195-7097HX (RH Shown)
195-7098HX (LH Opposite)
53.5 lb / 24.3 kg



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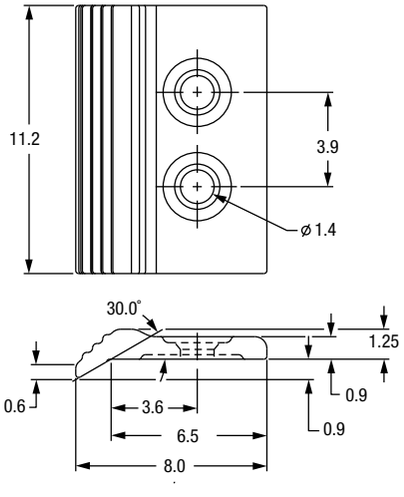
Note: Measurements are in inches.

TOP COVERS
Komatsu Style

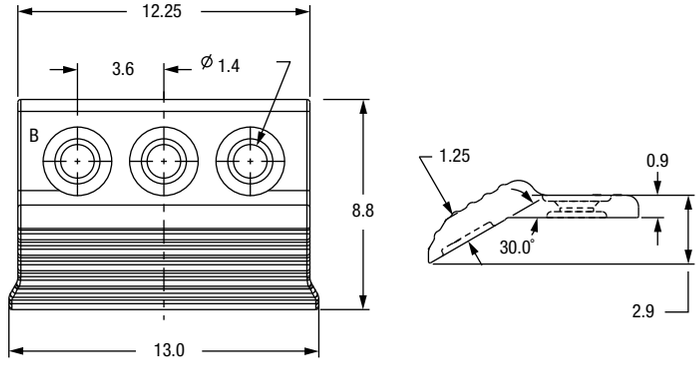
KOMATSU STYLE TOP COVERS								
Machine Model	Cast Bolt-on Segments			No. of Holes	Cast Top Cover Plates			Plow Bolt Assemblies
	Center (Straight)	Right-hand	Left-hand		Center (Straight)	Right-hand	Left-hand	
WA500	425-838-A110NR	425-838-A110RNR	425-838-A110LNR	2	WA500TPC	WA500TPR	WA500TPL	AC10-500
WA600 (2.5" lip)	MS600CNRH (1.87") WA600CNR (2.3")	MS600RNRH (1.87") WA600RNR (2.3")	MS600LNRH (1.87") WA600LNR (2.3")	3	WA600TCC	WA600TCR	WA600TCL	AC114-600TC
WA700 (2.5" lip)	WA700CNR	WA700RNR	WA700LNL	4	WA700TCC	WA700TCR	WA700TCL	AC114-600TC
WA800 (3" lip)	WA800CNR	WA800TCR	WA800TCL	4	WA800TCC	WA800TCR	WA800TCL	AC114-612TC
WA900	WA800CNR	WA800TCR	WA800TCL	4	WA800TCC	WA800TCR	WA800TCL	AC114-612TC

CENTER (STRAIGHT) TOP COVERS

WA500TPC
22.4 lb / 10.2 kg



WA600TCC
33.5 lb / 15.2 kg

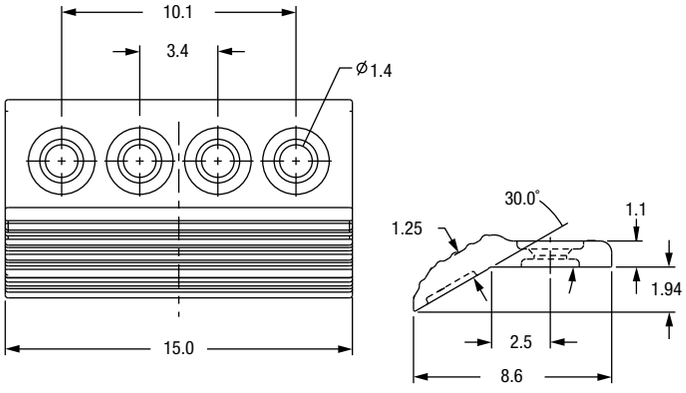


Note: Measurements are in inches.

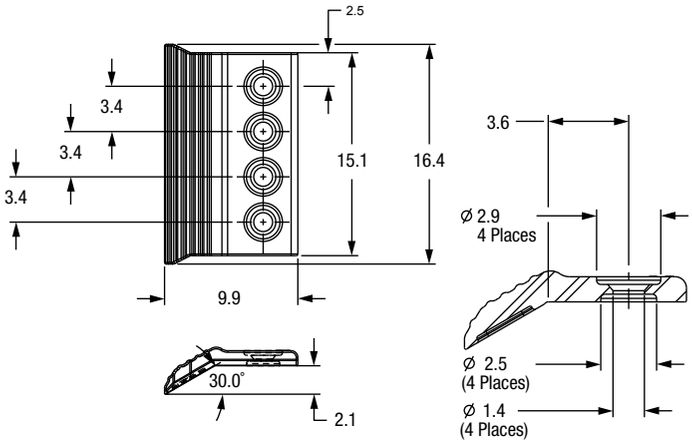
TOP COVERS
Komatsu Style

CENTER (STRAIGHT) TOP COVERS

WA700TCC
36.7 lb / 16.6 kg

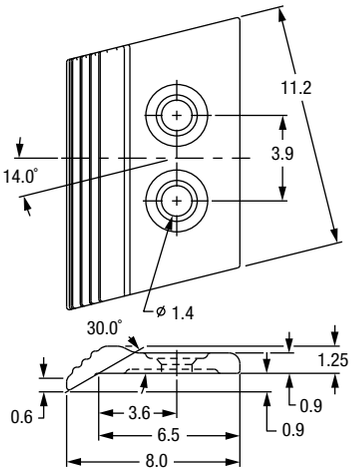


WA800TCC
43.0 lb / 19.5 kg

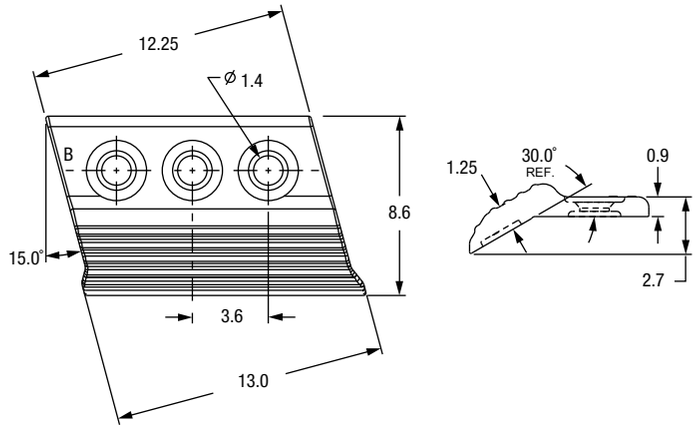


CORNER TOP COVERS

WA500TPR (RH Shown)
WA500TPL (LH Oppposite)
23.0 lb / 10.4 kg



WA600TCR (RH Shown)
WA600TCL (LH Oppposite)
36.5 lb / 16.6 kg

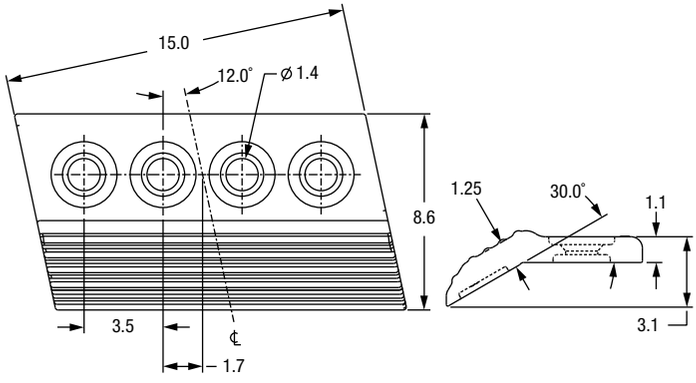


Note: Measurements are in inches.

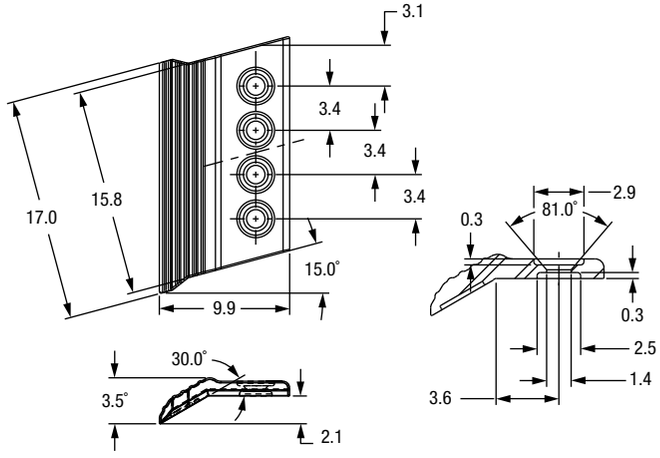
TOP COVERS
Komatsu Style

CORNER TOP COVERS

WA700TCR (RH Shown)
WA700TCL (LH Oppposite)
37.2 lb / 16.9 kg



WA800TCR (RH Shown)
WA800TCL (LH Oppposite)
46.5 lb / 21.1 kg



Note: Measurements are in inches.

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5.5

SPECIALIZED WEAR PROTECTION

Segments

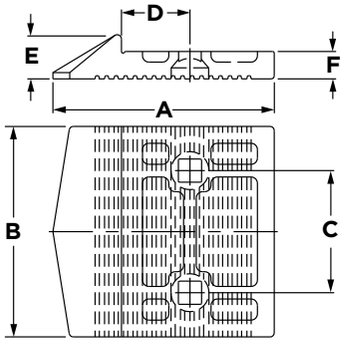
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BOLT-ON EDGES FOR LOADERS
Caterpillar Style

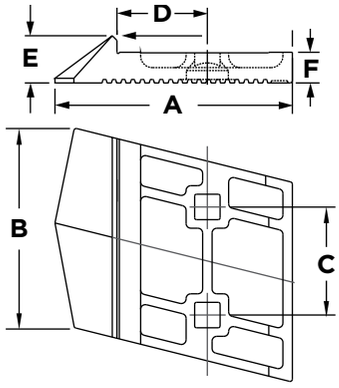
HALF ARROW BOLT-ON EDGES FOR CAT LOADERS		
Model	**Part No.**	**Qty**
966 D, E, F, 970, 970F (119.5”)	1U0593NRHX	3
	3G6395RNRHX	1
	3G6395LNRHX	1
	A114-412	12
970, 970F (126”)	100-6668NRHX	3
	3G6395RNRHX	1
	3G6395LNRHX	1
	A114-412	12
980 F, C (130.75”)	1U0762NRHX	3
	1U0761NRHX	2
	A114-412	12
980 F, C (light version)	1U0762NRLT	3
	1U0761NRHX	2
	A114-412	12
980F, G (134”)	109-9212NRHX	3
	1U0761NRHX	2
	A114-412	10
980F, G (light version)	109-9212NRLT	3
	1U0761NRHX	2
	A114-412	10
988F, G (145.2”)	1045841WR3HX	3
	1U0761NR2HX	2
	A114-412	12

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BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style



Type 1
(Center)



Type 2
(RH Shown, LH Opposite)

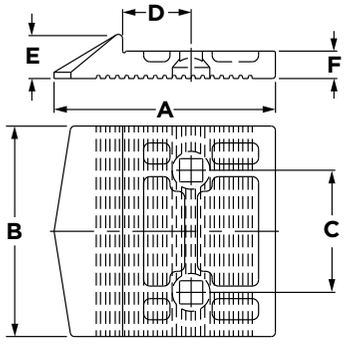
BOLT-ON HALF ARROW SEGMENT DETAILS

Part No.	Type	Dimensions							
		A		B		C		D	
		"	mm	"	mm	"	mm	"	mm
100-6666NRHX	1	12.25	311	11.6	294	8.0	203	3.9	98
109-9019NRHX	1	13.1	333	12.5	318	7.25	184	4.1	103
132-1037NRHX	1	9.9	252	10.4	263	7.7	195	3.2	80
135-9544HX*	1	15.75	400	11.8	300	4.75	121	5.0	127
135-9545HX* & 135-9546HX*	2	15.75	400	12.0	305	7.6	194	5.0	127
4T3015NRHX	1	12.6	319	10.1	257	5.3	135	4.75	121
4T6692NRHX	1	10.25	261	7.75	197	4.9	125	3.2	81
4T6693NRHX	1	10.25	261	8.5	216	5.5	140	3.2	81
4T6694NRHX	1	10.25	261	9.0	229	6.1	156	3.2	81
4T6696NRHX	1	12.6	319	7.6	192	3.6	90	3.9	100
4T6697NRHX	1	12.6	319	8.4	213	4.75	121	4.75	121
4T6698NRHX	1	12.25	311	9.5	241	5.5	140	3.9	98
4T6699NRHX	1	12.25	311	10.6	270	7.1	179	3.9	98
4T6700NRHX	1	12.3	313	11.4	289	6.3	289	3.9	98
4T7139NRHX & 4T7140NRHX	2	12.6	319	12.0	305	5.3	135	4.75	121
4T9123NRHX & 4T9124NRHX	2	12.6	319	10.6	268	5.75	146	4.75	121

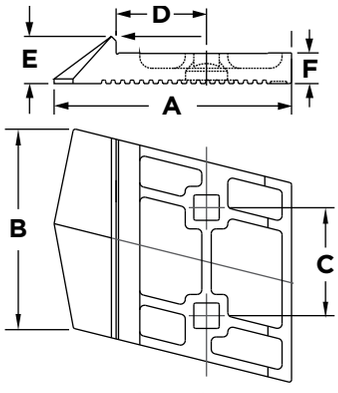
*These segments have rounded noses rather than pointed as shown in the illustrations.

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BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style



Type 1
(Center)



Type 2
(RH Shown, LH Opposite)

BOLT-ON HALF ARROW SEGMENT DETAILS CONTINUED

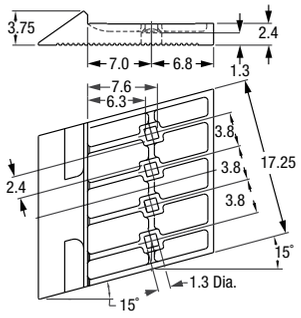
Part No.	Dimensions				Weight		Plow Bolts		
	E		F				Size	Assy. No.	Qty.
	"	mm	"	mm	lb	kg	"		
100-6666NRHX	2.5	64	1.6	41	44.0	19.9	1 1/4 x 4 1/2	A114-412	2
109-9019NRHX	2.6	67	1.6	41	58.0	26.3	1 1/4 x 4 1/2	A114-412	2
132-1037NRHX	2.0	25	1.1	29	25.0	11.3	1 x 3	A10-300	2
135-9544HX	2.8	71	1.75	44	76.6	34.7	1 1/4 x 3 1/4	n/a	2
135-9545HX & 135-9546HX	2.8	71	1.75	44	78.6	35.7	1 1/4 x 3 1/4	n/a	2
4T3015NRHX	2.5	64	1.6	41	40.0	18.1	1 1/4 x 4	A114-400	2
4T6692NRHX	2.1	54	1.5	38	23.5	10.7	1 x 3	A10-300	2
4T6693NRHX	2.1	54	1.5	38	26.0	11.8	1 x 3	A10-300	2
4T6694NRHX	2.1	54	1.5	38	27.1	12.3	1 x 3	A10-300	2
4T6696NRHX	2.5	63	1.6	41	30.3	13.8	1 1/4 x 3	A114-300	2
4T6697NRHX	2.5	64	1.6	41	33.9	15.4	1 1/4 x 4	A114-400	2
4T6698NRHX	2.5	64	1.6	41	35.5	16.1	1 1/4 x 4	A114-400	2
4T6699NRHX	2.5	64	1.6	41	42.5	19.3	1 1/4 x 4	A114-400	2
4T6700NRHX	2.5	64	1.6	41	46.0	20.9	1 1/4 x 4	A114-400	2
4T7139NRHX & 4T7140NRHX	2.5	64	1.6	41	46.1 ea.	20.9 ea.	1 1/4 x 4	A114-400	2
4T9123NRHX & 4T9124NRHX	2.5	64	1.6	41	45.2 ea.	20.5 ea.	1 1/4 x 4	A114-400	2

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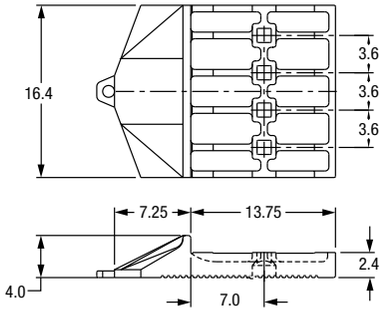
BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style

BOLT-ON HALF ARROW SEGMENT DETAILS

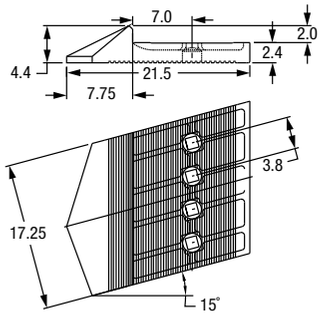
4T6762NRHX (LH Shown)
4T6761NRHX (RH Opposite)
175.0 lb / 79.3 kg ea.
Requires (4) 1 1/4 x 4 Plow Bolts*



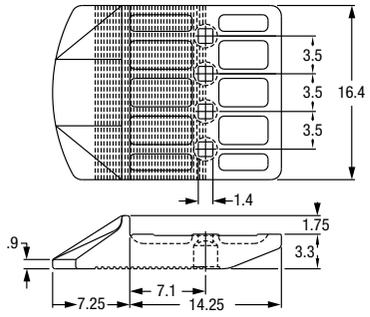
4T6760NRHHX (Center)
179.0 lb / 81.2 kg
Requires (4) 1 1/4 x 4 Plow Bolts*



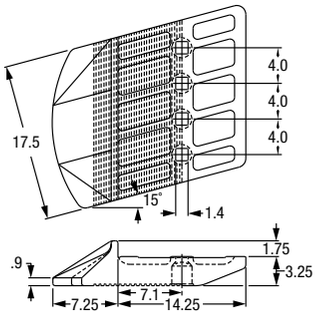
4T6762NRHHX (LH Shown)
4T6761NRHHX (RH Opposite)
195.0 lb / 88.5 kg
Requires (4) 1 1/4 x 4 Plow Bolts*



109-2675NRHX (Center)
246.0 lb / 111.6 kg
Requires (4) 1 1/4 x 4 1/2 Plow Bolts**



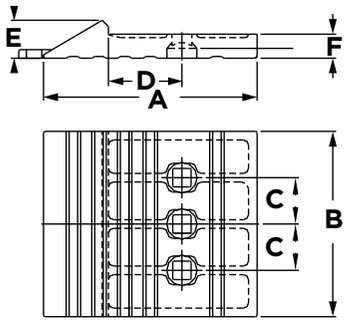
109-2677NRHX (LH Shown)
109-2676NRHX (RH Opposite)
268.0 lb / 121.7 kg
Requires (4) 1 1/4 x 4 1/2 Plow Bolts**



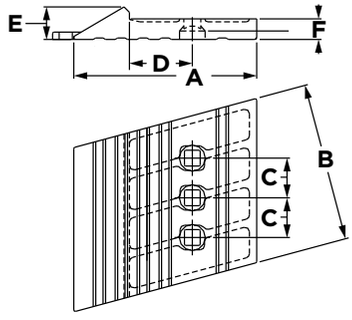
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Note: Measurements are in inches.

BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style



Type 1
(Center)



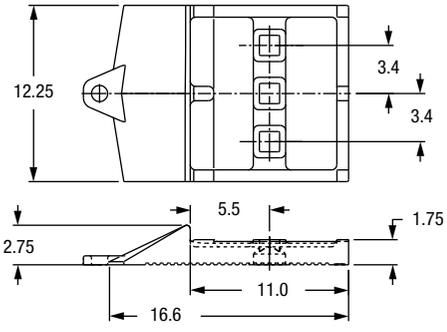
Type 2
(RH Shown, LH Opposite)

BOLT-ON HALF ARROW SEGMENT DETAILS

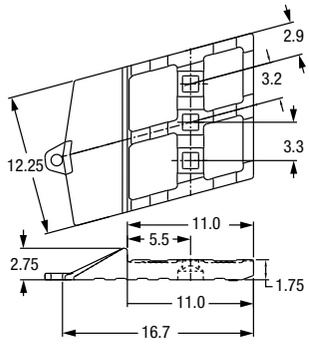
Part No.	Type	Dimensions												Weight		Plow Bolts		
		A		B		C		D		E		F				Size	Assy. No.	Qty.
		"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	lb	kg	"		
1099080NRHX	1	15.6	397	13.5	343	3.4	86	5.4	136	2.75	70	1.75	44	83.0	37.6	1 1/4 x 4	A114-400	3
1099081NRHX & 1099082NRHX	2	15.6	397	13.5	343	3.4	86	5.4	136	2.75	70	1.75	44	86.0	39.0	1 1/4 x 4	A114-400	3
9W5734NRHX	1	15.6	397	12.25	311	3.4	86	5.4	137	2.75	70	1.75	44	64.0	29.0	1 1/4 x 4	A114-400	3
9W5730NRHX & 9W5737NRHX	2	15.6	397	12.7	322	3.4	86	5.4	137	2.75	70	1.75	44	68.0	30.8	1 1/4 x 4	A114-400	3

BOLT-ON HALF ARROW SEGMENT DETAILS

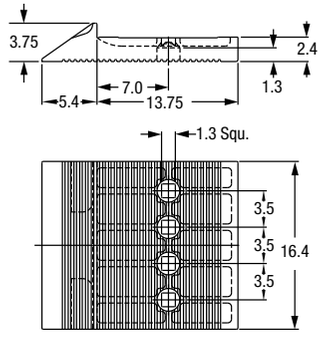
116-7460CHX (Center)
75.5 lb / 34.2 kg
Requires (3) 1 1/4 x 4 Plow Bolts*



116-7462LHX (LH Shown)
116-7461RHX (RH Opposite)
75.5 lb / 34.2 kg ea.
Requires (3) 1 1/4 x 4 Plow Bolts*



4T6760NRHX (Center)
168.0 lb / 76.2 kg
Requires (4) 1 1/4 x 4 Plow Bolts*



*Plow bolt assembly Part No. A114-100.

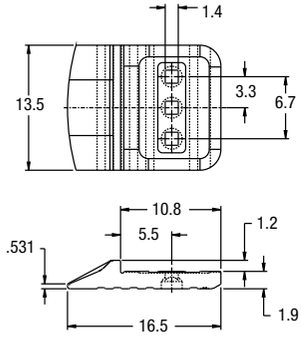
Note: Measurements are in inches.

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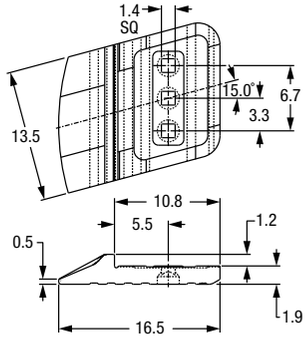
BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style

BOLT-ON HALF ARROW SEGMENT DETAILS

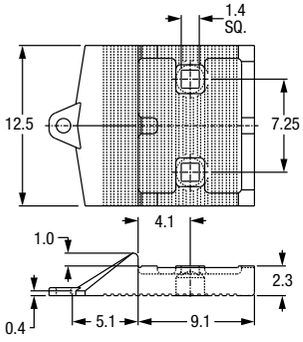
109-9080HCG
101.0 lb / 45.8 kg



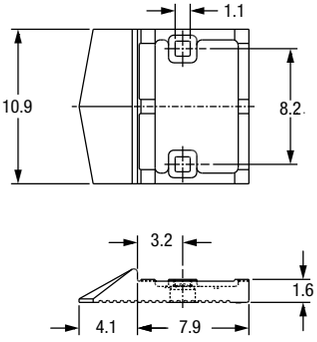
109-9081HCG
106.0 lb / 48.1 kg



109-9019NRH-HX
87.0 lb / 39.5 kg



132-4715NRHX
42.9 lb / 19.5 kg



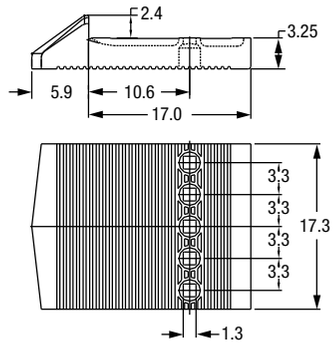
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Note: Measurements are in inches.

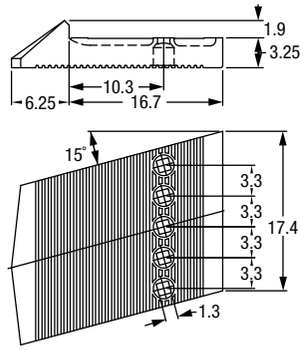
BOLT-ON SEGMENTS FOR LOADERS
Caterpillar Style

BOLT-ON SEGMENTS FOR CATERPILLAR 994 LOADER

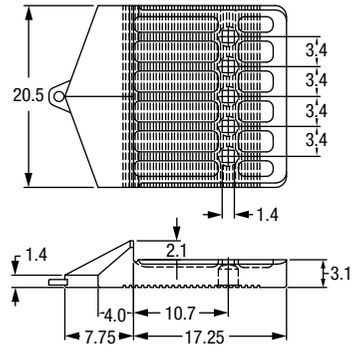
103-1833NRHX*
Center
294.0 lb / 133.5 kg



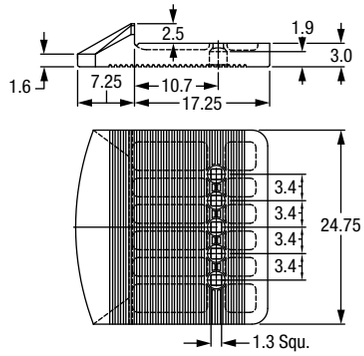
103-1835NRHX* (LH Shown)
103-1834NRHX* (RH Opposite)
294.0 lb / 133.5 kg



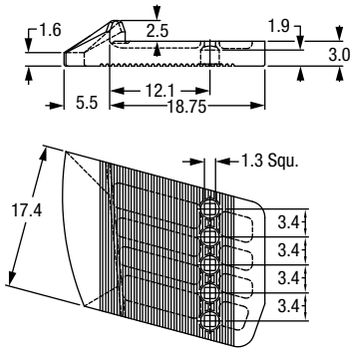
109-9033NRSHX*
Center
372.0 lb / 168.9 kg



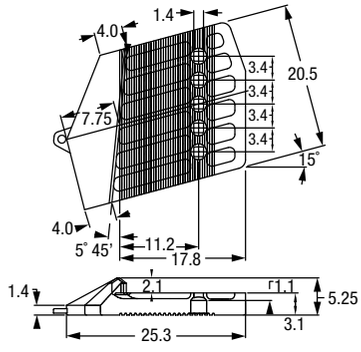
109-9033NRHX*
Center
443.0 lb / 201.1 kg



117-6806NRHX* (LH Shown)
117-6805NRHX* (RH Opposite)
312.0 lb / 141.6 kg



117-6806NRSHX* (LH Shown)
117-6805NRSHX* (RH Shown)
379.0 lb / 172.1 kg

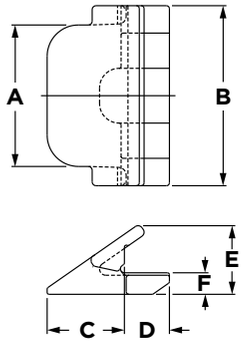


*Each Segment Requires (5) 1 1/4" x 4" Plow Bolts.
Plow Bolt Assembly No. A114-400

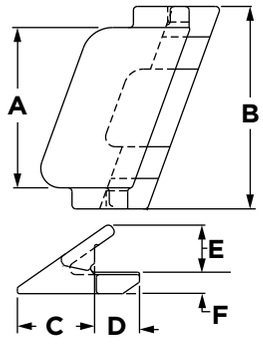
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Note: Measurements are in inches.

MODULOK PARTS FOR LOADERS
Caterpillar Style



Type 1
(Center)



Type 2
(RH Shown, LH Opposite)

MODULOK EDGE SEGMENTS

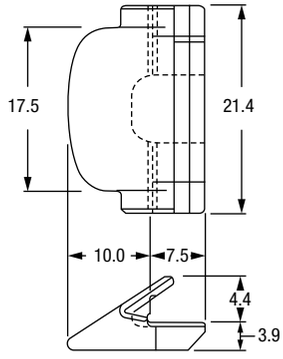
Part No.	Type	Dimensions												Weight	
		A		B		C		D		E		F			
		″	mm	″	mm	″	mm	″	mm	″	mm	″	mm	lb	kg
9J4429HX	1	9.0	229	11.5	292	3.7	94	2.6	65	3.4	86	0.7	17	29.6	13.4
8J8222HX(RH) & 8J8223HX(LH)	2	10.2	259	13.0	330	3.5	89	2.75	70	3.25	83	0.7	17	35 ea.	15.9 ea.
9U9332CHX	1	9.0	229	11.5	292	4.9	124	3.1	78	3.0	76	1.5	38	39	17.7
9U9333LHX & 9U9334RHX	2	10.5	267	13.0	330	4.0	102	3.25	83	3.1	79	1.5	38	40.7 ea.	18.4 ea.
9U9664CHX	1	11.5	292	14.0	356	4.7	119	3.1	78	2.7	68	1.5	38	46.5	21.1
1U0869HX	1	15.9	403	18.5	470	3.4	87	3.8	97	3.6	90	0.75	19	63.3	28.7
102-9681LHX & 102-9680RHX	2	16.0	406	18.6	473	6.0	152	3.0	76	3.1	79	1.25	32	72	32.7
8J3962HX	1	13.1	333	15.5	394	4.8	122	3.1	78	3.0	76	1.5	38	57.3	25.9
9J9973HX (RH) & 9J9974HX (LH)	2	14.3	364	17.1	433	4.6	116	2.3	135	3.1	79	0.9	22	53.2 ea.	24.1 ea.
8E9514HX	1	15.75	400	18.4	467	5.5	140	2.6	65	3.4	86	1.75	44	83	37.6
8E9516HXL & 8E9515HXR	2	14.25	362	17.1	433	5.0	127	2.6	67	3.1	79	1.75	44	69 ea.	31.3 ea.

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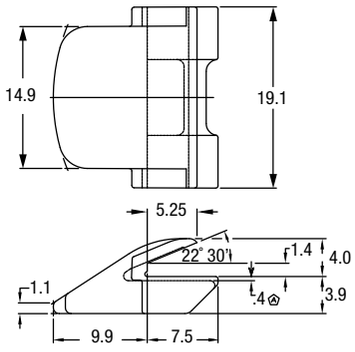
MODULOK STYLE WEAR PARTS FOR LOADERS
Caterpillar Style

EDGE SEGMENTS

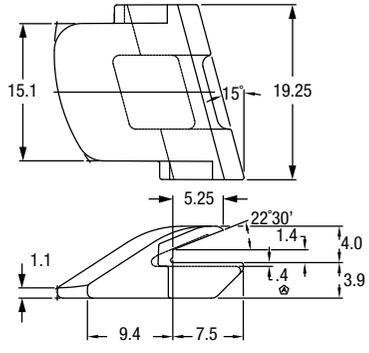
109-3141HX
313.0 lb / 142.0 kg



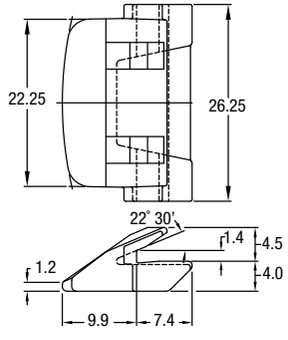
109-3138HX
281.0 lb / 127.5 kg



109-3140HX (LH Shown)
109-3139HX (RH Opposite)
293.0 lb / 132.9 kg



113-0311HX
459.0 lb / 208.2 kg



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Note: Measurements are in inches.

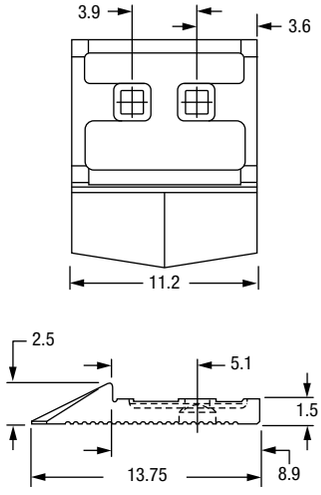
BOLT-ON EDGES FOR LOADERS
Komatsu Style

HALF ARROW BOLT-ON EDGES FOR KOMATSU LOADERS		
Model	**Part No.**	**Qty**
WA 450-3 & WA 470	421-815-1211CNR	1
	421-815-1211RCNR	1
	421-815-1211LCNR	1
	421-815-1221NR	2
	A10-312	18
WA 500-1 S/N 20001-UP		
	425-815-1320NRHX	2
	A10-400	xx
WA 500-3	425-815-1510CNRHX	1
	425-815-1510RLNRHX	2
	425-815-1520NRHX	2
	A10-400	16
WA 600-1, WA600-3	426-815-1130NRHX	2
	A138-400	20

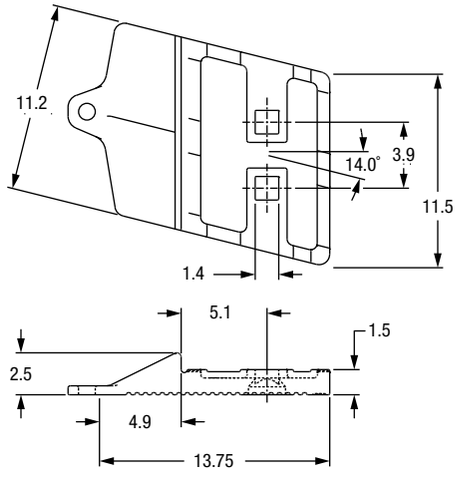
BOLT-ON SEGMENTS FOR LOADERS
Komatsu Style

CAST HALF ARROW BOLT-ON SEGMENTS

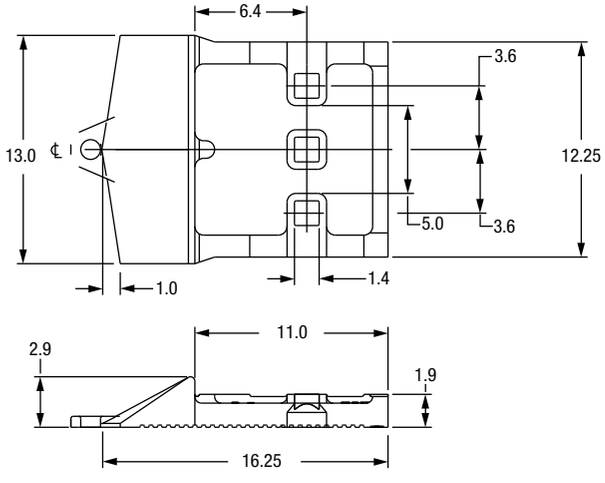
425-838-A110NR (WA500)
44.5 lb / 20.2 kg
Requires (2) A114-400 plow bolt assemblies each



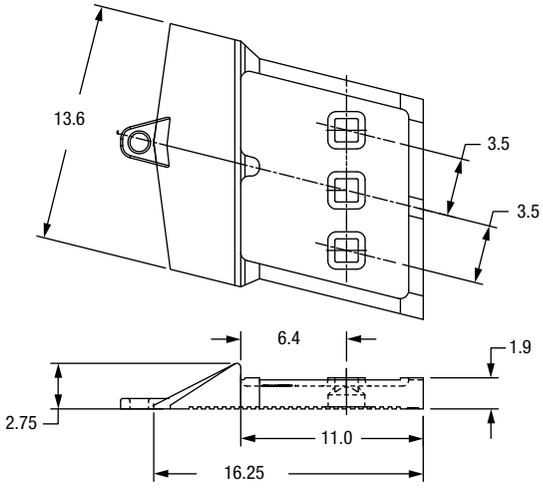
425-838-A110RNR (WA500) (RH Shown)
425-838-A110LNR (WA500) (LH Opposite)
54.0 lb / 24.5 kg
Requires (2) A114-400 plow bolt assemblies each



MS600CNR (WA600)
86.5 lb / 39.0 kg
Requires (3) A114-400 plow bolt assemblies each
Use with RP1 teeth



MS600RNR (WA600) (RH Opposite)
MS600LNR (WA600) (LH Shown)
87.0 lb / 39.5 kg
Requires (3) A114-400 plow bolt assemblies each
Use with RP1 teeth

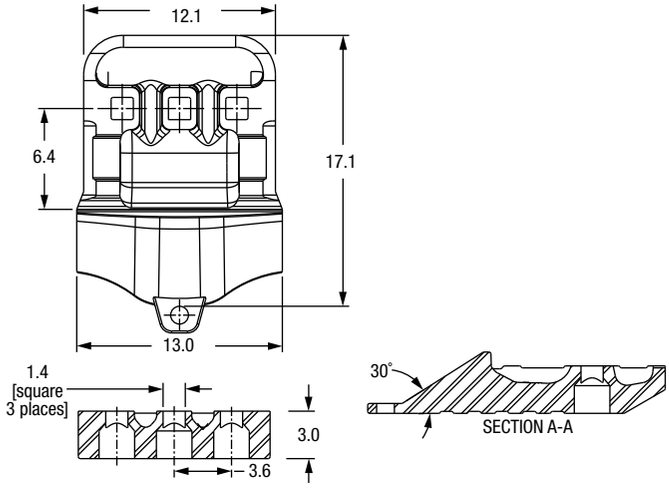


Note: Measurements are in inches.

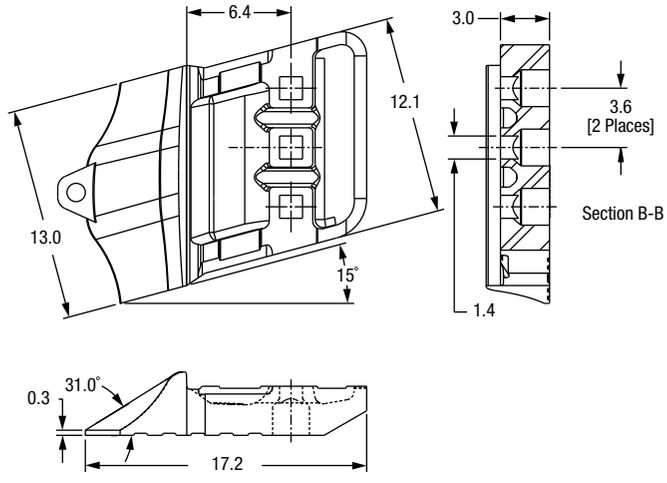
BOLT-ON SEGMENTS FOR LOADERS
Komatsu Style

CAST HALF ARROW BOLT-ON SEGMENTS CONTINUED

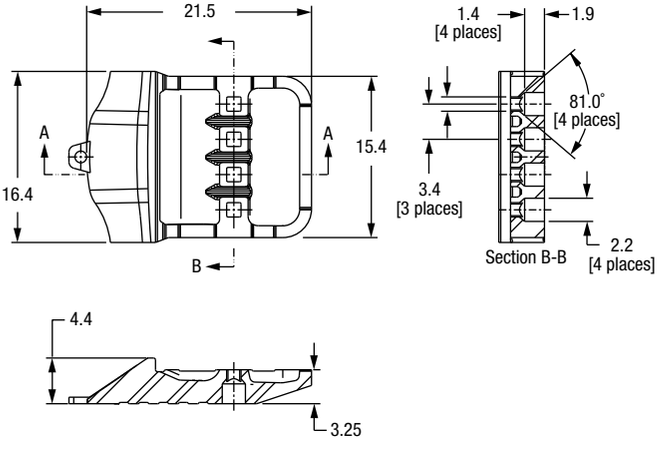
MS600CNRH (WA600)
117.5 lb / 53.3 kg
Requires (3) A114-400 plow bolt assemblies each
Use with RP2 teeth



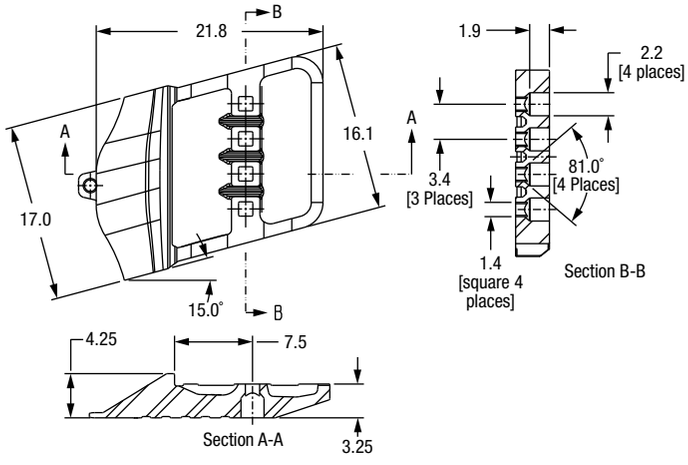
MS600RNRH (WA600) (RH Shown)
MS600LNRH (WA600) (LH Opposite)
122.5 lb / 55.6 kg
Requires (3) A114-400 plow bolt assemblies each
Use with RP2 teeth



WA700CNR (WA700)
163.0 lb / 74.0 kg
Requires (4) A114-412 plow bolt assemblies each



WA700RNR (WA700) (RH Shown)
WA700LNR (WA700) (LH Opposite)
167.0 lb / 75.8 kg
Requires (4) A114-412 plow bolt assemblies each

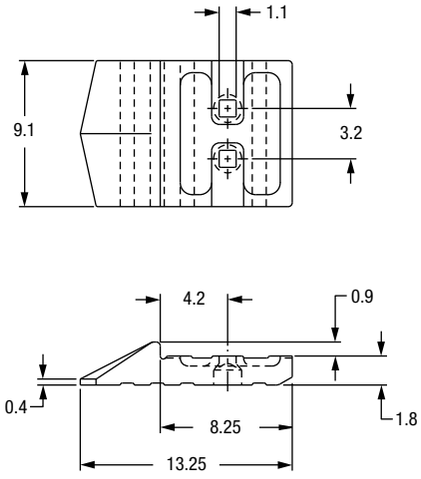


Note: Measurements are in inches.

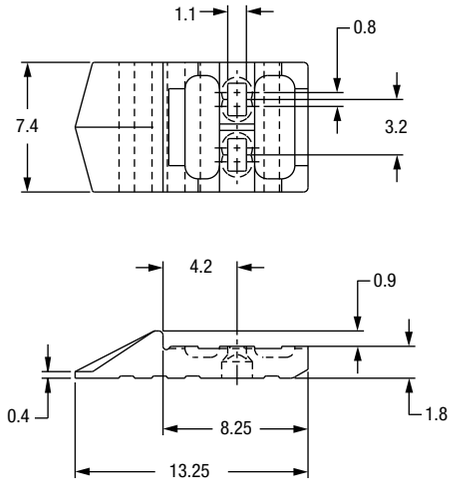
BOLT-ON SEGMENTS FOR LOADERS
Komatsu Style

CAST HALF ARROW BOLT-ON SEGMENTS CONTINUED

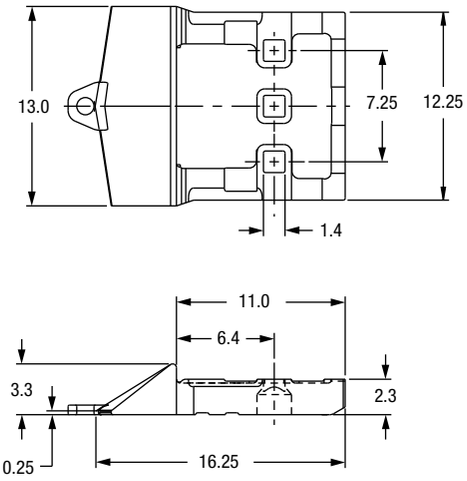
WA480CNR (WA480)
36.9 lb / 18.0 kg
Requires (2) A10-300 plow bolt assemblies



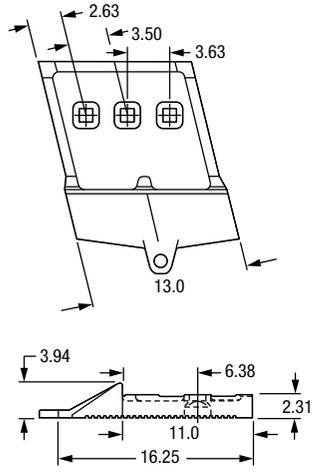
WA480RLNR (WA480)
39.6 lb / 21.1 kg
Requires (2) A10-300 plow bolt assemblies



WA600CNR (WA600)
103.0 lb / 46.7 kg
Uses (3) AC114-512 plow bolt assemblies



WA600RNR (WA600) (RH Shown)
WA600LNR (WA600) (LH Opposite)
104.0 lb / 47.2 kg
Uses (3) AC114-512 plow bolt assemblies

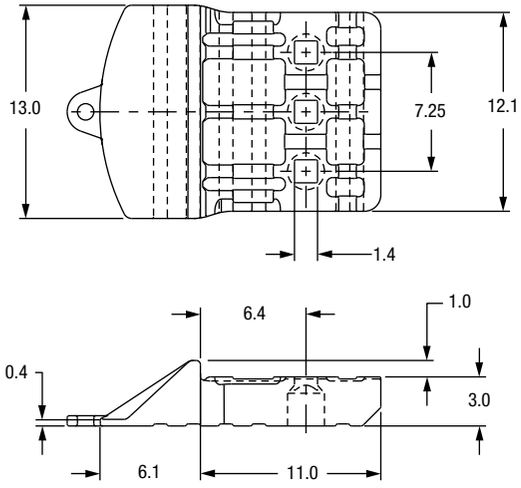


Note: Measurements are in inches.

BOLT-ON SEGMENTS FOR LOADERS
Komatsu Style

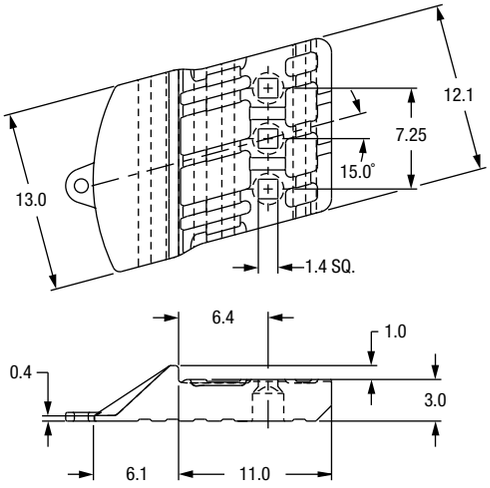
CAST HALF ARROW BOLT-ON SEGMENTS CONTINUED

WA600CNR76 (WA600)
142.0 lb / 64.5 kg
Uses (3) AC114-512 plow bolt assemblies



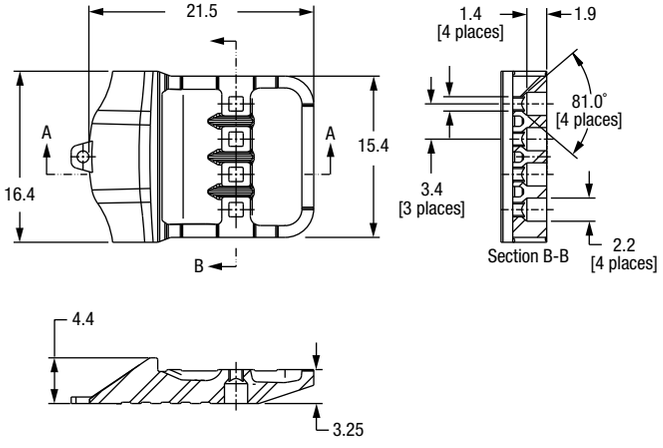
Note: Solid segment with slight recess.

WA600RNR76 (WA600) (RH Shown)
WA600LNR76 (WA600) (LH Opposite)
148.0 lb / 67.2 kg
Uses (3) AC114-512 plow bolt assemblies

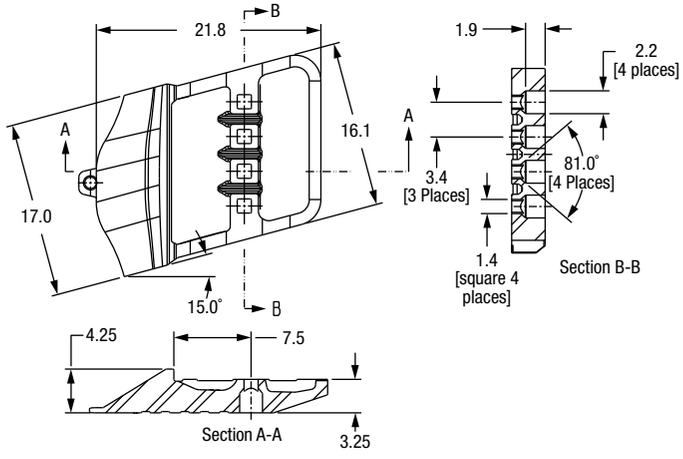


Note: Solid segment with slight recess.

WA800CNR
208.0 lb / 94.3 kg
Requires (2) A114-612TC plow bolt assemblies



WA800RNR (RH Shown)
WA800LNR (LH Opposite)
227.0 lb / 103.0 kg
Requires (2) A114-612TC plow bolt assemblies



Note: Measurements are in inches.

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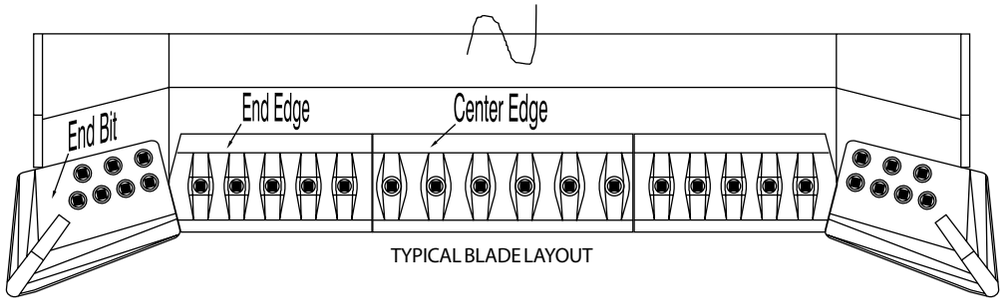
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5.6

SPECIALIZED WEAR PROTECTION

Edges & End Bits

CAST EDGES & END BITS
Komatsu Style



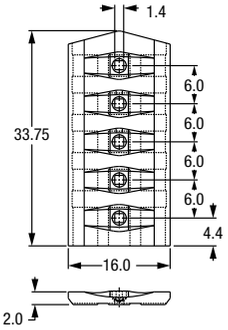
TYPICAL BLADE LAYOUT

EDGES FOR KOMATSU DOZERS				
Model	**Center Edge (#) nut/ bolt assy.**	**End Edge (#) nut/bolt assy.**	**Standard Duty End Bit (#) nut/bolt assy.**	**Heavy Duty End Bit (#) nut/bolt assy.**
D50A, D53A D60, D65	N/A	N/A	134-72-61460RH (5) A34-400 134-72-61450LH (5) A34-400	140-70-11180HX (RH) (5) A34-400 140-70-11170HX (LH) (5) A34-400
D-155A-3/5	N/A	N/A	175-71-22282HX (RH) (7) A78-312 175-71-22272HX (LH) (7) A78-312	N/A
D275A-2/5	N/A	N/A	17M-71-21940RH (7) A10-400 17M-71-21930LH (7) A10-400	N/A
D355	LA2540HHDX (8) A114-514	LA2539HHDHX (2 req'd) (8) A114-514	N/A	195-71-61940RH (8) A114-412 195-71-61930LH (8) A114-412
D375A-1 D375A-2 D375A-3	LA6248HHDHX (6) A114-500	LA6227HHDHX (2 req'd) (5) A114-514	N/A	195-71-61940RH (8) A114-412 195-71-61930LH (8) A114-412
D375 SEMI-U	LA2541HHDHX (8) A114-514	LA6227HHDHX (2 req'd) (5) A114-514	N/A	195-71-61940RH (8) A114-412 195-71-61930LH (8) A114-412
D375 FULL-U	LA2540HHDHX (8) A114-514	LA6227HHDHX (2 req'd) (5) A114-514	N/A	195-71-61940RH (8) A114-412 195-71-61930LH (8) A114-412
D455	LA2540HHDHX (3 req'd.) (8) A114-514	LA2539HHDHX (2 req'd) (8) A114-514	N/A	N/A
D475A-1 D475A-2	N/A	N/A	N/A	198-71-31530HX (RH) (8) nut/bolt assys. req'd 198-71-31520HX (LH) (8) nut/bolt assys. req'd
D575A-2	N/A	N/A	N/A	19M-72-13220HX (RH) (8) nut/bolt assys. req'd 19M-72-13210HX (LH) (8) nut/bolt assys. req'd
WD600	N/A	N/A	175-71-22282HX (RH) (7) A78-312 175-71-22272HX (LH) (7) A78-312	N/A

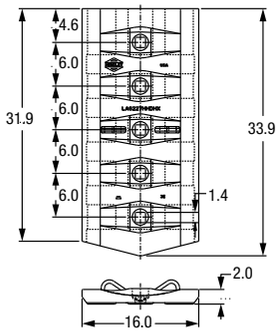
CAST EDGES & END BITS
Komatsu Style

CAST EDGES

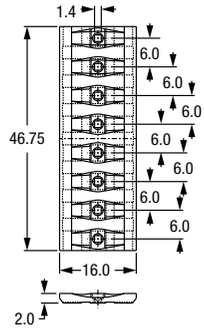
LA2539HHDHX (end edge)
231.0 lb / 104.9 kg
Requires (5) A114-400 plow bolt assemblies each
Fits Dozer Models: D355, D455



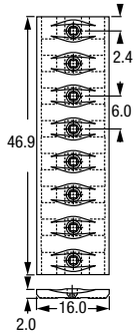
LA6227HHDHX (end edge)
234.0 lb / 106.2 kg
Requires (5) A114-514 plow bolt assemblies each Fits Dozer Models: D375A-1, D375A-2, D375A-3, D375 (semi-U), D375 (full-U)



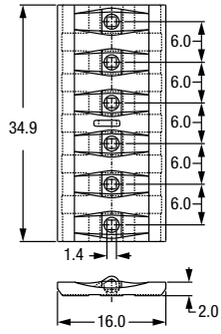
LA2540HHDHX (center edge)
317.0 lb / 143.9 kg
Requires (8) A114-400 plow bolt assemblies each. Fits Dozer Models: D355, D375 (full-U), D455



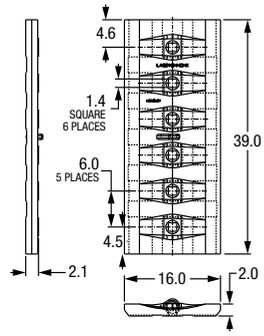
LA2541HHDHX (center edge)
350.0 lb / 159.0 kg
Requires (8) A114-514 plow bolt assemblies each
Fits Dozer Models: D375 (semi-U)



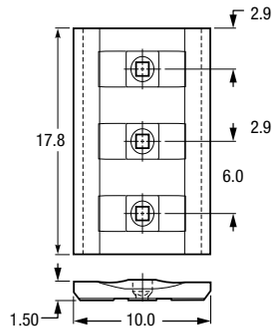
LA6247HHDHX (center edge)
261.0 lb / 118.4 kg
Requires (6) A114-514 plow bolt assemblies each



LA6248HHDHX (center edge)
276.0 lb / 125.3 kg
Requires (6) A114-500 plow bolt assemblies each. Fits Dozer Models: D375A-1, D375A-2, D375A-3



41E70A5221HX
66.0 lb / 30.0 kg
Requires (6) A78-300 plow bolt assemblies each
Fits Dozer Models: WD600

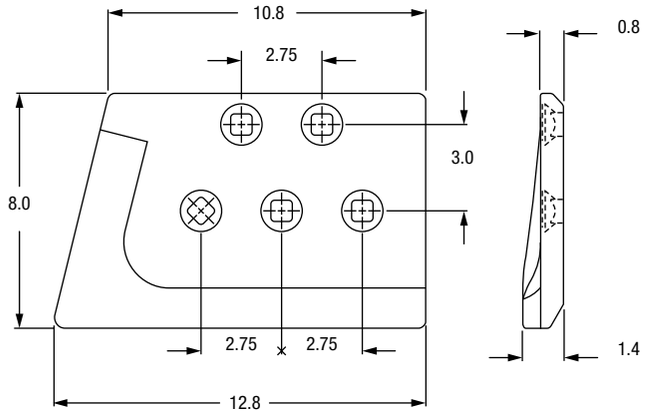


Note: Measurements are in inches.

END BITS FOR DOZERS
Komatsu Style

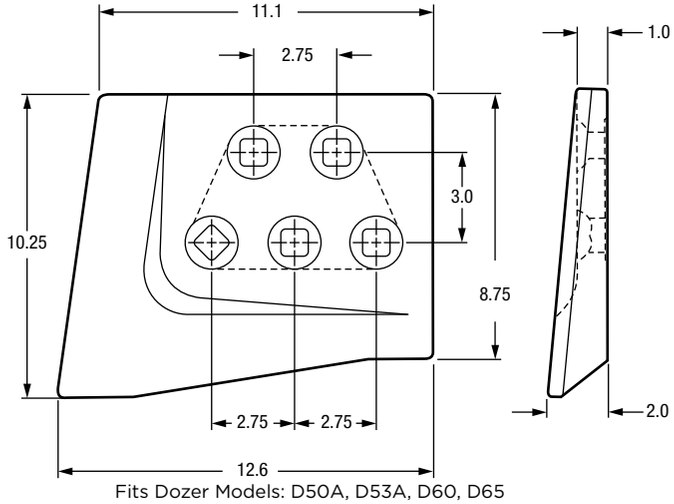
END BITS

134-72-61460RH (RH shown)
134-72-61450LH (LH opposite)
21.3 lb / 937 kg
Requires (5) A34-212 plow bolt assemblies



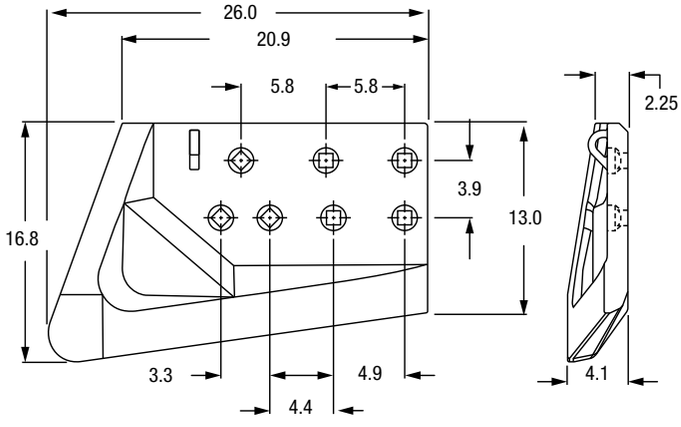
Fits Dozer Models: D50A, D53A D60, D65 model dozers.

140-70-11180HX (RH Shown)
140-70-11170HX (LH Opposite)
35.8 lb / 16.2 kg
Requires (5) A34-400 plow bolt assemblies each



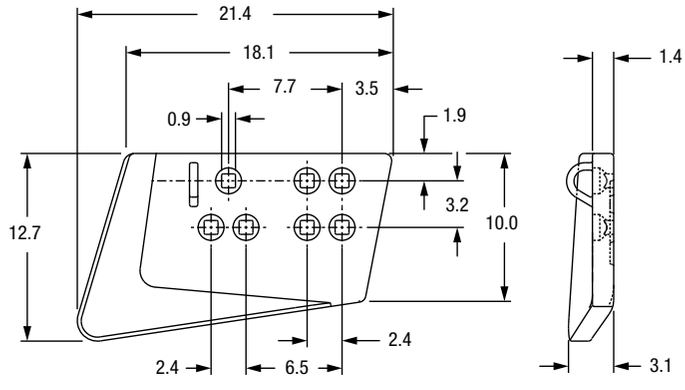
Fits Dozer Models: D50A, D53A, D60, D65

17M-71-21940RH (RH shown)
17M-71-21930LH (LH opposite)
154.0 lb / 70.0 kg
Plow bolts not available from Hensley Industries



Fits Dozer Models: D155A-3/5, D275A-2/5

175-71-22282HX (RH shown)
175-71-22272HX (LH opposite)
83.0 lb / 37.7 kg
Requires (7) A78-412 plow bolt assemblies



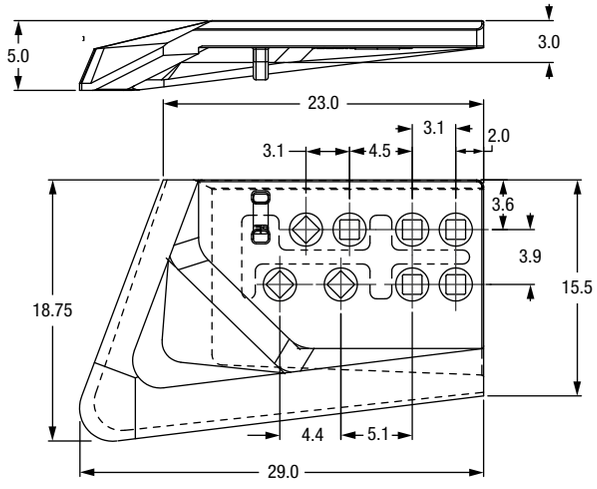
Fits Dozer Models: D155

Note: Measurements are in inches.

END BITS FOR DOZERS
Komatsu Style

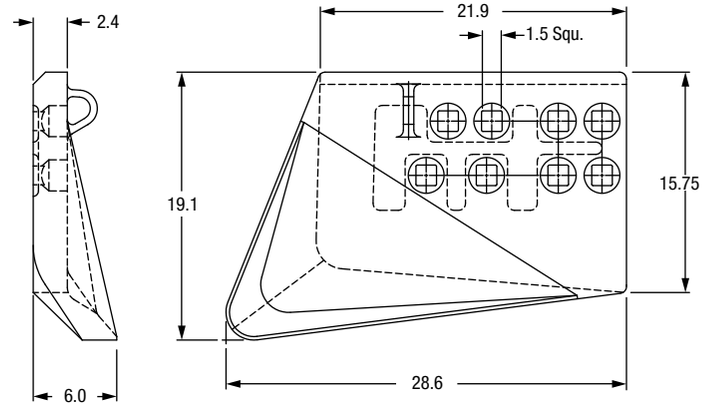
CAST END BITS CONTINUED

195-71-61940RH (RH Shown)
195-71-61930LH (LH Shown)
260.0 lb / 118.0 kg
Requires (8) A114-412 plow bolt assemblies



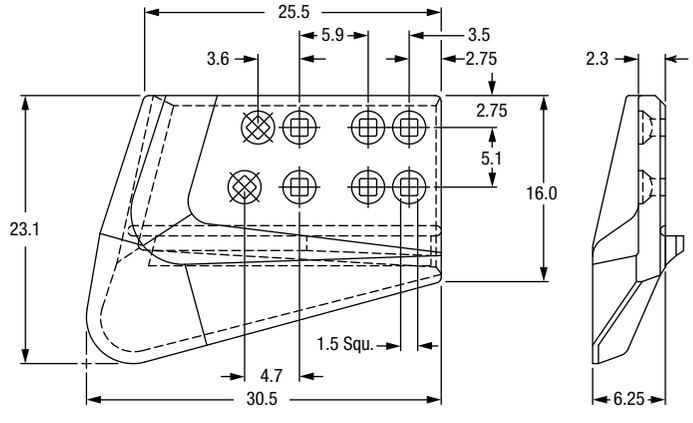
Fits Dozer Models: D375A-1, D375A-2, D375A-3

198-71-31530HX (RH Shown)
198-71-31520HX (LH Opposite)
317.0 lb / 143.8 kg
Plow bolts not available from Hensley Industries



Fits Dozer Models: D475A-1, D475A-2

19M-72-13220HX (RH Shown)
19M-72-13210HX (LH Opposite)
472.0 lb / 214.0 kg
Plow bolts not available from Hensley Industries



Part Replacement Note:
19M-72-21710 uses 19M-72-13210HX
19M-72-21720 uses 19M-72-13220HX

Fits Dozer Models:D575-2

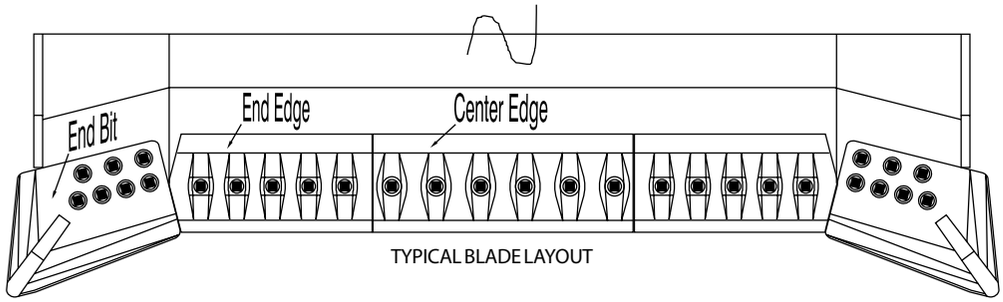
Note: Measurements are in inches.

PLOW BOLTS
Komatsu Style

PLOW BOLT ASSEMBLIES			
Hensley plow bolt assembly numbers designate the diameter and length of the bolt.			
First number indicates bolt diameter which in this case is 1.0″		example: **A10-312**	**Second number indicates bolt length which in this case is 3 1/2″**
Plow Bolt Assemblies*		**Dimensions**	
w/ Hex Nut	**w/ Hex Cone Nut**	**Diameter w/ Threads per inch**	**Bolt Length**
A34-200	-	3/4″ 10	2.0″
A34-300	-	3/4″ 10	3.0″
A34-400	-	3/4″ 10	4.0”
A78-300	-	7/8″ 9	3.0″
A78-314	-	7/8″ 9	3 1/4″
A78-400	-	7/8″ 9	4.0″
A78-412	-	7/8″ 9	3.5”
A10-200	AC10-200	1.0″ 8	2″
A10-312	AC10-312	1.0″ 8	3 1/2″
A10-334	AC10-334	1.0″ 8	3 3/4″
A10-400	AC10-400	1.0″ 8	4.0″
A10-412	AC10-412	1.0″ 8	4 1/2″
A114-300	AC114-300	1 1/4″ 7	3.0″

*Plow Bolt Assemblies consist of Plow Bolt with Nut

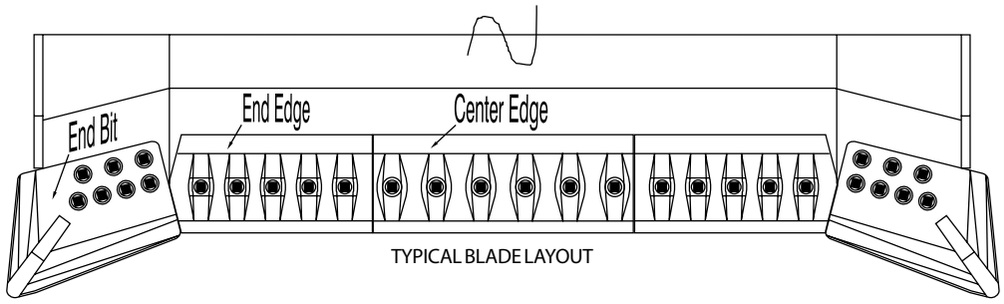
HEAVY DUTY CAST EDGES & END BITS FOR DOZERS
Caterpillar Style



HEAVY DUTY CAST EDGES AND END BITS FOR DOZERS					
Model	**Serial No.**	**Center Edge (#) nut/bolt assy.**	**End Edge (#) nut/bolt assy.**	**Heavy Duty Ribbed End Bit (#) nut/bolt assy.**	**Standard Duty End Bit (#) nut/bolt assy.**
D11	4BB, 4KB, 9NH, 1AD, 4CA, 5TB, 9MH, 9ZH, 4YP	LA6257HHDHX, 1 req'd. (9) A114-514	LA6258HHD-HX, 2 req'd. (9) A114-514 LA6259HHD-HX, 2 req'd. (9) A114-514	-	8E4545RH, 1 req'd. (9) A114-514 8E4546LH, 1 req'd. (9) A114-514
D10N D10R - 10U	1SH, 7WH, 4LP, 6FP	LA6226HHD-HX, 3 req'd. (5) A114-514	LA6227HHD-HX, 2 req'd. (5) A114-514	8E4541HDR, 1 req'd. (7) A114-500 8E4542HDL, 1 req'd. (7) A114-500	8E4541RH, 1 req'd. (7) A114-400 8E4542LH, 1 req'd. (7) A114-400
D10N D10R - 10SU	1RH, 7RH, 4KP, 6EP	LA6248HHD-HX, 2 req'd. (6) A114-500	LA6227HHD-HX, 2 req'd. (5) A114-514	8E4541HDR, 1 req'd. (7) A114-500 8E4542HDL, 1 req'd. (7) A114-500	-
D9N D9R - 9U	1LH, 2ZH, 1MP, 7PH	-	LA6201HHD-HX, 2 req'd. (5) A10-400	8E4539RH, 1 req'd. (7) A10-412 8E4540LH, 1 req'd. (7) A10-412	-
D9N D9R - 9SU	1MH, 5BH, 1LP, 2LP, 7NH	LA6225HHD-HX, 2 req'd. (6) A10-400	LA6201HHD-HX, 2 req'd. (5) A10-400	8E4539RH, 1 req'd. (7) A10-412 8E4540LH, 1 req'd. (7) A10-412	-
D9L - 9U	19Y1-1474 78S	-	-	8E4541HDR, 1 req'd. (7) A114-500 8E4542HDL, 1 req'd. (7) A114-500	-
D9L - 9SU	18Y1-1875 52Y, 42S	-	-	8E4541HDR, 1 req'd. (7) A114-500 8E4542HDL, 1 req'd. (7) A114-500	-
D9H - 9U	14C, 19K, 78X	-	-	7T4094RH, 1 req'd. (7) A10-412 7T4095LH, 1 req'd. (7) A10-412	-
D8N - 8U	1JH, 2WP, 6AH, 9CH	-	-	8E4537HX, 1 req'd. (7) A10-412 8E4538HX, 1 req'd. (7) A10-412	-
D8N - 8U	1JH, 2WP, 6AH, 9CH	-	-	8E4537HX, 1 req'd. (7) A10-412 8E4538HX, 1 req'd. (7) A10-412	-

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HEAVY DUTY CAST EDGES & END BITS FOR DOZERS
Caterpillar Style

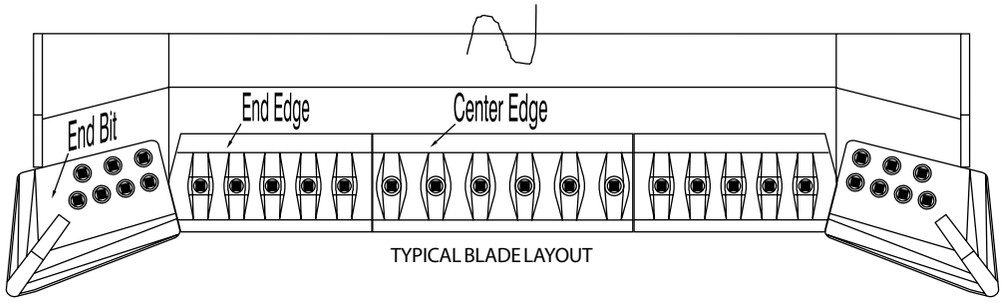


TYPICAL BLADE LAYOUT

HEAVY DUTY CAST EDGES AND END BITS FOR DOZERS CONTINUED

Model	Serial No.	Center Edge (#) nut/bolt assy.	End Edge (#) nut/bolt assy.	Heavy Duty Ribbed End Bit (#) nut/bolt assy.	Standard Duty End Bit (#) nut/bolt assy.
D8N - 8U	1JH, 2WP, 6AH, 9CH	-	-	8E4537HX, 1 req'd. (7) A10-412 8E4538HX, 1 req'd. (7) A10-412	-
D8N - 8SU	1KH, 2PP, 2TP, 3MP	-	LA6201HHD-HX, 2 req'd. (5) A10-400	8E4537HX, 1 req'd. (7) A10-412 8E4538HX, 1 req'd. (7) A10-412	-
D8L - 8SU	04Y1-1939	-	-	7T4091RH, 1 req'd. (7) A10-314 7T4090LH, 1 req'd. (7) A10-314	-
D8 - 8SU	29V, 30W, 60V	-	-	8E4193HX (RH), 1 req'd. (7) A10-314 8E4194HX(LH), 1 req'd. (7) A10-314	9J1479RH, 1 req'd. (7) A10-314 9J1480LH, 1 req'd. (7) A10-314
D8 - 8SU	78C, 29E, 94E, 69E, 14J, 44K, 47K	-	-	-	4J8849RH, 1 req'd. (7) A78-300 4J8850LH, 1 req'd. (7) A78-300
834 - U	14	-	-	3G8315HDR, 1 req'd. (7) A78-300 3G8316HDR, 1 req'd. (7) A78-300	4J8843RH, 1 req'd. (7) A78-234 4J8844LH, 1 req'd. (7) A78-234
D7 - 7SU	40B, 1JP, 8LH	-	-	9W6199HRH, 1 req'd. (7) A78-234 9W6198HLH, 1 req'd. (7) A78-234	-
D7 - 7S	23F, 31F, 59F, 60K, 14H, 49K, 64K, 53J, 6KB, 8NH	-	-	9W6199HRH, 1 req'd. (7) A78-234 9W6198HLH, 1 req'd. (7) A78-234	-

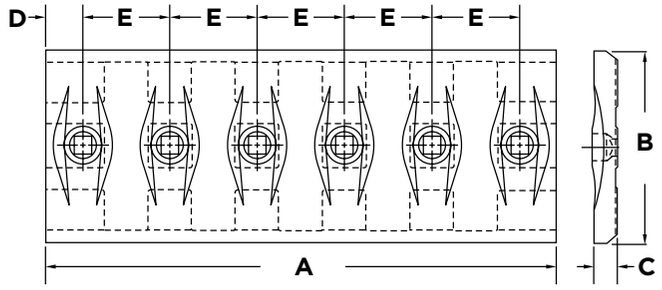
HEAVY DUTY CAST EDGES & END BITS FOR DOZERS
Caterpillar Style



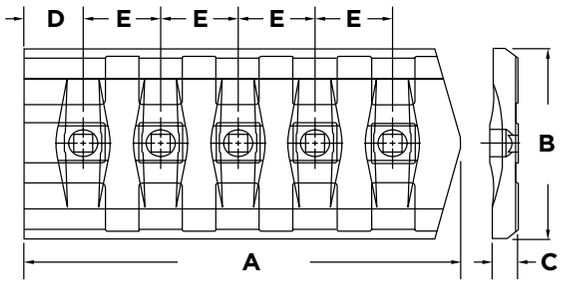
TYPICAL BLADE LAYOUT

HEAVY DUTY CAST EDGES AND END BITS FOR DOZERS CONTINUED					
Model	**Serial No.**	**Center Edge (#) nut/bolt assy.**	**End Edge (#) nut/bolt assy.**	**Heavy Duty Ribbed End Bit (#) nut/bolt assy.**	**Standard Duty End Bit (#) nut/bolt assy.**
D7 - 7A	22F, 30F, 72F, 13F, 13H, 4EB	-	-	9W6199HRH, 1 req'd. (7) A78-234 9W6198HLH, 1 req'd. (7) A78-234	4J8843RH, 1 req'd. (7) A78-234 4J8844LH, 1 req'd. (7) A78-234
D6 - 6S	95E, 46G, 55G, 17H, 21H, 63S	-	-	-	5J1419RH, 1 req'd. (6) A34-214 5J1420LH, 1 req'd. (6) A34-214

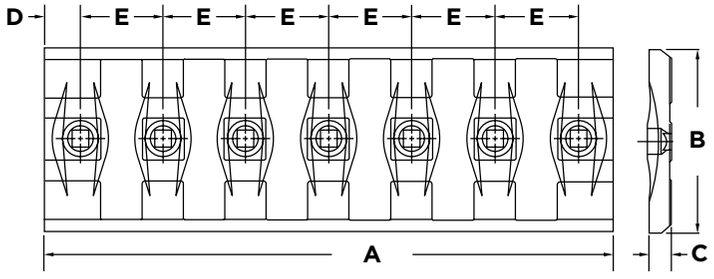
CENTER & END DOZER EDGES
Caterpillar Style



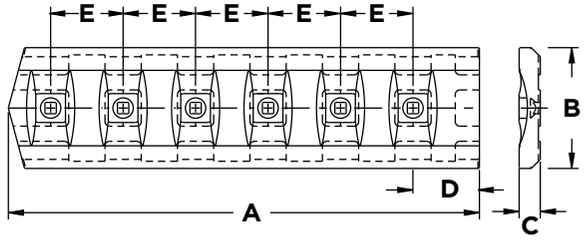
Center 1



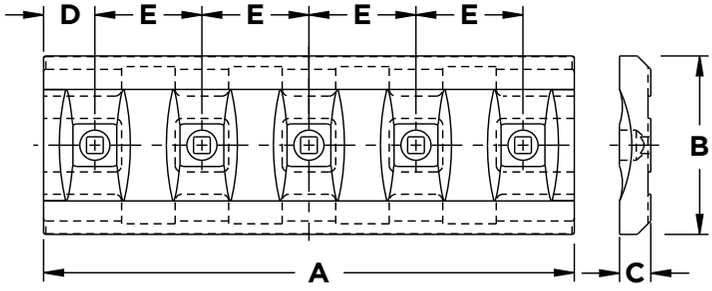
End 1



Center 2



End 2



Center 3

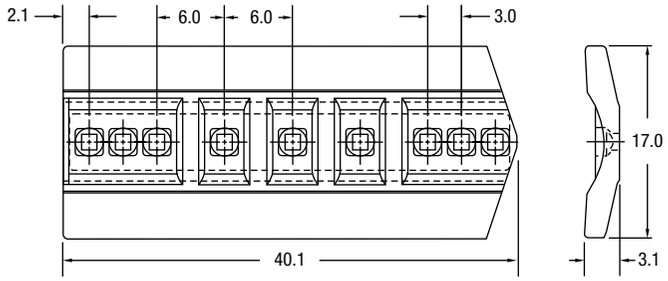
DOZER EDGES												
Part No.	Type	Dimensions										Weight	
		A		B		C		D		E			
		″	mm	″	mm	″	mm	″	mm	″	mm	lb	kg
LA6225HHD-HX	Center 1	35.0	889	13.0	330	1.75	44	2.5	64	6.0	152	190.0	86.2
LA6248HHD-HX	Center 1	39.0	991	16.0	406	2.0	51	4.5	114	6.0	152	276.0	125.2
LA6250HHD-HX	Center 2	42.2	1072	10.0	254	1.75	44	3.1	78	6.0	152	164.0	74.0
LA6110HHD-HX	Center 2	40.9	1038	13.0	330	1.75	44	2.4	62	6.0	152	215.0	97.5
4T2988HHX	Center 2	40.6	1032	10.0	254	1.75	44			6.0	152	150.0	68.1
LA6226HHD-HX	Center 3	33.25	845	16.0	406	2.0	51	4.6	117	6.0	152	240.0	108.9
4T2992HHX	Center 3	29.75	756	10.0	254	1.75	44			6.0	152	114.0	51.7
LA6201HHD-HX	End 1	31.4	798	13.0	330	1.75	44	2.9	73	6.0	152	162.0	73.5
LA6227HHD-HX	End 1	33.9	860	16.0	406	2.0	51	4.6	117	6.0	152	234.0	106.2
4T2986HHX	End 1	30.75	781	10.0	254	1.75	44	2.9	75	6.0	152	112.0	50.8
4T8797HHX	End 2	39.0	991	10.0	254	1.75	44	5.5	140	6.0	152	145.0	65.8

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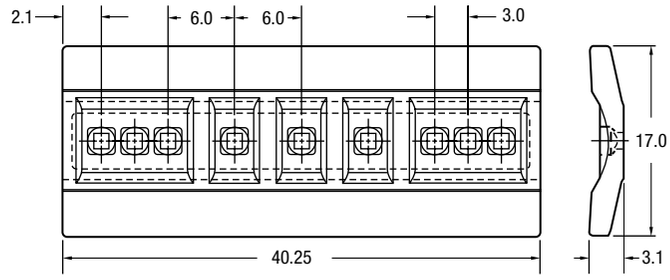
CENTER & END DOZER EDGES
Caterpillar Style

DOZER EDGES

LA6258HHD-HX
375.0 lb / 170 kg

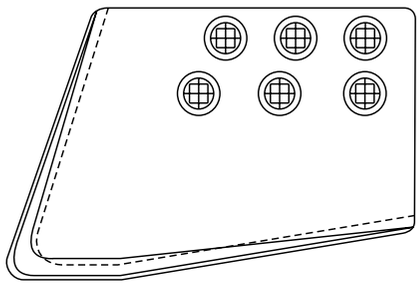


LA6259HHD-HX
385.0 lb / 174.6 kg

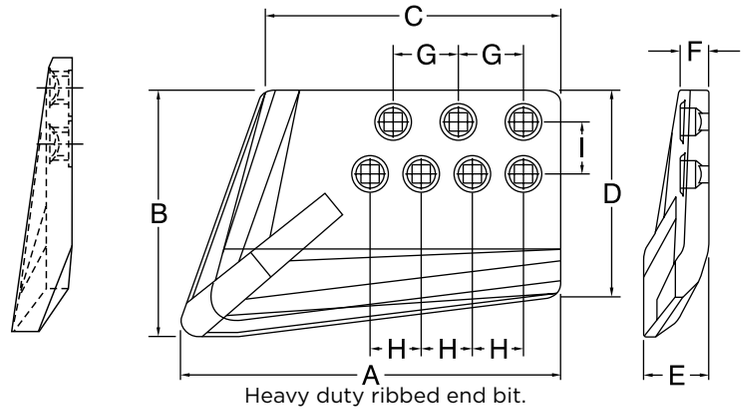


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END BITS FOR DOZERS
Caterpillar Style



Standard duty end bit.
Right hand shown, left hand opposite.



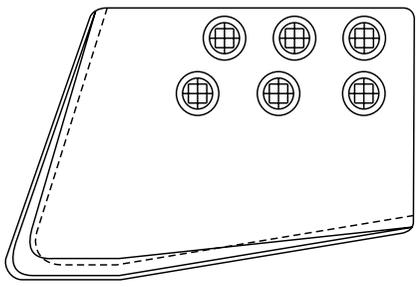
Heavy duty ribbed end bit.

END BITS													
Part No.	Type	Dimensions											
		A		B		C		D		E		F	
		"	mm	"	mm	"	mm	"	mm	"	mm	"	mm
4J8849RH 4J8850LH	Standard Duty	19.1	486	11.0	279	16.25	413	10.4	263	2.4	63	1.1	29
4J8843RH 4J8844LH	Standard Duty	19.0	483	10.9	276	16.4	416	10.25	260	2.9	73	1.1	29
9W6199HRH 9W6198HLH	Heavy Duty Ribbed	19.4	492	12.4	314	16.75	425	10.4	263	3.3	84	1.0	25
7T4091RH 7T4090LH	Heavy Duty Ribbed	20.75	527	14.0	356	16.2	411	11.8	300	3.75	95	1.1	29

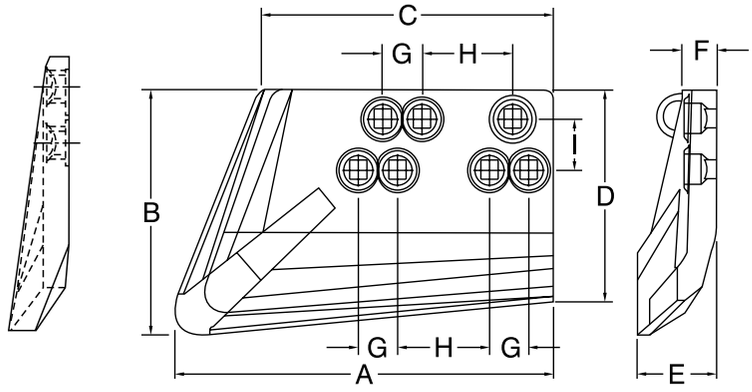
END BITS CONTINUED									
Part No.	Type	Dimensions						Weight	
		G		H		I			
		"	mm	"	mm	"	mm	lb	kg
4J8849RH 4J8850LH	Standard Duty	4.0	102	3.0	76	3.25	83	53.0	24.0
9J1476-9RH 9J1480LH	Standard Duty	4.0	102	3.0	76	3.25	83	56.2	25.5
4J8843RH 4J8844LH	Standard Duty	4.0	102	3.0	76	3.25	83	51.8	23.5
9W6199HRH 9W6198HLH	Heavy Duty Ribbed	4.0	102	3.0	76	3.25	83	80.0	36.3
7T4091RH 7T4090LH	Heavy Duty Ribbed	4.0	102	3.0	76	3.25	83	106.0	48.1

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END BITS FOR DOZERS
Caterpillar Style



Standard duty end bit.
Right hand shown, left hand opposite.



Extended wear life.

END BITS												
Part No.	Type	Dimensions										
		A		B		C		D		E		F	
		″	mm	″	mm	″	mm	″	mm	″	mm	″	mm
8E4541RH 8E4542LH	Standard Duty	29.4	747	18.6	472	22.75	578	16.1	410	6.25	159	1.9	49
8E4541HDR 8E4542HDL	Heavy Duty Ribbed	29.25	743	18.75	476	22.75	578	16.1	410	6.0	152	1.9	48

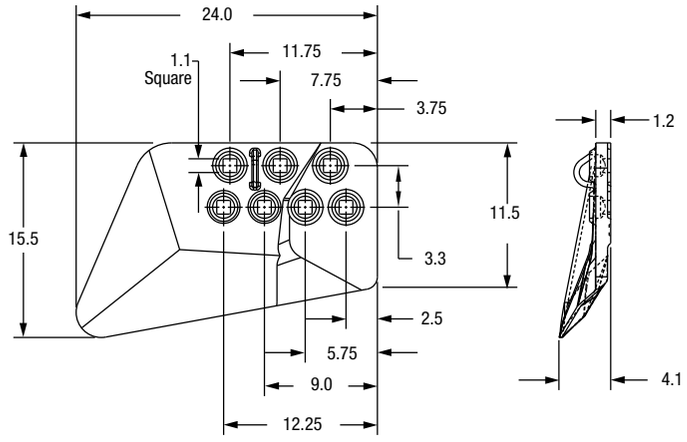
END BITS CONTINUED									
Part No.	Type	Dimensions						Weight	
		G		H		I			
		″	mm	″	mm	″	mm	lb	kg
8E4541RH 8E4542LH	Standard Duty	3.0	76	7.0	178	3.9	100	275.0	124.7
8E4541HDR 8E4542HDL	Heavy Duty Ribbed	3.0	76	7.0	178	3.9	100	285.0	129.3

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END BITS FOR DOZERS
Caterpillar Style

HEAVY DUTY RIBBED END BIT

8E4193HX (RH)
8E4194HX (LH)
91.0 lb / 41.3 kg

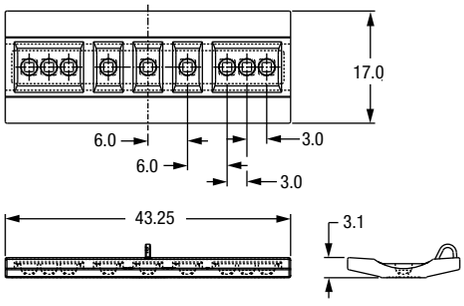


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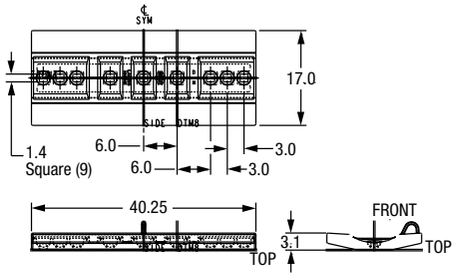
WEAR PARTS FOR D11 DOZERS
Caterpillar Style

CAST EDGES			
Machine	**Serial No.**	**Center Edge (#) nut/bolt assy.**	**End Edge (#) nut/bolt assy.**
D11-SU	4BB, 4KB, 9NH, 1AP, 4XP	LA6257HHD-HX, 2 req'd. (9) A114-514	LA6258HHD-HX, 2 req'd. (9) A114-514
D11-U	4CB, 5TB, 9MH, 92H, 4YP	LA6257HHD-HX, 2 req'd. (9) A114-500	LA6258HHD-HX, 2 req'd. (9) A114-514 LA6259HHD-HX, 2 req'd. (9) A114-514

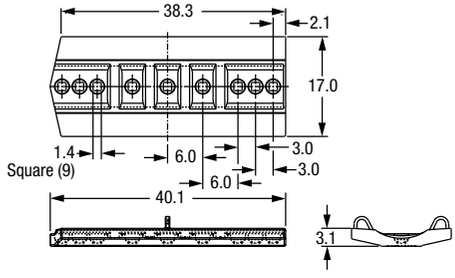
LA6257HHDHX
410.0 lb / 185.9 kg



LA6259HHDHX
385.0 lb / 174.6 kg



LA6258HHDHX
375.0 lb / 170.0 kg

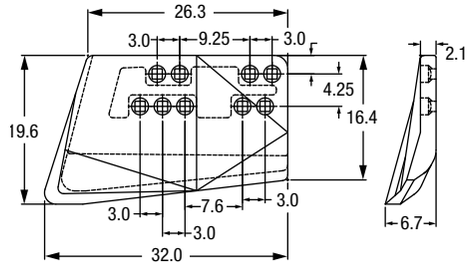


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WEAR PARTS FOR D11 DOZERS
Caterpillar Style

CAST END BITS				
Machine	**Serial No.**	**Heavy Duty Ribbed End Bit (#) nut/bolt assy.**	**Standard Duty End Bit (#) nut/bolt assy.**	
D11-SU, D11-U	4BB, 4KB, 9NH, 1AD, 4CA, 5TB, 9MH, 9ZH, 4YP	-	8E4545RH, 1 req'd. (9) A114-514	8E4546LH, 1 req'd. (9) A114-514

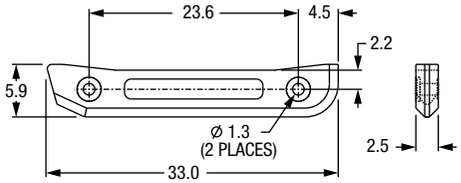
8E4545RH (RH shown)
8E4545LH (LH opposite)
382.0 lb / 173.3 kg



VERTICAL EDGE PROTECTOR			
Side Bar Protector	**Adapter Plate**	**Pin**	**Washer**
125-0800HX, 2 req'd. (117.0 lb / 53.0 kg)	135-9794HX, 2 req'd.	8E4708P, 4 req'd.	4T4707W, 4 req'd.

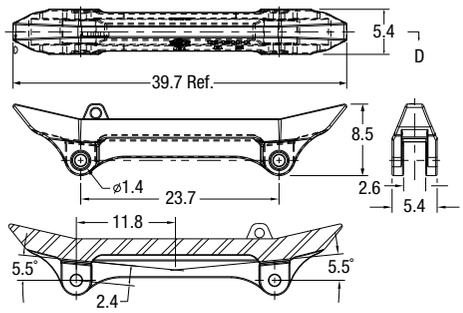
ADAPTER PLATE

135-9794HX
103.0 lb / 46.7 kg



SIDE BAR

125-0800HX
117.0 lb / 53.1 kg



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Note: Measurements are in inches.

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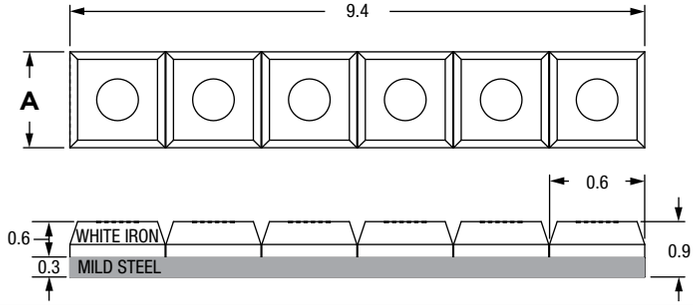
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5.7

SPECIALIZED WEAR PROTECTION

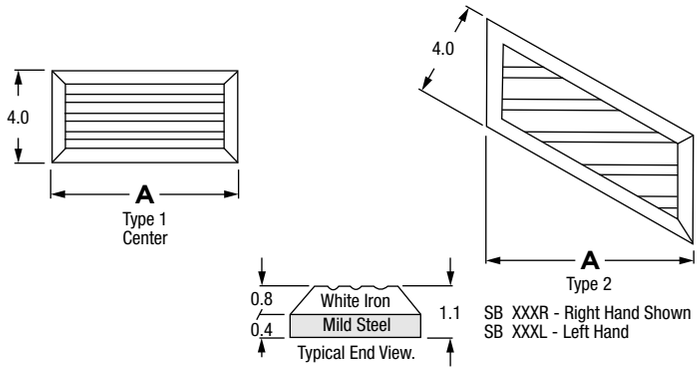
LAMINITE

CHOCKY BARS & SKID BARS
LAMINITE



CHOCKY BARS				
Part Number	Dimensions A		Weight	
	"	mm	lb	kg
CB25N	Under Development			
CB40N*	1.6	40	3.1	1.4
CB50N*	2.0	50	4.5	1.9
CB65N*	2.6	65	5.3	2.4
CB100N*	3.9	100	9.5	4.3
CB130N*	5.1	130	12.3	5.6

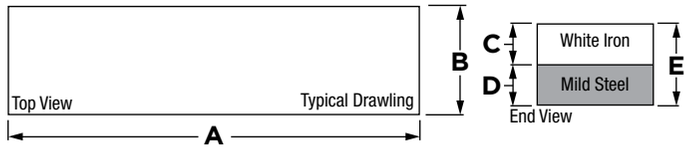
*Note: Chocky bar with pre-notched backing plate to make it easier to break apart, separate or bend.



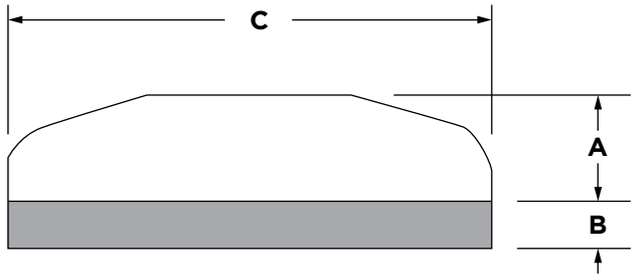
SKID BARS					
Part Number	Type	Dimensions A		Weight	
		"	mm	lb	kg
SB205	1			3.5	1.6
SB403	1	8.4	212	6.3	2.9
SB404L	2	8.5	216	8.4	3.8
SB405R	2	8.5	216	8.4	3.8
SB406	1	12.0	305	9.7	4.4
SB407L	2	12.2	310	17.0	7.7
SB408R	2	12.2	310	17.0	7.7
SB409	1	6.0	152	5.0	2.3
SB410L	2	6.0	152	8.4	3.8
SB411R	2	6.0	152	8.4	3.8

Note: Measurements are in inches.

WEAR BARS & WEAR BUTTONS
LAMINITE

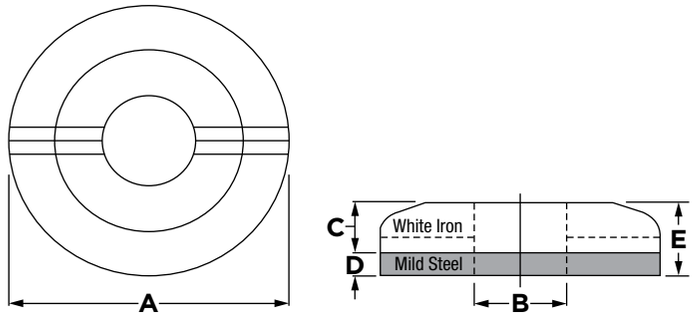


WEAR BARS												
Part Number	Dimensions										Weight	
	A		B		C		D		E			
	″	mm	″	mm	″	mm	″	mm	″	mm	lb	kg
DLP4	12.3	312	1.5	38	1.0	25	0.4	10	1.4	35	5.7	2.6
DLP125	9.0	230	2.0	50	1.5	38	0.5	12	2.0	50	9.0	4.1
DLP184	5.9	150	3.0	76	1.1	29	0.4	10	1.5	39	7.0	3.2
DLP201	17.0	432	2.0	50	1.1	28	0.4	10	1.5	39	15.5	7.0
DLP201A	17.0	432	2.0	50	1.5	38	0.5	12	2.0	50	17.8	8.1
DLP270	10.0	254	2.0	50	0.4	10	0.3	8	0.7	18	4.0	1.8
DLP295	6.0	152	1.5	38	1.0	25	0.3	8	1.3	33	3.5	1.6
DLP352	8.0	203	8.0	203	0.9	22	1.4	36	2.25	58	39.4	17.9
DLP453	11.8	300	2.0	50	1.5	38	0.4	10	1.9	48	12.6	5.7
DLP569	8.0	203	3.0	76	1.0	25	0.4	10	1.4	35	9.3	4.2
DLP619	6.0	152	3.0	76	1.8	46	0.4	10	2.2	56	10.8	4.9
DLP995	12.0	305	5.9	150	0.7	18	0.2	24	0.9	24	19.8	9.0
DLP1191	11.8	300	1.0	25	0.6	15	0.3	8	0.9	23	3.2	1.5



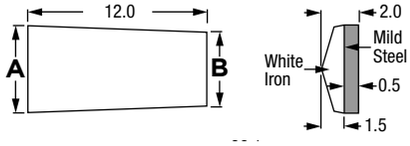
WEAR BUTTONS								
Part Number	Dimensions						Weight	
	A		B		C			
	″	mm	″	mm	″	mm	lb	kg
WB60	0.4	10	0.4	10	2.4	60	0.9	0.4
WB75	0.6	15	0.4	10	2.75	75	2.0	0.9
WB90	0.8	21	0.4	10	3.5	90	2.4	1.1
WB115	0.8	20	0.5	12	4.5	10	5.7	2.6
WB150	1.0	25	0.6	16	5.9	150	12.0	5.4

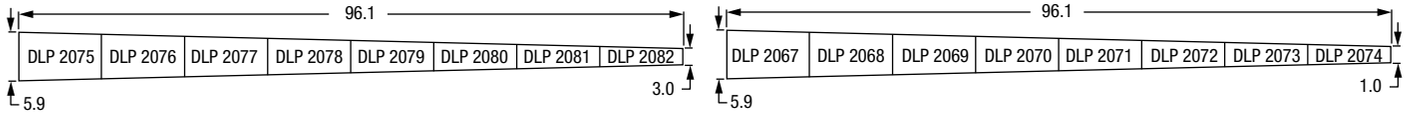
BOLT PROTECTORS & GRIZZLY BARS
LAMINITE



Typical Drawings

BOLT PROTECTORS												
Part Number	Dimensions										Weight	
	A		B		C		D		E			
	″	mm	″	mm	″	mm	″	mm	″	mm	lb	kg
DLP1920	3.0	75	1.0	25	0.75	19	0.25	6	1.0	25	1.5	0.7
DLP1921	4.0	100	2.0	50	0.7	17	0.3	8	1.0	25	3.0	1.4
DLP1994	4.0	100	2.75	70	1.0	25	0.25	6	1.25	32	2.0	0.9





GRIZZLY BARS						
Part Number	Dimensions				Weight	
	A		B			
	″	mm	″	mm	lb	kg
DLP2075	5.9	150	5.5	141	21.2	9.6
DLP2076	5.5	141	5.2	131	19.8	9.0
DLP2077	5.2	131	4.8	122	18.2	8.3
DLP2078	4.8	122	4.4	113	16.9	7.7
DLP2079	4.4	113	4.1	103	15.4	7.0
DLP2080	4.1	103	3.7	94	14.0	6.4
DLP2081	3.7	94	3.3	84	12.5	5.7
DLP2082	3.3	84	3.0	75	11.2	5.1

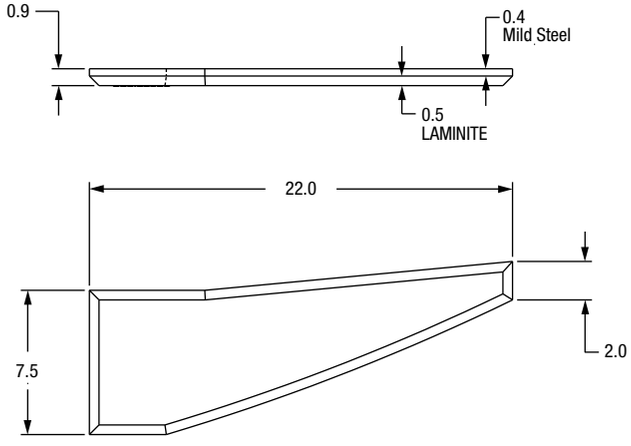
GRIZZLY BARS						
Part Number	Dimensions				Weight	
	A		B			
	″	mm	″	mm	lb	kg
DLP2067	5.9	150	5.4	138	20.5	9.5
DLP2068	5.4	138	4.9	125	19.1	8.7
DLP2069	4.9	125	4.4	113	17.2	7.8
DLP2070	4.4	113	3.9	100	15.2	6.9
DLP2071	3.9	100	3.4	88	13.4	6.1
DLP2072	3.4	88	3.0	75	11.4	5.2
DLP2073	3.0	75	2.5	63	9.5	4.3
DLP2074	2.5	63	2.0	50	7.7	3.5

Note: Measurements are in inches.

SPECIALTY LAMINITE PRODUCTS
LAMINITE

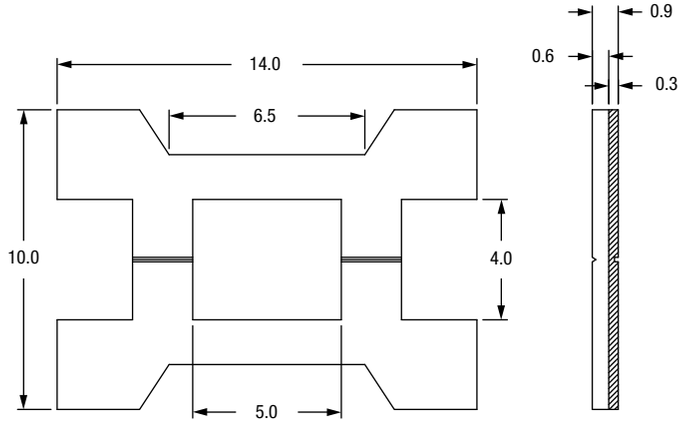
SIDE PROTECTORS FOR HENSLEY HYDRAULIC SHOVEL CAST LIPS

SDP1337AL (LH shown)
SDP1337BR (RH opposite)
28.0 lb / 12.7 kg



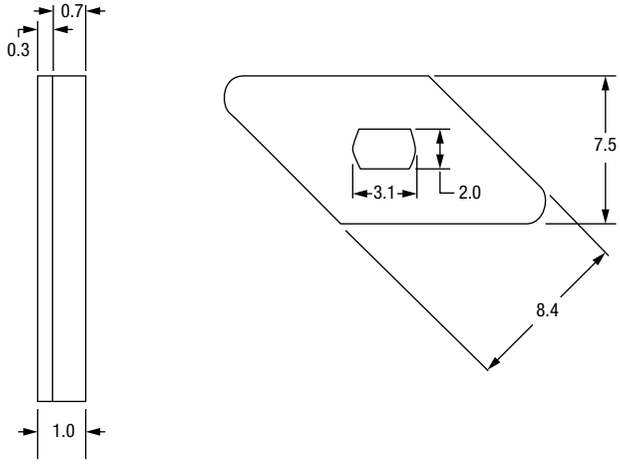
TRUCK BED LINERS

DLP 4957
19.0 lb / 8.6 kg



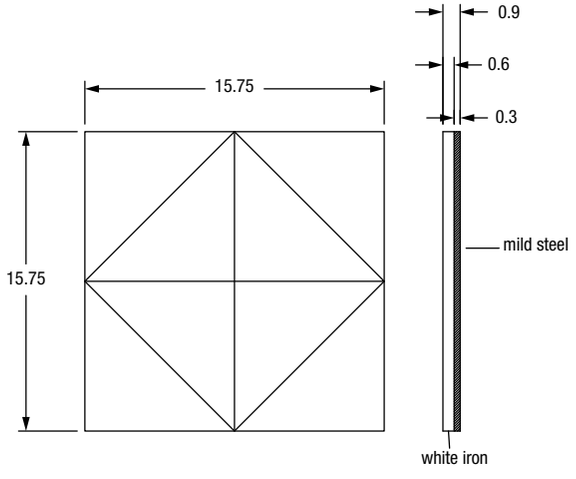
TRAPEZOIDAL PLATE

DLP1935
22.1 lb / 10.0 kg



STAR PLATE

DLP2180
63.2 lb / 28.7 kg



Note: Measurements are in inches.

LAMINITE® BENDING DETAILS FOR "CHOCKY" BARS

READ BENDING INSTRUCTIONS COMPLETELY

1 Clean the surface to which "chocky" bar will be welded.

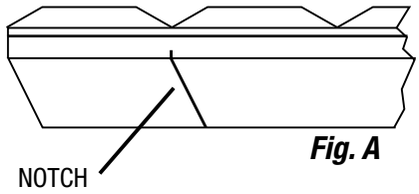


Fig. A

2a **FOR OUTSIDE CURVES:** Tack weld one end of "chocky" bar (per welding procedures) in at least 3 places using at least **15mm** of weld in each deposit. **(Fig.1)** Hammer down unwelded end of bar so that the bar bends and follows the curve. **(Fig.2)**

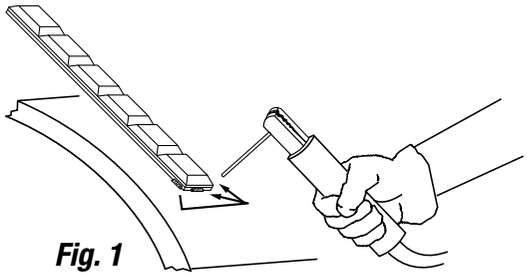


Fig. 1

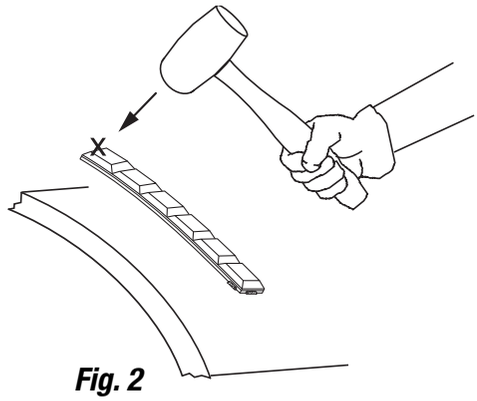


Fig. 2

2b **FOR INSIDE CURVES:** Tack weld one end of "chocky" bar (per welding procedures) in at least 3 places using at least **15mm** of weld in each deposit **(Fig.3a)**. Starting in the center strike bar so that the bar bends and follows the curve **(Fig.3b)**.

3a Stitch weld (per welding procedures) until bar is firmly in place.

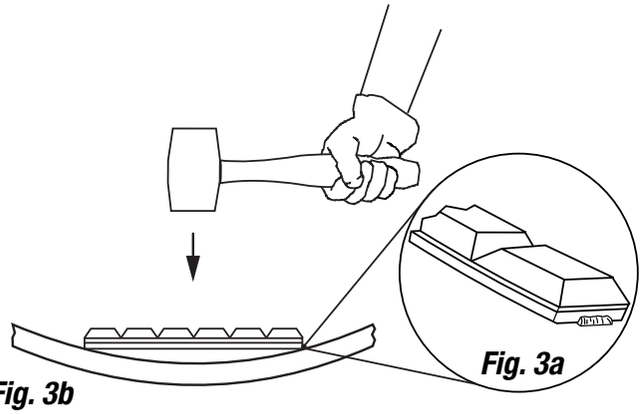


Fig. 3a

Fig. 3b

NOTE: White iron may crack during bending. This is normal.

Hensley recommends you always use a soft-face hammer and ANSI-approved (Z87.1) eye protection during cutting and bending procedures.

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5.8

SPECIALIZED WEAR PROTECTION

Rippers

RIPPER PARTS FOR DOZER & LOADERS
Caterpillar Style

REPLACEMENT RIPPER PARTS FOR DOZERS & LOADERS							
Model	**Shank Assembly†**	**Repair Segment**	**Repair Nose**	**Shank Guard Part No.**	**Shank Guard Upper Fastener(s)**	**Shank Guard Lower Fasteners(s)**	**Tooth Series [1]**
D11 (SS)	8E0467, 8E1466, 7T6020, 9W0259	104-9279HX	N/A	9N4621HX	8E2229P/101-2874W (pin & retainer) 6Y2443P*	8E2229P/101-2874W (pin & retainer) 6Y2443P*	R550
D11 (MS), D10, D9L	6Y3138, 8E8411, 6Y6141, 8E8414, 6Y6144, 8E8415, 6Y6147, 8E8416, 8E8417, 109-9114, 114-4503	103-8115HX	107-3361HX	9W8365HX	6Y3909P/4T4707W (pin & retainer) 3G0500P*	6Y3909P/4T4707W (pin & retainer)	R500
	6Y4679, 8E8412, 118-2140, 109-3135, 6Y5616, 8E8413	103-8115HX	107-3361HX	6Y8960HX, 6Y8960HHX	6Y3909P/4T4707W (pin & retainer) 3G0500P*	6Y3909P/4T4707W (pin & retainer)	R500
	1V4592, 7T5130, 3G8566, 9W4427, 3G2088, 9W4426, 9J5954, 1U4873, 7T5131	1U3630HX*	103-8114HX	6Y9704HX	8J4889[2] (weld-on retainer)	6Y3909P/4T4707W (pin & retainer) 3G0500P*	R500
	3G5707, 3G6507	1U3630HX*	103-8114HX	1U3644HX, 1U3644HHX	-	6Y3909P/4T4707W 3G0500P*	R500
D9, D8	107-3485, 107-3486, 4T0134, 4T0135, 4T0136, 4T8988, 4T8989, 4T8990, 7J1792, 7J1793, 8E5339, 8E5340, 8E5341, 8E5345, 8E5346, 8E5347, 8E5348, 9W6167	8E8418HX	9U9694HX	6J8814HX, 6J8814WHX, 8E1848HX	6J8811P	6Y3394P/8E5559W	R450
		7J1791HX*	4T9776WN*	6J8814HX, 6J8814WHX, 8E1848HX	6J8811P	7J9600P*	R450
D7H, 983	9W7382, 7J6671	-	9W7488WN	-	-	-	R350
D7, D6, D5, 973, 977	-	-	-	-	-	-	R350 9J8920HX (old style)
D4, 941, 951, 955, 963	9J6586HX (straight) 9J8913[2] (curved)	-	C12WN	-	-	-	R300
953, 943	1U1257[2]	-	-	-	-	-	J250
D3, 931	8J5299[2]	-	-	-	-	-	J200

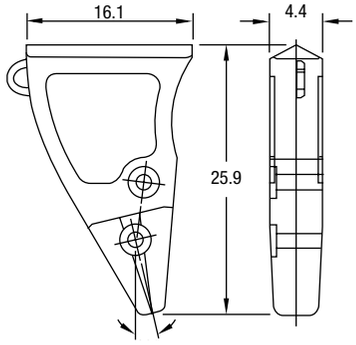
(SS) = Single Shank (MS) = Multi-Shank
† Contact Hensley's Attachment Division for Ripper Shank Replacements for D7H Dozers and larger.
* Old Style Center Snap Ring Pin.
[1] See Tooth Series Application Chart
[2] Reference only. Not available from Hensley Industries.

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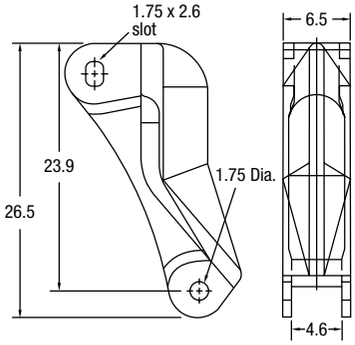
R550 — R500 RIPPERS FOR DOZERS & LOADERS
Caterpillar Style

R550 SERIES

104-9279HX
Weld-on Segment
285.0 lb / 129.3 kg

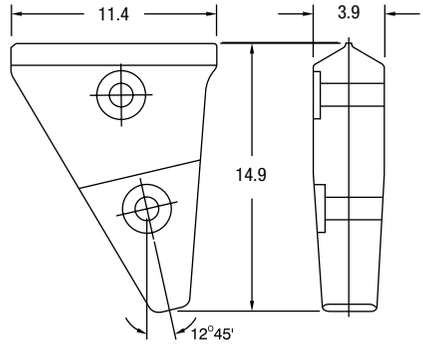


9N4621HX
Shank Guard
173.0 lb / 78.5 kg



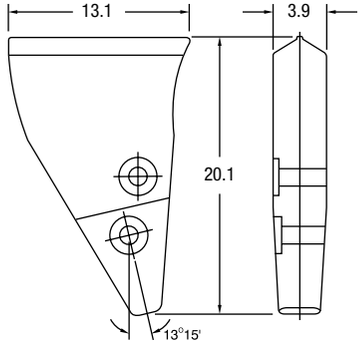
R500 SERIES

103-8114HX
Weld-on Segment
96.0 lb / 43.5 kg

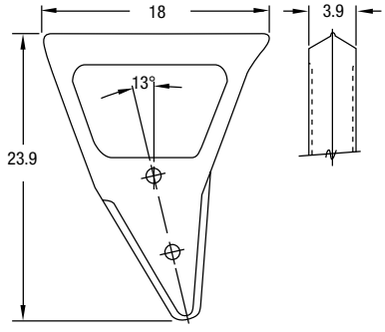


R500 SERIES

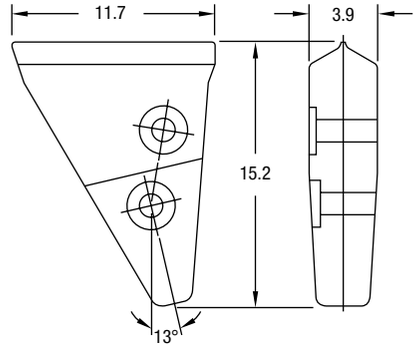
103-8115HX
Weld-on Segment
162.0 lb / 73.5 kg



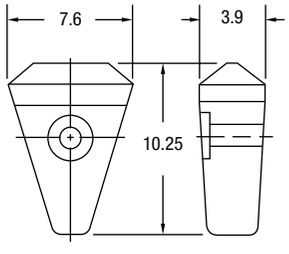
1U3630HX
Weld-on Segment
(uses old style center snap ring pin)
224.0 lb / 101.6 kg



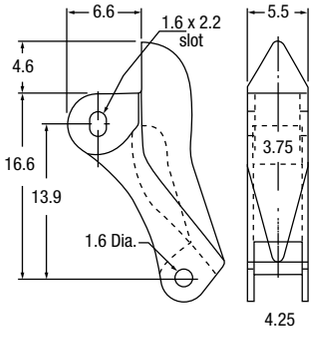
107-3361HX
Weld-on Segment
98.0 lb / 44.5 kg



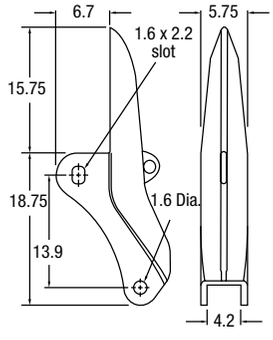
C22WN
Weld-on Nose
46.9 lb / 21.3 kg



9W8365HX
Shank Guard
(3.62" Thick Shank)
84.0 lb / 38.1 kg



9W8365EXT
Shank Guard
94.0 lb / 42.6 kg



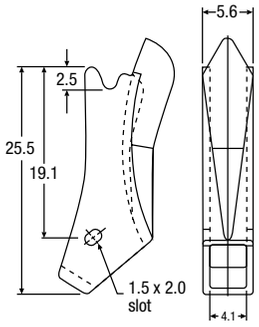
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Note: Measurements are in inches.

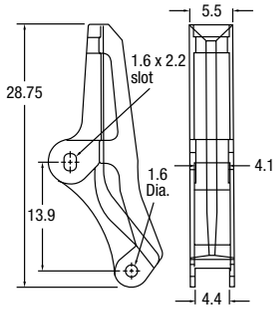
R500 — R450 RIPPERS FOR DOZERS & LOADERS
Caterpillar Style

R500 SERIES CONTINUED

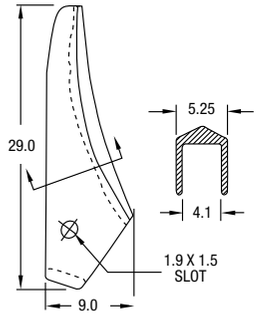
6Y9704HX
Shank Guard
122.0 lb / 53.3 kg



6Y8960HHX
Shank Guard
128.0 lb / 58.1 kg

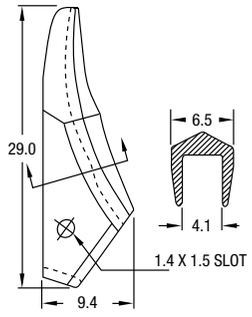


1U3644HX
Shank Guard
91.0 lb / 41.3 kg

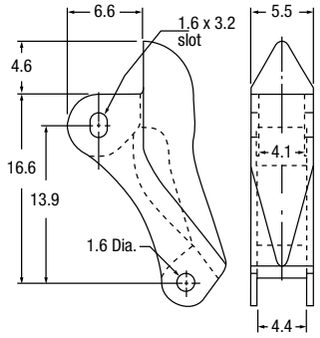


R450 SERIES

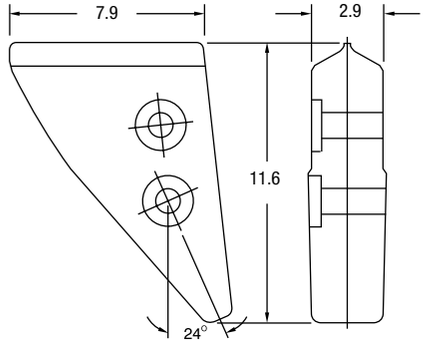
1U3644HHX
Shank Guard
112.0 lb / 55.3 kg



6Y8960HX
Shank Guard
(4.0" Thick Shank)
85.0 lb / 38.5 kg

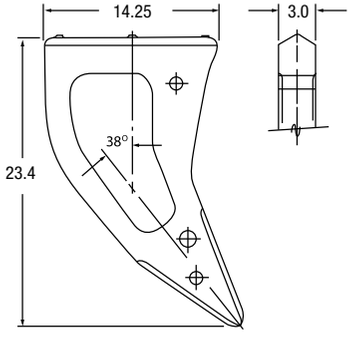


9U9694HX
Weld-on Segment
43.5 lb / 19.7 kg

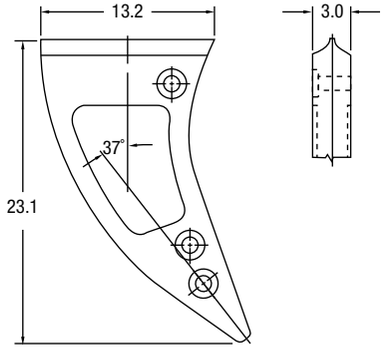


R450 SERIES

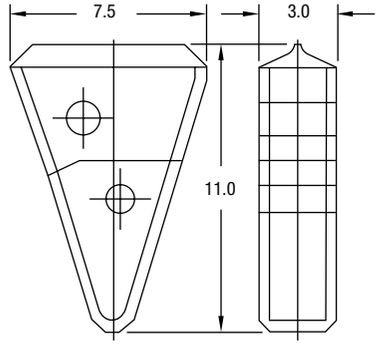
7J1791HX
Weld-on Segment
(uses old style center snap ring pin)
165.0 lb / 74.8 kg



8E8418HX
Weld-on Segment
150.0 lb / 68.0 kg



4T9776WN
Weld-on Segment
(uses old style center snap ring pin)
36.8 lb. / 16.7 kg



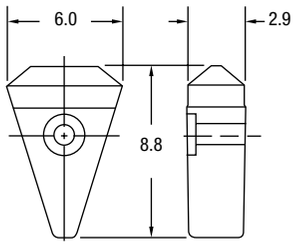
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Note: Measurements are in inches.

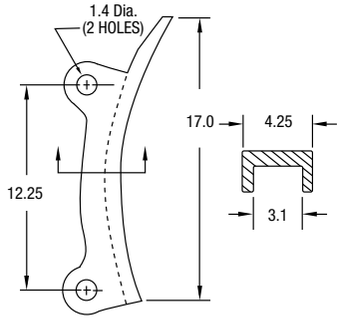
R450 — R200 RIPPERS FOR DOZERS & LOADERS
Caterpillar Style

R450 SERIES CONTINUED

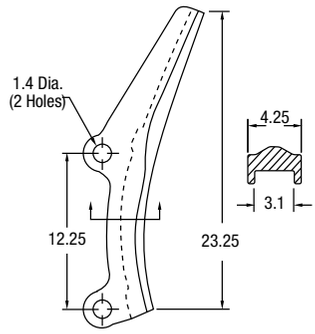
C20WN
Weld-on Nose
24.5 lb / 11.1 kg



6J8814HX
Shank Guard
24.5 lb / 11.1 kg

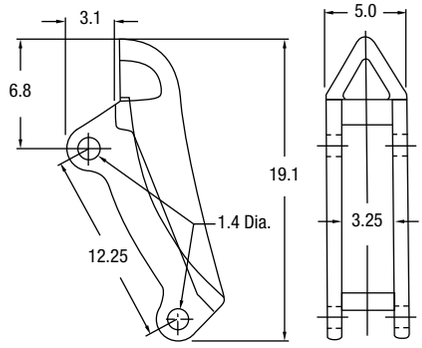


6J8814WHX
Shank Guard
53.2 lb / 24.1 kg

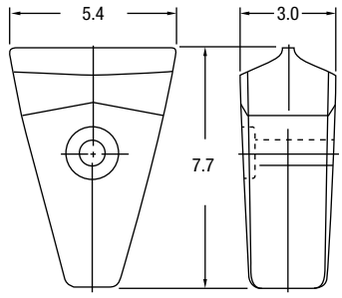


R350 SERIES

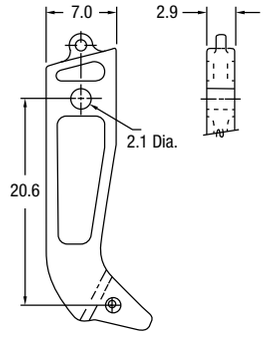
8E1848HX
Shank Guard
52.0 lb / 23.6 kg



9W7488WN
Weld-on Nose
18.5 lb / 8.4 kg

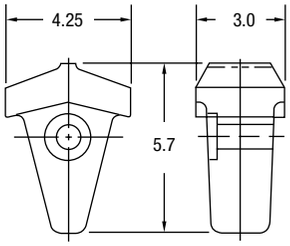


9J3139HX
Ripper Shank
116.0 lb / 52.6 kg

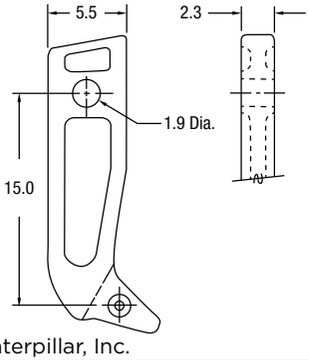


R300 SERIES

C12WN
Weld-on Nose
9.6 lb / 4.4 kg

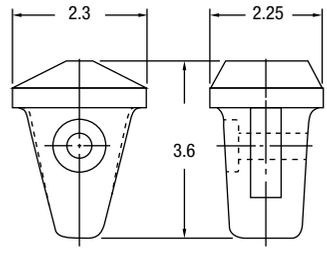


9J6586HX
Ripper Shank
51.3 lb / 23.3 kg
Uses 2K6413P pin with
(2) 3B5325P (3 x 15/32 cotter keys).



R200 SERIES

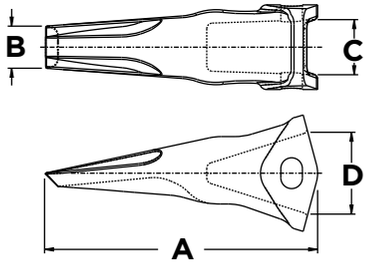
8J7525WN
Weld-on Nose
2.4 lb / 1.1 kg



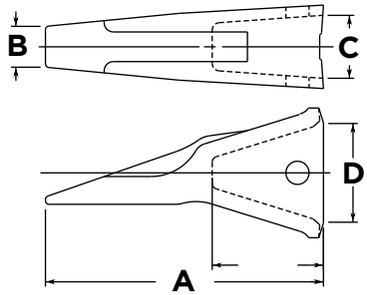
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Note: Measurements are in inches.

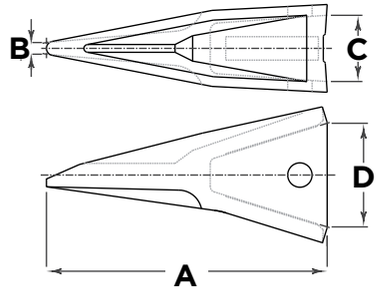
RIPPER TEETH FOR DOZERS & LOADERS
Caterpillar Style



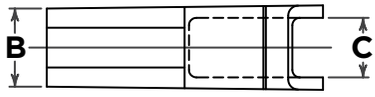
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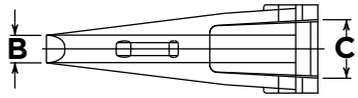


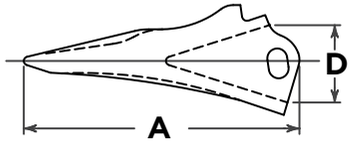
Type 2 (Non-Centerline)



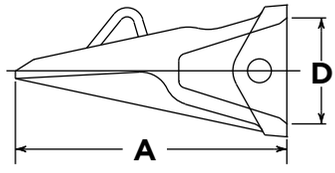
Type 3 (Tiger)







Type 4



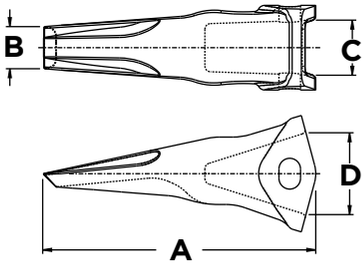
Type 5 (Non-Centerline)

RIPPER TEETH FOR DOZERS AND LOADERS												
Tooth Series	Ripper Tooth Part No.	Type	Dimensions								Weight		Fasteners
			Overall Tooth				Tooth Pocket						
			A		B		C		D				
			″	mm	″	mm	″	mm	″	mm	lb	kg	
R550	9W4551HX	1	17.6	448	3.0	76	4.6	116	8.4	213	88.5	40.1	8E2229P, 1012874W or 6Y2443P*
	9W4552HX	1	21.25	540	3.0	76	4.6	116	8.4	213	107.0	48.5	
	6Y3552HX	2	21.25	540	3.1	80	4.6	116	8.4	213	100.0	45.4	
	T9W4552	3	20.0	508	-	-	4.6	116	8.4	213	96.7	43.9	
R500	4T5501HX	2	14.75	375	2.75	70	4.25	108	6.5	165	53.5	24.3	6Y3909P/ 4T4707W or 3G0500P*
	4T5502HX	2	17.1	435	2.75	70	4.25	108	6.5	165	61.8	28.0	
	3G6503HX	2	18.75	476	2.75	70	4.25	108	6.5	165	63.0	28.6	
	4T4502HX	1	16.75	425	3.0	76	4.25	108	6.5	165	64.0	29.0	
	4T4503HX	1	19.0	483	2.9	73	4.25	108	6.5	165	68.0	30.8	
	3G6502HHX	1	17.25	438	3.75	95	4.25	108	6.5	165	77.2	35.0	
	T3G6502	3	16.0	406	-	-	4.25	108	6.5	165	49.8	22.6	
	T3G6503	3	18.0	457	-	-	4.25	108	6.5	165	49.8	22.6	
	3G6503CLAW	5	18.0	457	1.25	32	4.25	108	6.5	165	72.0	32.7	
R450	9W2451HX	1	12.9	327	3.1	80	3.4	86	4.9	121	38.2	17.3	6Y3394P/ 8E5559W or 7J9600P*
	4T4452HX	1	15.25	387	3.5	89	3.4	86	4.9	124	45.5	20.6	
	9W2452AHX	1	15.25	387	3.75	86	3.4	86	4.9	121	40.1	18.2	
	4T5451HX	2	12.9	327	2.0	51	3.4	86	4.9	121	37.7	17.1	
	4T5452HX	2	15.6	397	2.0	51	3.4	86	4.9	121	40.0	18.1	
	4T4452HX	1	15.25	387	3.5	89	3.4	86	4.9	121	45.5	20.6	
	4T4453HX	1	16.6	422	3.4	86	3.4	86	4.9	121	44.7	20.3	
	T6J8812	3	14.6	372	-	-	3.4	86	4.9	124	33.5	15.2	
	T9W2452	3	15.0	381	-	-	3.4	86	4.9	124	33.7	15.3	

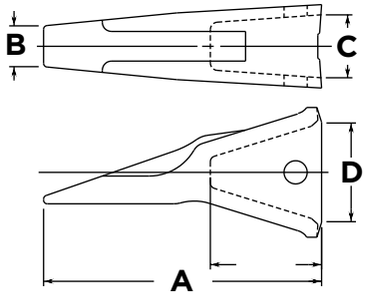
* Old Style Center Snap Ring Pin

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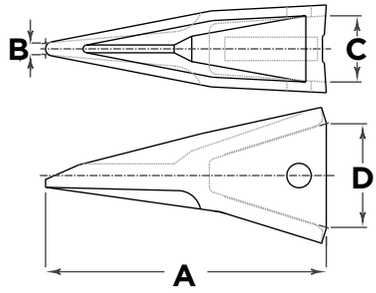
RIPPER TEETH FOR DOZERS & LOADERS
Caterpillar Style



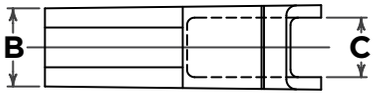
Type 1 (Centerline)

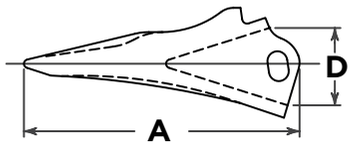


Type 2 (Non-Centerline)

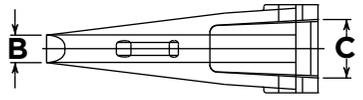


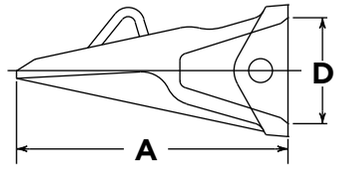
Type 3 (Tiger)





Type 4





Type 5 (Non-Centerline)

RIPPER TEETH FOR DOZERS AND LOADERS

Tooth Series	Ripper Tooth Part No.	Type	Dimensions								Weight		Fasteners
			Overall Tooth				Tooth Pocket						
			A		B		C		D				
			"	mm	"	mm	"	mm	"	mm	lb	kg	
R350	6Y0352HX	1	14.0	356	1.9	48	3.1	78	4.4	113	24.0	10.9	9W2678P/ 6Y9459W
	6Y0359HX	2	14.0	356	2.1	52	3.1	78	4.4	113	25.1	11.4	
	T6Y0352	3	15.0	381	-	-	3.1	78	4.4	113	24.3	11.0	
R300	6Y0309HX	2	11.4	289	1.75	44	2.25	57	3.25	83	11.4	5.2	9J6583P/ 6Y9459W
	T9J8910	3	11.75	298	-	-	2.25	57	3.25	83	12.0	5.4	
R350 Old Style	9J8920HX	2	14.1	359	2.1	54	2.75	70	4.4	113	25.0	11.3	9J2358P/ 6Y9459W
	T9J8920	3	13.0	330	-	-	2.75	70	4.4	113	20.3	9.2	
	7J3310HX	4	12.1	308	4.9	125	3.0	76	3.9	99	23.4	10.6	5J9000P
	7J3312HX	4	13.9	353	3.9	100	3.0	76	3.9	99	31.9	14.5	
	T7J3312	3	13.0	330	-	-	3.0	76	3.9	99	22.5	10.2	

* Old Style Center Snap Ring Pin

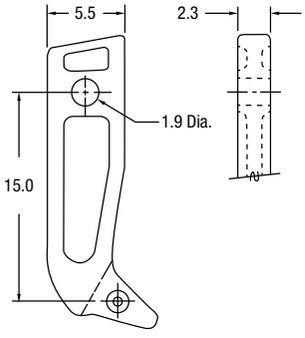
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REPLACEMENT PARTS FOR MOTOR GRADERS
Caterpillar Style

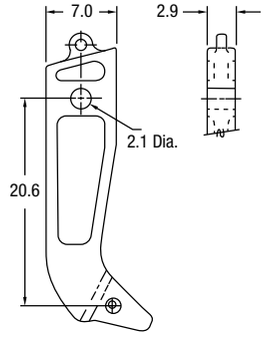
RIPPER SHANKS, WELD-ON NOSES, TEETH, PINS AND WASHERS FOR MOTOR GRADERS						
Machine Model	**Weld-On Nose or Shank**	**Teeth**			**Fasteners**	
		Centerline	**Penetrator**	**Tiger**	**Pin**	**Washer**
12G 14G 120 130 140	9J6586HX (Straight) C12WN (Nose) 9J3139HX (Straight)	-	6Y0309HX	T9J8910HX	9J6583P	6Y9459W
16G	9J3139SHX (Segment) 9W7488WN (Nose)	6Y0352HX	6Y0359HX or 9J8920HX	T6Y0352HX or T9J8920HX	9W2678P	6Y9459W

RIPPER SHANKS

9J6586HX
51.3 lb / 23.3 kg
Uses 2K6413P pin with
(2) 3B5325P (3 x 15/32 cotter keys).



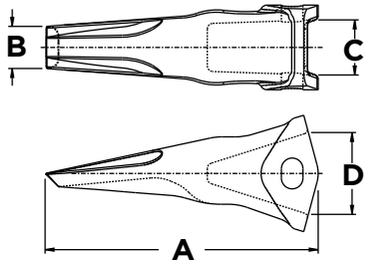
9J3139HX
116.0 lb / 52.6 kg



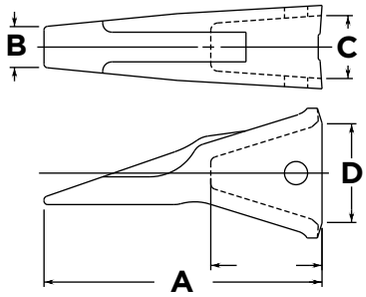
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Note: Measurements are in inches.

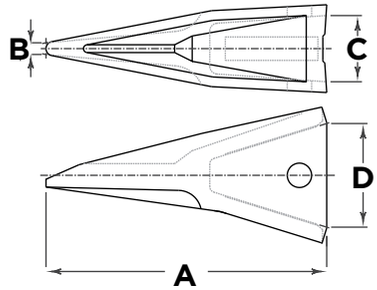
REPLACEMENT PARTS FOR MOTOR GRADERS
Caterpillar Style



Type 1 (Centerline)



Type 2 (Non-Centerline)



Type 3 (Tiger)

RIPPER TEETH FOR MOTOR GRADERS

Ripper Tooth Part No.	Type	Dimensions								Weight	
		Overall Tooth				Tooth Pocket					
		A		B		C		D			
		"	mm	"	mm	"	mm	"	mm	lb	kg
6Y0309HX	2	11.4	290	1.75	44	2.25	57	3.25	83	11.4	5.2
T9J8910	3	11.75	298	-	-	2.25	57	3.25	83	12.0	5.4
9J8920HX	2	14.1	359	2.1	54	2.75	70	4.4	113	25.0	11.3
T9J8920	3	13.0	330	-	-	2.75	70	4.4	113	20.3	9.2
6Y0352HX	1	14.0	356	1.9	48	3.1	78	4.4	113	24.0	10.9
T6Y0352	3	15.0	381	-	-	3.1	78	4.4	113	24.3	11.0
6Y0359HX	2	14.0	356	2.1	52	3.1	78	4.4	113	25.1	11.4

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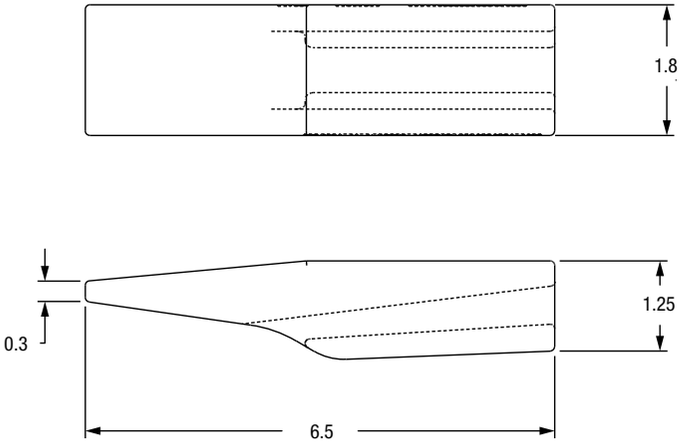
Note: Measurements are in inches.

SCARIFIER PARTS FOR MOTOR GRADERS
Caterpillar Style

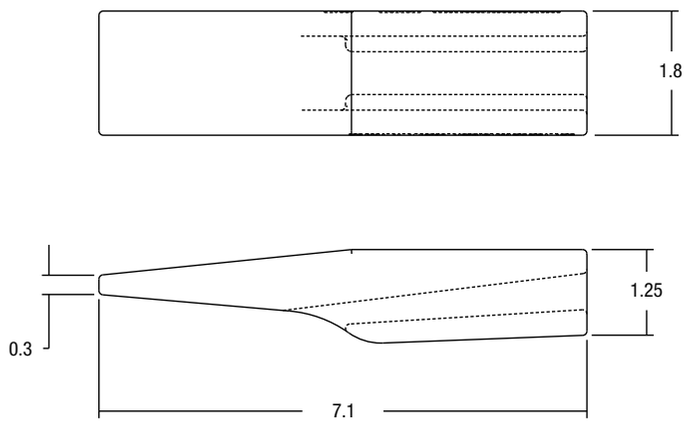
SCARIFIER TIPS AND SHANKS FOR MOTOR GRADERS				
Type	**Universal (Front and Rear Notches)**	**Straight Block (Rear Notch)**	**V-Block (Front Notch)**	**V-Block (Front and Rear Notches)**
Scarifier Shank	101HX	5B6251HX	9F5124HX	101HX
Tip, Standard	5B946HX	5B946HX	5B946HX	5B946HX
Tip, Heavy Duty	2D5572HX	2D5572HX	2D5572HX	2D5572HX

NOTE: All scarifier shanks utilize 1D3537HX wedge pins.

5B946HX
2.1 lb / 0.9 kg



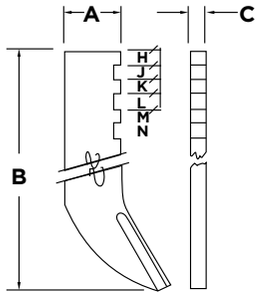
2D5572HX
3.0 lb / 1.4 kg



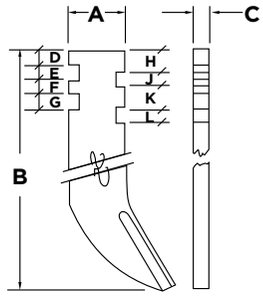
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Note: Measurements are in inches.

SCARIFIER PARTS FOR MOTOR GRADERS
Caterpillar Style



Type 2



Type 3

SHANKS FOR MOTOR GRADERS														
Shank Part No.	Type	Dimensions												
		A		B		C		D		E		F		G	
		″	mm	″	mm	″	mm	″	mm	″	mm	″	mm	″	mm
9F5124HX	2	3.0	76	17.25	438	1.0	25	-	-	-	-	-	-	-	-
101HX	3	3.0	76	17.25	438	1.0	25	0.75	19	0.7	18	0.75	19	0.7	18
104HXL	3	3.0	76	20.0	508	1.0	25	0.6	14	0.8	21	0.7	18	0.8	21

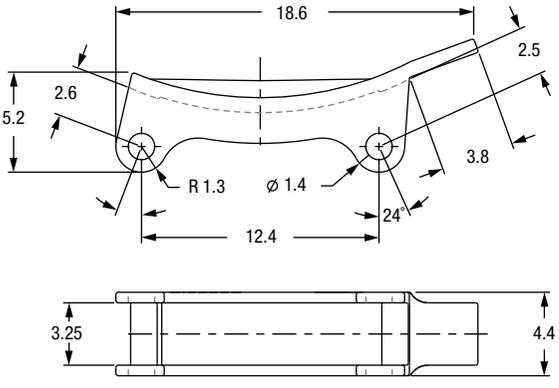
SHANKS FOR MOTOR GRADERS CONTINUED														
Shank Part No.	Dimensions												Weight	
	H		J		K		L		M		N			
	″	mm	″	mm	″	mm	″	mm	″	mm	″	mm	lb	kg
9F5124HX	0.8	21	0.8	21	0.8	21	0.8	21	0.8	21	0.8	21	13.4	6.1
101HX	1.1	29	0.8	21	1.25	32	0.8	21	-	-	-	-	13.5	6.1
104HXL	1.25	32	0.8	21	1.3	33	0.8	21	-	-	-	-	16	7.3

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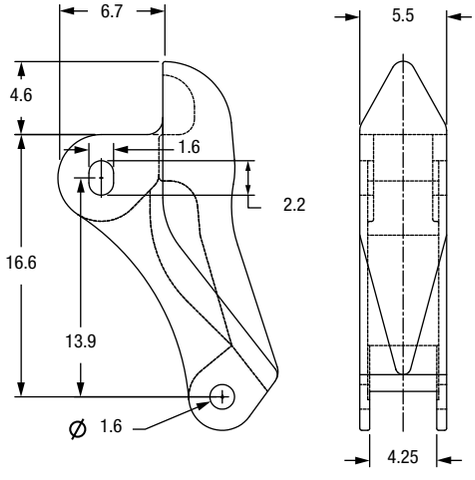
RIPPER GUARDS
Caterpillar Style

RIPPER GUARDS

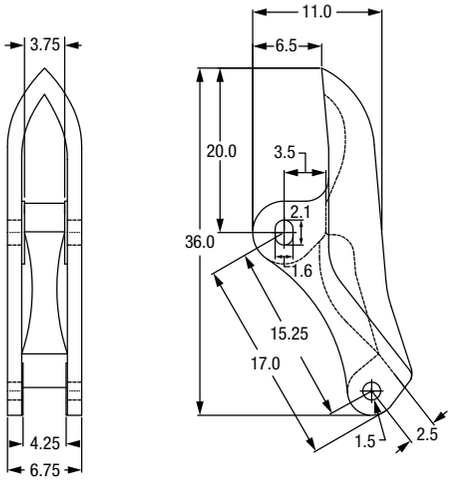
Dura
D6J8814
D8, D9
31.4 lb / 14.2 kg



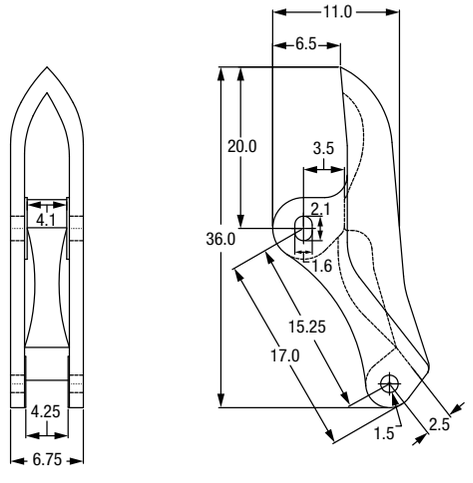
Dura
D9W8365
D10, D11
87.0 lb / 39.5 kg



1321014HX
166.0 lb / 75.3 kg



1321015HX
164.0 lb / 74.4 kg



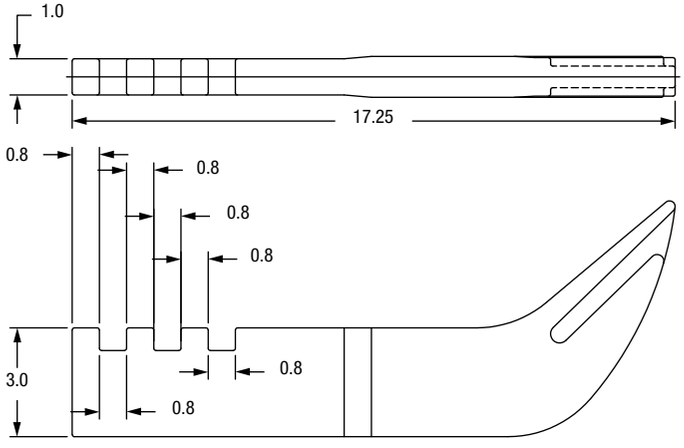
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Note: Measurements are in inches.

SCARIFIER SHANK & CLEANER BAR SHANK
Caterpillar Style

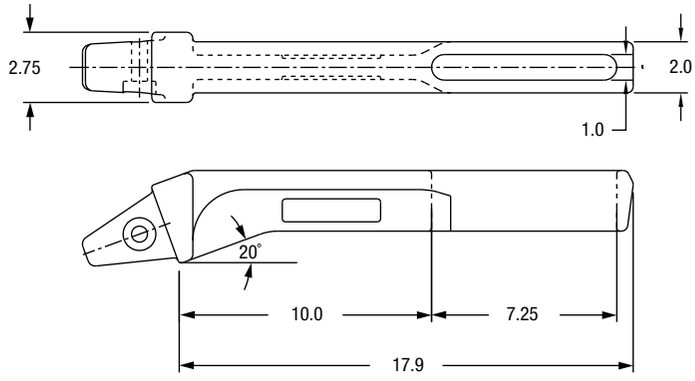
M/G SCARIFIER SHANK

Dura
D9F5124
11.5 lb / 5.2 kg



CLEANER BAR SHANK

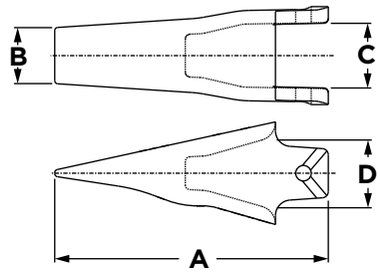
Dura
D5V4311
19.8 lb / 8.9 kg



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Note: Measurements are in inches.

TEETH & FASTENERS
Esco Style Parts



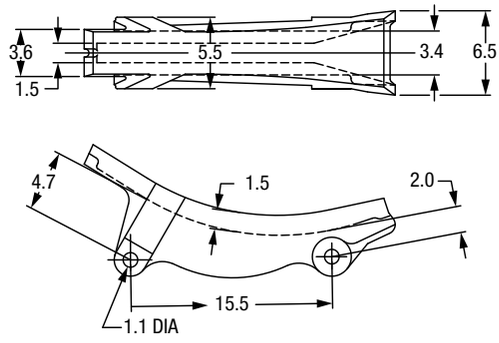
TEETH													
Hensley Part No.	Tooth Description	Fastener		Dimensions								Weight	
				Overall Tooth				Tooth Pocket					
				A		B		C		D			
		Pin	Lock	“	mm	“	mm	“	mm	“	mm	lb	kg
25R11HX	Tooth, Ripper	25RP	25RB	11.0	279	2.25	57	2.6	67	3.4	86	10.5	4.8
25R12HX	Tooth, Ripper											13.1	5.9
25RC12HX				12.5	318	2.0	51	2.7	69	3.2	81	15.4	7.0
355R14HX	Tooth, Ripper											30.5	13.8
355R15HX	Tooth, Ripper			15.5	394	3.0	76	3.3	84	4.7	119	30.0	13.6
35R14HX	Tooth, Ripper			14	356	2.5	64	3.6	91	4.5	114	26.0	11.8
35R15AHX	Tooth, Ripper	35RP	35RB	15.25	387	3.0	76	3.6	90	4.6	117	29.0	13.2
35R15HX	Tooth, Ripper			15.25	387	3	76	3.6	91	4.5	114	27.1	12.3
35RWTHX	Twin Tiger	35RP	35RB	14.0	356	6.25	159	3.6	90	4.6	117	31.8	14.4
395R17AHX	Tooth, Ripper			17	432	2.75	70	3.75	95			43.6	19.8
39R16AHX	Tooth, Ripper	39RP	39RB	16.0	406	3.0	76	3.8	97	5.3	135	38.2	17.3
T35R15*	Tiger	35RP	35RB	15.4	391	0.25	6	3.6	90	4.6	117	29.0	13.2

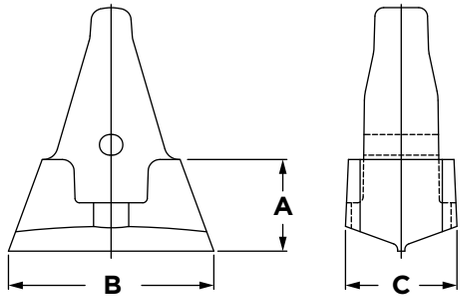
TEETH FASTENERS		
Pin	Rubber Bushing	Steel Bushing (Slag)
25RP	25RB	25RBS
35RP	35RB	35RBS
39RP	39RB	N/A

SHANK GUARD & WELD-ON NOSES
Esco Style Parts

SHANK GUARD REPLACEMENTS

39RSLHX
Used with Esco 39R Series Extreme Duty Ripper Shanks
Fastens with (2) 39RSPP Pins
77.0 lb / 34.9 kg





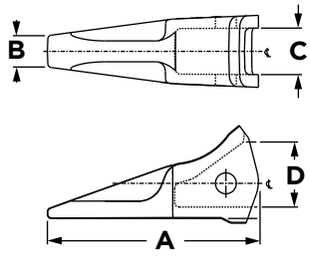
WELD-ON NOSES									
Hensley Part No.	Tooth Series	Dimensions						Weight	
		A		B		C			
		“	mm	“	mm	“	mm	lb	kg
25RNHX	25R	0.9	22	3.5	89	5.75	146	18.1	8.2

Note: Measurements are in inches.

REPLACEMENT PARTS FOR DOZERS & MOTOR GRADERS
Komatsu Style

RIPPER TEETH, SHANK GUARDS, AND SEGMENTS							
Model	**Tooth**	**Optional Tooth**	**Tooth Pin**	**Lower Segment**	**Shank Guard**	**Optional Guard**	**Guard Pin**
D40/D45-1 D40/D41-3 D50-D53-16 D50/D53-17 D57S-1 D66S-1	131-78-31190HX	-	092-44-02496P	-	-	-	-
D60/D65-7 D40-D41-3 D65-12 D75A-1 D75S-3 D75S-5 D85E-SS-21	141-78-11253HX	141-78-11253S-HX T141-78-11254	175-78-21740P	-	-	-	-
D85-18 D85-21 D135A-1 D135A-2 D150A-1 D155A-1 D155A-2 D155A/AX-3	175-78-31230HX	T175-78-31230 175-78-31230S-HX	175-78-21740P	-	195-78-21320HX	195-78-21580HX	175-78-21740P
D275A-2 D355A-3	195-78-21331HX	T195-78-21331 195-78-21331RC	175-78-21740P	17M-78-21360HX	195-78-21320HX	195-78-21580HX	175-78-21740P
D455A	198-79-11230HX	-	426-847-2310P	-	-	-	-
D375A-1	195-78-71140HX	-	175-78-21740P	-	195-78-71110HX	-	175-78-21740P
D375A-1 D375A-2	195-78-71320HX	195-78-71350HX	195-78-71360P	195-78-71380HX	195-78-72410HX	-	092-44-03036P
D475A-1 D475A-2	198-78-21340HHX	198-78-21370HX T198-78-21370 198-78-21340DPHX 198-78-21340HHX 198-78-21340SHX	198-78-21340PL	198-78-21430HX	198-78-21330HX	198-78-21390HX 198-78-21390	198-78-21340PL
D575A	T19M-78-11341	-	-	-	-	-	-
GD825A-2	235-785-1310HX	-	-	-	-	-	-
Dresser TD25	1313564H1HX	-	092-44-02488P	-	-	-	-

TEETH FOR DOZERS & MOTOR GRADERS
Komatsu Style

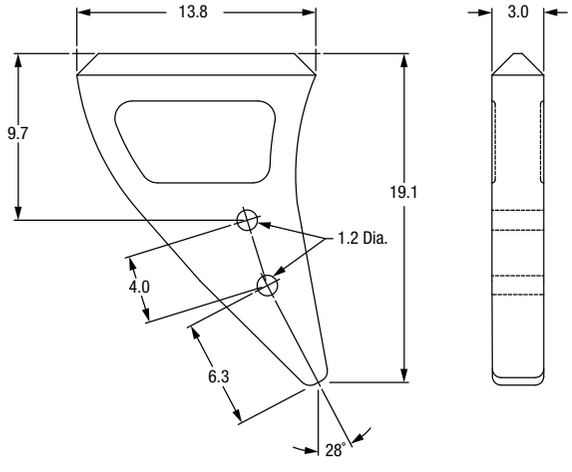


TEETH										
Hensley Part No.	Dimensions								Weight	
	Overall Tooth				Tooth Pocket					
	A		B		C		D			
	″	mm	″	mm	″	mm	″	mm	lb	kg
131-78-31190HX	10.4	263	3.2	81	2.3	59	4.9	125	20.4	9.3
141-78-11253XH	11.1	283	3.9	98	3.1	78	4.9	125	27.7	12.6
141-78-11253S-HX	14.0	356	2.1	52	3.1	78	4.9	125	30.5	12.6
T141-78-11254	13.0	330	N/A	N/A	3.1	78	4.9	125	28.0	12.7
175-78-31230HX	13.1	333	3.0	76	3.25	83	5.2	132	34.0	15.3
T175-78-31230	14.0	356	N/A	N/A	3.25	83	5.2	132	31.3	14.2
175-78-31230S-HX	15.6	397	2.0	51	3.25	83	5.2	132	33.0	15.0
195-78-21331HX	14.5	368	2.9	73	3.3	84	6.1	154	41.1	18.7
T195-78-21331	15.5	394	N/A	N/A	3.3	84	6.1	154	42.2	19.2
195-78-71320HX	16.4	416	3.0	76	6.2	154	3.25	83	49.8	22.6
195-78-71350HX	18.5	470	3.5	89	6.2	154	3.25	83	62.0	28.1
198-78-21340HX	19.8	502	3.7	94	4.1	105	7.3	185	88.0	39.9
198-78-21340HHX	18.3	465	3.0	76	4.2	107	7.5	192	73.0	33.1
198-78-21340DPHX	21.25	540	3.0	76	4.2	107	7.5	192	94.0	42.7
198-78-21340SHX	19.2	487	3.2	80	4.2	107	7.5	192	89.0	40.4
198-78-21370HX	17.5	445	3.75	95	4.1	105	7.3	185	82.0	37.2
T19M-78-11341	23.25	591	N/A	N/A	5.0	127	7.3	185	39.6	18.0
235-785-1310HX	14.9	378	2.4	60	3.4	86	4.6	116	39.6	18.0
1313564H1HX	13.25	336	3.5	89	3.0	76	5.4	136	36.0	16.3

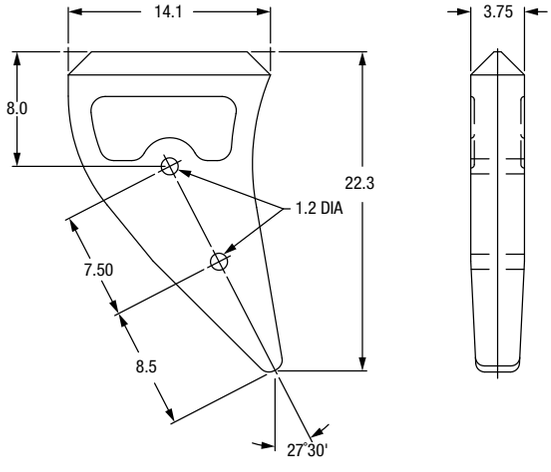
SEGMENTS FOR DOZERS
Komatsu Style

WELD-ON SEGMENTS

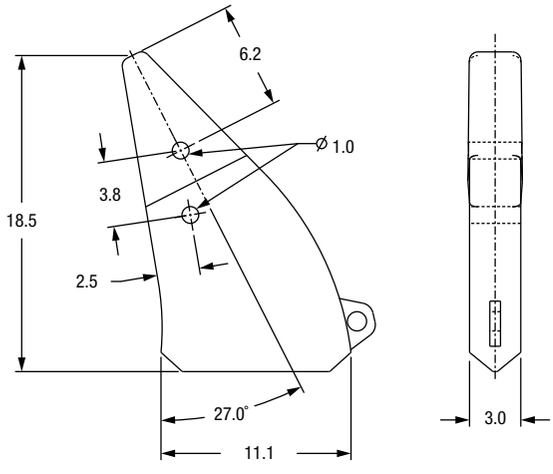
195-78-71380HX
126.0 lb / 57.1 kg



198-78-21430HX
198.0 lb / 89.8 kg



17M-78-21360HX
112.0 lb / 50.8 kg

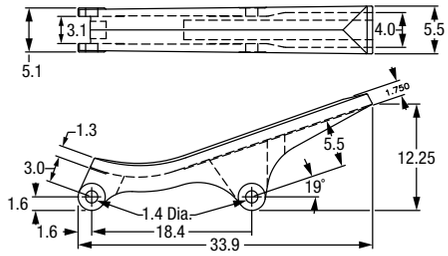


Note: Measurements are in inches.

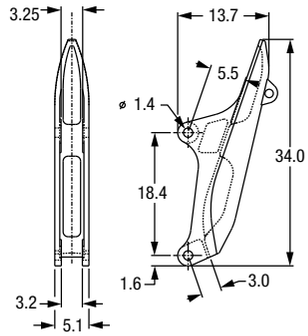
SHANK GUARDS FOR DOZERS & MOTOR GRADERS
Komatsu Style

SHANK GUARDS

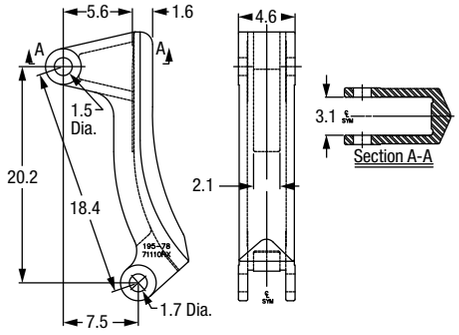
195-78-72410HX
111.0 lb / 49.9 kg



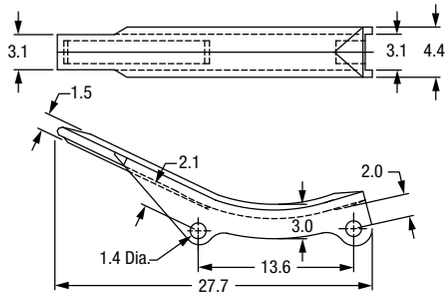
195-78-72410HHX
116.0 lb / 52.6 kg



195-78-71110HX
54.0 lb / 24.5 kg



195-78-21580HX
51.7 lb / 23.5 kg

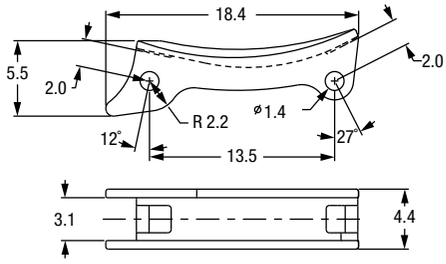


Note: Measurements are in inches.

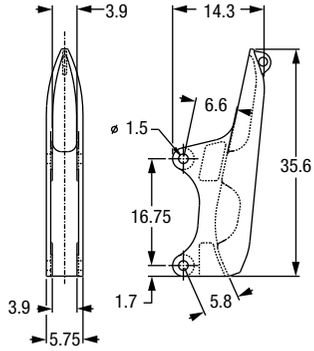
GUARDS & PINS FOR DOZERS
Komatsu Style

SHANK GUARDS CONTINUED

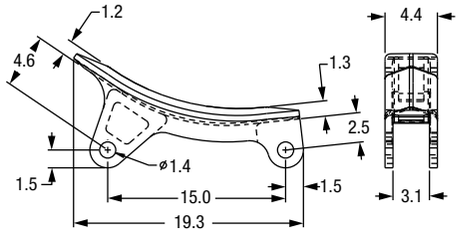
195-78-21320HX
33.6 lb / 15.3 kg



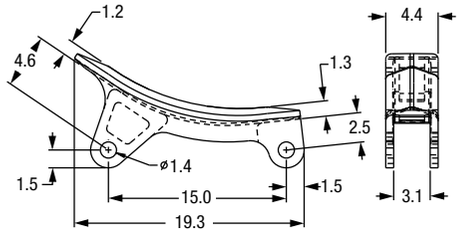
198-78-21390HHX
156.0 lb / 70.8 kg

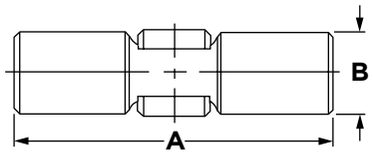


17M-782-1330HX
38.4 lb / 17.4 kg



17M-78-21330HX
38.4 lb / 17.4 kg





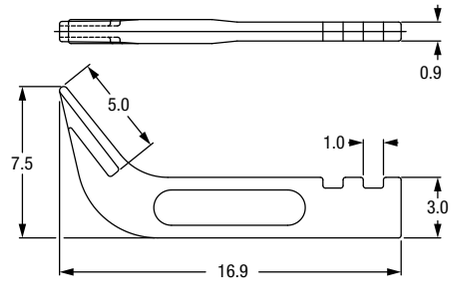
PINS				
Hensley Part No.	Dimensions			
	A		B	
	"	mm	"	mm
092-44-02488P	3.6	92	1.0	25
092-44-02496P	3.8	96	1.0	25
175-78-21740P	4.6	117	1.0	25
426-847-2310P	5.7	143	1.2	29
198-78-21340PL	6.0	152	1.2	30

Note: Measurements are in inches.

SCARIFIER SHANK
OEM Style

SCARIFIER SHANK

8110HX
13.6 lb / 6.2 kg



Note: Measurements are in inches.

BOX RIPPERS FOR EXCAVATORS
Miscellaneous

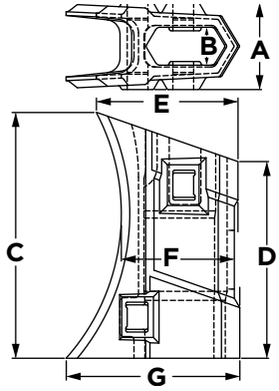
TYPICAL MACHINE USAGE							
System	**Operating Weight (lb)**	**J.I. Case**	**Caterpillar**	**Daewoo**	**Deere**	**Hitachi**	**Hyundai**
B200	20,000-39,000	9010B, 9020B	311, 312, 315	5130-3 -, DH170-2	490, 590	EX100, EX150	R130LC, R180LC
B250	40,000-59,000	9030, 9040	215, 225, 320, 322	DH220LC	690, 790	EX200	R200LC
B300	60,000-84,000	9050	325, 330	DH280, 320	892	EX270LC, 300	R290LC, 320
B350	85,000-109,000	9060B	235C	DH450	992ELC	EX400-3, EX-400LC-3	R420LC, R450LC
B400	110,000-169,000	-	350L, 245	-	-	EX550, EX700	-

TYPICAL MACHINE USAGE CONTINUED						
System	**Operating Weight (lb)**	**Kobelco**	**Komatsu**	**Liebherr**	**Linkbelt**	**Samsung**
B200	20,000-39,000	SK100, SK120, SK150	PC120, PC150	-	2650, 2700	SE130
B250	40,000-59,000	SK200, 220	PC200, 210, 220	R902, 912, 922, 932	LS2800, 3400	SE210LC
B300	60,000-84,000	SK300	PC250, 300	R942	LS4300	SE280LC, 350
B350	85,000-109,000	SK400LC	PC400LC-5	R954	LS5800C	SE450LC-2
B400	110,000-169,000	-	PC650LC-5	R964, R974	-	-

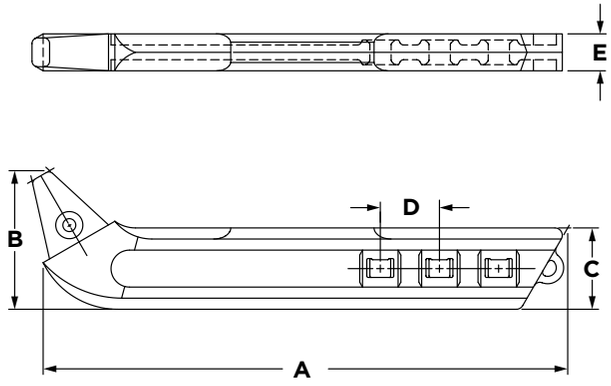
PARTS NEEDED FOR SYSTEM*						
System	**Box**	**Shank**	**Box Pin**	**Tiger Tooth**	**Tooth Fastener**	**Kit No.**
200	B200	C200-12	B250P	T9J8910	9J6583P, 6Y9459W	BK200
250	B250	C250-14	B250P	T6Y0352	9W2678P, 6Y9459W	BK250
300	B300	C300-20	B250P	T9W2452	6Y3394P, 8E5559W	BK300
350	B350	C350-20	B350P	T9W2452	6Y3394P, 8E5559W	BK350-1
350	B350	C350-22	B350P	T3G6503	6Y3909P, 4T4707W	BK350-2
400	B400	C400-22	B350P	T3G6503	6Y3909P, 4T4767W	BK400

*A complete system may be ordered by Kit Number.

BOX RIPPERS FOR EXCAVATORS
Miscellaneous

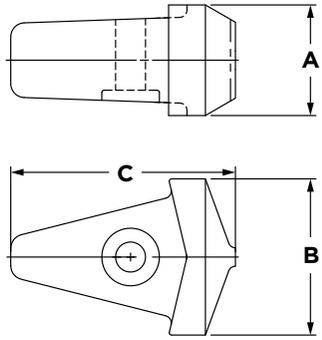


RIPPER BOXES																
Box	Dimensions														Weight	
	A		B		C		D		E		F		G			
	“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg
B200	6.0	152	2.5	63	14.9	378	11.9	302	8.6	218	6.8	173	10.5	264	55.0	25.0
B250	6.0	152	2.6	67	17.1	435	13.6	346	9.75	248	7.8	198	12.0	305	75.0	34.0
B300	6.0	152	3.1	79	19.1	486	15.3	389	11.2	284	8.75	222	13.5	343	105.0	48.0
B350	7.5	191	4.0	102	21.25	540	17.0	432	12.25	311	9.75	248	15.0	381	150.0	68.0
B400	7.9	202	5.25	133	25.5	648	20.4	519	14.75	375	11.75	298	18.0	457	245.0	111.0



RIPPER SHANKS													
Box	Shank	Dimensions										Weight	
		A		B		C		D		E			
		“	mm	“	mm	“	mm	“	mm	“	mm	lb	kg
B200	C200-12	31.2	792	8.0	203	4.8	122	3.5	89	2.0	51	65.0	29.0
B250	C250-14	36.75	933	10.1	257	5.5	140	4.0	102	2.5	64	95.0	43.0
B300	C300-20	41.0	1041	11.25	286	6.2	157	4.5	114	3.0	76	113.0	51.0
B350	C350-20	45.0	1143	11.1	283	6.9	175	5.0	127	3.1	79	185.0	84.0
	C350-22	46.0	1168	12.75	324	6.9	175	5.0	127	3.1	79	200.0	91.0
B400	C400-22	54.0	1372	13.75	349	8.25	210	6.0	152	3.8	95	300.0	136.0

BOX RIPPERS FOR EXCAVATORS
Miscellaneous



REPLACEMENT NOSES									
Weld-On Nose	For Shank No.	Dimensions						Weight	
		A		B		C			
		“	mm	“	mm	“	mm	lb	kg
C12WN	C200-12	3.0	76	4.25	108	5.7	145	9.6	4.4
9W7488WN	C250-14	3.0	76	5.4	137	7.7	194	18.5	8.4
C20WN	C300-20, C350-20	2.9	75	6.0	152	8.8	224	24.5	11.0
C22WN	C350-22, C400-22	3.9	99	7.6	194	10.25	260	46.9	21.0

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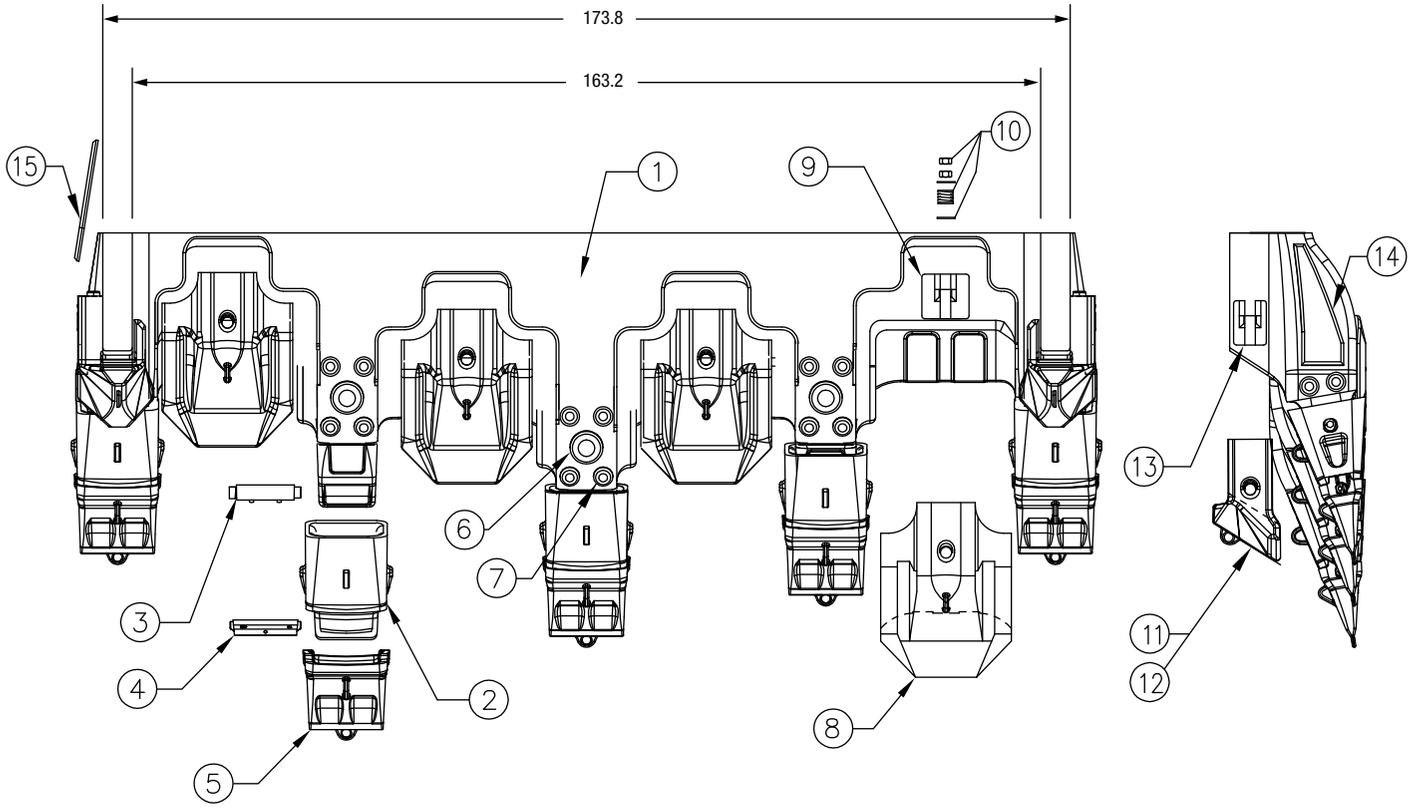
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6.1

CAST LIPS FOR HYDRAULIC EXCAVATORS

163" Lip for 500 Ton Machines

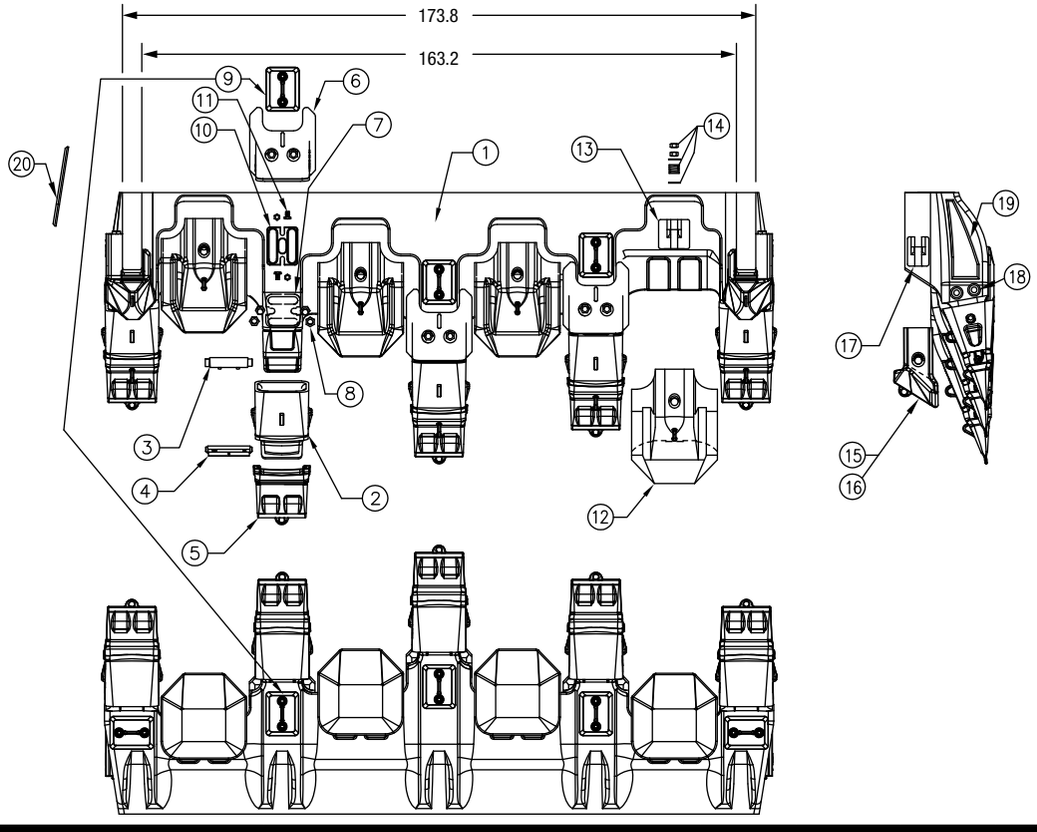
163" LIP FOR 500 TON MACHINES
LS163XS644-5-3A



163" LIP FOR 500 TON MACHINES - LS163XS644-5-3A							
Item	Part No.	Description	Qty	Weight Per Part		Combined Weight	
				lb*	kg*	lb*	kg*
1	LS163XS640-5-2	CAST LIP, 5 POSITION, 163"	1	16340.0	7418.4	16340.0	7418.4
2	644TS1122	INTERMEDIATE ADAPTER	5	400.0	181.4	2000.0	907.0
3	XS644P	ROTARY CAM PIN	5	18.0	8.2	90.0	40.9
4	TS1122PEL	ROTARY PIN W/ EXT. LOCK	5	19.0	8.6	95.0	43.1
5	TS1122H	TOOTH TIP	5	142.0	64.5	710.0	322.3
6	WB150	WEAR BUTTON	3	12.0	5.4	36.0	16.3
7	WB90	WEAR BUTTON	16	2.4	1.1	38.4	17.4
8	LS130-2350J	LIP SHROUD, J-BOLT	4	895.0	406.3	3580.0	1625.3
9	LSWB-9	WELD BASE	4	27.5	12.5	110.0	49.9
10	SFA150J6	J-BOLT ASSEMBLY	6	12.0	5.4	72.0	32.7
11	WS135L	LOWER WING SHROUD, L.H.	1	304.0	138.0	304.0	138.0
12	WS135R	LOWER WING SHROUD, R.H.	1	304.0	138.0	304.0	138.0
13	LSWB10	WELD BASE (lower wing shrouds only)	2	15.0	6.8	30.0	13.6
14	SDP1337AL	SIDE PROTECTION, LEFT	1	28.0	12.7	28.0	12.7
15	SDP1337BR	SIDE PROTECTION, RIGHT	1	28.0	12.7	28.0	12.7
*weights rounded to nearest LB/KG		TOTAL WEIGHT OF WEAR PACKAGE 3				23765	10788

Note: Measurements are in inches.

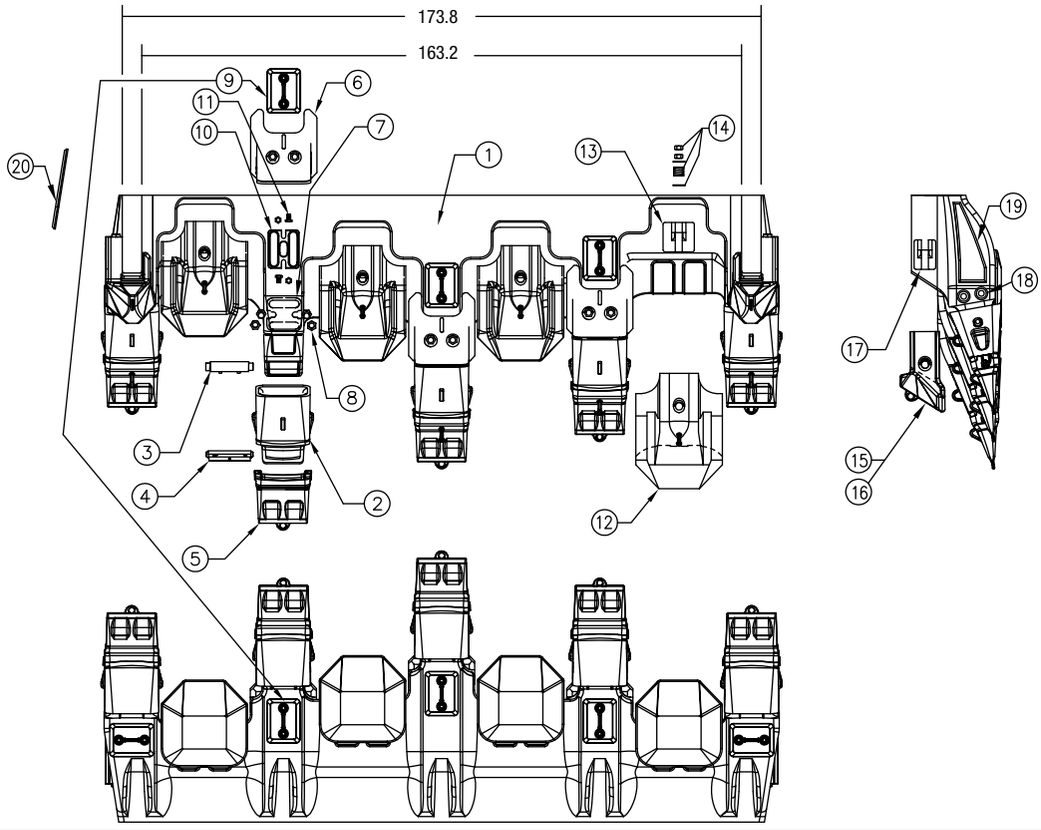
163" LIP FOR 500 TON MACHINES
LS163XS644-5-4A



163" LIP FOR 500 TON MACHINES - LS163XS644-5-4A							
Item	Part No.	Description	Qty	Weight Per Part		Combined Weight	
				lb*	kg*	lb*	kg*
1	LS163XS640-5-2	CAST LIP, 5 POSITION, 163"	1	16340.0	7418.4	16340.0	7418.4
2	644TS1122	INTERMEDIATE ADAPTER	5	400.0	181.6	2000.0	908.0
3	XS644P	ROTARY CAM PIN	5	18.0	8.2	90.0	40.9
4	TS1122PEL	ROTARY PIN W/ EXT. LOCK	5	19.0	8.6	95.0	43.1
5	TS1122H	TOOTH TIP	5	142.0	64.5	710.0	322.3
6	WCLS640	WEAR CAP	3	285.0	129.4	855.0	388.2
7	B9X9CL800	WEAR RUNNER BASE	3	32.5	14.8	97.5	44.3
8	112X234BCLN	1-1/2 X 2-3/4 BOLT / CRIMP LOCK NUT	6	3.0	1.4	18.0	8.2
9	B12X9WR	WEAR RUNNER	8	49.0	22.2	392.0	178.0
10	12X9B	WEAR RUNNER BASE	8	22.0	10.0	176.0	79.9
11	115BN	1 X 1-1/2 BOLT / NUT	16	1.0	0.5	16.0	7.3
12	LS130-2350J	LIP SHROUD, J-BOLT	4	895.0	406.3	3580.0	1625.3
13	LSWB-9	WELD BASE	4	27.5	12.5	110.0	49.9
14	SFA150J6	J-BOLT ASSEMBLY	6	12.0	5.4	72.0	32.7
15	WS135L	LOWER WING SHROUD, L.H.	1	304.0	138.0	304.0	138.0
16	WS135R	LOWER WING SHROUD, R.H.	1	304.0	138.0	304.0	138.0
17	LSWB10	WELD BASE (lower wing shrouds only)	2	15.0	6.8	30.0	13.6
18	WB90	WEAR BUTTON	4	2.4	1.1	9.6	4.4
19	SDP1337AL	SIDE PROTECTION, LEFT	1	28.0	12.7	28.0	12.7
20	SDP1337BR	SIDE PROTECTION, RIGHT	1	28.0	12.7	28.0	12.7
*weights rounded to nearest LB/KG		Total Weight of Wear Packge 4				25202	11466

Note: Measurements are in inches.

163" LIP FOR 500 TON MACHINES
LS163XS644-5-4A2 Heavy Duty



163" LIP FOR 500 TON MACHINES - LS163XS644-5-4A2 HEAVY DUTY							
Item	Part No.	Description	Qty	Weight Per Part		Combined Weight	
				lb*	kg*	lb*	kg*
1	LS163XS640-5-2	CAST LIP, 5 POSITION, 163"	1	16340.0	7418.4	16340.0	7418.4
2	644TS1222	INTERMEDIATE ADAPTER	5	521.0	236.5	2605.0	1182.7
3	XS644P	ROTARY CAM PIN	5	18.0	8.2	90.0	40.9
4	TS1222PEL	ROTARY PIN W/ EXT. LOCK	5	27.0	12.3	135.0	61.3
5	TS1222MA	TOOTH TIP	5	217.0	98.5	1085.0	492.6
6	WCLS640	WEAR CAP	3	285.0	129.4	855.0	388.2
7	B9X9CL800	WEAR RUNNER BASE	3	32.5	14.8	97.5	44.3
8	112X234BCLN	1-1/2 X 2-3/4 BOLT / CRIMP LOCK NUT	6	3.0	1.4	18.0	8.2
9	B12X9WR	WEAR RUNNER	8	49.0	22.2	392.0	178.0
10	12X9B	WEAR RUNNER BASE	8	22.0	10.0	176.0	79.9
11	115BN	1 X 1-1/2 BOLT / NUT	16	1.0	0.5	16.0	7.3
12	LS130-2350J	LIP SHROUD, J-BOLT	4	895.0	406.3	3580.0	1625.3
13	LSWB-9	WELD BASE	4	27.5	12.5	110.0	49.9
14	SFA150J6	J-BOLT ASSEMBLY	6	12.0	5.4	72.0	32.7
15	WS135L	LOWER WING SHROUD, L.H.	1	304.0	138.0	304.0	138.0
16	WS135R	LOWER WING SHROUD, R.H.	1	304.0	138.0	304.0	138.0
17	LSWB10	WELD BASE (lower wing shrouds only)	2	15.0	6.8	30.0	13.6
18	WB90	WEAR BUTTON	4	2.4	1.1	9.6	4.4
19	SDP1337AL	SIDE PROTECTION, LEFT	1	28.0	12.7	28.0	12.7
20	SDP1337BR	SIDE PROTECTION, RIGHT	1	28.0	12.7	28.0	12.7
*weights rounded to nearest LB/KG		TOTAL WEIGHT OF WEAR PACKAGE 4				26275	11929

Note: Measurements are in inches.

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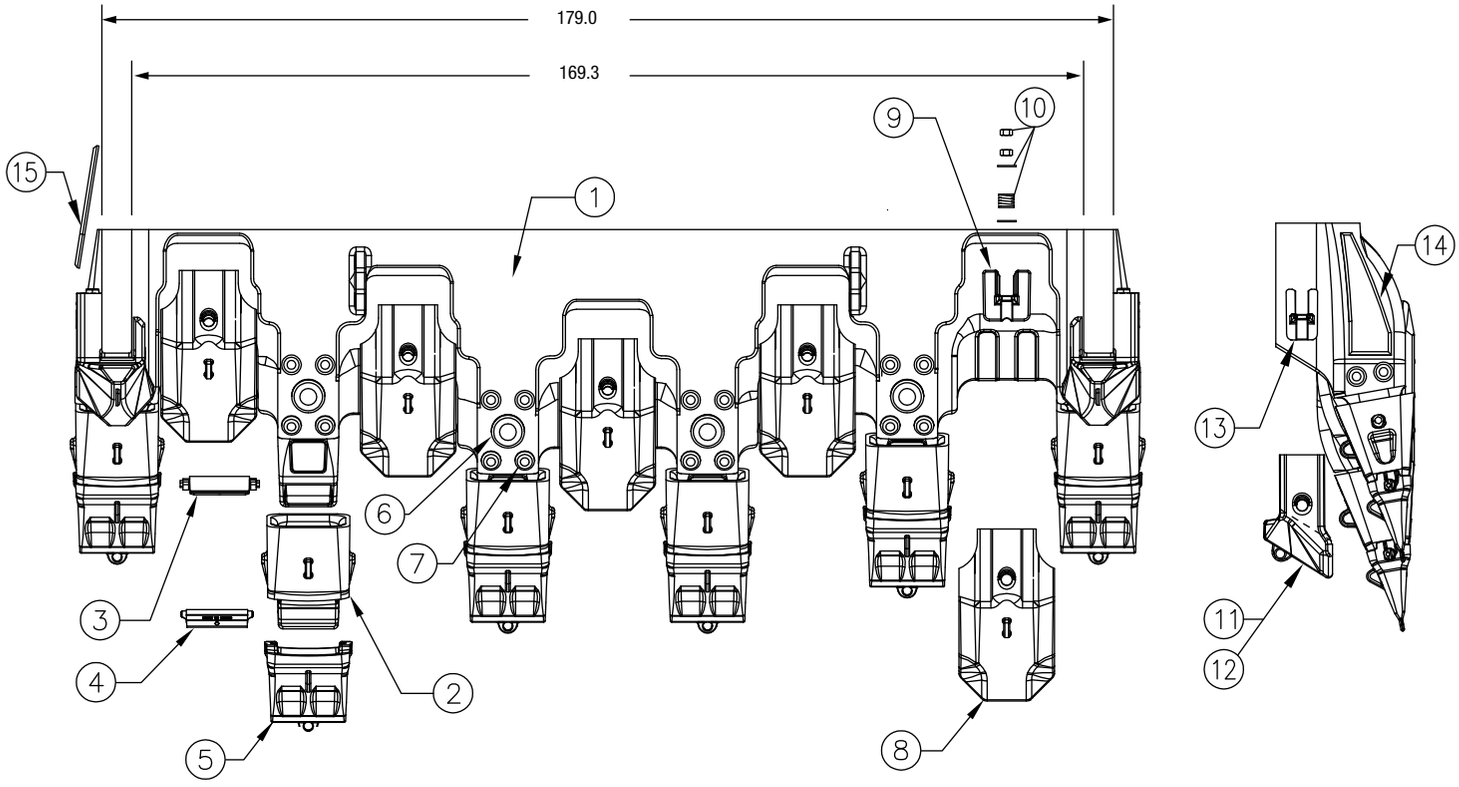
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6.2

CAST LIPS FOR HYDRAULIC EXCAVATORS

169" Lip for 500 Ton Machines

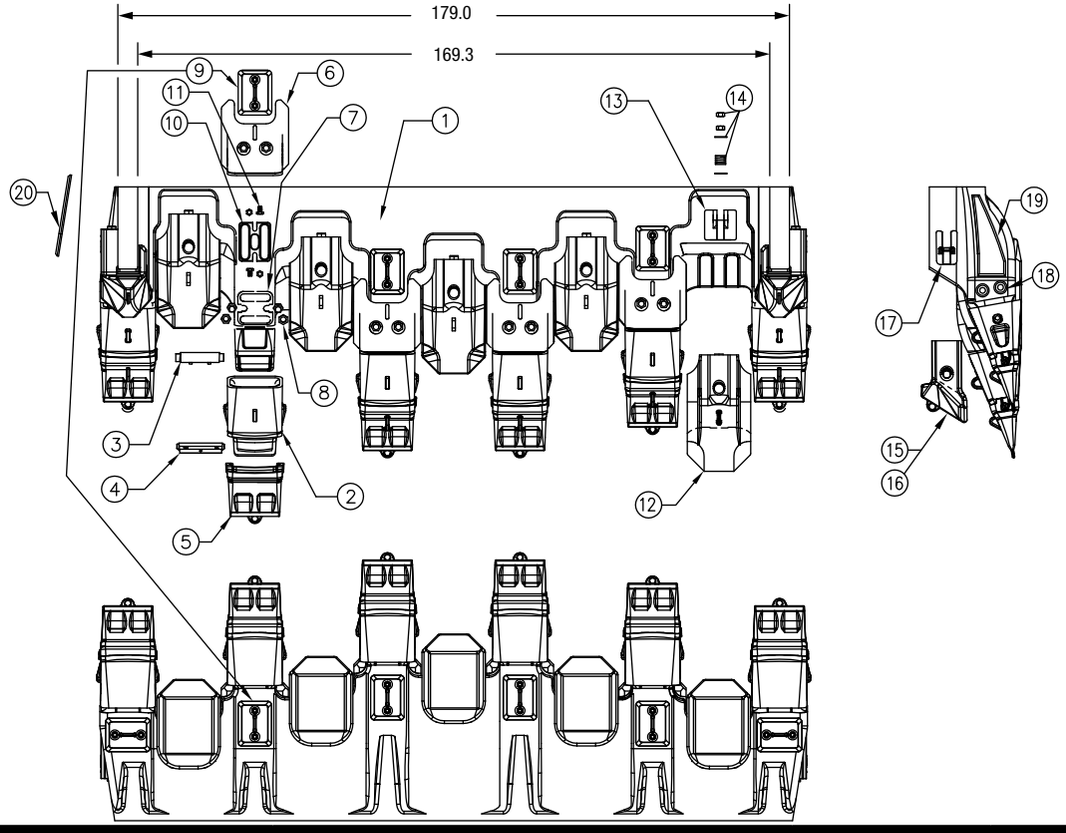
169" LIP FOR 500 TON MACHINES
LS169XS644-6-3A



169" LIP FOR 500 TON MACHINES - LS169XS644-6-3A							
Item	**Part No.**	**Description**	**Qty**	**Weight Per Part**		**Combined Weight**	
				lb*	**kg***	**lb***	**kg***
1	LS169XS640-6-1	CAST LIP, 6 POSITION, 169"	1	17000.0	7718.0	17000.0	7718.0
2	644TS1122	INTERMEDIATE ADAPTER	6	400.0	181.6	2400.0	1089.6
3	XS644P	ROTARY CAM PIN	6	18.0	8.2	108.0	49.0
4	TS1122PEL	ROTARY PIN W/ EXT. LOCK	6	19.0	8.6	114.0	51.8
5	TS1122H	TOOTH TIP	6	142.0	64.5	852.0	386.8
6	WB150	WEAR BUTTON	4	12.0	5.4	48.0	21.8
7	WB90	WEAR BUTTON	20	2.4	1.1	48.0	21.8
8	LS130-1700JSTD	LIP SHROUD, J-BOLT	5	725.0	329.2	3625.0	1645.8
9	LSWB-9	WELD BASE	5	27.5	12.5	137.5	62.4
10	SFA150J6	J-BOLT ASSEMBLY	7	12.0	5.4	84.0	38.1
11	WS135L	LOWER WING SHROUD, L.H.	1	304.0	138.0	304.0	138.0
12	WS135R	LOWER WING SHROUD, R.H	1	304.0	138.0	304.0	138.0
13	LSWB10	WELD BASE (lower wing shrouds only)	2	15.0	6.8	30.0	13.6
14	SDP1337AL	SIDE PROTECTION, LEFT	1	28.0	12.7	28.0	12.7
15	SDP1337BR	SIDE PROTECTION, RIGHT	1	28.0	12.7	28.0	12.7
*weights rounded to nearest LB/KG		Total Weight of Wear Package 3				25111	11400

Note: Measurements are in inches.

169" LIP FOR 500 TON MACHINES
LS169XS644-6-4A



169" LIP FOR 500 TON MACHINES - LS169XS644-6-4A

Item	Part No.	Description	Qty	Weight Per Part		Combined Weight	
				lb*	kg*	lb*	kg*
1	LS169XS640-6-1	CAST LIP, 6 POSITION, 169"	1	17000.0	7718.0	17000.0	7718.0
2	644TS1122	INTERMEDIATE ADAPTER	6	400.0	181.6	2400.0	1089.6
3	XS644P	ROTARY CAM PIN	6	18.0	8.2	108.0	49.0
4	TS1122PEL	ROTARY PIN W/ EXT. LOCK	6	19.0	8.6	114.0	51.8
5	TS1122H	TOOTH TIP	6	142.0	64.5	852.0	386.8
6	WCLS640	WEAR CAP	4	285.0	129.4	1140.0	517.6
7	B9X9CL800	WEAR RUNNER BASE	4	32.5	14.8	130.0	59.0
8	112X234BCLN	1-1/2 X 2-3/4 BOLT / CRIMP LOCK NUT	8	3.0	1.4	24.0	10.9
9	B12X9WR	WEAR RUNNER	10	49.0	22.2	490.0	222.5
10	12X9B	WEAR RUNNER BASE	10	22.0	10.0	220.0	99.9
11	115BN	1 X 1-1/2 BOLT / NUT	20	1.0	0.5	20.0	9.1
12	LS130-1700JSTD	LIP SHROUD, J-BOLT	5	725.0	329.2	3625.0	1645.8
13	LSWB-9	WELD BASE	5	27.5	12.5	137.5	62.4
14	SFA150J6	J-BOLT ASSEMBLY	7	12.0	5.4	84.0	38.1
15	WS135L	LOWER WING SHROUD, L.H.	1	304.0	138.0	304.0	138.0
16	WS135R	LOWER WING SHROUD, R.H.	1	304.0	138.0	304.0	138.0
17	LSWB10	WELD BASE (lower wing shrouds only)	2	15.0	6.8	30.0	13.6
18	WB90	WEAR BUTTON	4	2.4	1.1	9.6	4.4
19	SDP1337AL	SIDE PROTECTION, LEFT	1	28.0	12.7	28.0	12.7
20	SDP1337BR	SIDE PROTECTION, RIGHT	1	28.0	12.7	28.0	12.7
*weights rounded to nearest LB/KG		TOTAL WEIGHT OF WEAR PACKAGE 4				27048	12280

Note: Measurements are in inches.

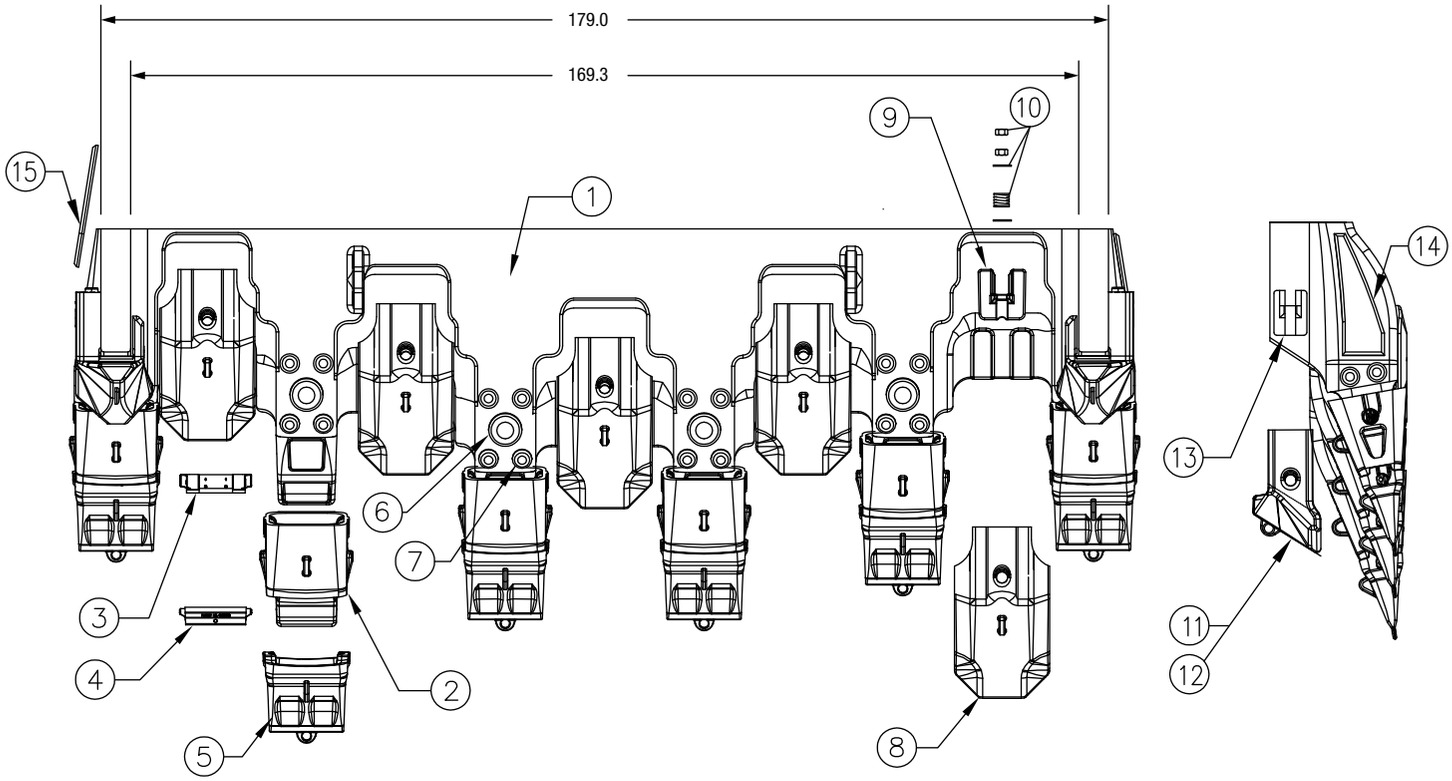
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6.3

CAST LIPS FOR HYDRAULIC EXCAVATORS

185" Lip for 700 Ton Machines

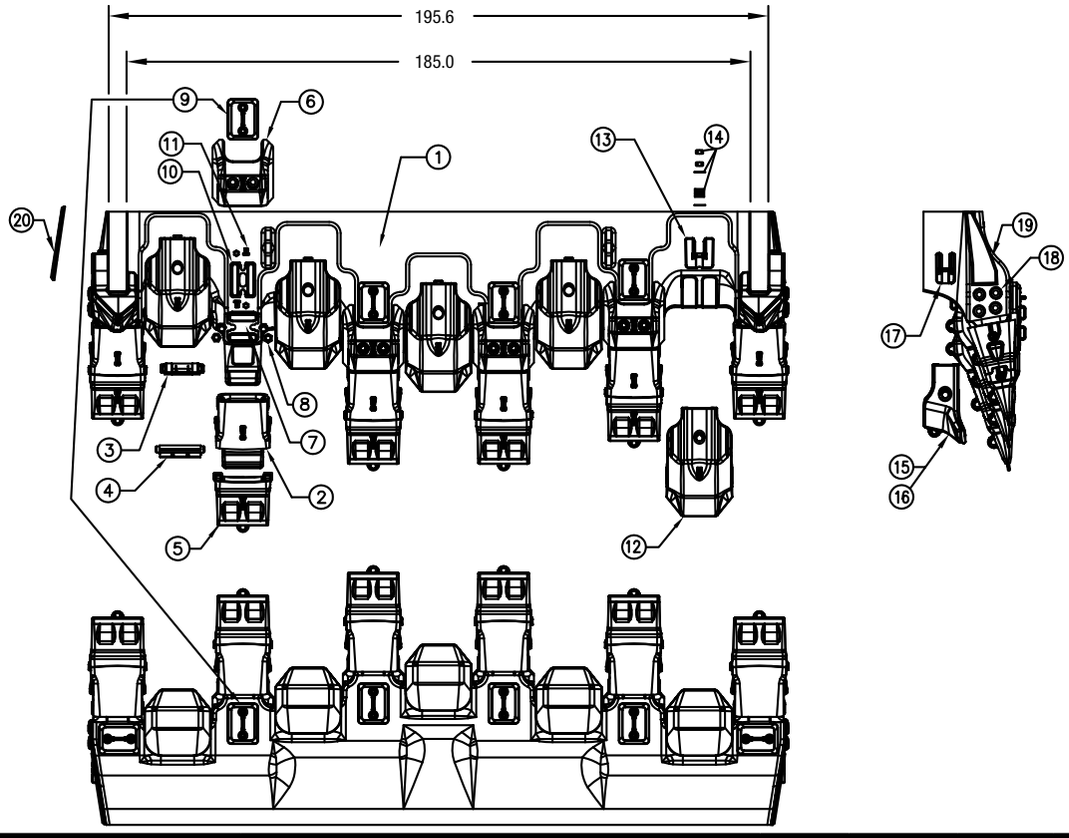
185" LIP FOR 700 TON MACHINES
LS185XS644-6-3A



185" LIPS FOR 700 TON MACHINES - LS185XS644-6-3A							
Item	**Part No.**	**Description**	**Qty**	**Weight Per Part**		**Combined Weight**	
				lb*	**kg***	**lb***	**kg***
1	LS185XS640-6-1	CAST LIP, 6 POSITION, 185"	1	19110.0	8675.9	19110.0	8675.9
2	644TS1222	INTERMEDIATE ADAPTER	6	521.0	236.5	3126.0	1419.2
3	XS644P	ROTARY CAM PIN	6	18.0	8.2	108.0	49.0
4	TS1222PEL	ROTARY PIN W/ EXT. LOCK	6	27.0	12.3	162.0	73.5
5	TS1222,A	TOOTH TIP	6	217.0	98.5	1302.0	591.1
6	WB150	WEAR BUTTON	4	12.0	5.4	48.0	21.8
7	WB90	WEAR BUTTON	24	2.4	1.1	57.6	26.2
8	LS640-1950J	LIP SHROUD, J-BOLT	5	838.0	380.5	4190.0	1902.3
9	LSWB-9	WELD BASE	5	27.5	12.5	137.5	62.4
10	SFA150J6	J-BOLT ASSEMBLY	7	12.0	5.4	84.0	38.1
11	WS185L	LOWER WING SHROUD, L.H.	1	322.0	146.2	322.0	146.2
12	WS185R	LOWER WING SHROUD, R.H	1	322.0	146.2	322.0	146.2
13	LSWB10	WELD BASE (lower wing shrouds only)	2	15.0	6.8	30.0	13.6
14	SDP1337AL	SIDE PROTECTION, LEFT	1	28.0	12.7	28.0	12.7
15	SDP1337BR	SIDE PROTECTION, RIGHT	1	28.0	12.7	28.0	12.7
*weights rounded to nearest LB/KG		Total Weight of Wear Package 3				29055	13191

Note: Measurements are in inches.

185" LIP FOR 700 TON MACHINES
LS185XS644-6-4A



185" LIPS FOR 700 TON MACHINES - LS169XS644-6-4A							
Item	**Part No.**	**Description**	**Qty**	**Weight Per Part**		**Combined Weight**	
				lb*	**kg***	**lb***	**kg***
1	LS185XS640-6-1	CAST LIP, 6 POSITION, 185"	1	19110.0	8675.9	19110.0	8675.9
2	644TS1222	INTERMEDIATE ADAPTER	6	521.0	236.5	3126.0	1419.2
3	XS644P	ROTARY CAM PIN	6	18.0	8.2	108.0	49.0
4	TS1222PEL	ROTARY PIN W/ EXT. LOCK	6	27.0	12.3	162.0	73.5
5	TS1222MA	TOOTH TIP	6	217.0	98.5	1302.0	591.1
6	WCLS640	WEAR CAP	4	285.0	129.4	1140.0	517.6
7	B9X9CL800	WEAR RUNNER BASE	4	32.5	14.8	130.0	59.0
8	112X234BCLN	1-1/2 X 2-3/4 BOLT / CRIMP LOCK NUT	8	3.0	1.4	24.0	10.9
9	B12X9WR	WEAR RUNNER	10	49.0	22.2	490.0	222.5
10	12X9B	WEAR RUNNER BASE	10	22.0	10.0	220.0	99.9
11	115BN	1 X 1-1/2 BOLT / NUT	20	1.0	0.5	20.0	9.1
12	LS640-1950J	LIP SHROUD, J-BOLT	5	838.0	380.5	4190.0	1902.3
13	LSWB-9	WELD BASE	5	27.5	12.5	137.5	62.4
14	SFA150J6	J-BOLT ASSEMBLY	7	12.0	5.4	84.0	38.1
15	WS185L	LOWER WING SHROUD, L.H.	1	322.0	146.2	322.0	146.2
16	WS185R	LOWER WING SHROUD, R.H.	1	322.0	146.2	322.0	146.2
17	LSWB10	WELD BASE (lower wing shrouds only)	2	15.0	6.8	30.0	13.6
18	WB90	WEAR BUTTON	8	2.4	1.1	19.2	8.7
19	SDP1337AL	SIDE PROTECTION, LEFT	1	28.0	12.7	28.0	12.7
20	SDP1337BR	SIDE PROTECTION, RIGHT	1	28.0	12.7	28.0	12.7
*weights rounded to nearest LB/KG		TOTAL WEIGHT OF WEAR PACKAGE 4				30993	14071

Note: Measurements are in inches.

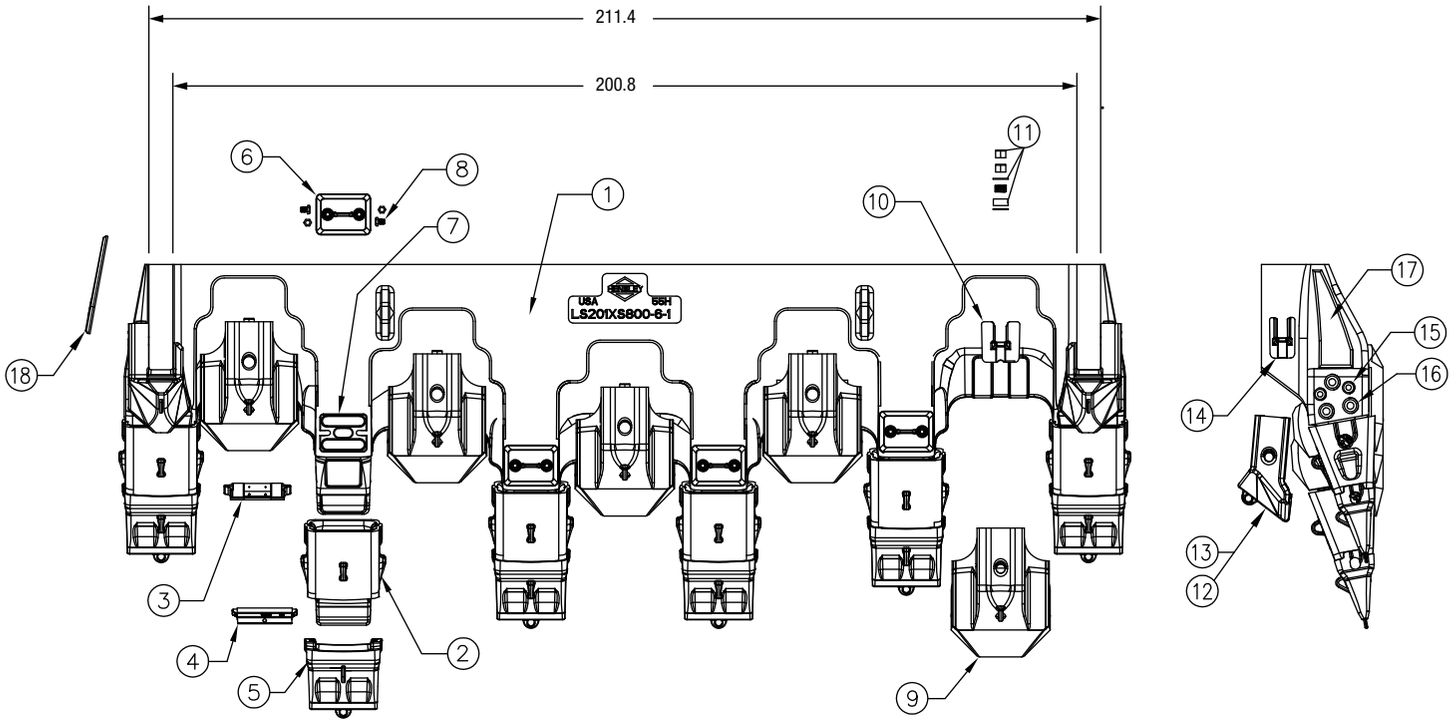
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6.4

CAST LIPS FOR HYDRAULIC EXCAVATORS

201″ Lip for 800 Ton Machines

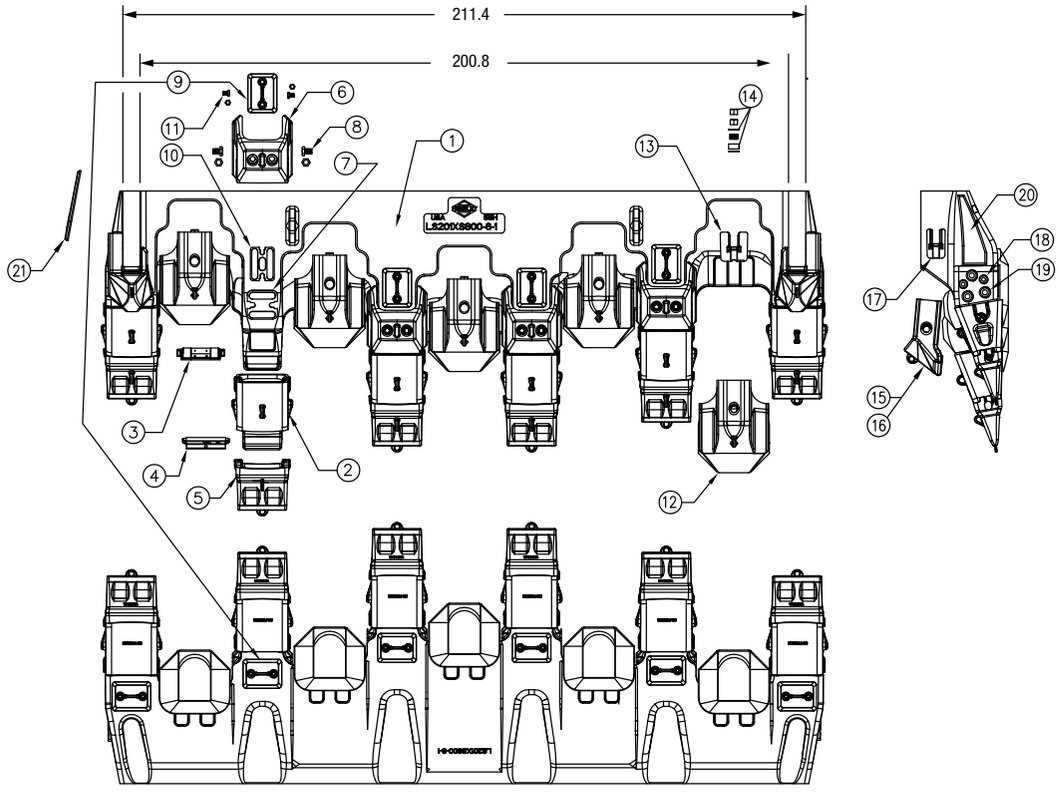
201" LIP FOR 800 TON MACHINES
LS201XS804-6-3A



201" LIPS FOR 800 TON MACHINES - LS201XS804-6-3A (WEAR PACKAGE 3)							
Item	Part No.	Description	Qty	Weight Per Part		Combined Weight	
				lb*	kg*	lb*	kg*
1	LS201XS800-6-1	CAST LIP, 6 POSITION, 201"	1	24000.0	10896.0	24000.0	10896.0
2	804TS1222	INTERMEDIATE ADAPTER	6	555.0	252.0	3330.0	1511.8
3	XS804P	ROTARY CAM PIN	6	31.0	14.1	186.0	84.4
4	TS1222PEL	ROTARY PIN W/ EXT. LOCK	6	27.0	12.3	162.0	73.5
5	TS1222MA	TOOTH TIP	6	217.0	98.5	1302.0	591.1
6	B12X9WR	WEAR RUNNER	4	49.0	22.2	196.0	89.0
7	12X9B	WEAR RUNNER BASE	4	22.0	10.0	88.0	40.0
8	115BN	1 X 1-1/2 BOLT / NUT	8	1.0	0.5	8.0	3.6
9	LS800-2200J	LIP SHROUD, J-BOLT	5	1000.0	454.0	5000.0	2270.0
10	LSWB-9	WELD BASE	5	27.5	12.5	137.5	62.4
11	SFA150J6	J-BOLT ASSEMBLY	7	12.0	5.4	84.0	38.1
12	WS135L	LOWER WING SHROUD, L.H.	1	304.0	138.0	304.0	138.0
13	WS135R	LOWER WING SHROUD, R.H.	1	304.0	138.0	304.0	138.0
14	LSWB10	WELD BASE (lower wing shrouds only)	2	15.0	6.8	30.0	13.6
15	WB75	WEAR BUTTON	4	2.0	0.9	8.0	3.6
16	WB90	WEAR BUTTON	6	2.4	1.1	14.4	6.5
17	SDP1337AL	SIDE PROTECTION, LEFT	1	28.0	12.7	28.0	12.7
18	SDP1337BR	SIDE PROTECTION, RIGHT	1	28.0	12.7	28.0	12.7
*weights rounded to nearest lb/kg		Total Weight of Wear Package 3				35210	15985

Note: Measurements are in inches.

201" LIP FOR 800 TON MACHINES
LS201XS804-6-4A



BILL OF MATERIAL - LS201XS8006-4A							
Item	Part No.	Description	Qty	Weight Per Part		Combined Weight	
				lb*	kg*	lb*	kg*
1	LS201XS800-6-1	CAST LIP, 6 POSITION, 201"	1	24000.0	10896.0	24000.0	10896.0
2	804TS1222	INTERMEDIATE ADAPTER	6	555.0	252.0	3330.0	1511.8
3	XS804P	ROTARY CAM PIN	6	31.0	14.1	186.0	84.4
4	TS1222PEL	ROTARY PIN W/ EXT. LOCK	6	27.0	12.3	162.0	73.5
5	TS1222MA	TOOTH TIP	6	217.0	98.5	1302.0	591.1
6	WCLS800	WEAR CAP	4	281.0	127.6	1124.0	510.3
7	B9X9CL800	WEAR RUNNER BASE	4	33.0	15.0	132.0	59.9
8	112X234BCLN	1 1/2 X 2 3/4 BOLT / CRIMP LOCK NUT	8	3.0	1.4	24.0	10.9
9	B12X9WR	WEAR RUNNER	10	49.0	22.2	490.0	222.5
10	12X9B	WEAR RUNNER BASE	10	22.0	10.0	220.0	99.9
11	115BN	1 X 1 1/2 BOLT / NUT	20	1.0	0.5	20.0	9.1
12	LS800-2200J	LIP SHROUD, J-BOLT	5	1000.0	454.0	5000.0	2270.0
13	LSWB-9	WELD BASE	5	28.0	12.7	140.0	63.6
14	SFA150J6	J-BOLT ASSEMBLY	7	12.0	5.4	84.0	38.1
15	WS135L	LOWER WING SHROUD, L.H.	1	304.0	138.0	304.0	138.0
16	WS135R	LOWER WING SHROUD, R.H.	1	304.0	138.0	304.0	138.0
17	LSWB10	WELD BASE (lower wing shrouds only)	2	15.0	6.8	30.0	13.6
18	WB75	WEAR BUTTON	4	2.0	0.9	8.0	3.6
19	WB90	WEAR BUTTON	6	2.4	1.1	14.4	6.5
20	SDP1337AL	SIDE PROTECTION, LEFT	1	28.0	12.7	28.0	12.7
21	SDP1337BR	SIDE PROTECTION, RIGHT	1	28.0	12.7	28.0	12.7
*weights rounded to nearest lb/kg		Total Weight of Wear Package 4				36930	16766

Note: Measurements are in inches.

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7.1

WELDING GUIDE

Hensley Products

PREPARATION & WELDING PROCESS
Hensley Products

The Hensley "Welding Guide" is intended to assist customers with welding Hensley G.E.T. products. It is a **general** welding guide and is not all inclusive. Your specific application may require different welding practices. This welding guide is **not** intended to be used for joint design of buckets or other attachments. Hensley accepts no responsibility for the misuse or misinterpretation of this information.

Preparation of the Plate Steel and the Steel Castings

The surfaces to be welded must be free from scale, grease, paint, water, etc. The basis here is to provide a good surface for welding. This is a very good practice and is mentioned in all welding codes including ***AWS 14.3, the "Specification for Welding Earthmoving and Construction Equipment"***. The surfaces must be sufficiently clean so that there is nothing that might contain hydrocarbons, which break down in the heat of the arc producing hydrogen, which can be absorbed in the weld and cause cracks. Preparation of the weld surfaces may be achieved by sand blasting, shot blasting, grinding, sanding, air carbon arc gouging, or a combination of any these processes.

In a new fabrication, rebuild, or a conversion, there can be gaps between the adapters and the plate lip. Gaps that are no greater than 3/32" (2.4mm) require no additional work, just good sound welding techniques. Gaps that are greater than 3/32" (2.4mm), should be dealt with in the following manner:

1. Preheat adapter leg to 300°F (150°C)
2. Deposit stringer bead(s) on the landing of the adapter to reduce the gap condition
3. Grind weld so that there is a smooth transition in the weld groove area of the adapter
4. Check fit adapter on lip – grind or weld as required to eliminate gap condition

If the throat opening of the adapter is too narrow to fit the lip, grinding of the land at the bottom of the weld groove is permissible. If more than 1/8" (3.2mm) is removed from the land, the weld groove needs to be widened to achieve the original weld groove size.

Welding Processes

Welding may be done by any of the following processes:

- Shielded Metal Arc Welding (SMAW)
- Gas Metal Arc Welding (GMAW)
- Flux-cored Arc Welding (FCAW)

A combination of SMAW and GMAW or FCAW can be employed.

FILLER MATERIALS						
Process	**AWS**	**JIS**	**NF**	**DIN**	**BS**	**Shielding Gas**
SMAW	E7018 AWS A5.1	JIS Z3212 D5016	E515B12029(H) NF A 81 309	E51B10120 DIN 8556	E515B12029(H) BS 2926	N/A
GMAW	ER 70S-6 AWS A5.18	JIS Z3312 YGW12	GS 2 NF A 81-311	SG2 DIN8559	A18 BS2901-1	100 CO2 90%Ar/8%CO2
GMAW	E70C-6M AWS A5.18	JIS Z3313 YFW-A50DM				92%Ar/8%CO2 90%Ar/10%CO2
FCAW	E70T-5 AWS A5.20	JIS Z3313 YFW-C50DM	TGS 51 3.3 BH NF A 81-350	SG B1 CY4254 DIN 8559	T530 GBH BS7084	100% CO2 75%Ar/25%CO2
FCAW	E71T-1 AWS A5.2	JIS Z3312 YFW-C50DR	TGS 51 3.3 BH NF A 81-350	SG B1 CY4254 DIN 8559	T530 GBH BS7084	100%CO2 75%Ar/25%CO2 90%Ar/10%CO2

ELECTRICAL CHARACTERISTICS & WELDING SYMBOLS
Hensley Products

Electrical Characteristics

A. Polarity

All welding shall be done using direct current electrode positive (DCEP)

B. Current and Voltage Ranges

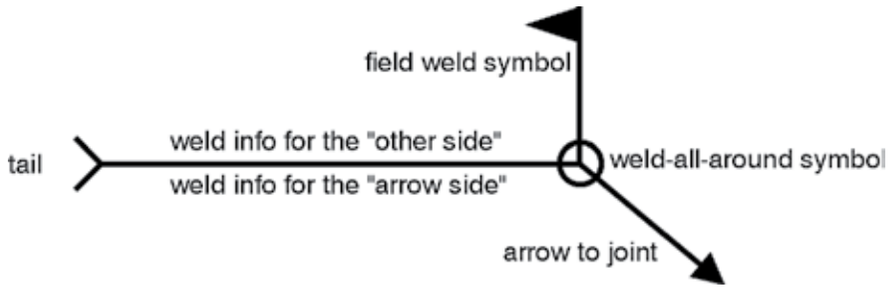
SMAW		
Electrode Diameter		Amperes
in	mm	
3/32	2.4	65 to 120
1/8	3.2	80 to 160
5/32	4.0	115 to 220
3/16	4.8	140 to 300

GMAW AND FCAW			
Electrode Diameter		Voltage	Amperes
in	mm		
0.045	1.2	22 to 30	220 to 320
0.052	1.4	25 to 30	250 to 325
1/16	1.6	25 to 35	250 to 360
3/32	2.4	28 to 35	350 to 450

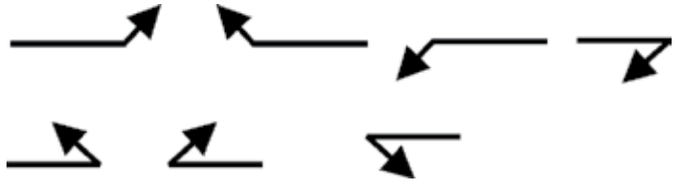
Welding Symbols

Weld symbols are used as a type of shorthand to indicate the type of weld, its size and other processing and finishing information. The following section will introduce you to the most common symbols you may encounter, while using our product, and their meaning. The complete set of symbols is given in a standard published by **American National Standards Institute** (ANSI) and the **American Welding Society** (AWS): ANSI/AWS A2.4, Symbols for welding and Nondestructive Testing.

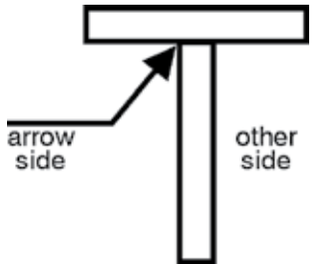
Welding Symbol Structure



The horizontal line, called the ***reference line,*** is the anchor to which all the other welding symbols are tied. The instructions for making the weld are strung along the reference line. An arrow connects the reference line to the joint that is to be welded. The example above has the arrow growing out of the right end of the reference line and heading down to the right, but other combinations may be encountered.



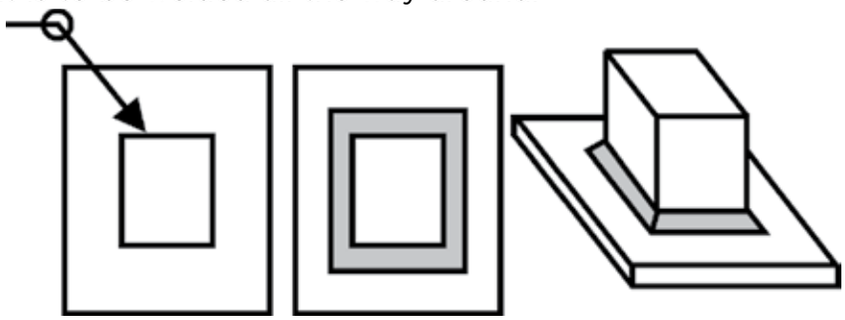
Quite often, there are two sides of the joint to which the arrow points, and therefore two potential places for a weld. For example, when two steel plates are joined together into a "T" shape, welding may be done on either side of the stem of the "T".



The weld symbol distinguishes between the two sides of a joint by using the arrow and the spaces above and below the reference line. The side of the joint to which the arrow points is known as the ***arrow side***, and its weld is made according to the instructions given below the reference line. The other side of the joint is known as the ***other side***, and its weld is made according to the instructions given above the reference line. The below=arrow and above=other rules apply regardless of the arrow's direction.

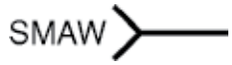
The flag (**field weld symbol**) growing out of the junction of the reference line and the arrow is present if the weld is to be made in the field during erection of the structure. A weld symbol without a flag indicates the weld is to be made in the shop.

The unfilled circle (**weld-all-around symbol**) at the junction of the reference line and the arrow indicates the joint is to be welded all the way around.

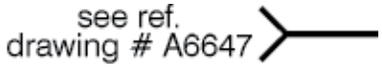


as pictured on drawing | grey area denotes weld | isometric view of "weld-all-around"

The tail of the weld symbol is the place for supplementary information on the weld. It may contain a reference to the welding process, the electrode, a detail drawing or any information that aids in the making of the weld that does not have its own special place on the symbol. If there is no additional information needed, the tail may be omitted.



In this example, the tail contains information indicating the welding process that is to be used which in this case is Shielded Metal Arc Welding (stick welding).



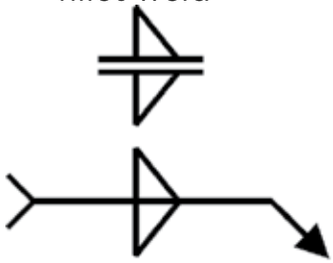
This example indicates that there is a drawing that needs to be referenced for additional information.

WELDING SYMBOLS CONTINUED
Hensley Products

Types of Welds and Their Symbols

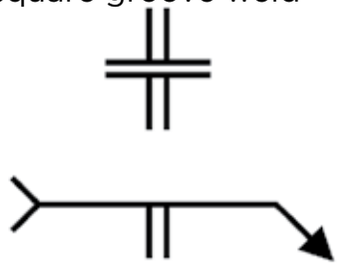
Each type of weld has its own basic symbol, which is typically placed near the center of the reference line (and above or below it, depending on which side of the joint it's on). The symbol is a small drawing that can usually be interpreted as a simplified cross-section of the weld. The examples below show the most common types of welds that may be utilized on our products. They are shown in both ***arrow-side*** and ***other-side*** position and how they would appear in a complete weld symbol. This is not meant to be an all-inclusive list of weld symbols. The complete set of symbols is given in a standard published by **American National Standards Institute** (ANSI) and the **American Welding Society** (AWS): *ANSI/AWS A2.4, Symbols for Welding and Nondestructive Testing.*

fillet weld



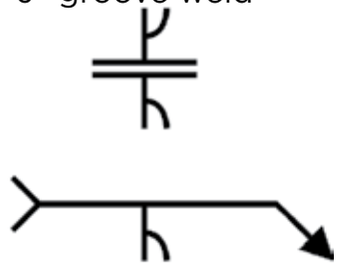
fillet weld both sides

square groove weld



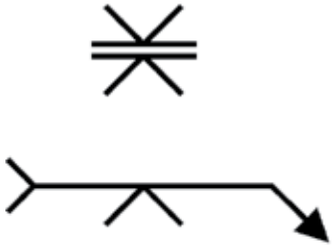
square groove weld, arrow side

"J" groove weld



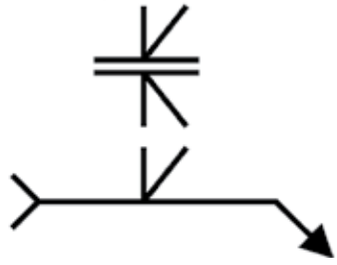
"J" groove weld, arrow side

"V" groove weld



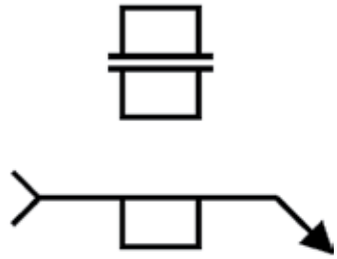
"V" groove weld, arrow side

bevel groove weld



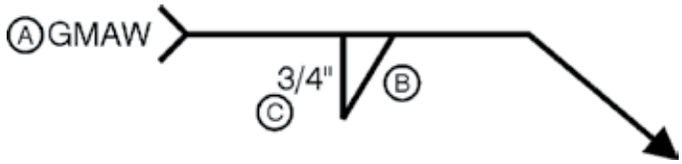
bevel groove weld, other side

plug welds and slot welds



plug weld or slot weld, arrow side

Complete Weld Symbol Example

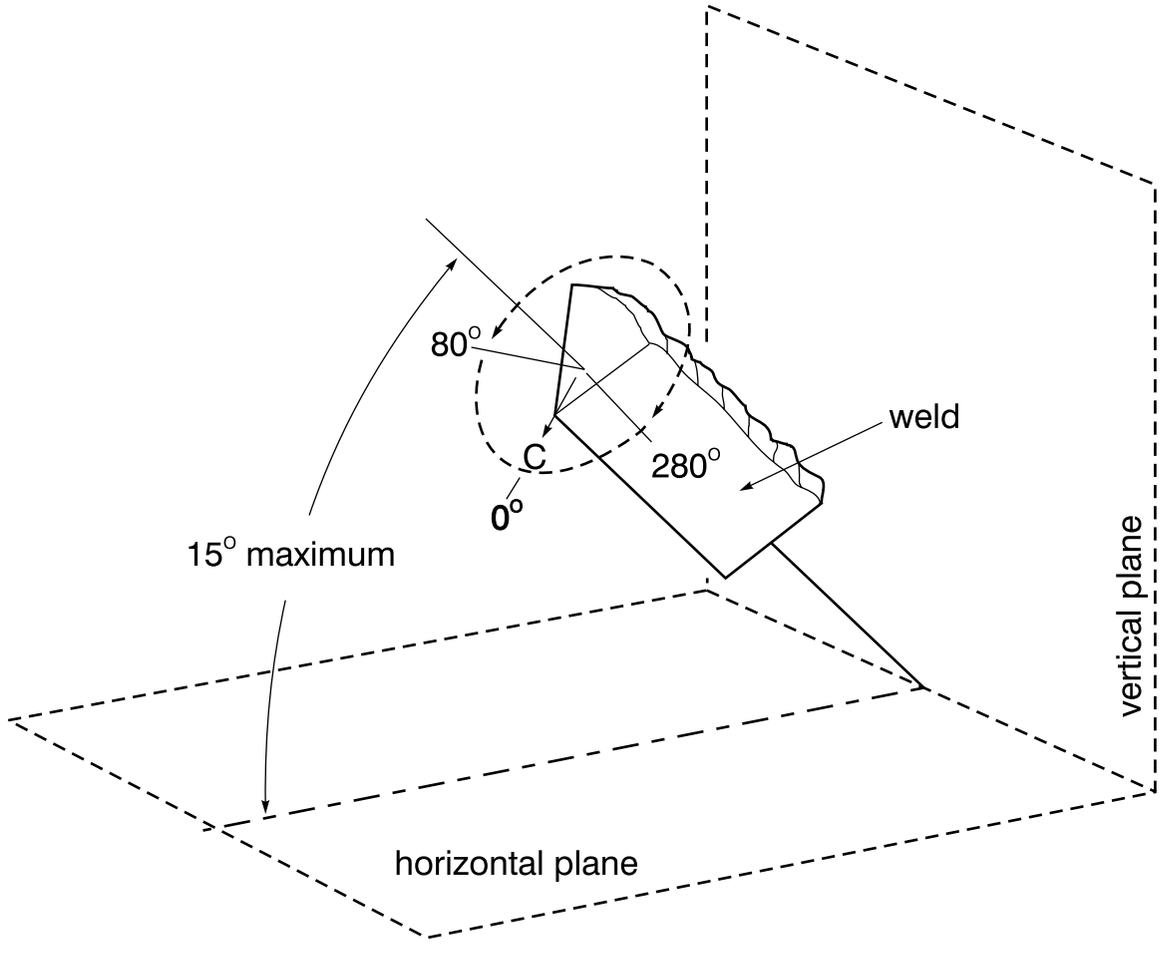


A= welding process B= weld type C= weld size

The above symbol is read as: deposit a 3/4" fillet weld on the arrow-side of the joint utilizing the Gas Metal Arc Welding Process (Mig).

Welding Position

All welding should be done in the flat or horizontal position. Deviation from the flat or horizontal position is permissible following the figure shown below which is adapted from AWS D1.1, Structural Welding Code – Steel, figure 4.2 "Positions of fillet welds"



The longitudinal axis of the weld may be inclined no more than 15° with respect to the horizontal plane. The center of the weld face © must lie within the rotational limits of 80° to 280° as shown.

PREHEAT & INTERPASS TEMPERATURES
Hensley Products

Preheat and Interpass Temperatures

Preheat is the application of heat to the work piece prior to welding, cutting, or gouging. All cutting and welding processes use a high temperature heat source. These high temperatures exceed the melting point of the base metal. This creates the problem of a traveling high temperature, localized heat source, and the effect that it has on the surrounding base metal.

A large temperature differential causes thermal expansion and contraction, high stresses, hardened areas, and a very small area for hydrogen gases to escape from the steel. Preheating will reduce the danger of weld cracking, reduce maximum hardness of the heat affected zone, minimize shrinkage stresses, lessen distortion, and create a larger area for hydrogen gases to escape from the metal.

Prior to any cutting, gouging, tacking, or welding operation, the following preheat temperatures must be achieved and maintained.

PREHEAT AND INTERPASS TEMPERATURES				
Material	**Thickness**		**Minimum Preheat Temperature**	**Maximum Interpass Temperature**
	in	**mm**		
Hensley Castings	N/A	N/A	300ºF / 150ºC	450ºF / 230ºC
ASTM A514 (T1) Bisalloy 80 Weldox 100	< 1.5	< 38	125ºF / 50ºC	450ºF / 230ºC
	1.5 to 2.5	38 to 63	175ºF / 80ºC	450ºF / 230ºC
	> 2.5	> 63	250ºF / 120ºC	450ºF / 230ºC
400 BHN Abrasion Resistant Steel-Hardox 400	1.0 to 5.0	25 to 127	300ºF / 150ºC	450ºF / 230ºC

The chart shown above lists common materials used on buckets and attachments that utilize Hensley Ground Engaging Tools (GET). It is not an all inclusive list of materials.
To determine the pre-heat and interpass temperatures for materials not listed here:

1) Consult the material manufacturer or supplier.
2) Use the Carbon Equivalency Formula (CE), on the next page.

Carbon Equivalency Formula

$$CE = C + \frac{Mn}{6} + \frac{(Cr + Mo + V)}{5} + \frac{(Ni + Cu)}{15} = \text{(percent)}$$

The elemental values (e.g. Mn, Cr etc.) can be obtained from the material's ***mill cert*** (mill certification) from the manufacturer or supplier.

The result of the CE formula is then compared to charts that may be provided by the steel manufacturer or listed in ***American Welding Society publication D14.3***. The charts will indicate the amount of preheat that is required for that particular steel's composition and thickness.

Notes: If the ambient humidity is high and or the temperature is below 40°F (4°C), the tabulated value should be increased by 80°F (27°C). At no time should any material type or thickness be welded when the temperature of the steel is at or below 40°F (4°C).

Preheating with burners or torches is much more effective when the heat is applied from the bottom side of the work piece with insulating blankets on the topside. The blankets help to disperse the heat evenly as well as retain the heat that has been input. Measure the temperature with a temperature indicating crayon or an infrared thermometer from the topside. This will insure that the preheat is not just on the surface of the material, but a complete preheat through the thickness of the materials to be welded. All material within 4" (100mm) of the weld zone must be within the specified temperature.

Cool slowly. Do not allow drafts or cool ambient temperatures to cool the parts or assembly. The part should be covered in a thermal blanket to insure a slow cool down rate.

Welding Technique

Stringer beads are recommended for higher strength and to minimize distortion. The use of weave or wash beads should not be used, however weaving is permitted to the extent that bead widths are no greater than 1/2" (12mm).

Craters: When a weld pass is terminated within the finished product, the crater shall be filled to at least 85% of the full cross section of the weld. This will help eliminate the possibility of crater cracks. When welding with the SMAW process, the easiest way to achieve this is to stop the travel of the electrode and pause briefly before breaking the arc. When welding with the GMAW or FCAW processes, stop the travel and extinguish the arc, initiate the arc briefly, then extinguish.

Porosity: Porosity is a cavity-type discontinuity or defect that is formed by gas entrapment during solidification. Porosity reduces the strength of a weld and should be removed and replaced if the sum of the visual or surface porosity, including piping porosity, is greater that 1/4" (6mm) in any 4" (100mm) length of weld. A single void shall not exceed 1/16" (1.6mm).

Overlap and Undercut: Weld overlap shall not exceed 1/16" (1.6mm) beyond the fusion line of the weld. Undercut shall not exceed 1/16" (1.6mm) in any joint or 10% of the base metal whichever is less. In addition, the accumulative length is not to exceed 1-1/2" (38mm) over a 24" (610mm) continuous section of weld.

Arc Strikes: A discontinuity resulting from an arc, consisting of any localized re-melted metal. Arc strikes should be avoided. Arc strikes that occur inside or outside the weld zone should be ground out.

Each weld shall merge smoothly into adjoining bead or base metal surface. Remove all unacceptable defects (crater cracks, porosity, overlap, undercut, etc.) on the weld surface or groove sidewalls before proceeding with the next weld pass. Removal may be accomplished by grinding with abrasive wheels, stones, or carbide burrs. Air carbon arc gouging may also be used, followed by grinding to remove all carbon slag.

Clean each pass of deposited weld metal before depositing the next weld pass. Using manual slag hammers, pneumatic needle gun, wire brushes or any combination of these tools may accomplish cleaning.

General Weld Crack Repair Instructions

Cracks can develop in welded assemblies for multiple different reasons and in different areas. Cracks can appear in the weld itself or adjacent to the weld in the base metal. Cracks are a very serious defect that will reduce the strength of any weldment. Cracks can also propagate and cause sudden and catastrophic failure. Cracks must be repaired. The typical repair method is as follows:

Step 1
Preheat the crack and surrounding area in a range from 180°F (82°C) to 225°F (107°C). The preheat should be a through heat and not just a surface heat. Heat an area that extends 4" (100mm) from the crack. Preheat temperature should be measured with a temperature indicating crayon or infrared thermometer.

Step 2
Use the Air Carbon Arc Gouging process to remove the crack. The crack must be completely removed both in length and in depth. Taper the ends of the gouged groove so that there is a gradual transition between the groove and the outside surface. Sides of the gouged groove should be angled to create a bevel that is accessible for the welding process used.

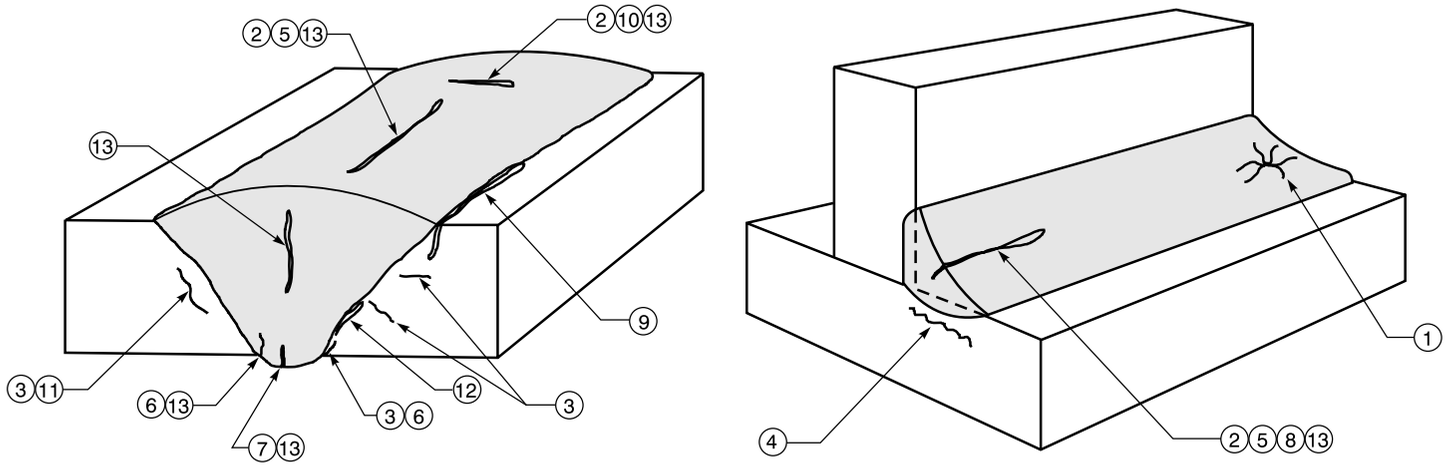
Step 3
Grind all gouged surfaces to remove carbon slag and to create a smooth, clean, surface for welding.

Step 4
Non-Destructive Testing should be used at this point to insure that the crack has been completely removed. If a crack or indication of a crack is still present, grind out and re-test.

Step 5
Perform repair welding per the preheat requirements, filler material suggestions, and welding techniques that are described within this welding guide. Weld finish or blend per instructions.

Note: The above mentioned crack repair instruction is only a suggestion. Each crack or cracks should be analyzed individually and specific instructions should be created based on the analysis. Depending on the type of crack, location, length, depth, etc. changes or modifications to these instructions may be required.

Types Of Weld Cracks



1. Crater Crack
2. Face Crack
3. Heat Affected Zone Crack
4. Lamellar Tear
5. Longitudinal Crack
6. Root Crack
7. Root Surface Crack
8. Throat Crack
9. Toe Crack
10. Transverse Crack
11. Underbead Crack
12. Weld Interface Crack
13. Weld Metal Crack

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7.2

WELDING GUIDE

Adapters

WELDING SEQUENCES
Adapters

BE SURE TO READ ALL INSTRUCTIONS PRIOR TO STARTING ANY WELDING!

Preheating

Preheat area to be welded to appropriate temperature (see **Preheat and Interpass Temperatures**) based on type of base metal being welded.

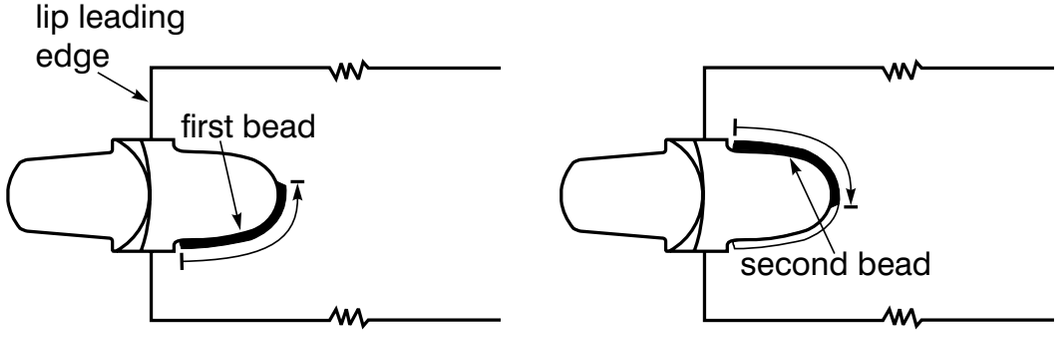
Welding Sequences

Hensley Construction Size 2 leg Center Adapter

Place adapter on lip plate per desired location from side to side. **The top leg of the adapter should be in full contact with the bevel area and the top surface of the lip**. **Any gap condition should be pushed to the bottom leg of the adapter.** Insure that the fit conditions comply with the requirements mentioned in this publication. Preheat in accordance with the preheat chart. Deposit one 1" (25mm) long tack at the root of the weld groove on each side of the adapter.

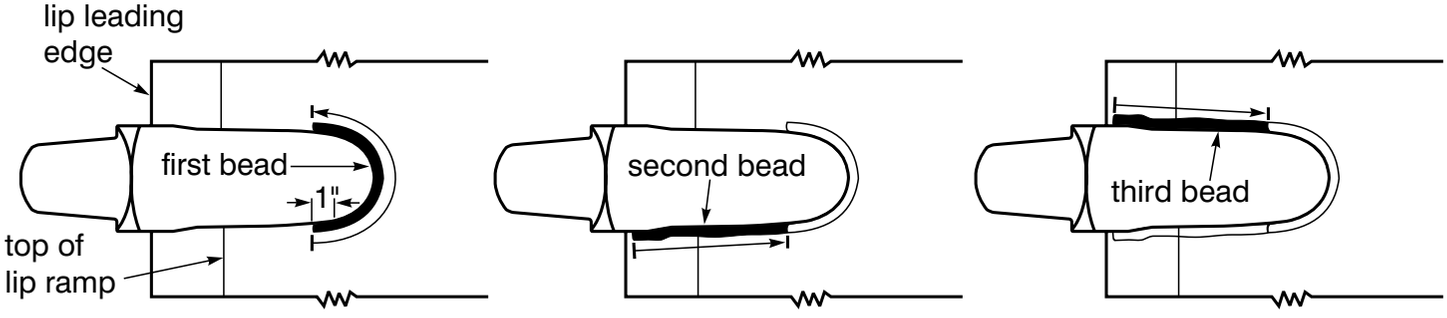
Welding begins on the bottom side. The bottom leg of the adapter is shorter than the top leg, thus requiring less welding. Starting the welding sequence on the bottom side will help to insure that the lip plate remains flat. Begin welding at the front of the weld groove on the bottom leg and travel towards the back or heel of the adapter. Do not start the weld any closer to the leading edge of the lip than the weld groove in the adapter. Deposit weld on the opposite side of the adapter joining the first bead at the back or heel of the adapter. Repeat this process for the second and third weld passes. Vary the lengths of the weld beads so that the stops (craters) are not in the same location. Turn Lip Over.

Welding Sequence on Bottom Surface of Lip



Deposit root pass on the top leg of the adapter starting 1″ (25mm) on the leading edge side of the back of the adapter. Terminate this weld 1″ (25mm) beyond the end of the radius on the opposite side of the adapter. (See figure below) Deposit weld at the front of the weld groove and travel towards the first weld pass. Do not weld within 1″ (25mm) of the leading edge of the lip. Deposit a similar bead on the opposite side of the adapter. Repeat this process for the second and the third weld passes. Vary the lengths of the weld beads so that the stops (craters) are not in the same location. Turn Lip Over.

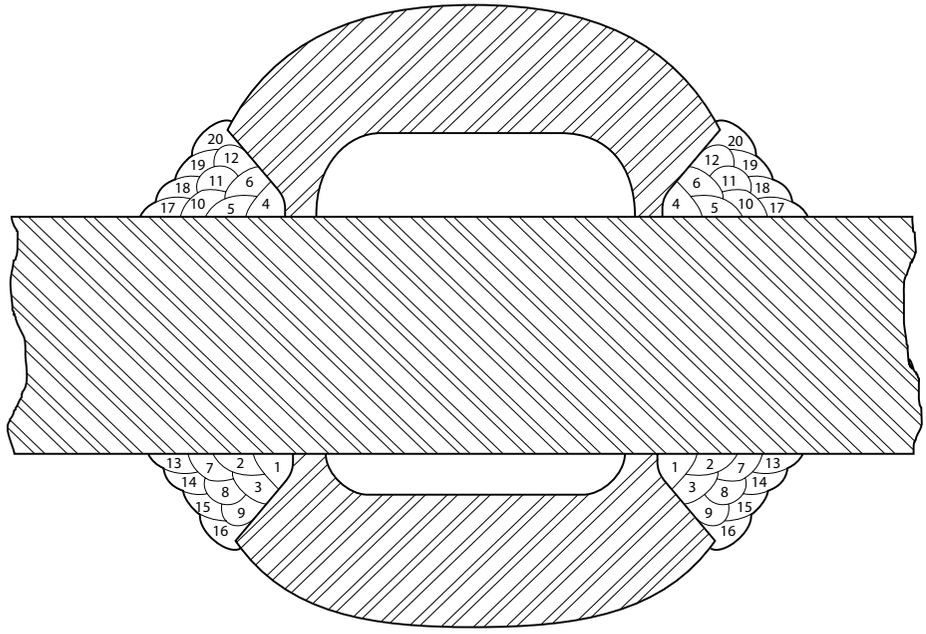
Welding Sequence on Top Surface of Lip



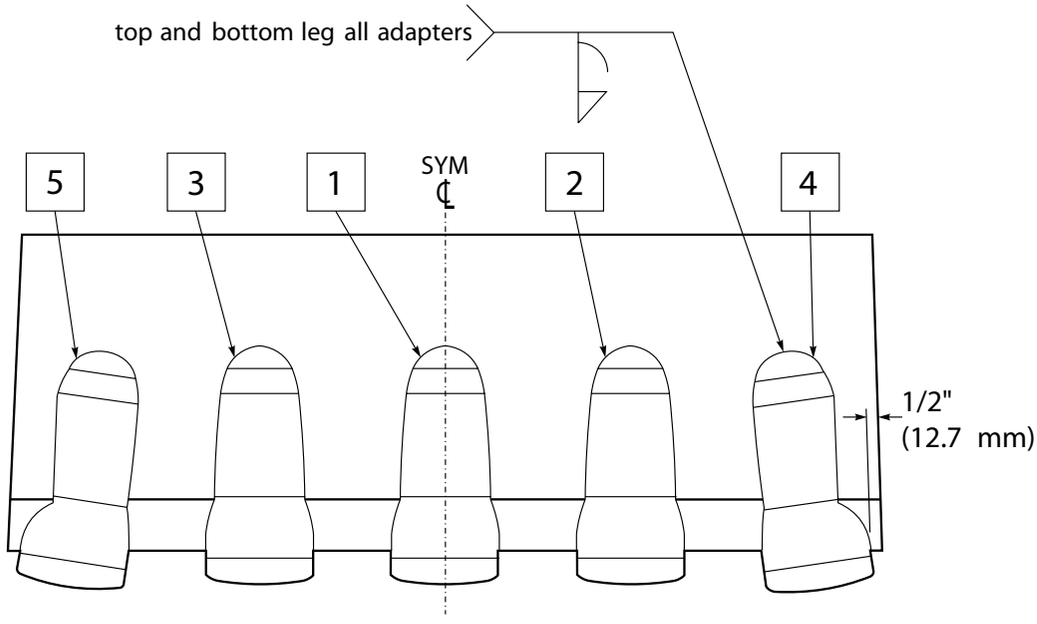
WELDING SEQUENCES CONTINUED
Adapters

To achieve final fillet weld size, follow bottom leg to top leg weld sequence. (See figure below) It is also recommended to alternate the weld from adapter to adapter following the sequence shown below.

Example of bottom leg to top leg weld sequence



Example of adapter to adapter weld sequence



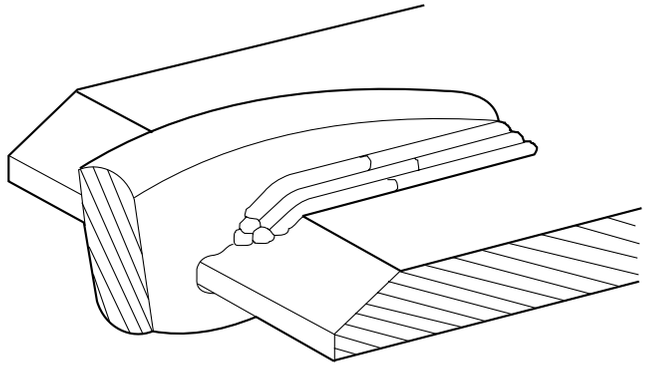
typical 5-tooth layout

The fillet weld leg size should be a minimum of 1/16″ (1.6mm) above the edge of the cast weld groove in the adapter. This final fillet weld should be an equal legged fillet weld. For many of the mining product sized adapters, a 2 to 1 weld ratio is required. In this case, the fillet weld leg length on the lip is twice the length of the height to the edge of the cast weld groove on the adapter.

When welding construction sized adapters, considerable grinding effort can be saved by carefully staggering the starting points of the weld beads near the leading edge of the lip. By starting each weld layer 1/16″ (1.6mm) behind the preceding layer, the final fillet weld will have a tapered start. Vary the lengths of the weld beads so that the stops (craters) are not in the same location.

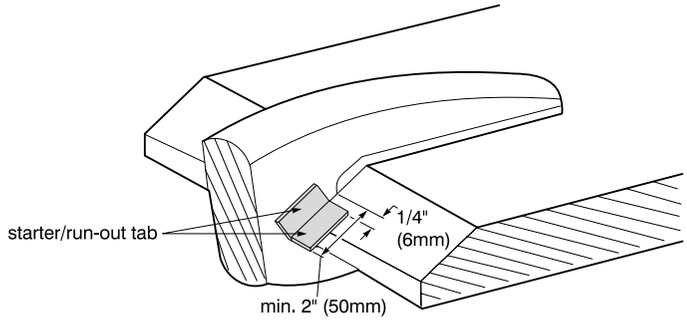
Example of staggered starts and stops on construction size adapters

CONSTRUCTION SIZE ADAPTER



Mining Adapters
(for machine classes over 200 tons)

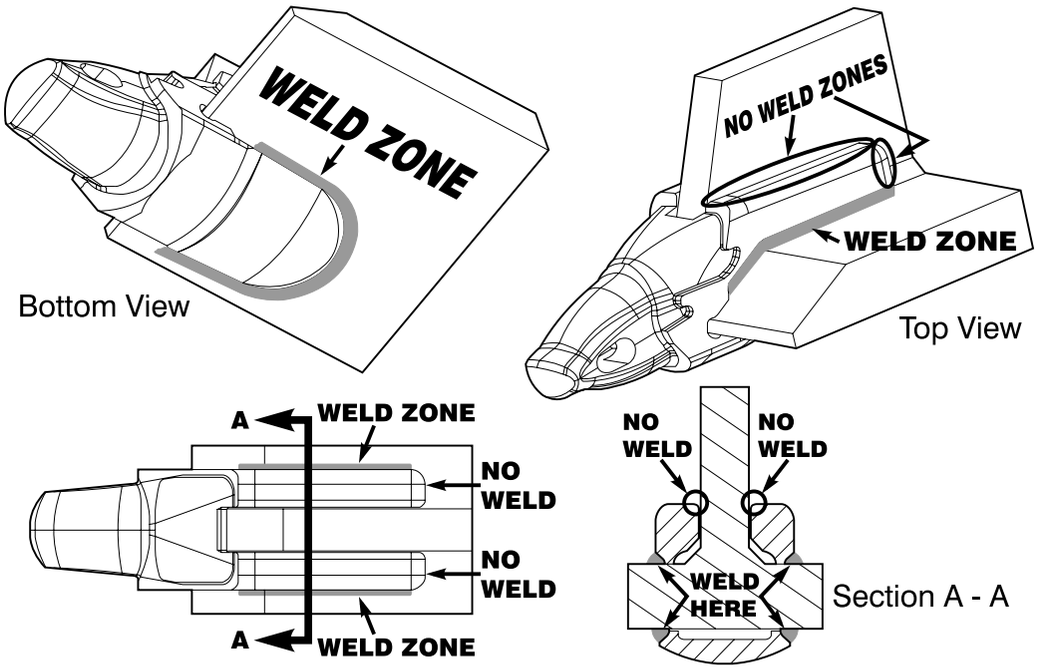
The use of starter/run-out tabs on mining size adapters is recommended. The starter/run-off tabs should be constructed of 1/4″ (6mm) minimum thickness mild steel, (ASTM A36 or equivalent) and must extend at least 2″ (50mm) beyond the start of the weld prep on the adapter. Tabs should be positioned 1/4″ (6mm) away from the start of the weld bevel on the adapter. Upon completion of the fillet weld, remove the starter/run-off tabs using the air carbon arc gouging process. Follow the weld finishing information of mining adapters.



STRADDLE-LEG CORNER ADAPTER
Adapters

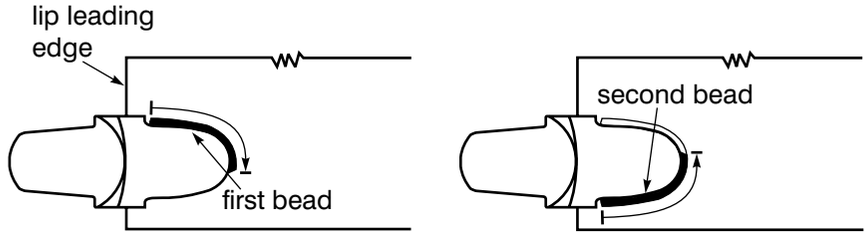
Hensley Straddle-leg Corner Adapter

The following instructions are for welding Hensley **straddle-leg adapters** where the adapter contacts the lip. Take note of **weld / no weld** areas (see drawings below).

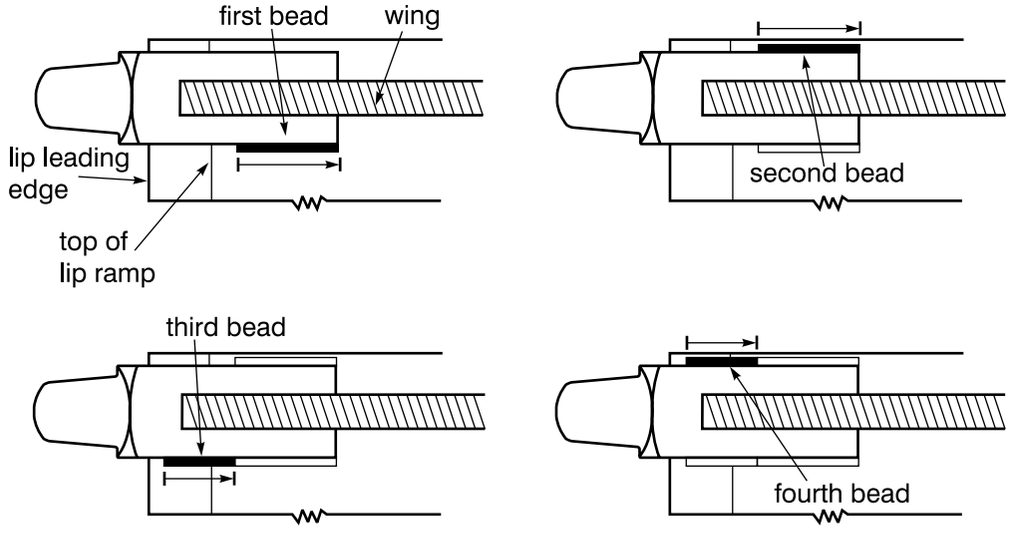


Locate straddle-leg adapter on lip plate/cheek plate. Insure that the fit conditions comply with the requirements mentioned in this publication. Preheat in accordance with the preheat chart. Deposit one 1″ (25mm) long tack at the root of the weld groove on each side of the adapter.

Welding begins on the bottom side. The bottom leg of the adapter is shorter than the top leg, thus requiring less welding. Starting the welding sequence on the bottom side will help to insure that the lip plate remains flat and that the stresses will equal out from the topside to the bottom side. Begin welding at the front of the weld groove on the bottom leg and travel towards the back or heel of the adapter. Do not start the weld any closer to the leading edge of the lip than the weld groove in the adapter. Deposit weld on the opposite side of the adapter joining the first bead at the back or heel of the adapter. Repeat this process for the second and third weld passes. Vary the lengths of the weld beads so that the stops (craters) are not in the same location. Turn Lip Over.



Begin welding the top leg at the center of the inside top leg and weld the root pass to the end of the weld groove at the back of the leg. The second bead is deposited at the center of the outside top leg and extends to the end of the weld groove at the back of the leg. On the inside leg, begin the root pass at the front of the weld groove and proceed to the starting point of the first bead. Do not weld within 1″ (25mm) of the leading edge of the lip. Deposit a similar root pass on the opposite side of the top leg. Repeat this process for the second and third weld passes. Vary the lengths of the weld beads slightly so that the start/stop positions are not at the same location.



This size adapter requires additional weld layers. Turn lip over and follow the top to bottom weld sequence and the adapter-to-adapter weld sequence mentioned earlier in the publication. Continue in this manner until the desired fillet weld size has been achieved.

The fillet weld leg size should be a minimum of 1/16″ (1.6mm) above the edge of the cast weld groove in the adapter. This final fillet weld should be an equal legged fillet weld. For many of the mining product sized adapters, a 2 to 1 weld ratio is required. In this case, the fillet weld leg length on the lip is twice the length of the height to the edge of the cast weld groove on the adapter.

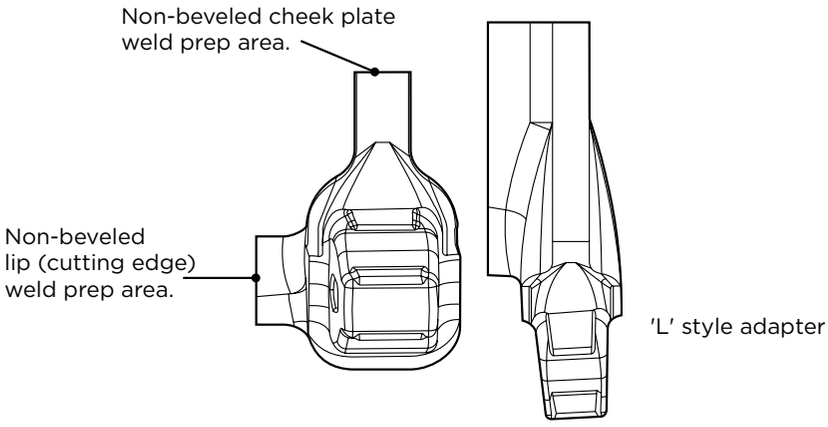
Hensley Cast Corner Adapter

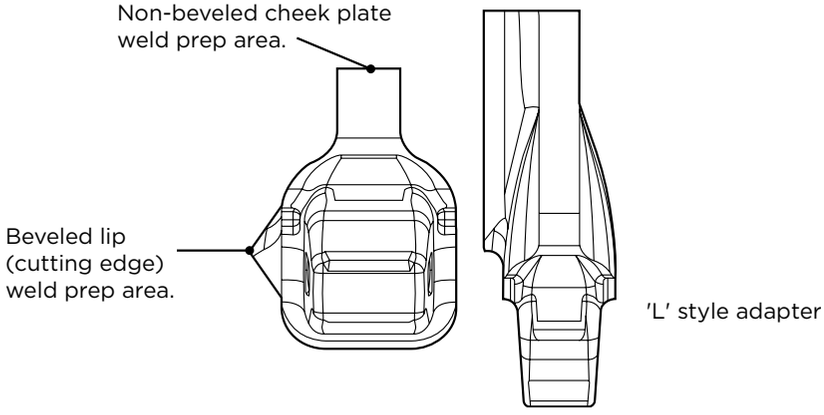
Hensley cast corner adapters are offered in a variety of sizes and shapes. Some have weld preps cast into the lip (cutting edge) and cheek plate portions of the corner castings and some do not. Modifying the cast corner adapter is not required and is not recommended. The cutting edge and cheek plates should be beveled to create a 100% penetration weld joint. In full penetration welds it is absolutely necessary that the welder has sufficient room and accessibility to deposit the weld at the root of the joint.

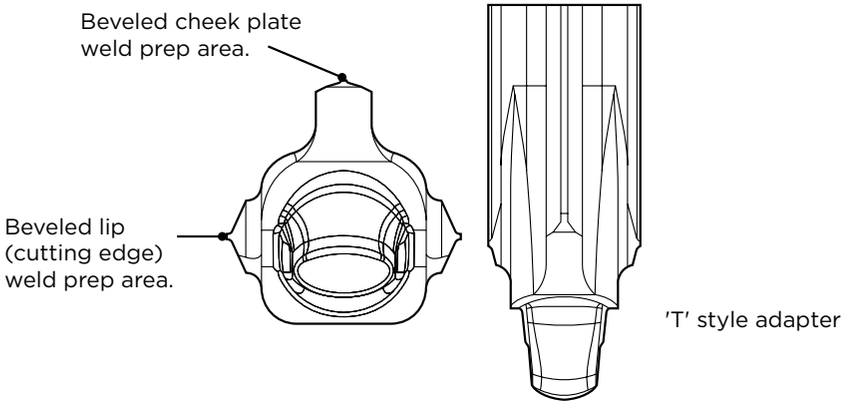
There are three major factors that must be considered when designing the cutting edge to the cast corner adapter weld joint and the cheek plate to cast corner adapter weld joint. These factors are:

1. Included Angle - The included angle can vary based on the material thickness, type of weld prep on the cast corner adapter, and the welding process that will be used. As the material thickness increases and the joint becomes deeper, a wider joint is required for GMAW wire welding due to the nozzle diameter and access to the root of the joint. The root of a narrow joint can be accessed with SMAW due to the small diameter of the stick electrode.
2. Root Face - The root face should be kept to a minimum. This will permit better penetration and less material to be removed in the back-gouging process.
3. Root Opening – Too tight of a root opening will prevent full penetration and require more material to be removed in the back-gouging process. Too wide of a root opening can make it difficult for the welder to properly join the materials and is more likely to create welding defects.

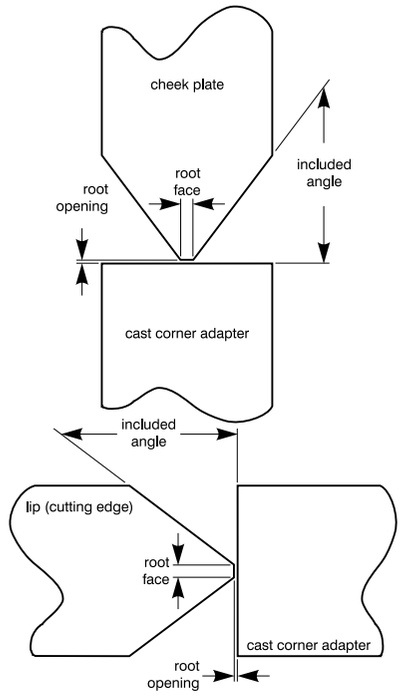
Examples of Cast Corner Adapter Styles and Weld Prep Areas



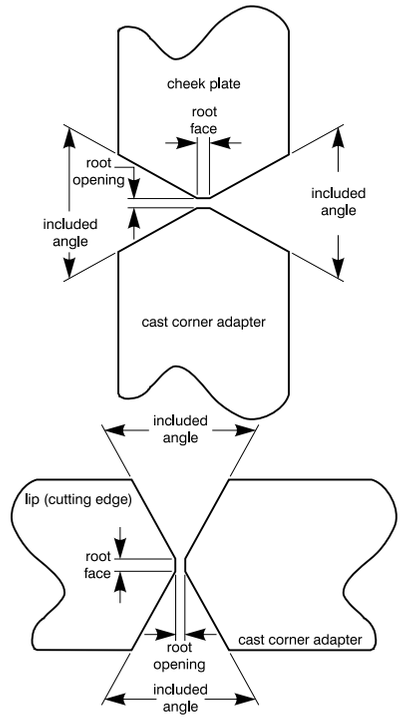




Single Bevel Groove



Double Bevel Groove



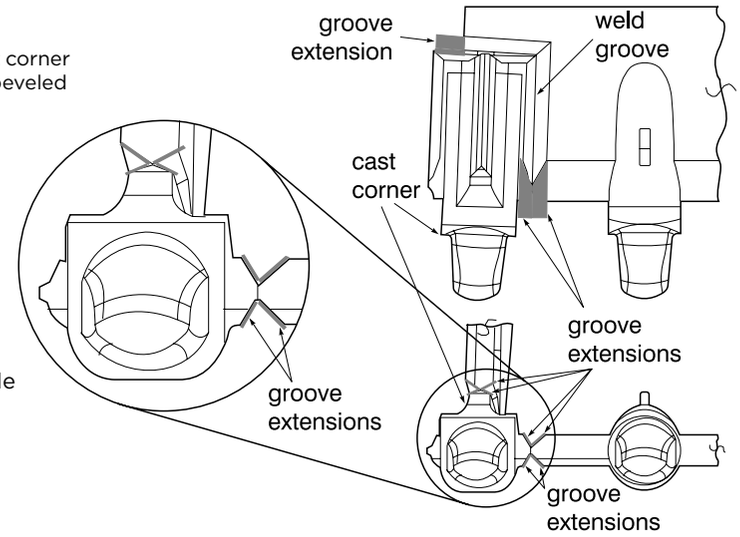
Both the double bevel groove and the double “V” groove are pre-qualified and acceptable weld grooves. However, both of these grooves **must** be constructed to allow access to the root of the joint for the welding process being used.

CAST CORNER ADAPTER CONTINUED
Adapters

Remove lifting eye, if applicable. Grind clean all weld joint surfaces of the cast corner adapter to provide a clean surface for welding. All paint should be removed. Position the cast corner adapter at the desired location, in most cases, the top and bottom of the cast corner should be flush with the top and bottom surfaces of the lip plate. **Note: Integral cast corners shall be located so that the nose angle of the cast corner is the same as the nose angle of the adjacent center adapters on the lip.** Insure that the fit conditions comply with the requirements mentioned in this publication. Preheat in accordance with the preheat chart. Tack weld the corners in place using two 1″ (25mm) long beads at the root of the groove weld. Install groove extensions.

Example of how Groove Extensions can be used on cast corner adapters.
Tack weld starter/run-off tabs or groove extensions at each end of the joint. The starter/run-off tabs should be constructed of ¼/4″ (6mm) minimum thickness mild steel, (ASTM A36 or equivalent) and must extend at least 2″ (50mm) beyond the ends of the weld grooves.

NOTE
Not all Hensley cast corner adapters will have beveled weld prep areas.



Hensley 'T' style cast corner shown.

Deposit a continuous root bead on one side of the joint, starting on the starter tab and stopping on the run-off tab. Deposit a second layer of weld on the same side of the joint. Turn assembly over and back gouge the root of the joint to sound base metal. Deposit root pass and second pass on this side.

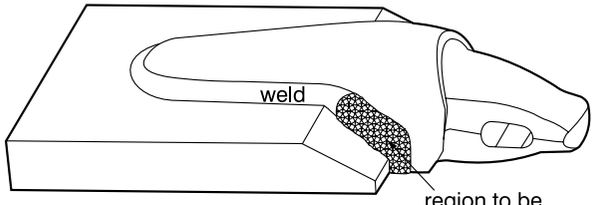
The first few weld passes on the cast corner are very important. These weld passes can cause the cast corner to pull out of square to the lip plane. Continually checking the cast corner for square, and depositing weld accordingly can maintain square. Continue building up the groove in weld layers, turning the lip after each layer.

The cheek plate to cast corner adapter joint is filled the same as the cutting edge joint. Deposit root pass and second layer of weld on the inside of the bucket. Back gouge cheek plate joint on outside of bucket for 100% penetration and clean gouged area. Alternate each layer of weld from inside of bucket to outside of the bucket. Remove the starter/run-off tabs using the air carbon arc gouging process. Grind the gouged surfaces to form a smooth transition between the lip and the cast corner.

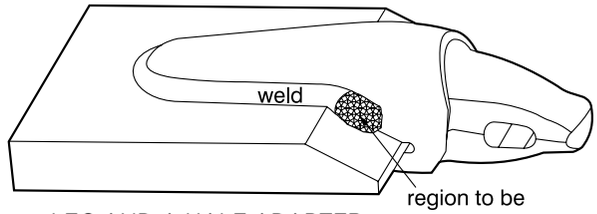
Weld Finishing

Grinding

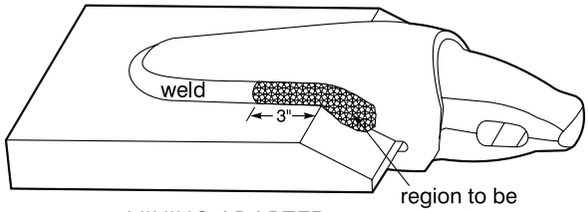
The surfaces of the adapter to lip welds shall be ground smooth. All welds on the top and bottom sides should be ground.



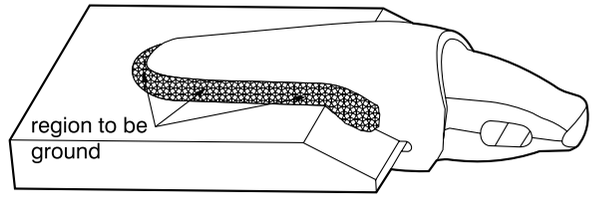
FLUSH MOUNT ADAPTER



LEG AND A HALF ADAPTER
(60 ton up to 100 ton class machines)

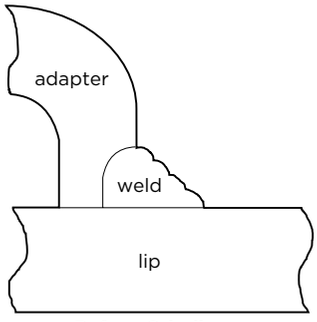


MINING ADAPTER
(100 ton up to 200 ton class machines.
3"(75mm) on bottom side also)

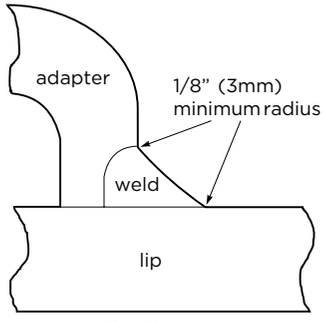


MINING ADAPTER
(for machine classes 200 ton & over)

Grinding should produce a smooth surface free of roughness and unevenness associated with the weld beads. The toes of the welds shall transition into the lip and the adapter smoothly. The transition should have a minimum radius of 1/8" (3mm).

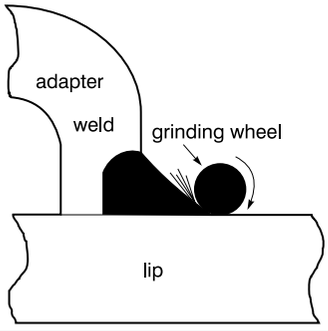


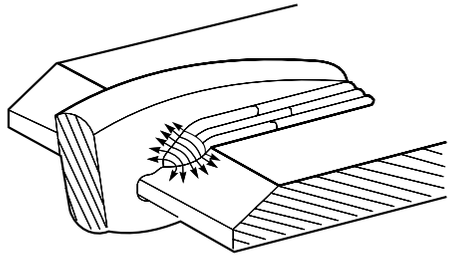
Before Grinding



After Grinding

Proper grinding directions



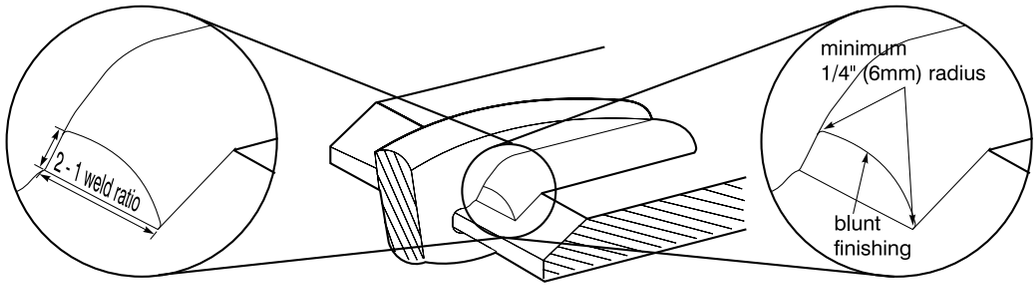


CONSTRUCTION SIZE ADAPTER

TEMPER OR ANNEALING WELD BEADS
Adapters

Weld Finishing-continued

Mining Adapters
(for machine classes 200 tons & over)

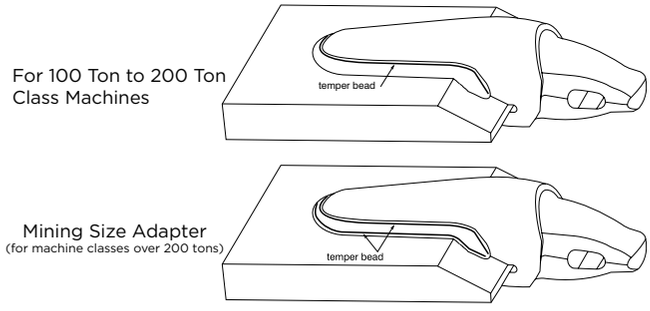


The leading edge of the fillet weld shall be ground to a blunt. Minimum radius between the cutting edge / adapter to fillet weld is 1/4" (6mm).

Temper or Annealing Weld Beads

Temper or annealing weld beads are additional beads placed on top or the bottom of the finished fillet weld. The application of a tempering or annealing weld bead is designed to reduce the risk of hydrogen assisted cracking. The heat from these beads, tempers, anneals, or softens the final weld pass against the casting/lip and the "Heat Affected Zone", (HAZ), within the casting/lip caused by the weld pass adjacent to the casting/lip.

The tempering or annealing weld beads should be placed so that the toe of the bead is 1/8" to 3/16" (3.2mm to 4.8mm) away from the top or bottom toe of the final weld of the fabrication. **Tempering beads should be ground smooth.**



Temper or annealing beads may be applied using any of the processes and filler materials mentioned in the publication. However, the allowable sizes shall be restricted to:

TEMPER OR ANNEALING BEADS		
Process	**Electrode Size**	
	in	**mm**
SMAW	5/32	4.0
GMAW	1/16	1.6
FCAW	1/16	1.6

Adapter Removal

When converting an existing bucket to Hensley GET or in the case of adapter failure, it becomes necessary to remove the adapter(s). In these cases, care must be taken so as not to damage the lip or cutting edge. The following steps should be taken:

Step 1
Preheat the lip/cutting edge in a range from 180°F (82°C) to 225°F (107°C). The preheat should be a through heat and not just a surface heat. Heat an area that extends 4" (100mm) from the adapter weld. Preheat temperature should be measured with a temperature indicating crayon or infrared thermometer.

Step 2
Use the Air Carbon Arc Gouging process to remove the existing adapter welds. Gouge the adapter weld and the adapter so that the adapter can be removed. The intent is to protect and save the lip/cutting edge and scrap the adapter. Care should be taken as the gouging approaches the surface of the lip/cutting edge. Gouge just enough of the adapter and the adapter weld to create separation between the adapter and the lip/cutting edge.

Step 3
With the adapter removed from the lip/cutting edge, grind gouged area so that it is flush with the surface of the lip/cutting edge. A straight edge can be used to assist with grind to flush. The intention is to provide a flat and clean surface, free from carbon slag and/or other impurities that can affect the quality of the fit up and weld of the new adapter(s).

Step 4
Non-Destructive Testing should be used at this point to insure that there are no cracks or defects in the lip/cutting edge. If defects are present, they should be repaired per the manufactures recommendations or with good sound welding techniques.

Step 5
Install and weld new adapter(s) per instructions within this welding guide.

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7.3

WELDING GUIDE

J-Bolt Weld Bases

WELDING J-BOLT WELD BASES
J-Bolt Weld Bases

BE SURE TO READ ALL INSTRUCTIONS PRIOR TO STARTING ANY WELDING!

SPECIAL NOTES

Recommended filler material: AWS specification A5.1, class E7018, stick electrode. Stick electrodes should be kept in a heated rod oven at 250° (120°C) prior to use.

NOTE: See manufacturers recommended procedures for storage and preservation of low hydrogen electrodes.

Recommended weld types: Stringer beads are recommended for higher strength and less distortion. The use of weave or wash beads is **NOT** recommended and should not be used. Arc strikes should be avoided or ground down.

STEP 1

Prior to welding, proper placement of the weld base must be determined (fig. 1.1). Position the weld base according to the adjacent chart (fig. 1.2) A deviation of ±3/32" (2.5 mm) is allowable. After placement has been confirmed, pre-heat the base material to recommended temperatures (see Preheat and Interpass Temperature section for preheat temperature ranges) and tack weld the base at the rear along weld prep surface "A" (fig. 1.1).

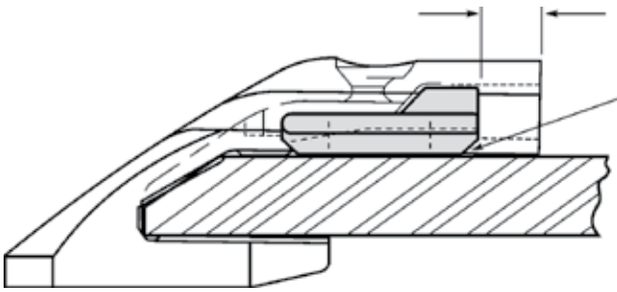


fig. 1.1

WELD BASE PLACEMENT (±3/32" (2.5MM) ALLOWABLE)		
Base	**in**	**mm**
LSWB1	2.25	57
LSWB2	2.25	57
LSWB3	2.25	57
LSWB4	2.25	57
LSWB5	2.25	57
LSWB6	3.5	89
LSWB7	2.25	57
LSWB8	2.25	57
LSWB9	flush	flush
LSWB10	flush	flush

fig. 1.2

STEP 2

After the base is tacked, remove the shroud and re-establish the recommended preheat temperatures. Be sure to maintain this temperature throughout the welding process.

STEP 3

Weld-out for the base should begin with the slot weld. A 1/2" (13mm) fillet weld should be deposited in this area (fig 3.1). **BE SURE THAT THE ENTIRE BOTTOM OF THE WELD BASE MAINTAINS CONTACT WITH THE LIP DURING THE ENTIRE WELD-OUT PROCESS.**

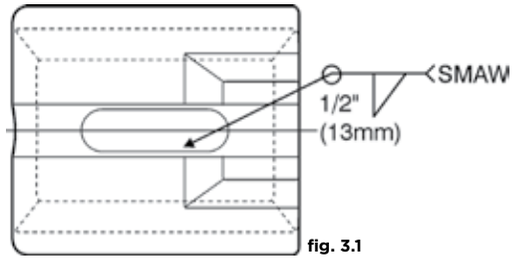


fig. 3.1

STEP 4

Apply weld to the base perimeter next. Utilizing groove welds, fill the 1/2" (13mm) weld groove on the base completely (fig. 4.1 & fig. 4.2). Care must be taken at this point not to add too much weld. If joint is over welded, the weld material can interfere with the lip shroud. The idea is to add as much weld as possible to the base without causing interference with the lip shroud (fig. 4.3 & fig 4.4).

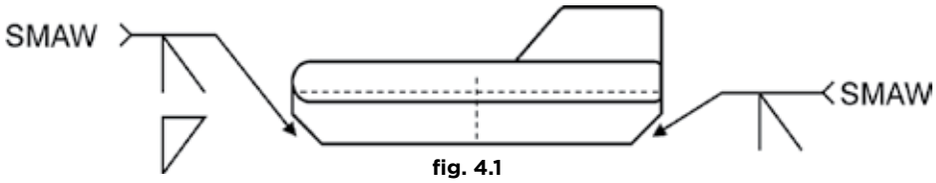


fig. 4.1

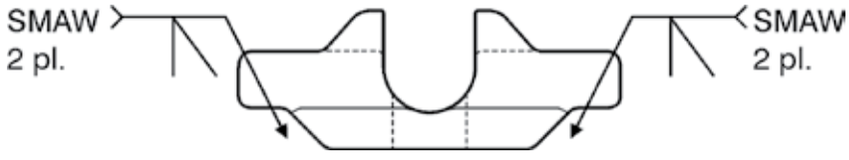


fig. 4.2

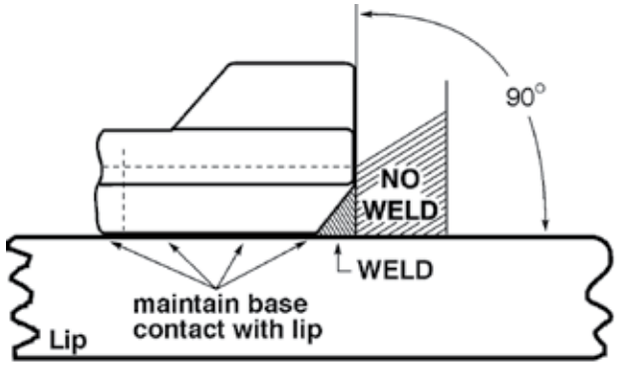


fig. 4.3

Weld in this area will interfere with the front washer of the J-Bolt assembly which must fit flush against the rear of the weld base.

Ensure contact with lip on entire length of weld base bottom surface as indicated.

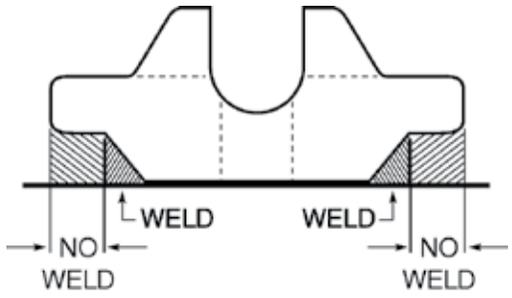


fig. 4.4

Weld in the 'NO WELD' area
can interfere with the lip shroud.

When the welding process has been completed, allow a slow cool down period to ambient temperature. A cool down rate of no greater than 35°F (2°C) per hour is recommended.

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7.4

WELDING GUIDE

Bucket Heel Shrouds

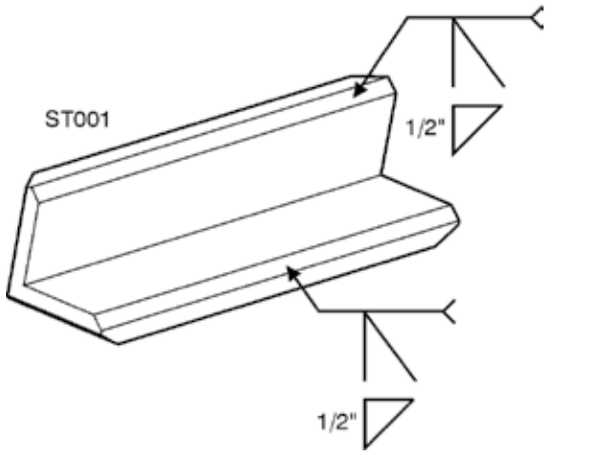
WELDING BUCKET HEEL SHROUDS
Bucket Heel Shrouds

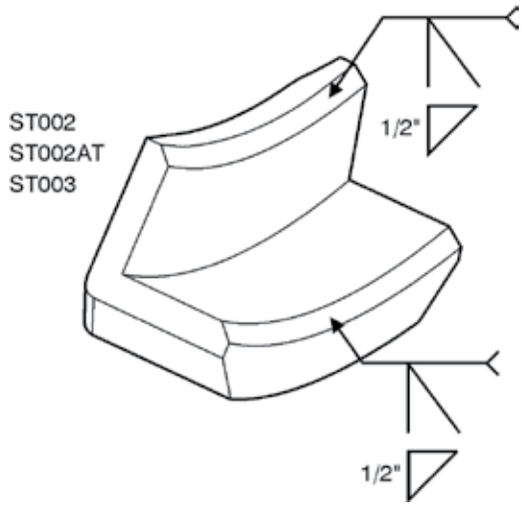
BE SURE TO READ ALL INSTRUCTIONS PRIOR TO STARTING ANY WELDING!

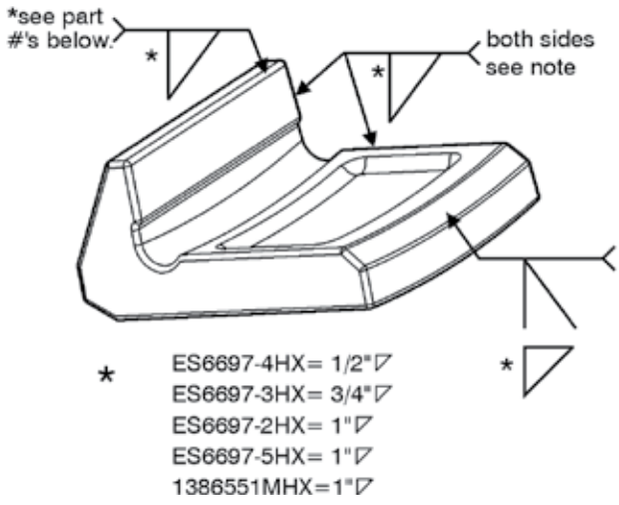
Prior to welding, determine placement and spacing of the heel shrouds based on preference or wear. After placement has been confirmed, preheat the base material to recommended temperatures (see **Preheat and Interpass Temperatures** section for preheat temperature ranges) and tack weld the shroud to the bucket.

Stringer beads are recommended for higher strength and less distortion. The use of weave or wash beads is **NOT** recommended and should not be used. Arc strikes should be avoided or ground down.

Weld placement is based on the style of heel shroud being used.







NOTE: It is very likely that a gap condition will exist between the sides of the Heel Shroud and the bucket due to the placement on the bucket and different radii. The sides may be welded, but it is treated more as a 'close out' weld. The objective is to stop material from packing in under the shroud. If a gap condition exists increase the size of the required fillet weld (1/2", 3/4" or 1") by the size of the gap.

When the welding process has been completed, allow a slow cool down period to ambient temperature. A cool down rate of no greater than 35°F (2°C) per hour is recommended.

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7.5

WELDING GUIDE

Wear Runner Bases

WELDING WEAR RUNNER BASES
Wear Runner Bases

BE SURE TO READ ALL INSTRUCTIONS PRIOR TO STARTING ANY WELDING!

SPECIAL NOTES

Recommended Filler Material: AWS specification A5.1, class E7018, stick electrode. Stick electrodes should be kept in a heated rod oven at 250°F (120°C) prior to use. See manufacturers recommended procedures for storage and preservation of low hydrogen electrodes.

Recommended Weld Type: Stringer beads are recommended for higher strength and less distortion. The use of weave or wash beads is **NOT** recommended and should not be used. Arc strikes should be avoided or ground out.

STEP 1
Position wear runner base in desired location making sure that there is clearance around the perimeter of the base for the wear runner. The surface that the wear runner base will be welded to should be clean and free from any impurities that will affect the strength of the weld. After placement has been confirmed, preheat the base material to recommended temperatures (see **Preheat and Interpass Temperatures** section for preheat temperature ranges) and tack weld in place.

STEP 2
Weld-out for the base should begin with the slot area of the base. Deposit a 1/2" (13mm) fillet weld, all the way around (fig. 2.1).

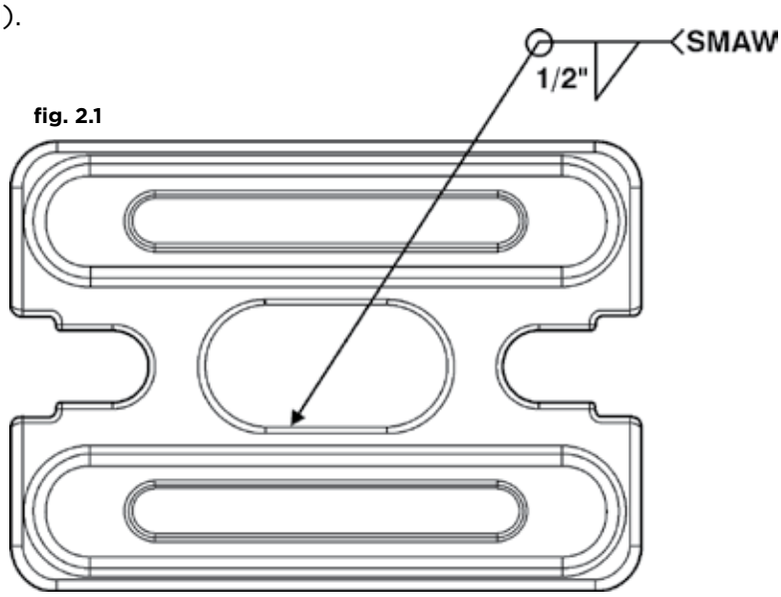


fig. 2.1

STEP 3

Apply weld to the base perimeter next (fig. 3.1). Deposit stringer beads to **fill the groove** on the base completely. Care must be taken at this point not to add too much weld (fig. 3.2). If the joint is over welded, the weld material can interfere with the installation of the Wear Runner. The concept is to deposit as much weld as possible to the base without causing interference with the seating of the Wear Runner.

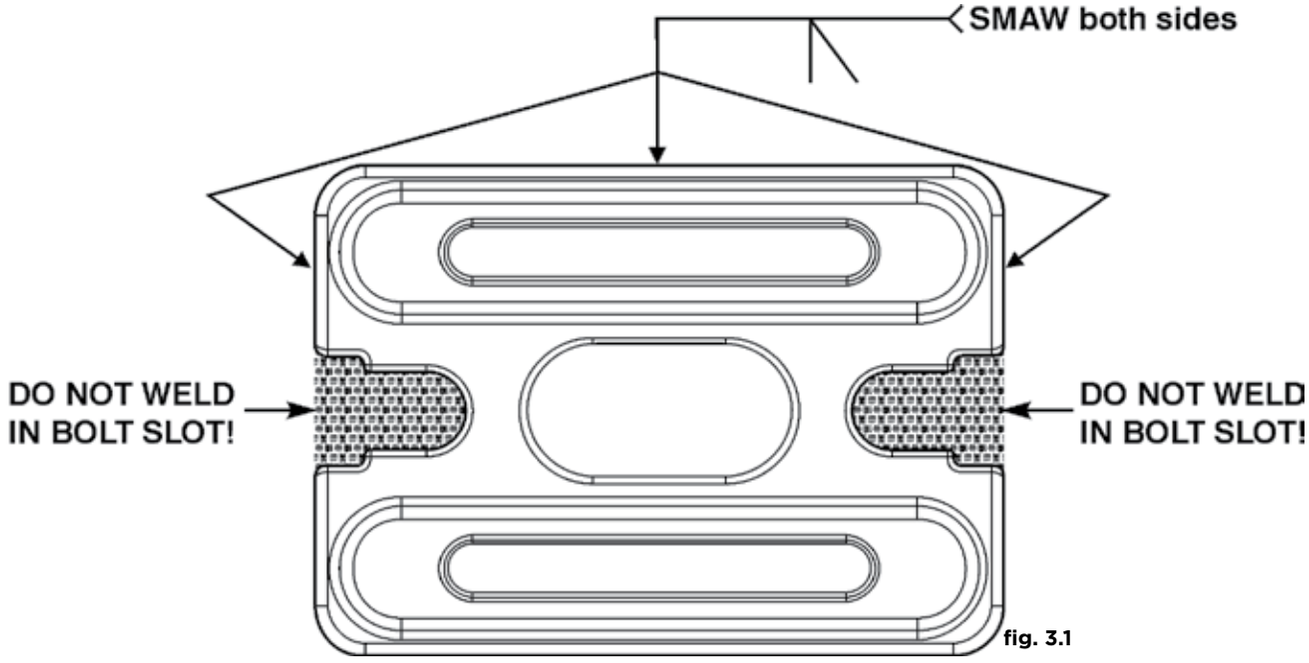


fig. 3.1

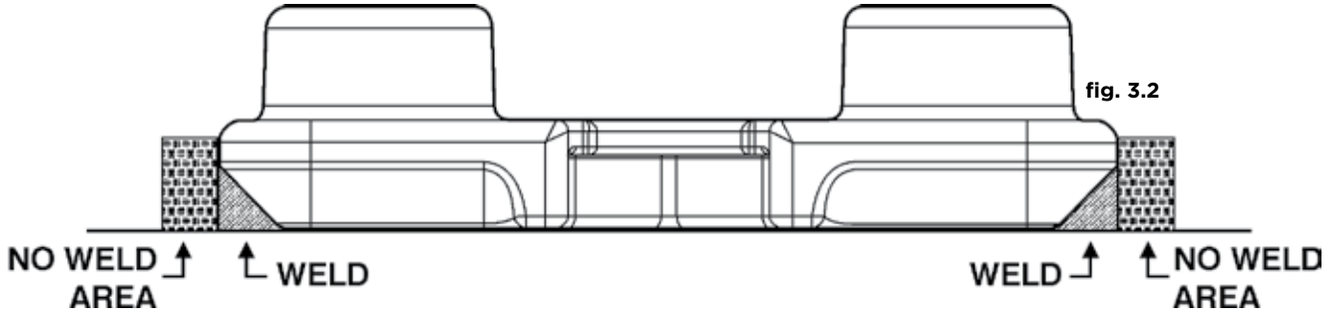


fig. 3.2

Note: When the welding process has been completed, allow a slow cool down period to ambient temperature. A cool down rate of no greater than 100°F – 130°F (38°C – 55°C) per hour is recommended.

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7.6

WELDING GUIDE

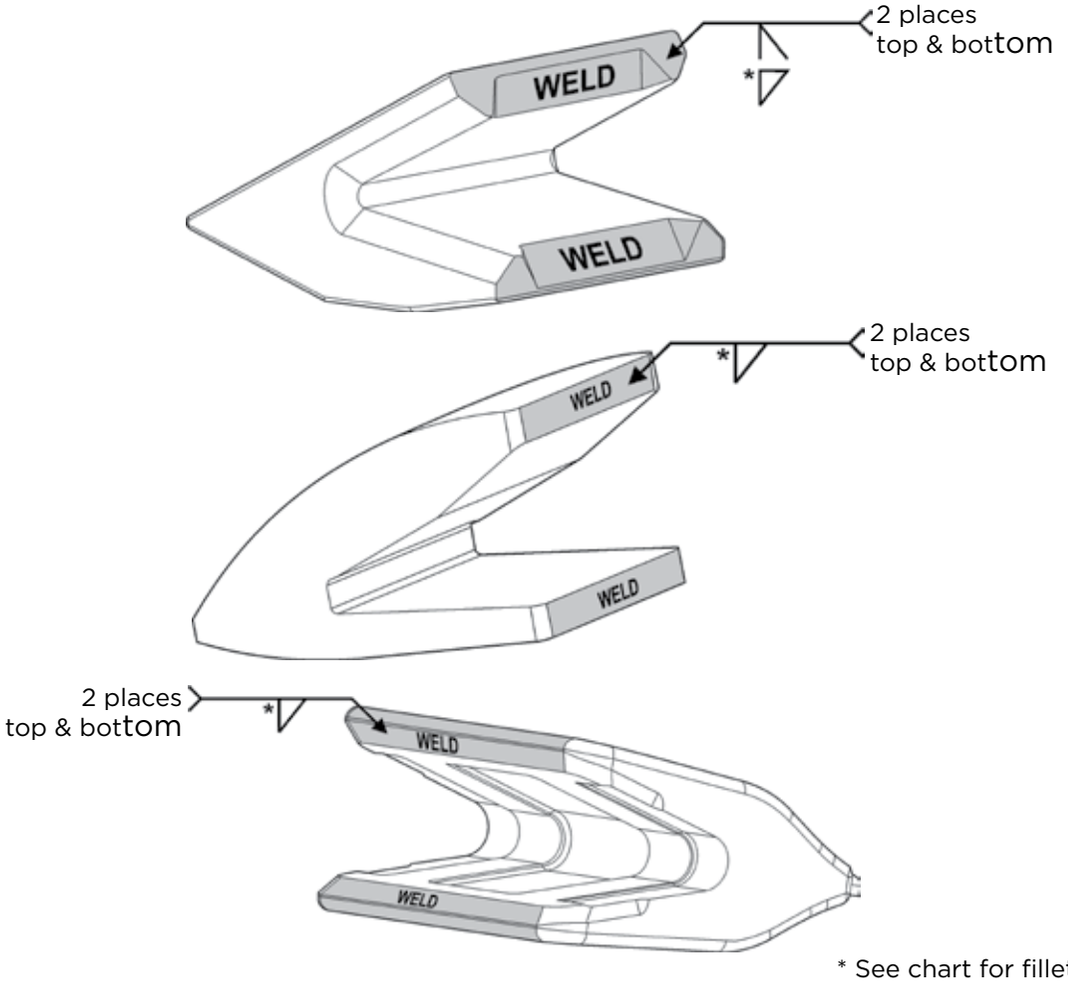
Lip Shrouds

WELDING WELD-ON LIP SHROUDS
Weld-On Lip Shrouds

BE SURE TO READ ALL INSTRUCTIONS PRIOR TO STARTING ANY WELDING!

All welding processes and filler materials listed in the 'Welding Processes' and 'Filler Materials' section of this publication are acceptable when welding these lip shrouds.

Examples of select shroud styles and deposition of weld.



* See chart for fillet weld size

Procedure for all shroud types:

STEP 1
Locate shroud in desired position.

STEP 2
Isolate preheat and tack weld.

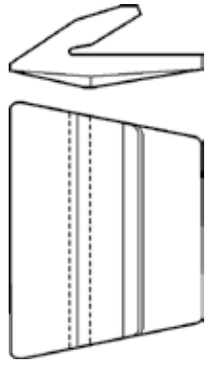
WELDING WELD-ON LIP SHROUDS CONTINUED
Weld-On Lip Shrouds

STEP 3
Fully preheat the lip material and lip shroud to recommended temperatures (see **Preheat and Interpass Temperatures** section for preheat temperature ranges).

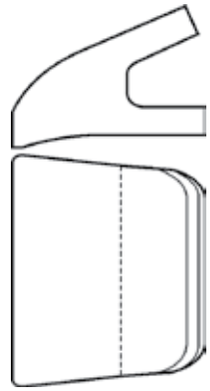
STEP 4
Complete weld-out as indicated. See chart for required fillet weld size by part number and type.

FILLET WELD SIZE					
Part Number	Type	Top Fillet Weld Size		Bottom Fillet Weld Size	
		in	mm	in	mm
10WSHX	1	3/8	9	1/2	13
13WSHX	1	1/2	13	1/2	13
14WS2HX	1	1/2	13	5/8	16
14WSHX	1	5/8	16	5/8	16
14WS-32HX	1	1/2	13	5/8	16
14WS-3230HX	1	5/8	16	5/8	16
18WSHX	1	5/8	16	5/8	16
CD-9100-B-HX	2	5/8	16	5/8	16
3000901-HX	3	3/4	19	3/4	19
3000902-HX (RH)	3	3/4	19	3/4	19
3000903-HX (LH)	3	3/4	19	3/4	19
3000904HX	3	5/8	16	3/4	19
WS90	3	3/4	19	1/2	13
WS100L	3	5/8	16	5/8	16
WS100R	3	5/8	16	5/8	16
WS140	3	3/4	19	1/2	13
WS-45*	4	1/2	13	1/2	13
WS-80*	4	5/8	16	5/8	16
WS-25	5	3/8	9	3/8	9
B70HX	5	1/2	13	3/4	19
350LS15	N/A	3/4	19	3/4	19
WS120-1950	N/A	5/8	16	5/8	16

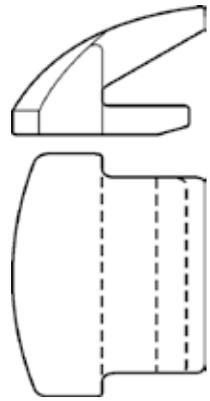
* WS-45 & WS-80 require a groove weld be applied top and bottom prior to the fillet weld being applied.



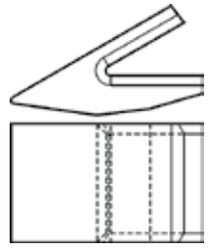
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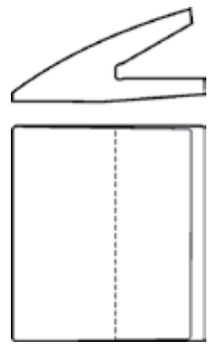
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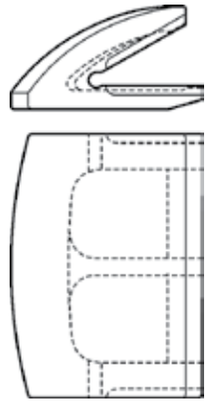
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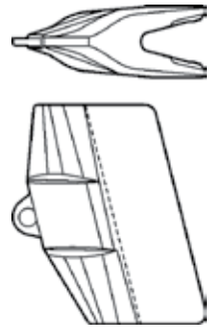
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Type 5



350LS15



WS120-1950

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7.7

WELDING GUIDE

Weld-On Noses & Nose Rebuilds

WELDING WELD-ON NOSES / XS / KMAX
Weld-On Noses

BE SURE TO READ ALL INSTRUCTIONS PRIOR TO STARTING ANY WELDING!

Note: These are general guidelines and may not be all-inclusive due to the condition of the adapter that the weld-on nose is being installed to. Sound welding techniques should always be employed.

STEP 1
Establish a 10° cut line on the adapter (fig. 1.1) per dimensions in the adjacent chart (fig. 1.2).

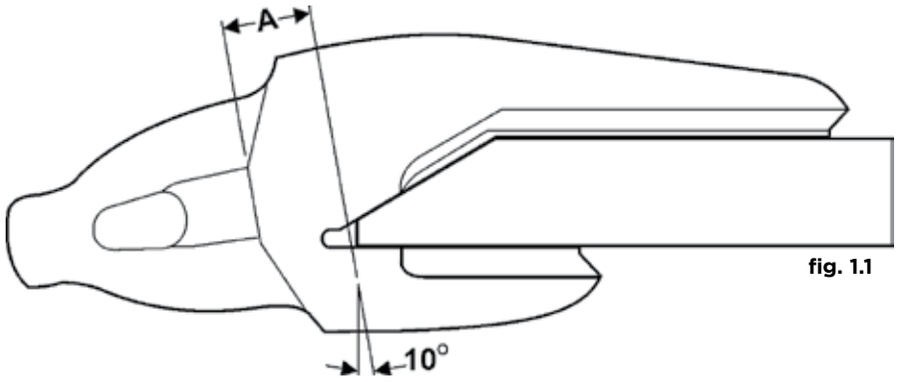


fig. 1.1

Series	A	
	in	mm
XS15 / K15	1.1	29
XS20 / K20	1.3	33
XS25 / K25	1.5	39
XS30 / K30	1.6	41
XS40 / K40	1.7	44
XS50 / K50	1.9	49
XS70 / K70	2.1	54
XS85 / K85	2.2	56
XS115	2.7	70
XS145	3.0	77
XS250	3.4	87
XS340	4.3	110

fig. 1.2

STEP 2
Remove unwanted nose by **Air Carbon Arc Gouging** (flame cutting can also be used, however the heat input will be much greater).

STEP 3
Next prepare the surfaces on the adapter and weld-on nose. They should be free from paint, scale and cutting/gouging slag. This can be achieved by grinding or sanding the surfaces clean.
The intention here is to provide a good surface for welding and to eliminate the opportunity for welding defects.

STEP 4

Locate the weld-on nose on the adapter. To properly locate the weld-on nose on the adapter it must be correctly positioned vertically (top-to-bottom) and horizontally (side-to-side). To locate the weld-on nose vertically, the centerline of the weld-on nose should be at the same height and angle as the other noses (fig. 4.1). To locate the weld-on nose horizontally, the centerline of the weld-on nose should be positioned on the centerline of the existing adapter (fig. 4.2).

Proper Vertical (top-to-bottom) location of the weld-on nose.

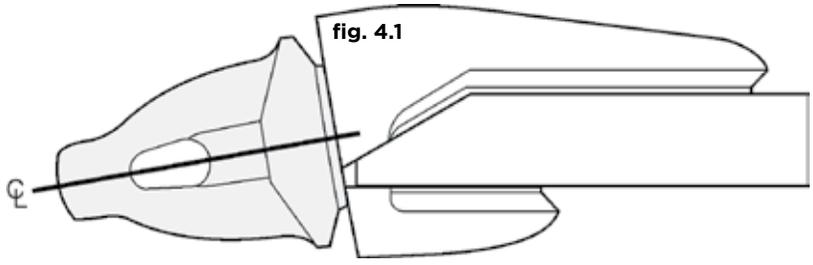


fig. 4.1

Proper Horizontal (side-to-side) location of the weld-on nose.

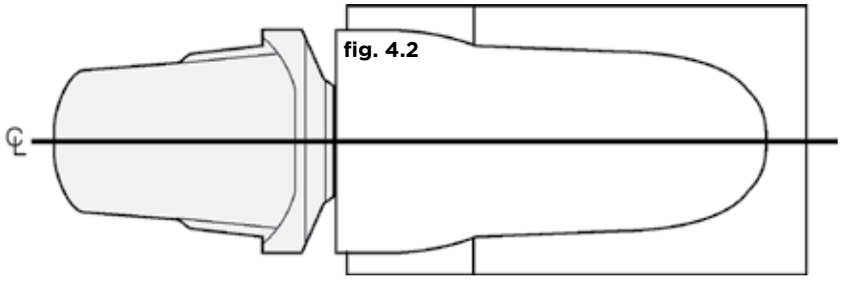


fig. 4.2

STEP 5

With the nose properly located on the adapter, isolate preheat to both sides of the nose/adapter joint and deposit tack weld on one side (fig. 5.1). Re-confirm proper placement of weld-on nose and deposit tack weld on other side (fig. 5.1). Isolate preheat top and bottom of nose/adapter joint and deposit tack weld on top side, then bottom (fig. 5.2).

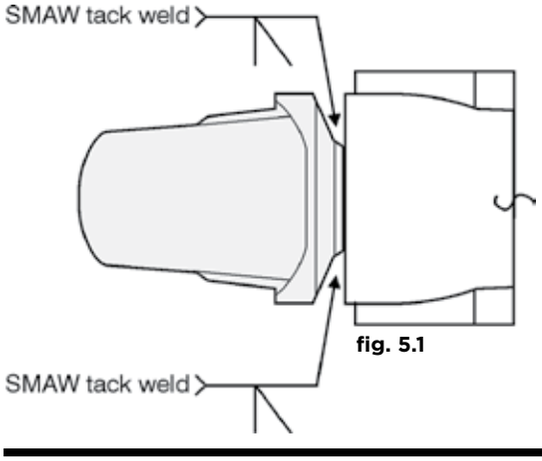


fig. 5.1

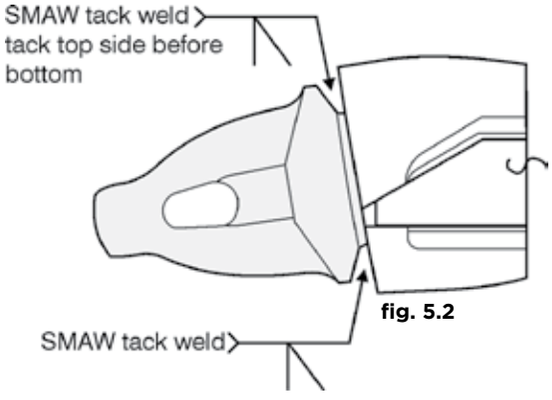


fig. 5.2

Recommended Filler Material: SMAW:
AWS A5.1, E7018
JIS Z3212, D5016

WELDING WELD-ON NOSES / XS / KMAX CONTINUED
Weld-On Noses

STEP 6
If possible, position the bucket so that the nose is in a vertical position. This will allow welding to be done in the horizontal position (fig. 6.1). If not, welding can be done in the vertical up position.

Establish a preheat of 300°F to 450°F (150°C to 230°C) to both the weld-on nose and adapter. Be sure to maintain this throughout the welding process.

Stringer beads are recommended for higher strength and to minimize distortion.

Weave width for vertical up position welding not to exceed 1/2" (12mm).

Completely remove slag after each weld pass.

Cover nose/adapter with thermal blanket for slow cool down.

Weld Finishing:
Remove any unevenness of the weld beads by grinding to create a smooth transition from nose to adapter.

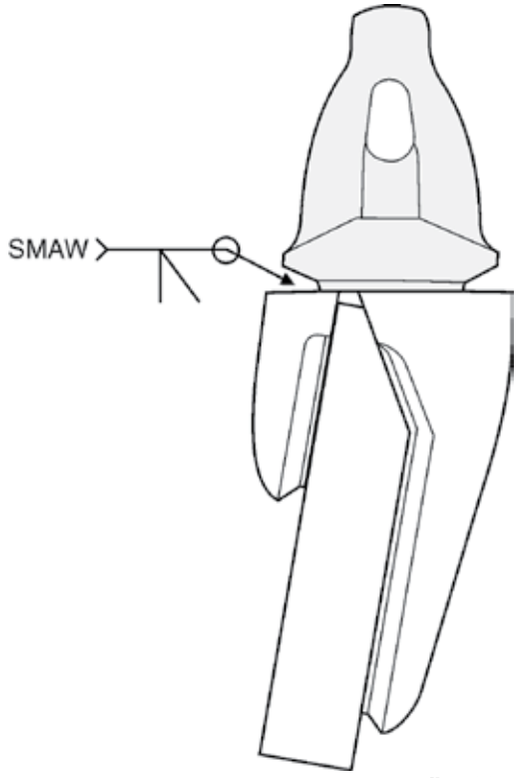


fig. 6.1

Mining Size Noses

(for machine classes over 200 tons)

BE SURE TO READ ALL INSTRUCTIONS PRIOR TO STARTING ANY WELDING!

Note: These are general guidelines and may not be all inclusive due to the condition of the adapter that the weld-on nose is being installed to. Sound welding techniques should always be employed.

SPECIAL NOTES

Recommended Filler Material: AWS specification A5.2, class E71T-1 wire for the GMAW process (preferred process). AWS specification A5.1, class E7018, stick electrode for the SMAW process (not the desired process due to the number of stops and starts within the weldment). Stick electrodes should be kept in a heated rod oven at 250°F (120°C) prior to use. See manufacturers recommended procedures for storage and preservation of low hydrogen electrodes.

Recommended Weld Type: Stringer beads are recommended for higher strength and less distortion. The use of weave or wash beads is **NOT** recommended and should not be used. Arc strikes should be avoided or ground out.

STEP 1

Remove worn nose using the Air Carbon Arc Gouging process. Care must be taken to create a “plane” for the proper nose angle, (up and down), as well as the correct distance, (front to back), for the weld-on nose. The gouged surface should be ground to remove all carbon slag and provide a clean and smooth surface for welding.

STEP 2

The weld-on nose and the base adapter should be preheated to 300°F to 350°F (150° C to 180°C). Use an infrared thermometer or temperature indicating crayons to measure temperature. This temperature should be maintained throughout the welding process. A localized pre-heat can be used for tack up purposes.

STEP3

Fit weld-on nose to required nose angle, (up and down), and front to back distance. Allow a 1/8” root opening between the weld-on nose and the base adapter and tack in place (fig. 3.1). Starter/ Run-out Tabs should be used at the top and the bottom of the weld joint (fig. 3.2 - fig 3.3).

MINING SIZE NOSES CONTINUED
Weld-On Noses

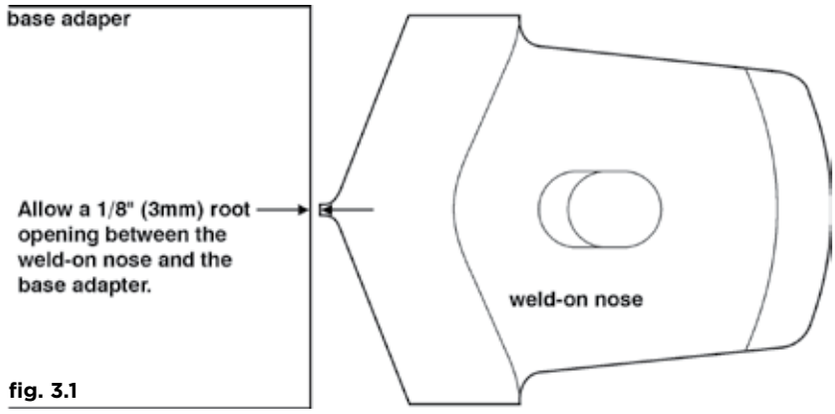


fig. 3.1

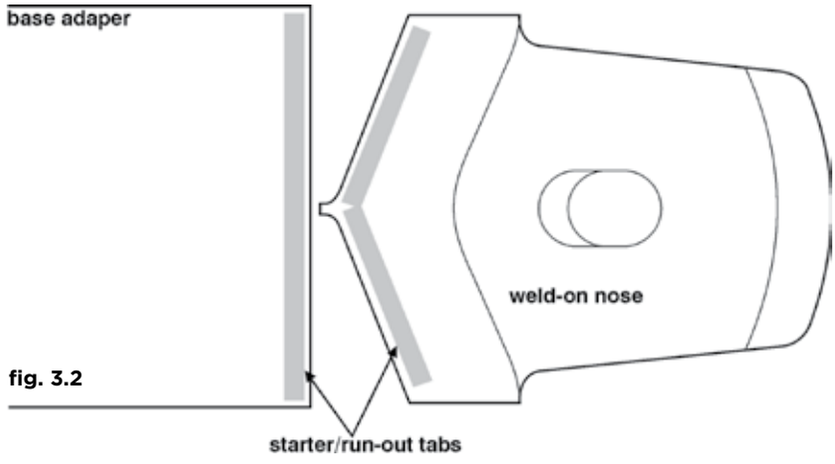


fig. 3.2

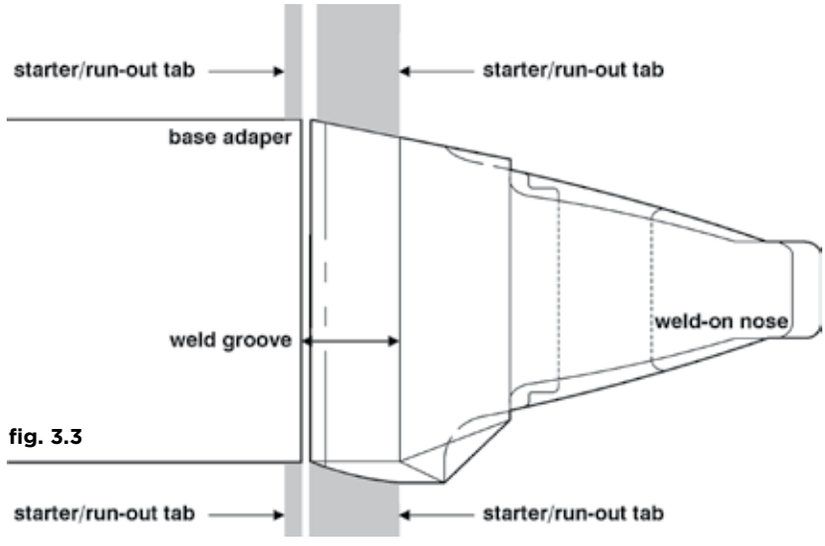


fig. 3.3

STEP 4

Weld-out: Deposit a root pass on one side of the joint. Gouge opposite side of joint and grind to insure 100% weld penetration. Deposit root pass on second side. Check nose for alignment. Alternate weld layers from one side of the joint to the other, using the weld to maintain alignment (fig. 4.1).

Note: Minor deviation from pictured sequence may be required to retain proper placement of the nose. Continue sequence until weld joint is completely filled.

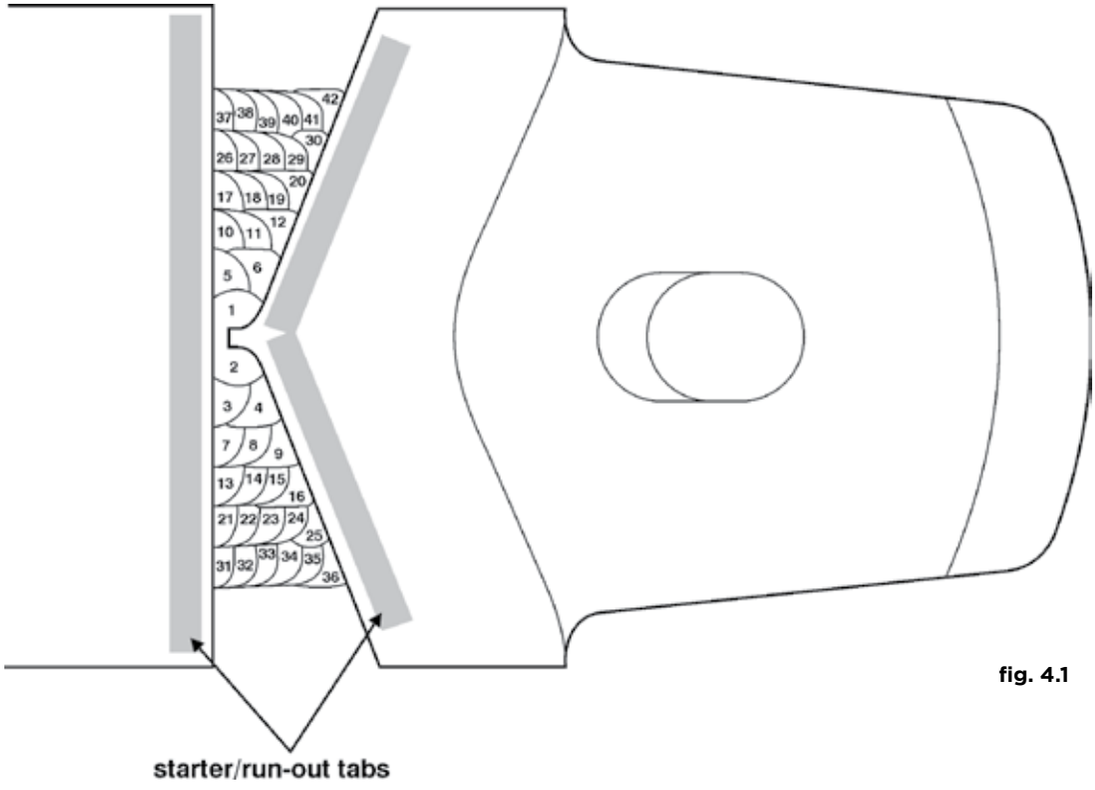


fig. 4.1

Upon completion of the welding, the entire nose and surrounding area should be wrapped in thermal blankets to slow the cooling rate.

STEP 5

Once the nose area has cooled, remove the starter/run-out tabs. Uneven weld surfaces and gouged surfaces where the starter/run-out tabs were should be ground smooth .

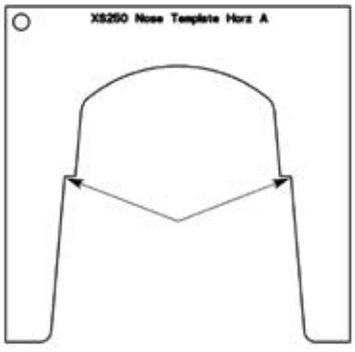
REBUILDING XS/KMAX ADAPTER NOSES
Weld-On Noses

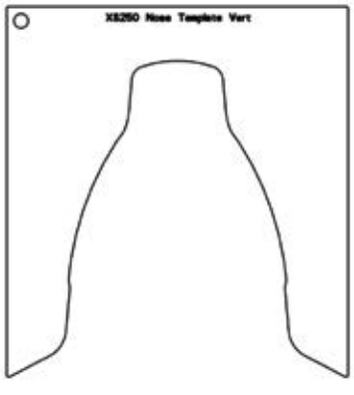
Hensley adapters with Kmax or XS noses have been developed to provide good weldability while maintaining high toughness in the 363-444 Brinell hardness range. At these high hardness ranges there is inherent danger of failure due to cracking associated with the heat affected zone of the weld. Therefore, Hensley **does not recommend** rebuilding noses on adapters. However, for those customers who still want to rebuild fit bearing areas, the following procedure is suggested.

In order to determine the extent of wear on the nose and to properly execute the repair, you will need the **HORIZONTAL** (side to side) nose gauge, the **VERTICAL** (top to bottom) nose gauge, and a ruler. Refer to gauge chart.

XS - KMAX GAUGE CHART					
Adapter Nose Series Construction Size		**Horizontal (side to side) Gauge # Construction Size**		**Vertical (top to bottom) Gauge # Construction Size**	
XS	**Kmax**	**XS**	**Kmax**	**XS**	**Kmax**
XS15	K15	XS15NTH	K15NTH	XS15NTV	K15NTV
XS20	K20	XS20NTH	K20NTH	XS20NTV	K20NTV
XS25	K25	XS25NTH	K25NTH	XS25NTV	K25NTV
XS30	K30	XS30NTH	K30NTH	XS30NTV	K30NTV
XS40	K40	XS40NTH	K40NTH	XS40NTV	K40NTV
XS50	K50	XS50NTH	K50NTH	XS50NTV	K50NTV
XS70	K70	XS70NTH	K70NTH	XS70NTV	K70NTV
XS85	K85	XS85NTH	K85NTH	XS85NTV	K85NTV
XS Mining Size Noses		**Mining Size**		**Mining Size**	
XS115		XS115NTH		XS115NTV	
XS145		XS145NTH		XS145NTV	
XS250		XS250NTH		XS250NTV	
XS340		XS340NTH		XS340NTV	

Examples of Horizontal and Vertical templates.





On a properly repaired nose, this notch will be even with the top of the pin hole.

STEP 1
Remove tooth. Refer to proper 'Owner's Guide' for removal instructions.

STEP 2
Clean nose exterior and pin hole. All surfaces must be clean and free of any dirt, mud, fines, etc. This will insure proper measurements and provide a good surface for welding.

REBUILDING XS/KMAX ADAPTER NOSES CONTINUED
Weld-On Noses

STEP 3
Place the **Horizontal Template** on the nose and measure the gap between the nose and gauge in the areas indicated (fig. 3.1). Place the **Vertical Template** on the nose and measure the gap between the nose and gauge in the areas indicated (fig. 3.2). If gap measured is greater than what is listed in the Gap Chart (fig. 3.3), nose rebuilding should be considered.

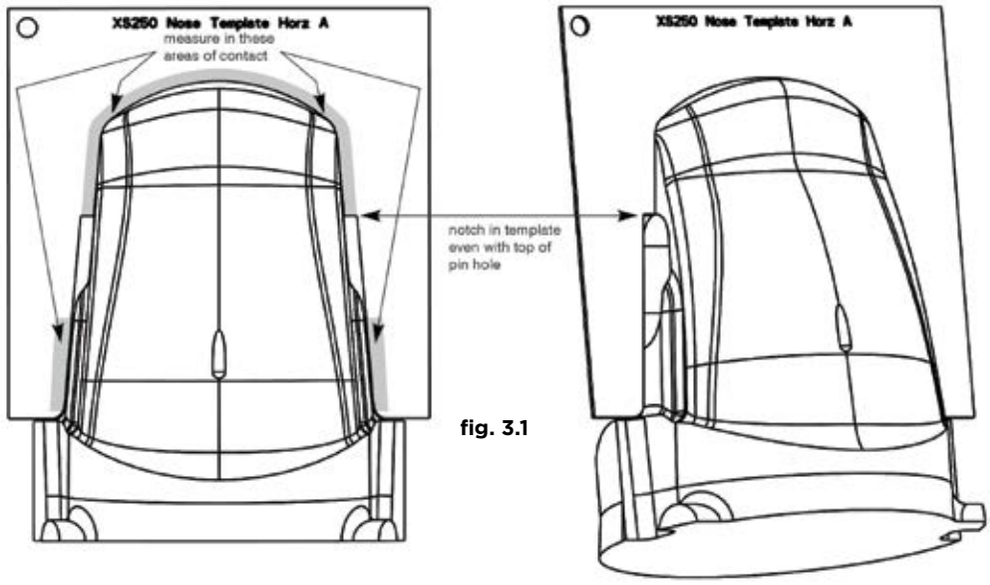


fig. 3.1

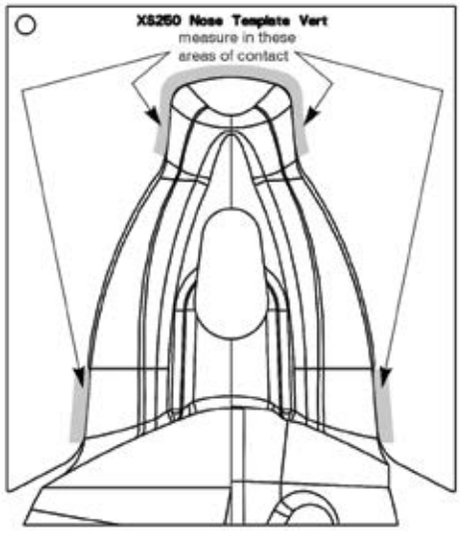


fig. 3.2

XS - KMAX GAP CHART

Adapter Nose Series Construction Size		Maximum Horizontal (side to side) Gap Distance Construction Size		Maximum Vertical (top to bottom) Gap Distance Construction Size	
XS	**Kmax**	**in**	**mm**	**in**	**mm**
XS15	K15	0.06	1.6	0.06	1.6
XS20	K20	0.06	1.6	0.06	1.6
XS25	K25	0.06	1.6	0.06	1.6
XS30	K30	0.06	1.6	0.06	1.6
XS40	K40	0.06	1.6	0.06	1.6
XS50	K50	0.09	2.4	0.09	2.4
XS70	K70	0.09	2.4	0.09	2.4
XS85	K85	0.09	2.4	0.09	2.4
Mining Size Noses		**Mining Size**		**Mining Size**	
XS115		0.09	2.4	0.09	2.4
XS145		0.09	2.4	0.09	2.4
XS250		0.09	2.4	0.09	2.4
XS340		0.09	2.4	0.09	2.4

fig. 3.3

REBUILDING XS/KMAX ADAPTER NOSES CONTINUED
Weld-On Noses

STEP 4
If it has been determined that the nose will be rebuilt, it must be preheaated prior to depositing any weld. Preheat the nose to between 300 F to 400°F (150°C to 204°C). Temperature should be measured with a temperature indicating crayon or an infrared thermometer.

Due to the shape of the nose, an all position stick electrode or wire is recommended using the filler material listed in the chart below.

FILLER MATERIALS			
Process	**AWS**	**JIS**	**Shielding Gas**
SMAW	E9018 AWS A5.5	JIS Z3212 D5816	N/A
FCAW	E91T-1 AWS A5.29	JIS Z3313 YFL-A506R	75%Ar / 25% CO2

To save time and reduce the possibility of weld induced defects, weld build up is applied only to the critical “fit” areas of the nose (figs. 5.1, 5.2 & 6.1).

STEP 5
After preheat has been established, deposit stringer beads to a width of 3/4" (19mm) on the front and the sides (figs. 5.1 & 5.2). Slightly over-deposit so that the weld extends just beyond the level shown by the gauge. The crown of the weld bead may be flattened by hammering, while still hot. Much care should be taken to ensure that the weld on the sides is **Not** deposited into the pin hole. Any weld or weld spatter that is found in the pin hole, should be carefully removed with a carbide burr or other suitable tool.

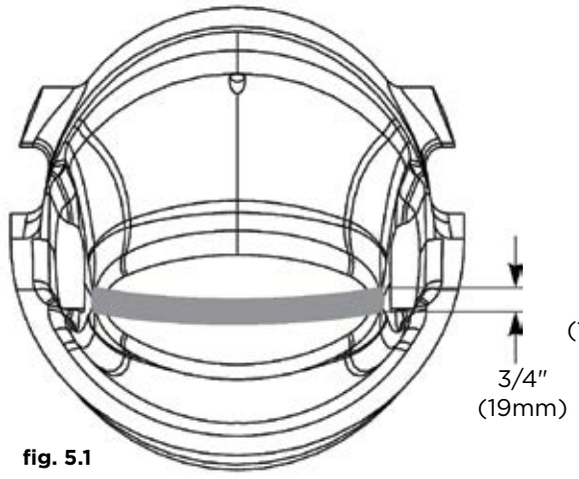


fig. 5.1

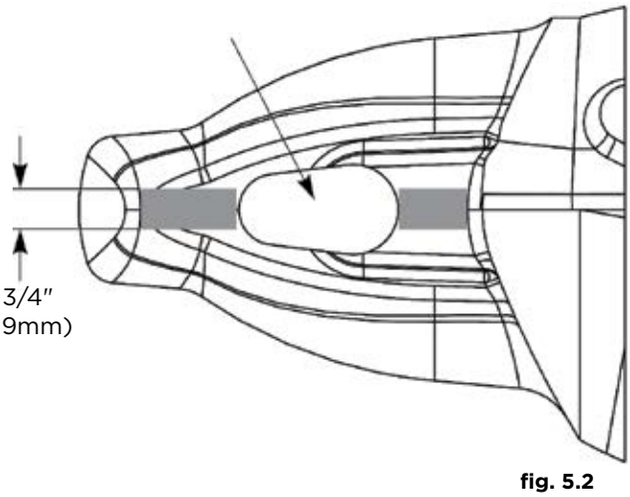


fig. 5.2

REBUILDING XS/KMAX ADAPTER NOSES CONTINUED
Weld-On Noses

STEP 6
Deposit stringer beads to a width of 3/4" (19mm) on the top and bottom of the nose (fig. 6.1). Again, the high crown of the weld bead may be flattened by hammering, while still hot.

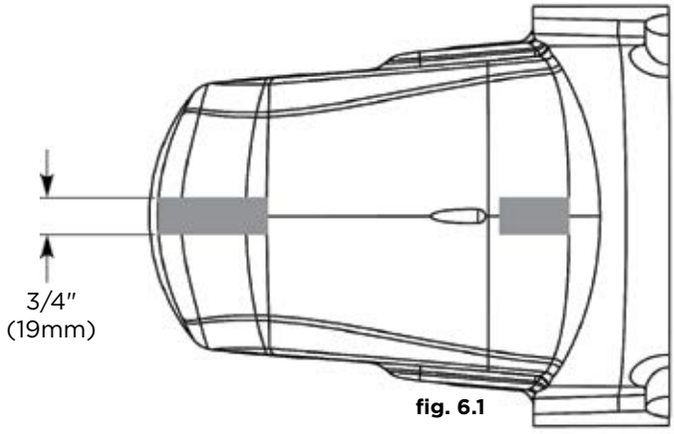


fig. 6.1

STEP 7
Grind weld beads so that the **Horizontal** template fits over the nose and the notch in the template lines up with the **TOP** of the pin hole (fig. 7.1). Top and bottom are ground to accept the **Vertical** template (fig. 7.2). Minor adjustments in fit may be achieved by peening. Once the nose has been ground/peened to accept both templates, check fit the nose with an actual tooth. Insert tooth pin and turn to the locked position. The locking tag of the pin should turn freely. Refer to 'Owner's Manual' for tooth/pin installation and removal procedures.

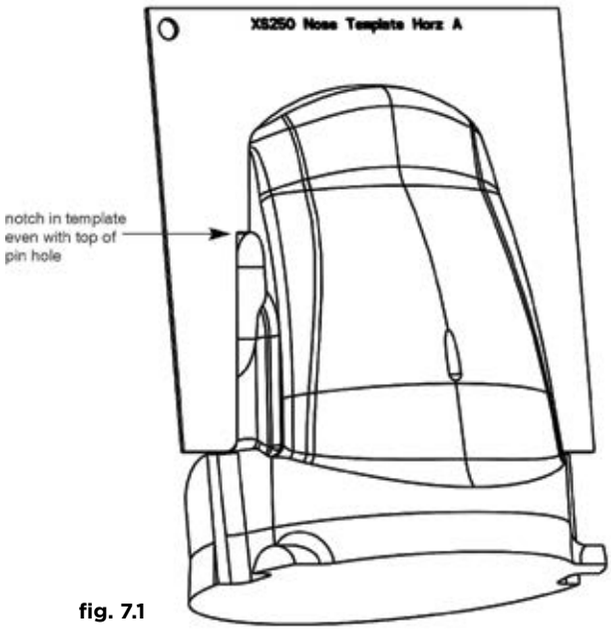
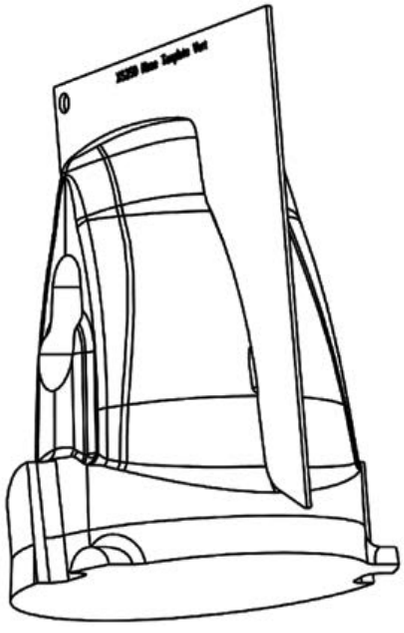


fig. 7.1


fig. 7.2

REBUILDING XS/KMAX ADAPTER NOSES CONTINUED
Weld-On Noses

STEP 8
For additional stability between the nose and the tooth, weld dots may be added in the locations pictured (fig. 8.1). Due to the location of the weld dots, their height cannot be gauged with a template. Care should be taken so as not to over grind and render the dots useless or left too high and cause the tooth not to seat properly. Fit check nose with tooth to ensure proper fit.

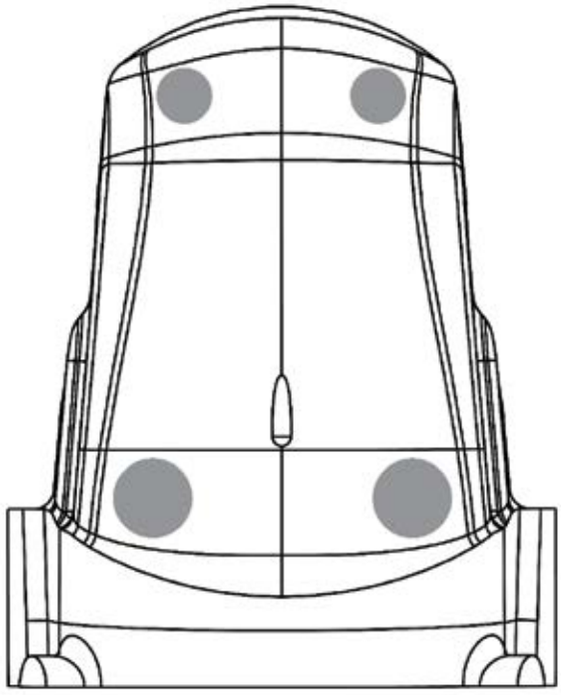


fig. 8.1

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7.8

WELDING GUIDE
Cast Lip, Lip Shroud Area Gauging and Rebuilding

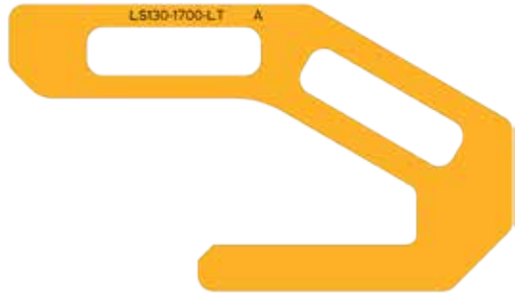
Lip Shroud Area Gauging and Rebuilding

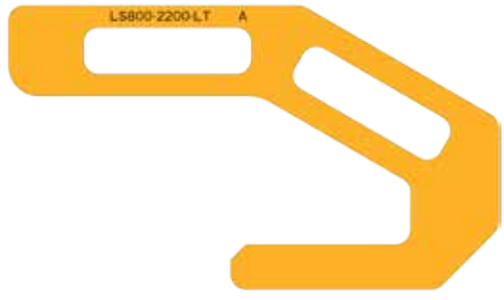
It may periodically become necessary to rebuild worn blunt fit pads in the lip shroud area to Hensley specifications. The rebuilding of blunt fit pads back to within specifications helps insure an acceptable fit. This will help prevent premature failure of the lip shrouds and possibe damage to the cast lip in the lip shroud area.

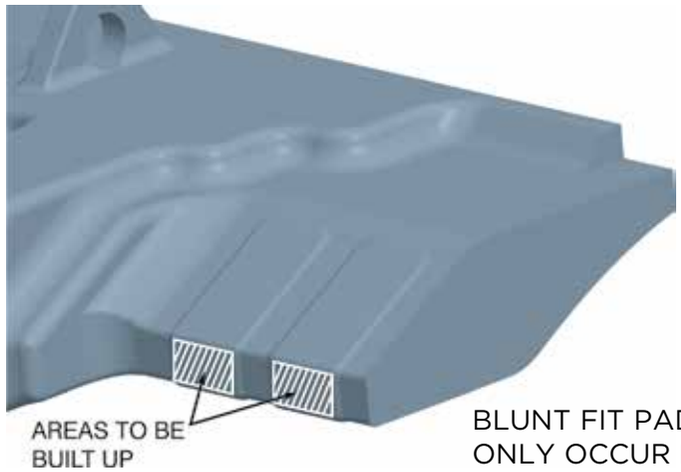
For gauging and determining if the blunt fit pads need rebuilding, you will need the following tools:

- Grinder
- Templates supplied by Hensley Industries, Inc.
- Feeler gauges (shims)
- Non-Destructive Testing "NDT" Inspection tools
- Welding equipment
- Torch
- Temperature indicating crayon or infrared thermometer

LIP SHROUD AREA REBUILD TEMPLATES	
Lip Part Number	**Template**
LS163XS640-5-2	LS130-1700-LT
LS169XS640-6-1	LS130-1700-LT
LS201XS800-6-1	LS800-2200-LT







BLUNT FIT PAD REBUILD SHOULD ONLY OCCUR IN THESE AREAS.

Lip Shroud Area Gauging

BEFORE STARTING GAUGING, BE SURE TO READ ALL INSTRUCTIONS THOROUGHLY!

STEP 1

Prepare the lip shroud area for gauging by:

- Thoroughly clean excess material from the lip shroud area (top & bottom).
- Check top surface area for flatness within 1/16" (1.6mm) and build-up if necessary.

STEP 2

Centering the template on the LIP SHROUD FIT PAD AREA (fig. 2-1), slide it onto the lip. Be sure to maintain contact with the top surface of the cast lip (fig. 2-2)

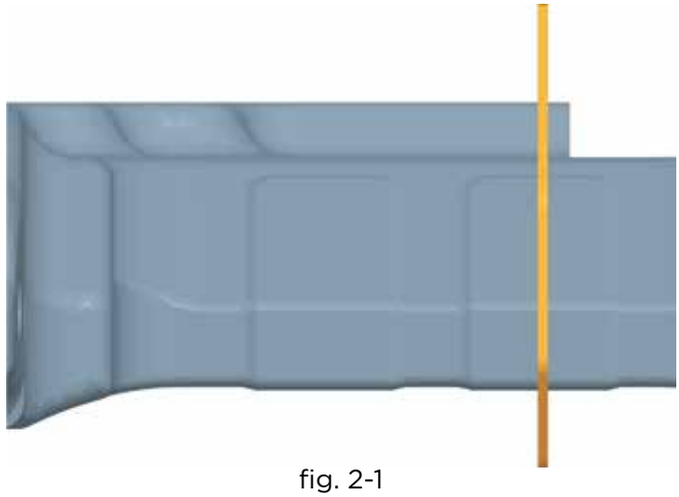


fig. 2-1

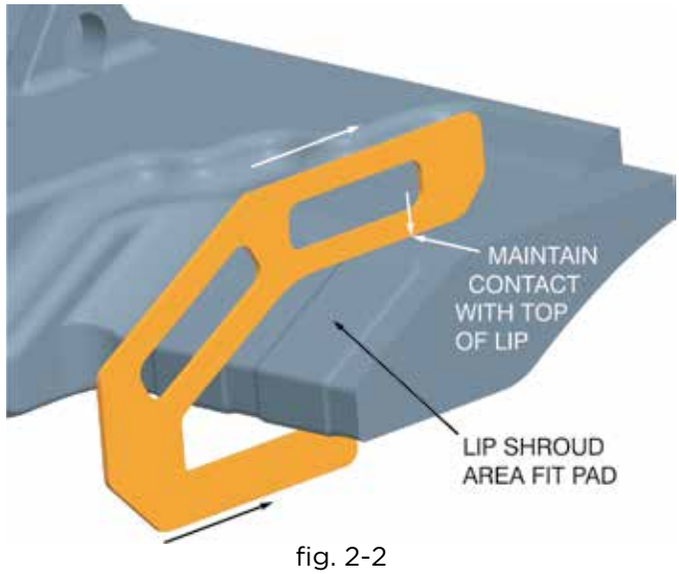


fig. 2-2

WELDING FOR CAST LIP, LIP SHROUD
Area Gauging and Rebuilding

STEP 3

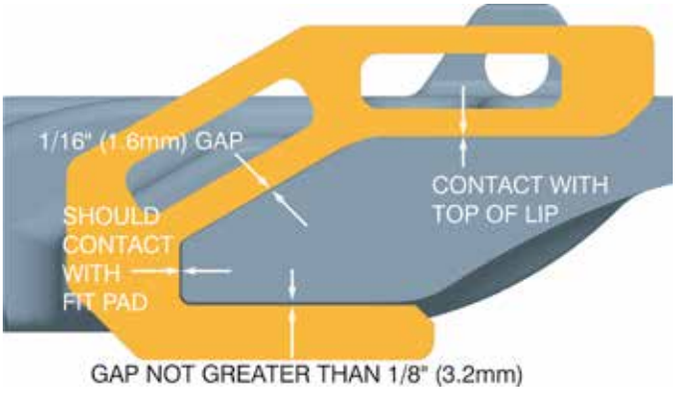


fig. 3-1

Maintaining contact with the top surface of the cast lip slide the template onto the lip until there is a 1/16" (1.6mm) gap between the bevel area of the template and the bevel area of the cast lip. There should also be a gap between the bottom of the template and the bottom of the cast lip (fig. 3-1).
Once the 1/16" (1.6mm) gap between the bevel of the lip and template is reached, check to see if the blunt of the template is contacting the blunt fit pad. If the template does not contact the fit pad, measure the gap. This measurement indicates the amount of the blunt that needs to be built up.

FOR MAXIMUM GAP TOLERANCES REFER TO GAP TOLERANCE CHART (fig. 3-2).

GAP TOLERANCES	
FIT AREA	**MAXIMUM GAP**
blunt	contact 2 points minimum
bevel	1/16" (1.6mm)
top	contact 2 points minimum
bottom	1/8" (3.2mm)

fig. 3-2

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7.9

WELDING GUIDE

Converting ESCO® Loadmaster® Lips to Accept Hensley J-Bolt Lip Shrouds

WELDING FOR CONVERTING ESCO LOADMASTER LIPS
To Accept Hensley J-Bolt Lip Shrouds

Removing Esco Toplok® Weld Base

STEP 1
To start the conversion, the Toplok® weld base (fig. 1-1) must first be removed. The weld base is welded to a riser that is part of the cast lip (fig. 1-2).



fig. 1-1



fig. 1-2



fig. 2-1

STEP 2
Before gouging the weld base, be sure to preheat (fig. 2-1) to 180˚ F (82O˚ C).



fig. 3-1

STEP 3
Gouge weld-on portion of base (fig. 3-1).

WELDING FOR CONVERTING ESCO LOADMASTER LIPS
To Accept Hensley J-Bolt Lip Shrouds

STEP 4
Gouge off the cast riser {if cast riser is present and or creates an issue with the lip shroud template} (fig. 4-1).



fig. 4-1

STEP 5
Grind the gouged area clean and smooth (fig. 5-1).



WELDING FOR CONVERTING ESCO LOADMASTER LIPS
To Accept Hensley J-Bolt Lip Shrouds

Check Lip Shroud Area for Proper Fit

It may be necessary at this point in the coversion to rebuild worn blunt fit pads in the lip shroud area to Hensley specifications. The rebuilding of blunt fit pads back to within specifications helps insure an acceptable fit. This will help prevent premature failure of the lip shrouds and possibe damage to the cast lip in the lip shroud area.

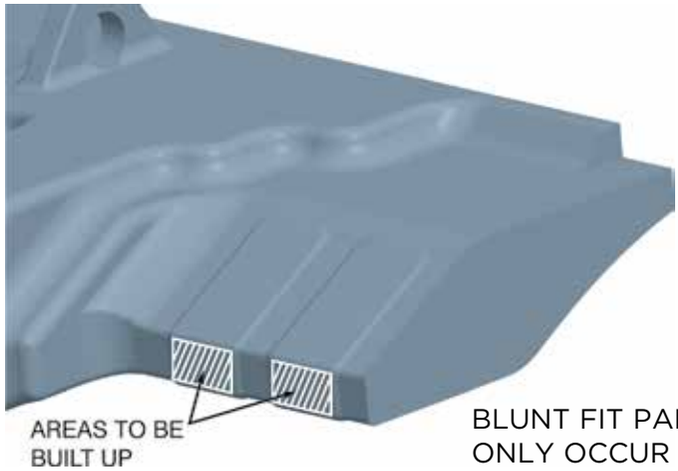
For gauging and determining if the blunt fit pads need rebuilding, you will need the following tools:

- Grinder
- Templates supplied by Hensley Industries, Inc.
- Feeler gauges (shims)
- Non-Destructive Testing "NDT" Inspection tools
- Welding equipment
- Torch
- Temperature indicating crayon or infrared thermometer

LIP SHROUD AREA REBUILD TEMPLATES	
LIP TEMPLATE	**HX LIP SHROUDS**
LS130MLT	LS130M435J
	LS130M600JBH
LS145LT	LS1451600J
	LS1452200J
LS1301700LT	LS1301700J
LS8002200LT	LS8002200J







BLUNT FIT PAD REBUILD SHOULD ONLY OCCUR IN THESE AREAS.

Lip Shroud Area Gauging

BEFORE STARTING GAUGING, BE SURE TO READ ALL INSTRUCTIONS THOROUGHLY!

STEP 1

Prepare the lip shroud area for gauging by:

- Thoroughly clean excess material from the lip shroud area (top & bottom).
- Check top surface area for flatness within 1/16″ (1.6mm) and build-up if necessary.

STEP 2

Centering the template on the LIP SHROUD FIT PAD AREA (fig. 2-1), slide it onto the lip. Be sure to maintain contact with the top surface of the cast lip (fig. 2-2)

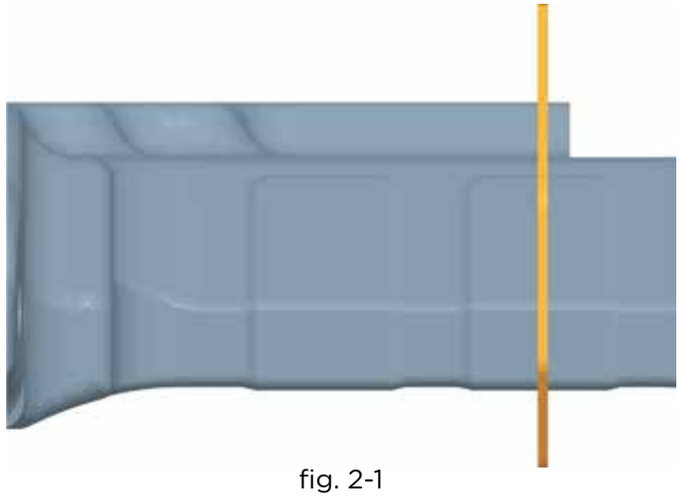


fig. 2-1

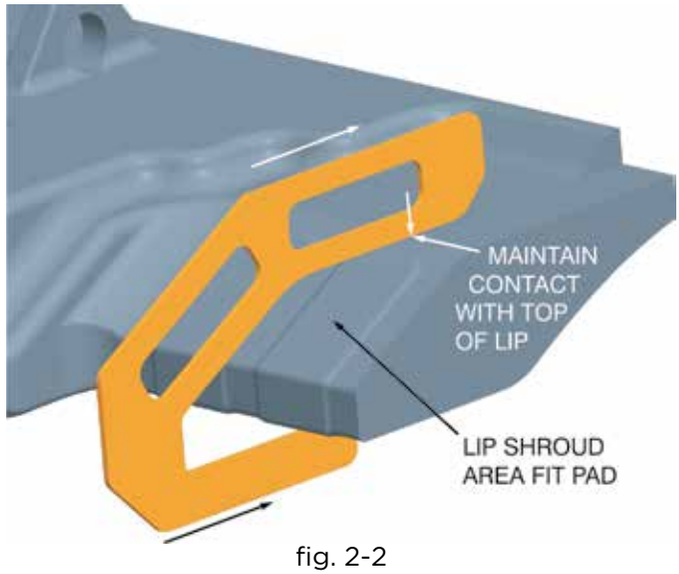


fig. 2-2

WELDING FOR CONVERTING ESCO LOADMASTER LIPS
To Accept Hensley J-Bolt Lip Shrouds

STEP 3

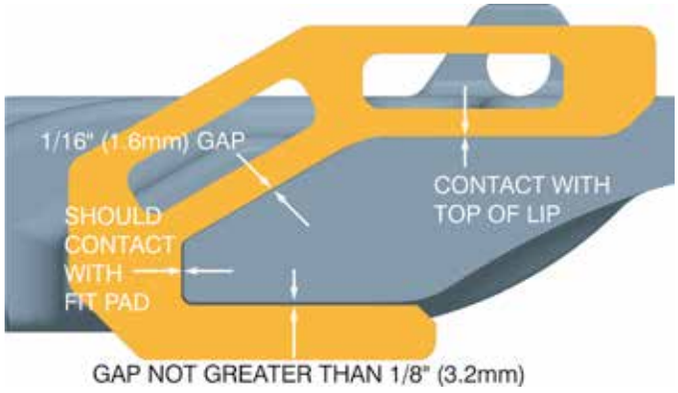


fig. 3-1

Maintaining contact with the top surface of the cast lip slide the template onto the lip until there is a 1/16" (1.6mm) gap between the bevel area of the template and the bevel area of the cast lip. There should also be a gap between the bottom of the template and the bottom of the cast lip (fig. 3-1).
Once the 1/16" (1.6mm) gap between the bevel of the lip and template is reached, check to see if the blunt of the template is contacting the blunt fit pad. If the template does not contact the fit pad, measure the gap. This measurement indicates the amount of the blunt that needs to be built up.

FOR MAXIMUM GAP TOLERANCES REFER TO GAP TOLERANCE CHART (fig. 3-2).

GAP TOLERANCES	
FIT AREA	**MAXIMUM GAP**
blunt	contact 2 points minimum
bevel	1/16" (1.6mm)
top	contact 2 points minimum
bottom	1/8" (3.2mm)

fig. 3-2

WELDING FOR CONVERTING ESCO LOADMASTER LIPS
To Accept Hensley J-Bolt Lip Shrouds

Blunt Fit Pad Build-Up

BEFORE STARTING BLUNT FIT PAD BUILD-UP, BE SURE TO READ ALL INSTRUCTIONS THOROUGHLY!

NOTE: FILLER MATERIALS RECOMMENDED FOR THE BUILD-UP OF FIT PADS ARE HIGH TENSILE STRENGTH FILLER MATERIALS. THEY ARE RECOMMENDED DUE TO THEIR SURFACE HARDNESS PROPERTIES. THEY SHOULD NOT BE USED TO WELD OTHER HENSLEY G.E.T. PRODUCTS.

NOSE BUILD-UP FILLER MATERIAL			
PROCESS	**AWS**	**JIS**	**SHIELDING GAS**
SMAW	*E9018 AWS A5.5	JIS Z3212 D5816	N/A
FCAW	*E91t-1 AWX A5.29	JIS Z3313 YFL-A506R	75% AR / 25%CO2

*Minimum tensile requirement. Higher tensile strength filler materials may be used, such as SMAW E12018 or FCAW E110T5-K4.

Preheat the fit pad to be built-up. Preheat the fit pad to between 300˚F / 150˚C to 450˚F / 230˚C and maintain this temperature throughout the welding process. Temperature may be checked with an infrared thermometer or a temperature indicating crayon.

Build up the fit pad with weld to close the gap between the fit pad and template. Stringer beads are recommended. The use of weave or wash beads should not be used, however weaving is permitted as long as bead widths are no greater than 0.50" [12.7mm].

Clean each pass of deposited weld metal before depositing the next weld pass. Manual slag hammers, pneumatic needle gun, wire brushes or any combination of these tools may be used to accomplish cleaning. Deposit slightly more weld than what is required. This will allow the fit areas to be ground smooth without any weld under fill.

Before dressing / grinding the welds. allow the fit pad to cool to ambient temperature. A cool down rate of no greater than 45˚F / 25˚C per hour is recommended.

Using the template appropriate for your lip, re-check for proper fit. Remember that the template should contact the top of the lip surface and have a 1/16" (1.6mm) gap at the bevel (fig. A-1). If this gap is achieved with the template contacting the blunt fit pad, you are ready to finish dressing / grinding the welds. Dress / grind the blunt fit pad surfaces so that they are flat and parallel to the pin hole in the nose (fig. A-2).

Grind the weld beads so that there is a smooth transition between adjoining beads and a smooth transition into the original fit pad material.

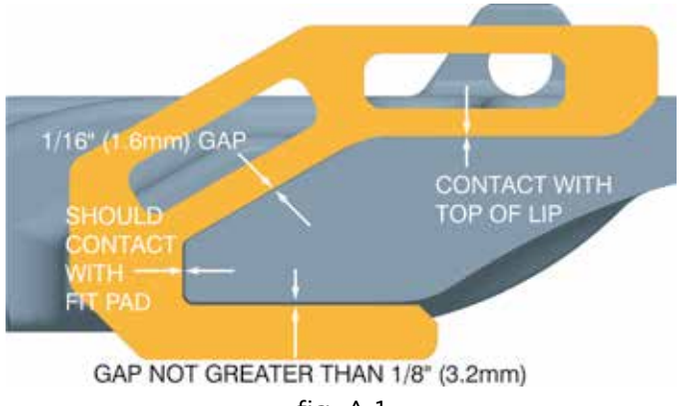
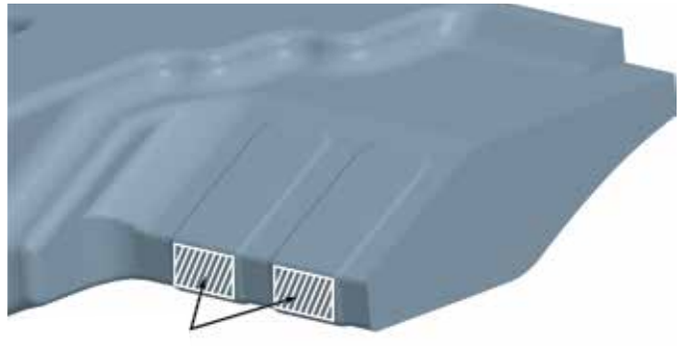


fig. A-1



CHECK THAT RE-BUILT BLUNT FIT PAD SURFACES ARE FLAT AND PARALLEL TO PIN HOLE IN NOSE

fig. A-2

WELDING FOR CONVERTING ESCO LOADMASTER LIPS
To Accept Hensley J-Bolt Lip Shrouds

Installation of Hensley Weld Base

REPLACEMENT INSTALLATION

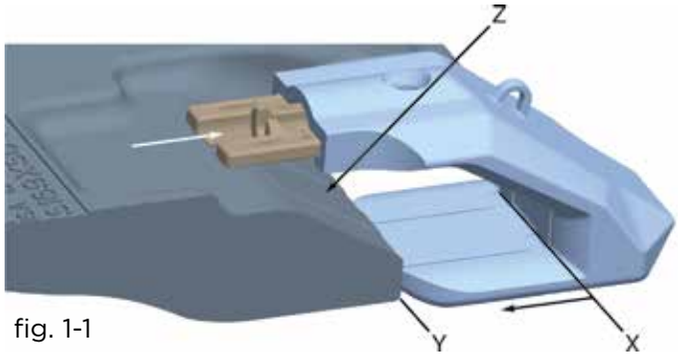


fig. 1-1

STEP 1

After having ground the top surface of the lip material that will be affected by weld, insure all carbon slag or other impurities from the removal of the old base are ground out. The use of non-destructive testing at this point will help determine if there are any cracks present in the base material. Repair base material as needed. (Now proceed as with the installation.)

1 a) Slide weld base into back of lip shroud.
1 b) Position the shroud on the cast lip making sure that the **blunt** throat surface of the shroud "X" contacts the **blunt** front surface of the lip "Y". There should be **no** contact between the bevel of the shroud and area "Z" of the cast lip (fig. 1-1).

NOTE: This contact must be maintained throughout the assembly process to insure the proper location of the weld base.

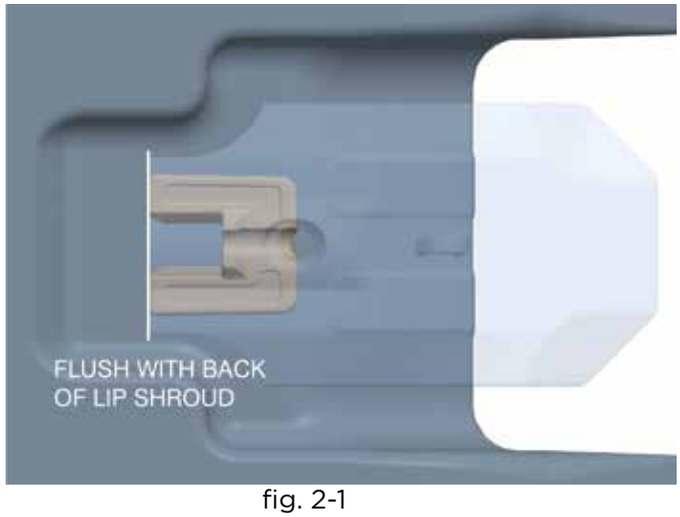


fig. 2-1

STEP 2

Align the back of the Weld base so that it is flush with the back of shroud (fig. 2-1).

WELDING FOR CONVERTING ESCO LOADMASTER LIPS
To Accept Hensley J-Bolt Lip Shrouds

STEP 3

After weld-base placement has been confirmed, establish a preheat temperature of 300°F / 150°C to 450°F / 230°C for the base material. Then tack weld the base at the rear along weld prep surface “A" (fig.3-1).

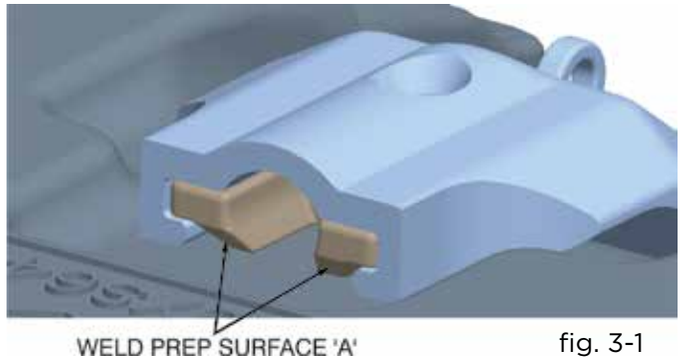


fig. 3-1

SPECIAL NOTES

Recommended filler material: AWS specification A5.1, class E7018 stick electrode. Stick electrodes should be kept in a heated rod oven at 250°F / 120°C prior to use.

NOTE: See manufacturer’s recommended procedures for storage and preservation of low hydrodgen electrodes.

Recommended weld types: Stringer beads are recommended for higher strength and less distortion.The use of weave or wash beads in **NOT** recommended and should not be used. Arc strikes should be avoided or ground down.

STEP 4

Remove the shroud and prepare to weld-out the base by re-establishing a preheat temperature of 300°F / 150°C to 450°F / 230°C for the base material (fig. 4-1). Maintain this temperature throughout the welding process.

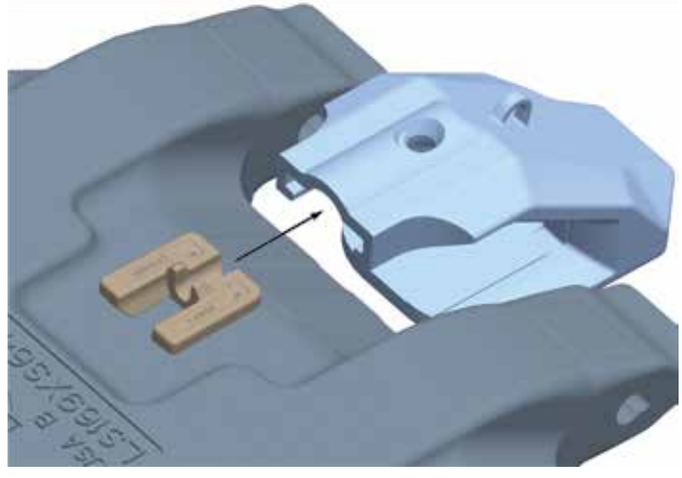
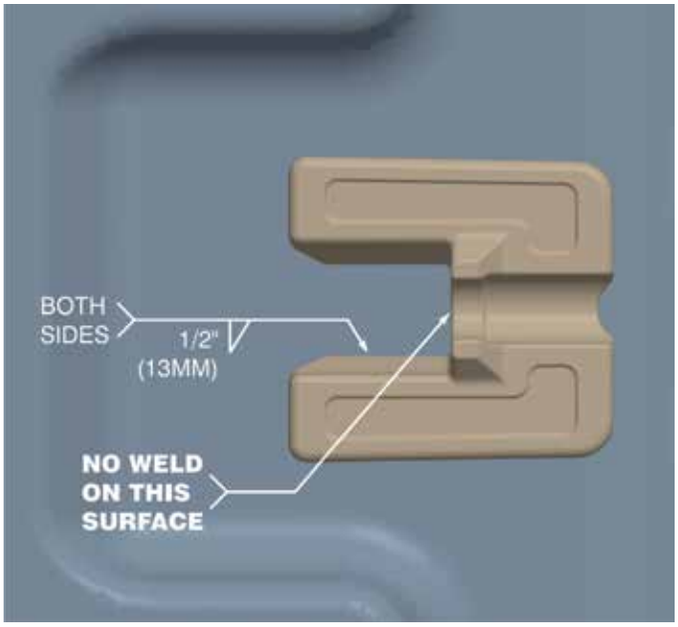


fig. 4-1

WELDING FOR CONVERTING ESCO LOADMASTER LIPS
To Accept Hensley J-Bolt Lip Shrouds



STEP 5

Weld-out for the base should begin with the inner legs of base. A 1/2" (13mm) fillet weld should be deposited in this area (fig. 5-1).

BE SURE THAT THE ENTIRE BOTTOM SURFACE OF THE WELD BASE MAINTAINS CONTACT WITH THE LIP DURING ENTIRE WELD-OUT PROCESS.

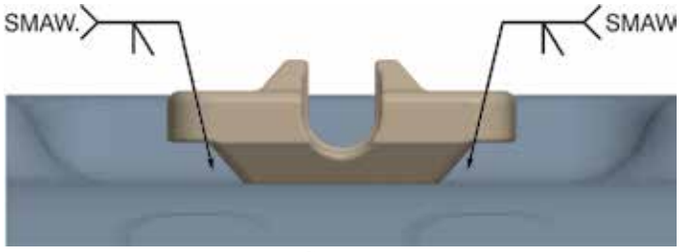


fig. 5-1

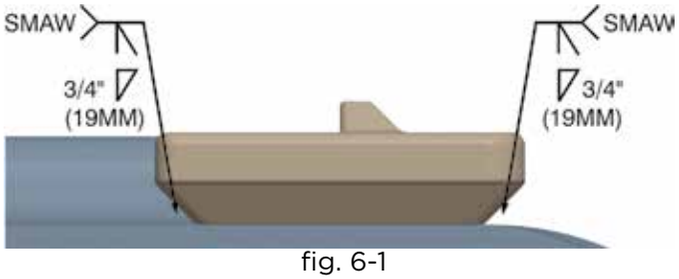
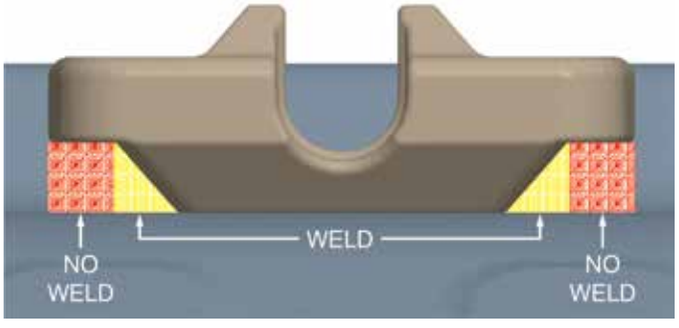


fig. 6-1

STEP 6

Apply weld to the base perimeter next. Utilizing groove welds, fill the 1.0" (25mm) weld groove on the base completely (fig. 6-1 & fig. 6-2). Care must be taken at this point not to add too much weld. If joint is over welded, the weld material can interfere with the lip shroud. The idea is to add as much weld as possible to the base without causing interference with the lip shroud (fig. 6-3). When the welding process has been completed, allow a slow cool down period to ambient temperature. A cool down rate of no greater than 45°F / 25°C per hour is recommended.



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7.10

WELDING GUIDE

Welding Terms and Definitions

WELDING GUIDE
Welding Terms and Definitions

- Air Carbon Arc Gouging – A carbon arc process that removes molten metal with a jet of air.
- American Weld Society (AWS) – A nonprofit technical society organized and founded for the purpose of advancing the art and science of welding. The AWS publishes codes and standards concerning all phases of welding.
- British Standards Institute (BSI) – A nonprofit concern. The principal object is to coordinate the efforts of producers and users for the improvement, standardization, and simplification of engineering and industrial material.
- Crater – A depression in the weld face at the termination of a weld bead.
- Defect – A discontinuity or discontinuities that by nature or accumulated effect (for example, accumulative length of undercut not to exceed 1.5″ (38mm) over a 24″ (609mm) section of weld) render a part or product unable to meet minimum applicable acceptance standards.
- Deutsches Institute fuer Normung (DIN) – German Standard
- Direct Current Electrode Positive (DCEP) – The arrangement of direct current arc welding leads in which the electrode is the positive pole and the workpiece is the negative pole of the welding arc.
- Discontinuity – An interruption of the typical structure of a material, such as lack of homogeneity in its mechanical, metallurgical, or physical characteristics.
- Electrode – A component of the electrical circuit that terminates at the arc, molten conductive slag, or base metal.
- Filler Material – The material to be added in making a welded joint.
- Fillet Weld – A weld of approximately triangular cross section joining two surfaces approximately at right angles to each other in a lap joint, T-joint, or corner joint.
- Flux Cored Arc Welding (FCAW) – An arc welding process that uses an arc between a continuous filler metal electrode and the weld pool. The process is used with shielding gas from a flux contained within the tubular wire electrode, with or without additional shielding from an externally supplied gas and without the application of pressure.
- Francaise de Normalisation (NF) – French Standard
- Gas Metal Arc Welding (GMAW) – An arc welding process that uses an arc between a continuous filler metal electrode and the weld pool. The process is used with shielding from an externally supplied gas and without the application of pressure.

Welding Terms and Definitions

- Japanese Industrial Standards (JIS) – The Japanese Standards Association publishes standards, including metals, welding filler materials, etc.
- Layer – A stratum of weld metal consisting of one or more weld beads.
- Overlap – The protrusion of weld metal beyond the weld toe or weld root.
- Porosity – A cavity-type discontinuity or defect formed by gas entrapment during solidification.
- Preheat – The application of heat to the work piece prior to welding cutting or gouging.
- Root – The point, shown in cross section, at which the weld metal extends furthest into a joint and intersects the base metal.
- Run-off Weld Tab – Additional material that extends beyond the end of the joint, on which the weld is terminated.
- Shielded Metal Arc Welding (SMAW) - An arc welding process with an arc between a covered electrode and the weld pool. The process is used with shielding from the decomposition of the electrode covering, without the application of pressure, and with filler metal from the electrode.
- Shielding Gas – Protective gas used to prevent or reduce atmospheric contamination of a weld, especially by oxygen and nitrogen.
- Starter Weld Tab – Additional material that extends beyond the beginning of the joint, on which the weld is started.
- Stringer Bead – A type of bead made without appreciable weaving motion.
- Tack Weld – A weld made to hold the parts of a weldment in proper alignment until the final welds are made.
- Undercut – A groove melted into the base metal adjacent to the weld toe or root and left unfilled by weld metal.
- Weld Groove – A channel in the surface of a work piece or an opening between two joint members that provides space to contain weld.
- Weld Toe – The junction of the weld face and the base metal.
- Welding Sequence – The order of making welds in a weldment.

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8

CONVERSION CHART
Inches and Millimeters

CONVERSION CHART
Inches and Millimeters

INCHES / MILLIMETERS COVERSION CHART									
FRACTIONAL INCHES - DECIMAL INCHES - MILLIMETERS									
Fraction of Inch			Decimal of Inch	Decimal Millimeters	Fraction of Inch			Decimal of Inch	Decimal Millimeters
		1/64	0.0156	0.3969				0.5118	13.0000
	1/32		0.0313	0.7938			33/64	0.5156	13.0969
			0.0394	1.0000		17/32		0.5313	13.4938
		3/64	0.0469	1.1906			35/64	0.5469	13.8906
1/16			0.0625	1.5875				0.5512	14.0000
		5/64	0.0781	1.9844	9/16			0.5625	14.2875
			0.0787	2.0000			37/64	0.5781	14.6844
	3/32		0.0938	2.3813				0.5906	15.0000
		7/64	0.1094	2.7781		19/32		0.5938	15.0813
			0.1181	3.0000			39/64	0.6094	15.4781
1/8			0.1250	3.1750	5/8			0.6250	15.8750
		9/64	0.1406	3.5719				0.6299	16.0000
	5/32		0.1563	3.9688			41/64	0.6406	16.2719
			0.1575	4.0000		21/32		0.6563	16.6688
		11/64	0.1719	4.3656				0.6693	17.0000
3/16			0.1875	4.7625			43/64	0.6719	17.0656
			0.1969	5.0000	11/16			0.6875	17.4625
		13/64	0.2031	5.1594			45/64	0.7031	17.8594
	7/32		0.2188	5.5563				0.7087	18.0000
		15/64	0.2344	5.9531		23/32		0.7188	18.2563
			0.2362	6.0000			47/64	0.7344	18.6531
1/4			0.2500	6.3500				0.7480	19.0000
		17/64	0.2656	6.7469	3/4			0.7500	19.0500
			0.2756	7.0000			49/64	0.7656	19.4469
	9/32		0.2813	7.1438		25/32		0.7813	19.8438
		19/64	0.2969	7.5406				0.7874	20.0000
5/16			0.3125	7.9375			51/64	0.7969	20.2406
			0.3150	8.0000	13/16			0.8125	20.6375
		21/64	0.3281	8.3344				0.8268	21.0000
	11/32		0.3438	8.7313			53/64	0.8281	21.0344
			0.3543	9.0000		27/32		0.8438	21.4313
		23/64	0.3594	9.1281			55/64	0.8594	21.8281
3/8			0.3750	9.5250				0.8661	22.0000
		25/64	0.3906	9.9219	7/8			0.8750	22.2250
			0.3937	10.0000			57/64	0.8906	22.6219
	13/32		0.4063	10.3188				0.9055	23.0000
		27/64	0.4219	10.7156		29/32		0.9063	23.0188
			0.4331	11.0000			59/64	0.9219	23.4156
7/16			0.4375	11.1125	15/16			0.9375	23.8125
		29/64	0.4531	11.5094				0.9499	24.0000
	15/32		0.4688	11.9063			61/64	0.9531	24.2094
			0.4724	12.0000		31/32		0.9688	24.6063
		31/64	0.4844	12.3031				0.9843	25.0000
1/2			0.5000	12.7000			63/64	0.9844	25.0031
					1			1.0000	25.4000

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WARRANTY POLICY

Hensley Industries, Inc.

WARRANTY POLICY
Hensley Industries, Inc.

GENERAL CONDITIONS
All requests for warranty must be submitted in advance of any repairs. Requests should be documented on authorized claim forms and must be accompanied by photographs.

Parts subject to a warranty request must be retained for inspection until the claim is resolved.

Hensley reserves the right to pass final judgment on all claims for credit. Claims are subject to credit on dealer's account.

All Hensley manufactured products are wearable and expendable.

Warranties do not apply to any parts that have been subjected to misuse, improper application, neglect, accident, hardface, weld, alteration, or if not installed according to the instructions and specifications.

Warranties apply to repair or replacement of parts only. There will be no allowance for labor, machine work, downtime, loss of production, machine damage, bucket damage, loss of profit, loss of revenue or any other related expenses.

This warranty shall be the exclusive express warranty and is in lieu of all implied warranties, including the implied warranties of merchantability and fitness for a particular purpose, which are hereby disclaimed.

No agent, salesman, dealer, or any other party has the authority, either orally or in writing, to modify, add to, or delete the terms of this warranty.

KVX
Warranted 100% against breakage, for the usable life of the product.

Attachments
Buckets and attachments are warranted against defective materials and workmanship for a period of 180 days or 1,500 hours.

Claims for an outside repair source are warranted for initial repair only. Subsequent failures of outside warranty repairs are non¼warrantable.

GET
GET products are warranted against defects in material and workmanship for a period of 30 days.

Non- Hensley manufactured products
Unless stated below, Hensley extends to the buyer the warranties of the manufacturer only.

CAST LIPS
Cast lips are warranted against defective materials and workmanship under standard operating conditions for a period of 12 months or 7,000 hours, whichever come first, from initial operation after fitment.

B/S QM
Warranted for material and workmanship for 5,000 hours or 1 year from the date of delivery by dealer. Base lip is warranted against cracking, breakage of adapters and the welds of the adapters.

Effective date: 12/01/2013

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RETURN POLICY

Hensley Industries, Inc.

RETURN POLICY FOR CAST PRODUCTS AND BLADES
Hensley Industries, Inc.

(Does not apply to Attachments Division Products)
Returns must be authorized prior to shipment

A. All returns must be shipped "prepaid" to Hensley Industries, Inc. Dallas, Texas (any material shipped "collect" is subject to refusal.)

B. All returns must have a Hensley Return Material Authorization (RMA) Number. To receive a return authorization number, a request must be submitted to Hensley Industries' Customer Service Department.

C. All returns must have the Hensley RMA Number shown on your returned package with a copy of the authorization used as a packing list.

1. **Annual Dealer Return:** Any dealer may return **5%** of the previous year's net purchases in an annual "stock purification" return. Request for a return authorization number must be received by Hensley Industries **before November 30**, and can be used only one time per year. Credits issued are material credits only – no checks will be issued on credit balances. All credits issued are based on purchase price determined by quantity discount off of the list price that was effective at the time of purchase, unless purchased under specific promotional and quoted prices. Proof of purchase may be required.
   Credit will not be allowed on any material per info below:

   A. Was purchased prior to 5 years of the date of the return.
   B. Has been welded or altered in any manner.
   C. Has been used or deformed in any way.
   D. Has not been invoiced to the company making the return.
   E. Has been factory modified or made special.
   F. Has a factory supplied custom carbide overlay.
   G. Is not current revision product.

*The authorized returned material is subject to a **15%** handling charge.*

2. **Items Ordered in Error or Refused by Customer:** These items may be returned at any time in the year; however, **this type of request must be made within 60 days from the original invoice date.** They must be shipped prepaid to Hensley Industries, have a Return Material Authorization Number, ***and are subject to a 10% handling charge.*** Hensley Industries may request invoice numbers and dates for proof of purchase.

3. **Warranty Claims:** Parts sent to Dallas Manufacturing facility for **warranty inspection** must be prepaid and have an RMA Number. If credit is requested, Hensley Industries may require original invoice numbers and dates. Once approved for warranty, credit will be issued for inbound freight on all warranty claims honored. If warranty assistance is needed, please contact our Customer Service Department.

4. **Hensley Industries Shipping Error:** These will be credited at full value, with Hensley Industries incurring the return freight charges. Hensley Industries may request original invoice numbers and dates. The Return Material Authorization Number will be issued after review, and will provide specific detail on error correction.

5. **Unauthorized Dealer Returns:** Unauthorized returns will be treated as an annual dealer return, with product being credited at the price in effect 60 months prior to the return. All items are subject to the same restrictions outlined in the Annual Dealer Return. All unauthorized returns are subject to a **50%** restocking fee.

6. Hensley Industries **reserves the right to pass final judgment on all claims for credit.**

7. Any exception to the above must be negotiated on an individual basis **prior to an RMA being issued,** and strictly at the discretion of Hensley Industries.

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HENSLEY INDUSTRIES, INC.

2108 Joe Field Road
Dallas, Texas 75229
www.hensleyind.com
Phone 972-241-2321

CUSTOMER SERVICE

Phone 888-406-6262
Fax 888-241-3274

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3rd EDITION

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