



TRENCHING

Trenching and Surface Miners



Trenching and Surface Miners

At Kennametal, our commitment to your most demanding applications is unparalleled. We have a long history of helping you achieve success and a tradition of exceeding your expectations.

We remain focused on redefining and advancing the earthworks industries through our world-class solutions — delivered by professionals who are committed to the health and profitability of your enterprise.

MISSION Kennametal delivers productivity to customers seeking peak performance in demanding environments by providing innovative custom and standard wear-resistant solutions, enabled through our advanced materials sciences, application knowledge, and commitment to a sustainable environment.





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The foundation for a successful trenching and surface mining operation is built on rock-steady reliability and progress. Kennametal, the world's leading tooling and services provider, proudly introduces SOLID, our solution-focused platform that yields new levels of performance and productivity. SOLID-engineered tools deliver in the most challenging conditions. For unmatched quality, value, innovation, and application expertise, make Kennametal your SOLID choice.

New Product Innovations and Additions

With leading-edge cutting solutions for trenchers and surface miners, we keep high-value equipment running longer and performing better in demanding environments. Kennametal produces cutting systems, covering terrain levelers to microtrenchers, and everything in between. We continually strive to provide new and innovative solutions for demanding applications.



42mm (SM Series) Platform for Surface Miners

- Hardfacing improves wear protection and allows for better utilisation of carbide tip.
- Kennametal proprietary brazing technology offers improved strength.
- The thick, long LR-42 retainer is designed for quick tool changing and stabilised rotation.
- Wide collar feature protects the block and improves machine productivity.

* See pages 20–29 for details.



30mm (KRH Series) Platform Improvements

- Unique heat treatment process reduces steel wear and improves overall life.
- NB tip design provides maximum steel support and longer tool life.
- Proven TR3 retention system. Easy to use with Kennametal installation and removal tool.

* See pages 58–68 for details.



(continued)

New Product Innovations and Additions (continued)



14mm (CM Series) Platform Improvements

- New NB tip styles with different profile angles, combined with correct carbide grade, increase penetration and tool life.
 - Offers strong physical lock between steel and carbide, improving abrasion resistance.
 - Outperforms in hard and excessive impact cutting conditions.
- Uses easy-to-install/remove LR55 sleeve retainer for extended bore life.
- Wide collar provides maximum block protection.

* See pages 108–117 for details.



38/30 Platform Improvements

The RockRazor™ quick-change indexable cutting system enables use of a four-position flat spade tool for soft materials, and facilitates quick changes to carbide conicals for harder materials.

- Flexibility to easily change tool styles.
- Less time changing tools boosts machine productivity.
- Quick-change system results in less downtime.



* See pages 30–56 for details.



To maximise productivity and reduce maintenance costs, consider the following for proper tool selection:

1. Material to be cut and cutting conditions.





















2. Machine capacity and cutting parameters.



3. Effect of tooling on machine wear and tear.



			Machine Parameters			
Application Examples	Machine	Category/Type	Engine Horsepower		Excavator Size (Ton)	
			HP	KW		
Chain Trenchers <ul style="list-style-type: none">Underground networksPipelinesCablesDrainageIrrigationWater channelsFibre-optic lines		Walk Behind Trencher	12–26	9–19	—	
		Riding Trencher	25–121	19–90	—	
		Small Chain Trencher	120–350	89–261	—	
		Medium Chain Trencher	275–460	205–343	—	
		Large Chain Trencher	415–950	309–708	—	
Surface Miners <ul style="list-style-type: none">Bulk excavationLarge trenchSurface miningSite preparation		Small Surface Miner	350–963	261–718	—	
		Medium Surface Miner	600–1200	447–895	—	
		Large Surface Miner	950–1623	708–1210	—	
Wheel Trenchers <ul style="list-style-type: none">Access networksOptical ground wireUnderground cablesLong distance networksUnderground networksWater channelsAgricultural drainageIrrigationOil and gas		Micro Wheel Trencher	42–410	31–306	—	
		Rock Wheel/Rock Saw/Concrete Cutter	42–260	31–194	—	
		Large Wheel Trencher	325–540	242–403	—	
		Bucket Wheel Trencher	225–630	168–470	—	
Demolition Attachments <ul style="list-style-type: none">TrenchingRefurbishmentTunnelingDemolitionQuarryingMiningPile head cuttingExcavation workUnderwater works		Transverse Drum Cutter	10–45	7–34	0.5–15	
			55–110	41–82	5–25	
			140–190	104–142	20–55	
			210–540	157–403	30–125	
		Universal Cutter	30–40	22–30	1–10	
			60–107	45–80	8–23	
		Longitudinal Drum Cutter	40–60	30–45	3–15	
			80–100	60–75	12–40	
		Cutter Wheel	174–295	130–220	18–50	
	Chain Cutter	180–200	134–149	25–45		
Horizontal Directional Drilling <ul style="list-style-type: none">Utility installationPipeline		Horizontal Directional Drilling	—	—	—	

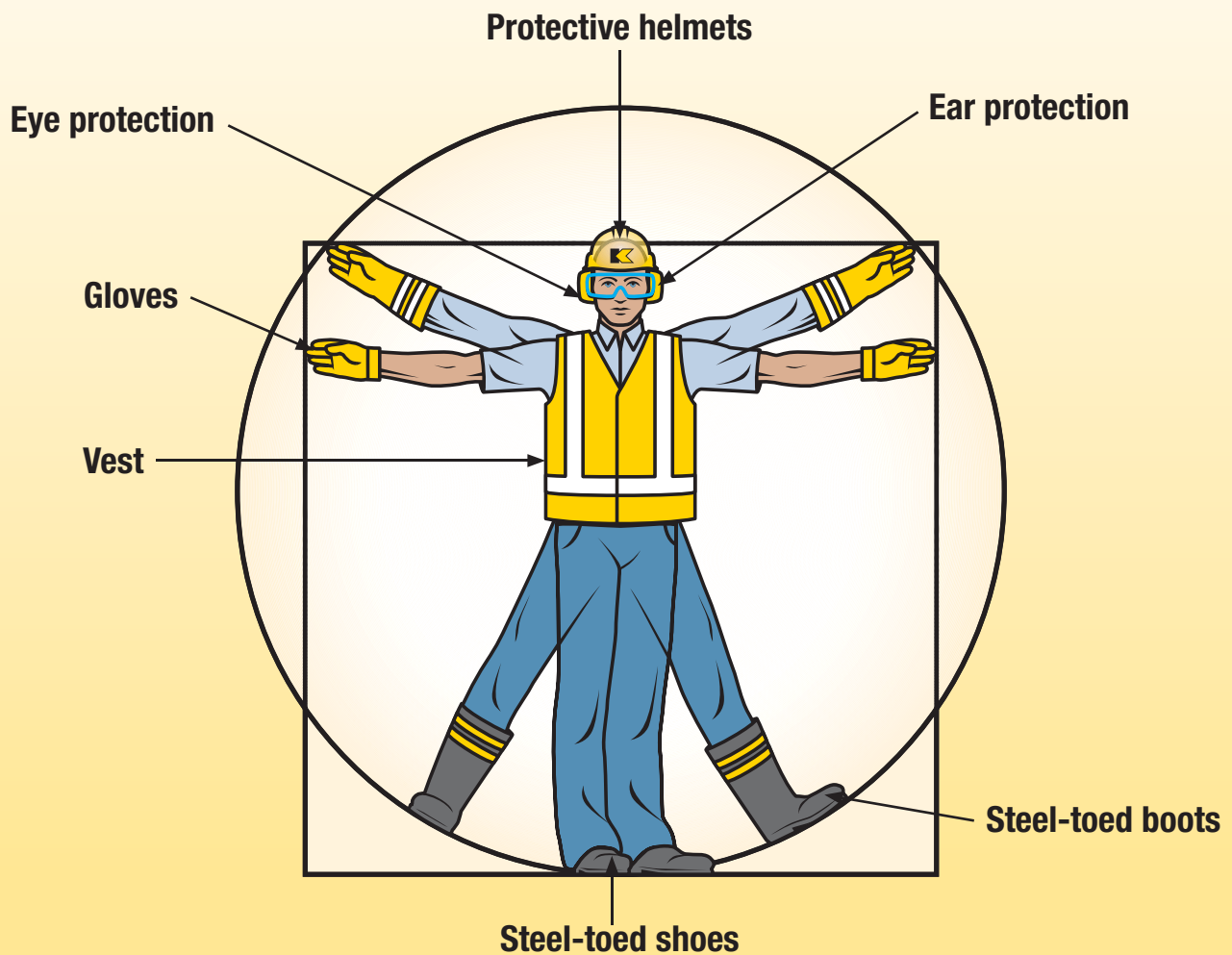
- first choice
- alternate choice

Cutting Parameters		Series	SM	TS, KSM, & FC	KRH	T & C3	SM, SL & SD	RS & C	CM	CM	
Width (mm)	Depth (mm)	Shank Size Page(s)	42mm 20-29	38/30mm 30-56	30mm 58-68	25mm 70-81	22mm 82-95	19mm-20mm 96-107	14mm 108-117	13mm-11mm 108-117 108-117	
152-203	762-1219						○	●	○		
152-610	1067-2500					○	○	●	○		
200-710	1100-2500			●		○					
711-1020	305-3660			●	○						
1060-2000	406-7320		○	●							
2200-3353	300-910		●	○							
2500-4100	300-1100		●	○							
4200-4572	650-1100		●	○							
10-130	100-533						○	○	●	○	○
65-305	455-1016						●	○	○	○	
300-900	1270-2000			○	○	●	○	○			
711-1830	1980-3040			●	○	○					
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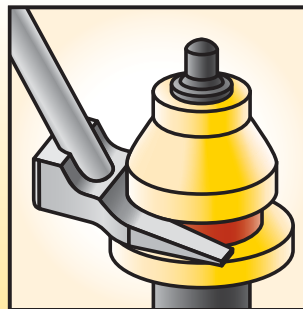
Safety Guidelines

Kennametal encourages safe use of its products to help avoid personal injury.

1. Wear-approved personal protection equipment, including eye and ear protection, steel-toed shoes, protective helmets, gloves, and a vest.



2. Make sure tools are properly seated and securely retained.



3. Exercise care when removing tools.



4. Operate all machines with safety in mind. Stand clear of machines in use, and make sure protective guards are in place.



6. Allow machine to cool and always wear protective gloves to inspect or touch conicals.



5. Do not change tools when the cutting chain, drum, or wheel is moving or still engaged.



7. Inspect tools daily. Do not use dull, cracked, burred, or bent tools.

IMPORTANT

Many injuries occur during tool change-out in construction and surface mining sites. Kennametal recommends the installer be equipped with the appropriate Personal Protective Equipment (PPE) for each task. Using Kennametal tools to install conicals is recommended. If proper tools are not used, the clip retaining strength could be weakened and could result in lost tool and machine productivity.

Best Practices to Maximise Tool Performance

If you have questions or would like more detailed advice, please contact your Kennametal Sales Engineers.



- Never reuse retainers — ALWAYS use a new retainer with each new conical.
- Replace worn-out, blunt, or dull conicals, and worn-out blocks immediately to decrease load on other machine parts.

Benefits:

- Increase productivity.

-Conicals must rotate freely in the block. If the conical is stuck, tap with brass or rubber mallet. When installing new tools, clean out the block bore to ensure conical rotates freely.

Benefits:

- Ensure uniform wear on conical.
- Keep conical sharp.



-Always maintain proper tension on trencher chain.

Benefits:

- Longer tool life.
- Increase productivity.

-Use correct tools when installing conicals — either a Kennametal recommended tool or a brass or lead-filled rubber-coated mallet. Never use a steel hammer or strike tools with metal objects.

Benefits:

- Avoid shattering or damage to carbide tip.

-Maintain proper collar diameter of the conical.
-Be sure blocks are welded at the original angle.

Benefits:

- Avoid damaging the block.
- Incorrect block placement can result in excessive wear on the conical, block, or other machine parts.



-Maintain proper gage length of the conical. Too short of a gage length can affect the width of cut and cause excessive load on other machine components.



-Make sure conicals are retained properly in the block.

Benefits:

- Avoid safety hazards.

-Do not use chains, drums, or wheels with missing conicals. This causes excessive load on other conicals and machine components.

Benefits:

- Improve productivity.



-Maintain proper RPM and feed rates as per cutting conditions.

Benefits:

- Extend tool life.
- Increase productivity.



Selecting Proper Tools and understanding wear progression.

Benefits:

- Increase tool utilisation.
- Avoid catastrophic failure.
- Maximise cutting performance.
- Reduce machine wear-and-tear.

Selecting the right tip for your machine and application

Plug

- Maximum toughness.
- Physical lock between steel and carbide.
- Conditions: hard rock, chunk rock, shot rock, mixed rock, and dirt.
- Ideal for excessive impact.



Cap

- Maximum abrasion resistance.
- Rely on braze joint strength to hold tip to steel body.
- Conditions: softer, more abrasive material.
- Helps divert material away from steel body, reducing steel wash.
- Areas with uninterrupted cuts. Will not withstand high impact.



NB – Narrow Bottom

- Combination of a cap and a plug, with superior strength and abrasion resistance.
- Conditions: excels in hard, abrasive material.



Troubleshooting



- The following chart shows typical end-of-life conditions and possible solutions to improve tool life. Please contact your Kennametal Application Expert or Representative with specific questions.

Problem	Possible Cause	Recommended Solution
 Carbide Fracture	<ul style="list-style-type: none"> Hard cutting conditions. Extreme impact. 	<ul style="list-style-type: none"> Contact your Kennametal sales Representative for a full evaluation.
 Thermal Cracking	<ul style="list-style-type: none"> Hard cutting conditions. Lack of penetration. Grinding of material not conveyed. Excessive heat generation during cutting. 	<ul style="list-style-type: none"> Contact your Kennametal sales Representative for a full evaluation.
 Excessive Carbide Wear	<ul style="list-style-type: none"> Very abrasive cutting conditions. High rotation speed. Cutting too deep. 	<ul style="list-style-type: none"> Adjust rotation and feed of machine.
 Steel Wash	<ul style="list-style-type: none"> Grinding of material not conveyed. Abrasive cutting conditions. 	<ul style="list-style-type: none"> Contact your Kennametal sales Representative for a full evaluation. NB tip, X-series, hardfacing. Increase feed.
 One-Sided Steel/ Wear on Gage	<ul style="list-style-type: none"> Conical not rotating. Misaligned blocks. Sticky cutting conditions. Worn blocks. Excess material build-up on tool. 	<ul style="list-style-type: none"> Clean the conical for foreign particles. Tap the conical. Contact your Kennametal sales Representative for a full evaluation.
 Shank Breakage	<ul style="list-style-type: none"> Worn block bore. Worn-out sleeve. Hard cutting conditions. Blunt/missing cutting tip. 	<ul style="list-style-type: none"> Contact your Kennametal sales Representative for a full evaluation.

(continued)

(Troubleshooting – continued)

Problem	Possible Cause	Recommended Solution
 <p>Shank Bending</p>	<ul style="list-style-type: none"> • Worn block bore. • Worn-out sleeve. • Hard cutting conditions. • Blunt/missing cutting tip. 	<ul style="list-style-type: none"> • Contact your Kennametal sales Representative for a full evaluation.
 <p>Broken Hub/Hub Failure</p>	<ul style="list-style-type: none"> • Worn-out block: lateral play. 	<ul style="list-style-type: none"> • Contact your Kennametal sales Representative for a full evaluation.
 <p>Retainer Failure</p>	<ul style="list-style-type: none"> • Worn-out block: lateral play. 	<ul style="list-style-type: none"> • Contact your Kennametal sales Representative for a full evaluation.
 <p>Sleeve Breakage</p>	<ul style="list-style-type: none"> • Hard cutting conditions. • Worn-out sleeves. 	<ul style="list-style-type: none"> • Contact your Kennametal sales Representative for a full evaluation.

Wear and Tooling Solutions for Your Earthworks Equipment

The Kennametal Earthworks segment serves top-tier companies across varied applications: trenching, surface mining, underground mining, quarrying, highway construction, utility construction, tunneling, recycling, forestry, agriculture, and snow removal. With our superior custom and standard cutting and wear-resistant solutions, we help our clients build and maintain best-in-class operations.

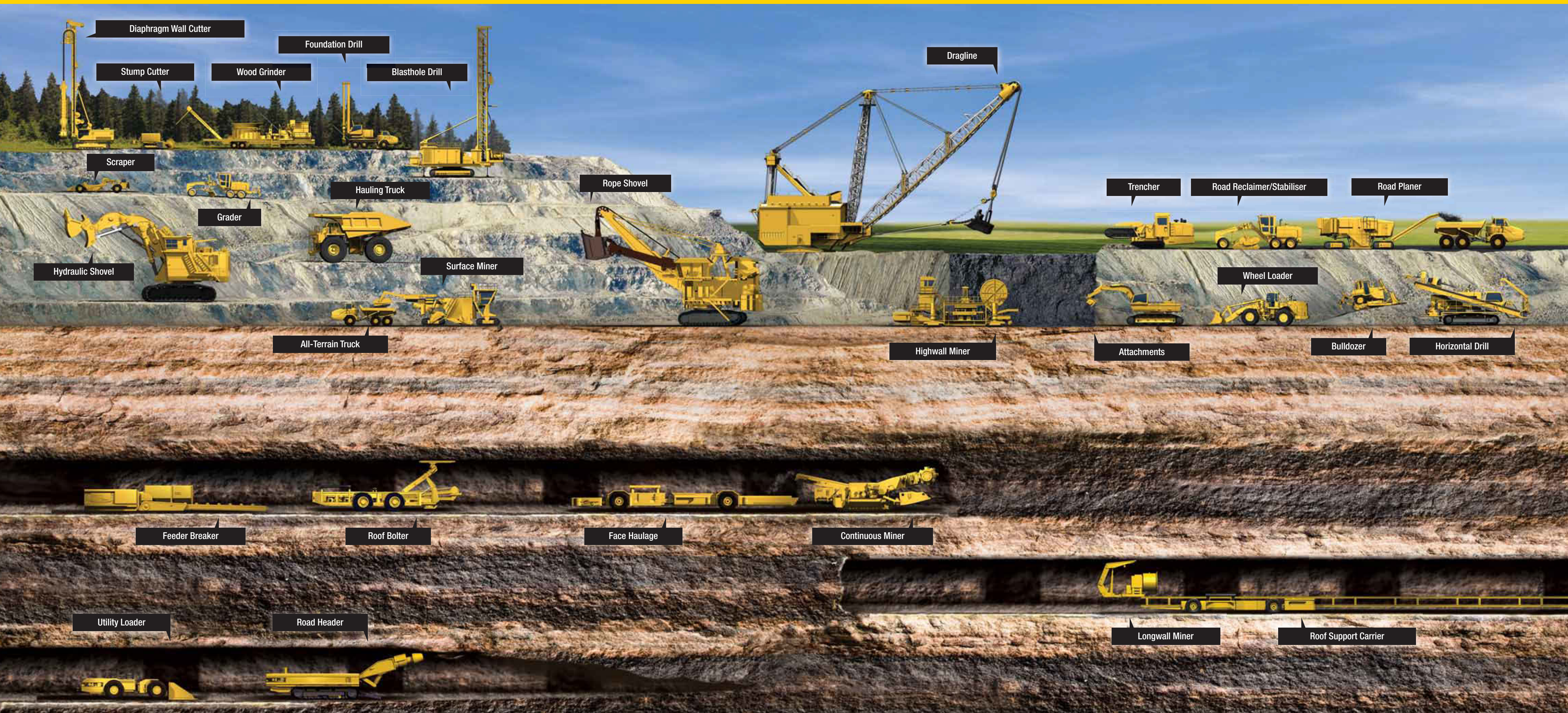
With leading-edge products, from cutter bits and holders to complete custom fabricated cutter drums, we keep high-value equipment running longer and performing better in demanding environments.

- Underground Mining
- Surface Mining
- Construction
- Specialties














FOR THE MOST DEMANDING APPLICATIONS

To learn more about our wear and tooling solutions for trenching, contact your Kennametal Representative or Authorised Kennametal Distributor today.








Underground Mining


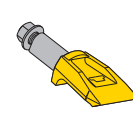



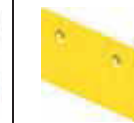
					
Longwall Miner	•		•	•	•
Continuous Miner	•		•	•	•
Highwall Miner	•		•	•	•
Road Header	•			•	•
Roof Bolter					
Feeder Breaker		•			
Face Haulage					
Utility Loader					






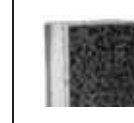
						
Longwall Miner					•	•
Continuous Miner	•	•			•	•
Highwall Miner	•	•			•	•
Road Header						
Roof Bolter			•	•		•
Feeder Breaker					•	
Face Haulage					•	
Utility Loader					•	

Surface Miner/Trenching









					
Surface Miner	•	•	•	•	•
Chain Trenchers	•	•	•	•	
Wheel Trenchers	•	•	•	•	
Demolition Tool	•	•	•	•	
Horizontal Directional Drilling	•	•	•	•	

Road Rehabilitation






						
Road Planer	•		•	•	•	•
Road Reclaimer/Stabiliser	•	•		•	•	•
Attachments	•			•		•
Bulldozer						

						
Road Planer	•	•	•	•	•	•
Road Reclaimer/Stabiliser	•	•	•	•	•	•
Attachments	•					•
Bulldozer						•

Foundation Drilling

								
Foundation Drill	•	•	•	•	•	•	•	
Diaphragm Wall Cutter					•			
Horizontal Drill								•

Forestry

					
Stump Cutter	•	•	•		•
Wood Grinder				•	•



EARTHWORKS

Underground Mining
Surface Mining
Construction

AEROSPACE & DEFENSE

Aerostructure
Aeroengines
Defense Applications

ENERGY

Oil & Gas
Power Generation
Chemical
Plastics

TRANSPORTATION

Automotive
Shipbuilding
Railroad
Heavy Vehicles

GENERAL ENGINEERING

Consumer/Household Goods
Industrial Goods
Medical
Tool, Die & Mould

Introduction — Trenching and Surface Miners

At Kennametal, we attack surface mining and trenching with a simple and direct value proposition. The right cutting systems get the job done efficiently and last longer, and more uptime means more business.

Tooling may account for only a fraction of the project cost, but it has an enormous impact on overall production efficiency, quality, and value. The right tools are paramount in improving productivity, and the right partner is just as critical.

Kennametal products are the best in the business, so maximum productivity is realised day after day, year after year. Whether it's mining a pit, digging a trench, sinking foundations, or milling a road, Kennametal people and products strive to meet your needs for successful, safe, and long-lasting production.

Focus Industries:



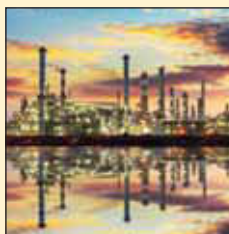
Oil and Gas



Water and Sewage/
Utilities



Electricity/
Telecommunications



Power Generation/
Energy



Agriculture










Transportation


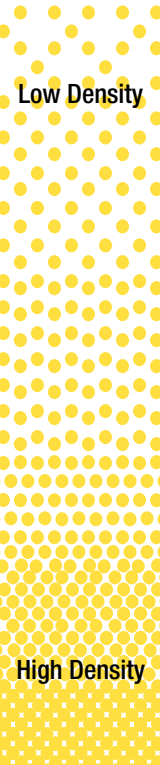






Surface Mining

Product Icons

	Pressed Contact		IH Treatment		X Treatment
	HF Treatment		Tool with Puller Groove		Retainer: External
	Retainer: Internal		High Productivity		

Cutting Condition Icons

Icons	Cutting Conditions	Description	Rock Compressive Strength Range (MPa)	Other Possible Characteristics	Rock Type Examples
	Light	Very-Soft to Soft, Poorly-Compacted, Highly-Weathered, Un-Stratified Rock	0–35	 Low Density	Soapstone, Shale, Lignite
	Medium	Soft to Medium-Hard, Weakly-Compacted, Moderately Weathered, Medium Bedded Rock	20–60		Limestone, Caliche, Bauxite, Anthracite, Marl (MudStone)
	Heavy	Medium-Hard to Hard, Moderately-Compacted, Slightly Weathered, Medium-Thickly Bedded Rock	50–100		Dolomite, Limestone
	Severe	Very Hard, Well-Compacted, Slightly Weathered, Thickly Bedded Rock	≥80		Granite, Basalt, Iron Ore (Hematite, Magnetite)
	Abrasive	Generally-High Mohs Index Scale. High Wear Condition	—	Contains Feldspar, Quartz	Sandstone

Block Selector



Catalogue Number	Order Number	Series	SM	TS, KSM, & FC	KRH	T & C3	SM, SL, & SD	RS & C	RS & C	CM	CM	CM
		Shank Size	42mm	38/30mm	30mm	25mm	22mm	20mm	19mm	14mm	13mm	11mm
		Page(s)	20-29	30-56	58-68	70-81	82-95	96-107	96-107	108-117	108-117	108-117
SM42BS*	5059532	28	•									
C4/U43H BLOCK	1011578	52		•								
TH3 BLOCK	2433922	53		•								
TH3S BLOCK	2603270	53		•								
MTB1 BLOCK	3392835	53		•								
MTB2S BLOCK	3504241	54		•								
K30S-TS SYSTEM*	3737342	54		•								
U43XHD-50 BLOCK	2988596	54		•								
U43XHD-P BLOCK	1807656	54		•								
TH3-G-INDEX BLOCK	5031746	52		•								
TH3S-G-INDEX BLOCK	5031772	52		•								
BS30.65 BLOCK	1011569	66			•							
BBS30.65H SYSTEM*	1131591	66			•							
U43XHD 30 BLOCK	1792958	66			•							
TH3-100 BLOCK	2956994	80				•						
C30H/U40H BLOCK	1011585	80				•						
C87 - G	1012234	94					•					
C87HDS - G	1012290	94					•					
C87E - G	1012365	94					•					
SLB01 - G	1858587	94					•					
C3RB BLOCK	1886760	105						•				
C10HD BLOCK	1012289	105						•				
C10 BLOCK	1012278	105						•				
C20/U43NS	1012273	104							•			
C20HD BLOCK	1012276	104							•			
CMB6	1321008	116								•		
CMB6-L	1898353	116								•		
CMB5 BLOCK	5031028	116									•	
CMB4 BLOCK	1012281	116										•

* Replaceable bushing included.

Accessories Selector



<div><div>Internal Retainer</div><div>External Retainer</div></div> <div>Retainers</div>			Installation/Removal Tools				
			Installation Tools		Removal Tools		
Retainer Type	Catalogue Number	Order Number	Catalogue Number	Order Number	Catalogue Number	Order Number	
Internal	LR-42 RETAINER	4072746	—	—	—	—	
External	HP CLIP	1304100	—	—	—	—	
External	TR3 RETAINER	4073124	<div>NEW!</div> UNIVERSAL TR3 PULLER	5500279	<div>NEW!</div> UNIVERSAL TR3 PULLER	5500279	
External	C15R RETAINER	1803295	C15R RETAINER REMOVAL TOOL	1885470	C15R RETAINER REMOVAL TOOL	1885470	
External	KR-112 BE RETAINER	4055765	KRP4 PLIER	1012047	KRP4 PLIER	1012047	
External	KR-112 BE RETAINER	4055765	KRP 1/C4 PLIER	1012010	KRP 1/C4 PLIER	1012010	
External	KR-112 BE RETAINER	4055765	KRPT1/C4 TIP	1012012	KRPT1/C4 TIP	1012012	
External	TR1-D	4065385	<div>NEW!</div> UNIVERSAL TR3 PULLER	5500279	<div>NEW!</div> UNIVERSAL TR3 PULLER	5500279	
External	C31R RETAINER	1012065	C31R REMOVER TOOL W/GRIP	1012347	C31R REMOVER TOOL W/GRIP	1012347	
Internal	LR87D SP RETAINER	3518626	—	—	C123/U50 HAMMER PULLER	1012016	
Internal	LR87 RETAINER	1011935	—	—	C123/U50 HAMMER PULLER	1012016	
Internal	LR87D SP RETAINER	3518626	—	—	KHP2 KMTL PUNCH	1012247	
Internal	LR87 RETAINER	1011935	—	—	KHP2 KMTL PUNCH	1012247	
External	SLR RETAINING RING	1817888	C21R REMOVER TOOL W/ GRIP	1012348	C21R REMOVER TOOL W/ GRIP	1012348	
Internal	U43K	1011978	—	—	C20/U43HP BIT PULLER ASSEM	1011984	
External	C21R RETAINER	1011961	C21R REMOVER TOOL W/ GRIP	1012348	C21R REMOVER TOOL W/ GRIP	1012348	
Internal	C10 RETAINER	1011965	—	—	C123/U50 HAMMER PULLER	1012016	
External	C3R RETAINER	1012120	C21R REMOVER TOOL W/ GRIP	1012348	C21R REMOVER TOOL W/ GRIP	1012348	
External	3/4 16UNF NUT	1011884	—	—	—	—	
External	M16 X 2 STOVER LOCK NUT	1080452	—	—	—	—	
Internal	LR76 RETAINER	1011942	—	—	C20/U43HP BIT PULLER ASSEM	1011984	
External	CM6L RETAINER	1595671	—	—	—	—	
External	CM6H RETAINER	1777806	—	—	—	—	
Internal	LR55 RETAINER	1890174	—	—	—	—	
Internal	LR51 RETAINER	4080877	—	—	—	—	
External	CM4 RETAINER	1012223	—	—	—	—	



	Series	SM	TS, KSM, & FC	KRH	T & C3	SM, SL, & SD	RS & C	RS & C	CM	CM	CM
	Shank Size	42mm	38/30mm	30mm	25mm	22mm	20mm	19mm	14mm	13mm	11mm
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NOTE: For highlighted series, use the K150 PAD COATED PULLER for conical removal.
For more information, refer to page 56.



42mm Cutting Systems

Surface Miner and Terrain Leveler

More than Scratching the Surface

With blasting, you spend valuable resources cleaning up. With surface miners, you have more control, which quickly translates into lower costs, greater efficiencies, and most importantly, fewer safety concerns.

Kennametal's surface miner cutting system includes drums, cutting teeth, blocks, and accessories. With these industry-leading products, we keep you productive in the most demanding environments.

Small Surface Miner



Large Surface Miner



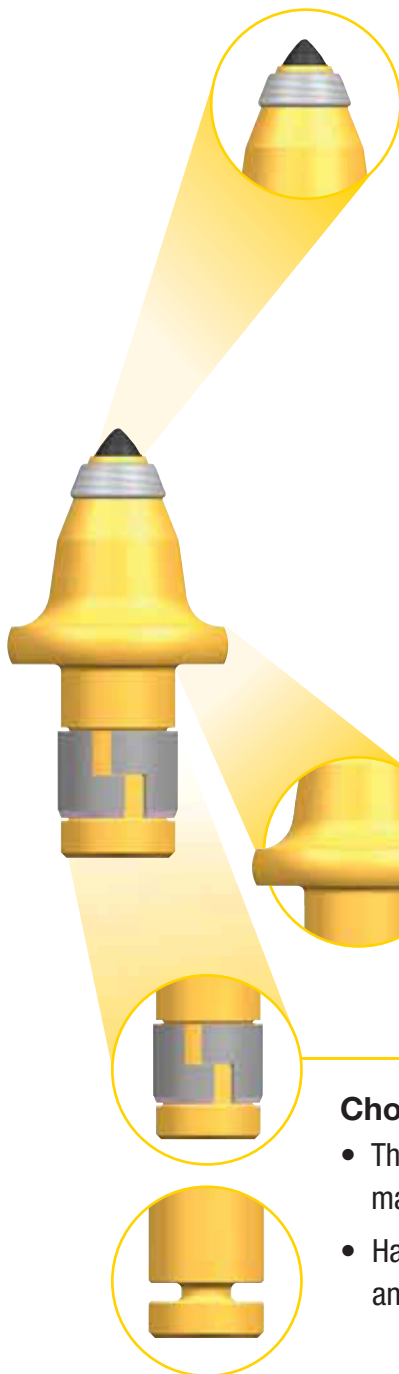
Medium Surface Miner



Conicals

42mm cutting bits are designed with exceptionally durable bodies and ultimate hardness throughout the entire head. The result? Ultra-high performance over the lifetime of the tool.

The carbide tips are designed for a wide range of cutting conditions — from light to severe. Vary the gage length and the carbide tip to take on an even wider range of ground material and conditions.



Hard Facing — Increases Wear Resistance to Extend Tool Life

- Protects gage from wear and steel wash.
- Increased wear protection allows better utilisation of the carbide tip.

Head Design — Improved Productivity

- Offered in different gage lengths.
- Slim-line design increases productivity and reduces dust.

Brazing

- Kennametal's proprietary brazing technology offers improved strength.

Wide-Collar Design

- Protects the block and improves machine productivity.

Choice of Proven Retainer Systems

- The thick, long design of the LR-42 retainers holds the pick more efficiently, making it very easy to use.
- Hair pin retainers rotate freely, offering fast, easy, and safe installation and removal.



Block Systems

Tough surface mining jobs require tough block systems. These blocks offer a larger, heavy-duty barrel. The J-chamfer was designed with the best angle for gage cutters, giving it 25% more area to weld the block onto the machine. The cannon feature boosts tooth rotation while the flat bottom provides more stability. With the front-to-back forging process, critical dimensions are maintained to ensure cutting bits fit securely in the block and penetrate better, especially in tough cutting conditions.



Induction-Hardened Bore Block

- Offers optimum wear resistance.
- Slim design for easy flow of material.



Replaceable Sleeve for Longer Block Lifecycle

- Press-fit bushing for maximum bore protection.
- Wide collar sleeve protects face of block.



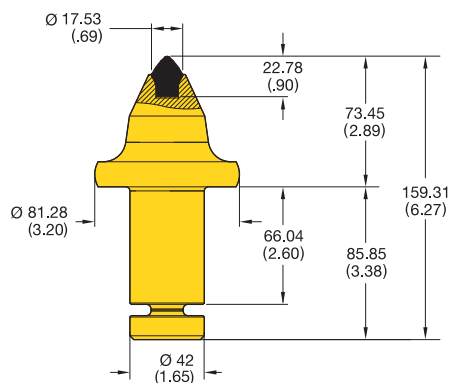
Drums

Kennametal surface miner drums are custom designed with unique lacing patterns for specific applications and cutting conditions, meaning longer, more efficient cutting. All drums are balanced so that they synchronise with your machine resulting in less vibration.





SM42HP17

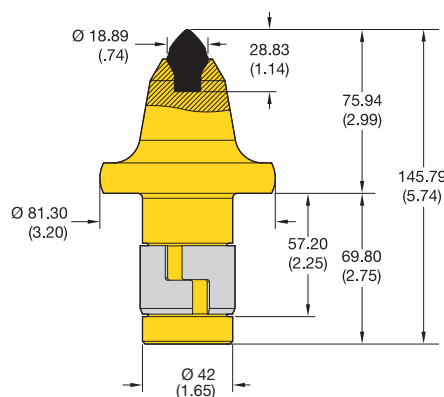


order number	catalogue number	block	retainer
5164545	SM42HP17	SM42BS	HP CLIP

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding block detailed information can be found on page 28.



SM42LR19



order number	catalogue number	block	retainer
4081082	SM42LR19	SM42BS	LR-42 RETAINER

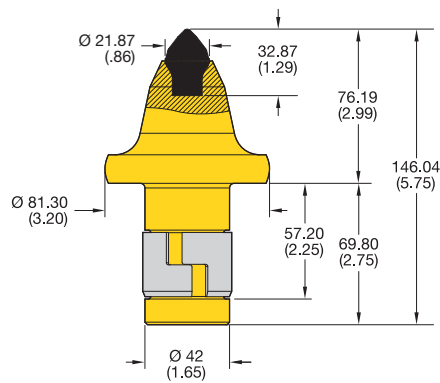
NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding block detailed information can be found on page 28.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
5164545	SM42HP17	box	10	19.8	43.6	360	713	1570
4081082	SM42LR19	box	10	18.1	39.9	360	652	1436

Dimensions shown in millimetres and (inches).

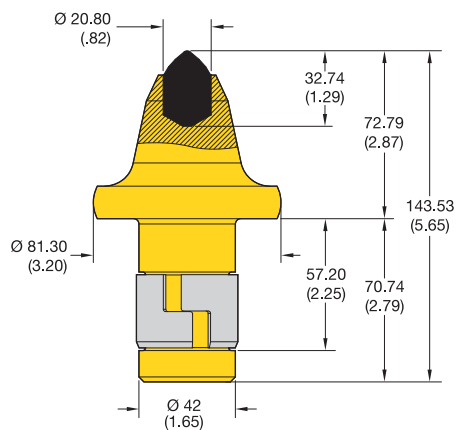
SM42LR22



order number	catalogue number	block	retainer
4078888	SM42LR22	SM42BS	LR-42 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding block detailed information can be found on page 28.

SM42LR22 P



order number	catalogue number	block	retainer
4078887	SM42LR22 P	SM42BS	LR-42 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding block detailed information can be found on page 28.

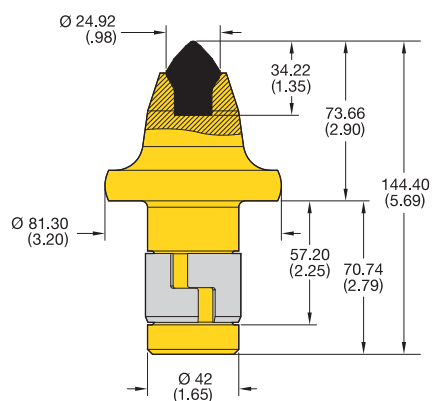
Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4078888	SM42LR22	box	10	18.5	40.8	360	666	1469
4078887	SM42LR22 P	box	10	18.7	41.3	360	673	1487

Dimensions shown in millimetres and (inches).



SM42LR25

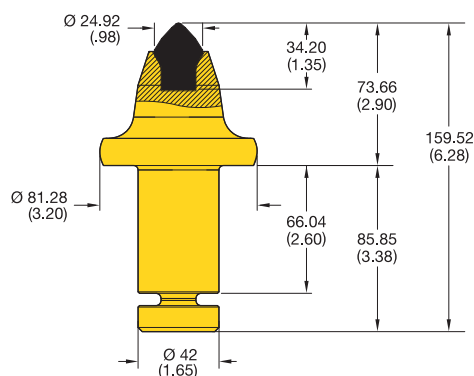


order number	catalogue number	block	retainer
5164542	SM42LR25	SM42BS	LR-42 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding block detailed information can be found on page 28.



SM42HP25



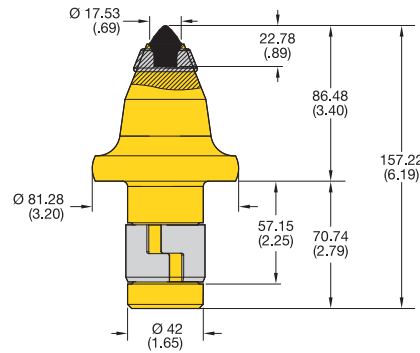
order number	catalogue number	block	retainer
5164544	SM42HP25	SM42BS	HP CLIP

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding block detailed information can be found on page 28.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
5164542	SM42LR25	box	10	19.0	41.9	360	684	1508
5164544	SM42HP25	box	10	20.3	44.7	360	731	1609

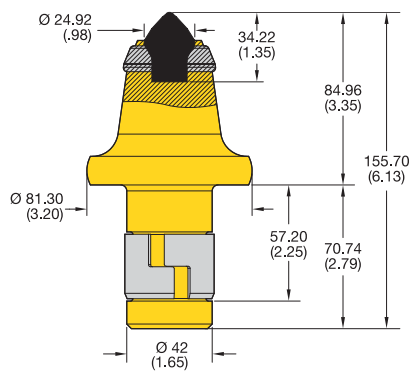
Dimensions shown in millimetres and (inches).



■ SM42LR17 HF89

order number	catalogue number	block	retainer
5164543	SM42LR17 HF89	SM42BS	LR-42 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding block detailed information can be found on page 28.



■ SM42LR25 HF89

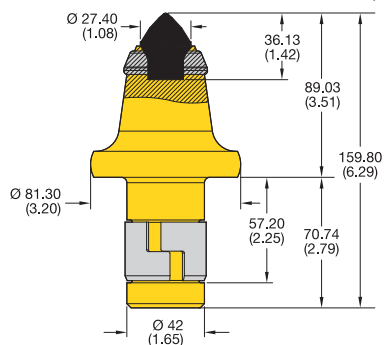
order number	catalogue number	block	retainer
5497995	SM42LR25 HF89	SM42BS	LR-42 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding block detailed information can be found on page 28.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
5164543	SM42LR17 HF89	box	8	16.5	36.2	288	593	1305
5497995	SM42LR25 HF89	box	8	17.2	37.9	288	619	1365

Dimensions shown in millimetres and (inches).



■ SM42LR27 HF89

order number	catalogue number	block	retainer
5421574	SM42LR27 HF89	SM42BS	LR-42 RETAINER

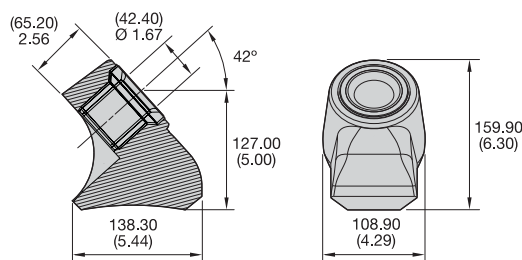
NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding block detailed information can be found below.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
5421574	SM42LR27 HF89	box	8	17.5	38.6	288	631	1388

Dimensions shown in millimetres and (inches).

42mm Shank Blocks System



■ SM42BS

order number	catalogue number	bushing
5059532	SM42BS	SM42BS BUSHING



■ LR-42 Retainer



order number	catalogue number
4072746	LR-42 RETAINER

■ HP Clip Retainer



order number	catalogue number
1304100	HP CLIP

■ 42mm Bushing



order number	catalogue number
5052081	SM42BS BUSHING



38/30mm Step Shank Systems

Chain Trencher, Bucket Wheel, and Surface Miners

Kennametal designs cutting systems providing productivity and protection. By selecting the right tool at the onset of the job, we can help meet your production goals and also protect machinery from costly downtime. The right tool also helps produce right-sized cut material (spoil), making it easier to deal with.

Chain trenchers offer flexibility of cutting either a narrow or wide trench for laying optical fibre lines, utility drainage, or oil and gas pipelines, to name a few. They are highly effective in medium to light cutting conditions when reusable spoil is needed. The depth of cut can be easily controlled by adjusting the angle of the boom.

Chain trenchers are also utilised for excavating trenches in rock. Compared to drill and blast methods, chain trenchers offer added safety, fewer adverse environmental effects, and cost and efficiency benefits.

**Medium
Surface Miner**



**Large Chain
Trencher**



**Medium Chain
Trencher**



**Bucket Wheel
Trencher**



RockRazor™ Quick Change Indexable Cutting System

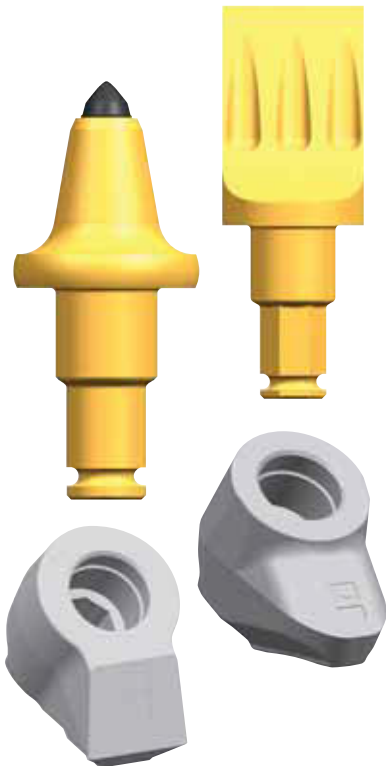


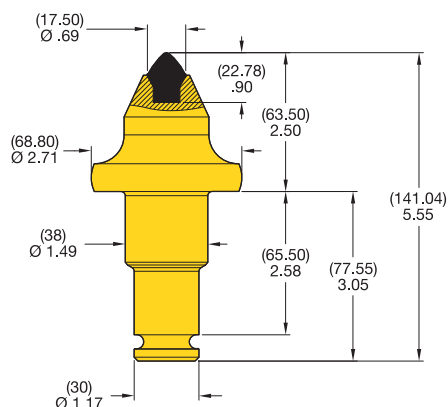
The quick change ability of the RockRazor system offers the flexibility to easily change from one tool style to another, depending on the application. This flexibility reduces machine downtime and allows you to maximise the cutting capabilities of your equipment.

Benefits of Quick Change:

Flexibility to quickly change between non-rotating, four-position flat-spade tools for soft materials to carbide rotating conicals for harder materials.

- Significant cost savings due to reduced downtime during tool changes.
- Less downtime.
- Flexible.
- Efficient.
- Comprehensive.
- Productive.
- Powerful.

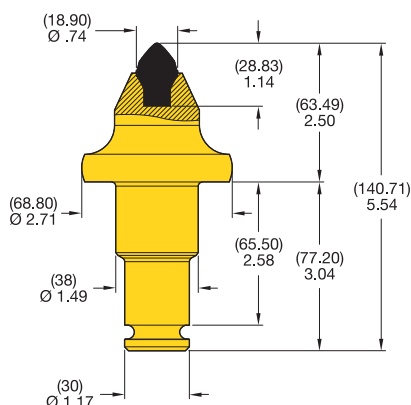




TS33C X

order number	catalogue number	block	retainer
4009196	TS33C X	-	TR3 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52-54.



TS40C X

order number	catalogue number	block	retainer
4009198	TS40C X	-	TR3 RETAINER

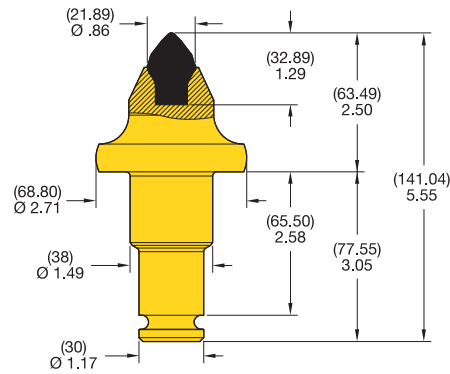
NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52-54.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4009196	TS33C X	box	15	18.8	41.4	540	675	1490
4009198	TS40C X	box	15	18.8	41.3	540	675	1485

Dimensions shown in (millimetres) and inches.

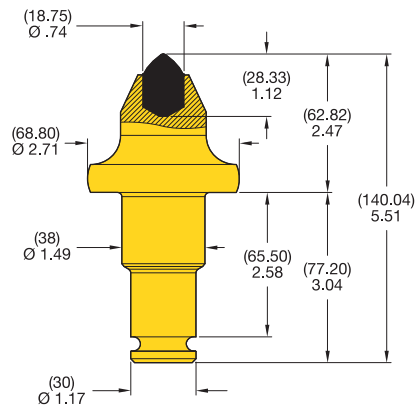
■ TS41C X



order number	catalogue number	block	retainer
4066869	TS41C X	-	TR3 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ TS5C X



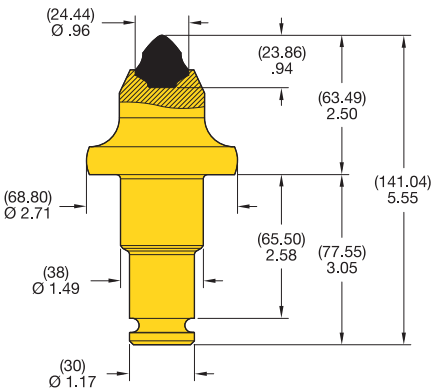
order number	catalogue number	block	retainer
4009193	TS5C X	-	TR3 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4066869	TS41C X	box	15	18.9	41.9	540	680	1507
4009193	TS5C X	box	15	19.4	42.5	540	697	1528

Dimensions shown in (millimetres) and inches.



■ TS14C X

order number	catalogue number	block	retainer
4082890	TS14C X	-	TR3 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ Packaging Information

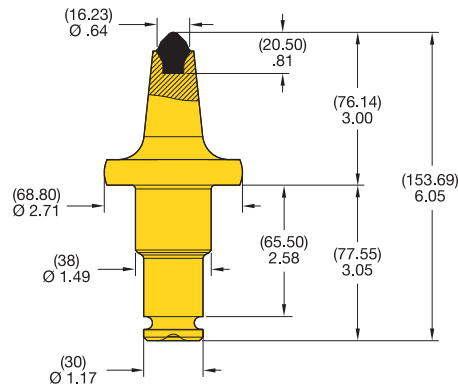
order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4082890	TS14C X	box	15	19.2	42.3	540	691	1523

Dimensions shown in (millimetres) and inches.





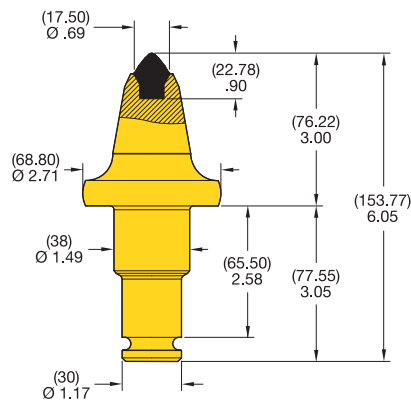
■ TS39C X



order number	catalogue number	block	retainer
4066877	TS39C X	-	TR3 RETAINER

NOTE: Conical includes retainer.
 Block and additional retainers sold separately.
 Corresponding blocks can be found on pages 52–54.

■ TS19C X



order number	catalogue number	block	retainer
4066765	TS19C X	-	TR3 RETAINER

NOTE: Conical includes retainer.
 Block and additional retainers sold separately.
 Corresponding blocks can be found on pages 52–54.

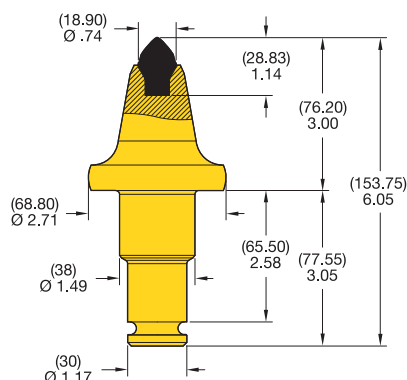
■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4066877	TS39C X	box	14	16.1	35.6	504	580	1280
4066765	TS19C X	box	15	19.8	43.5	540	713	1566

Dimensions shown in (millimetres) and inches.



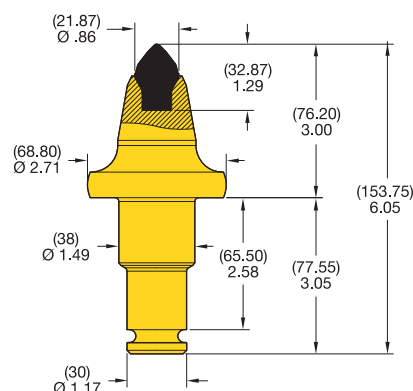
■ TS31C X



order number	catalogue number	block	retainer
4066872	TS31C X	-	TR3 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ TS32C X



order number	catalogue number	block	retainer
4066821	TS32C X	-	TR3 RETAINER

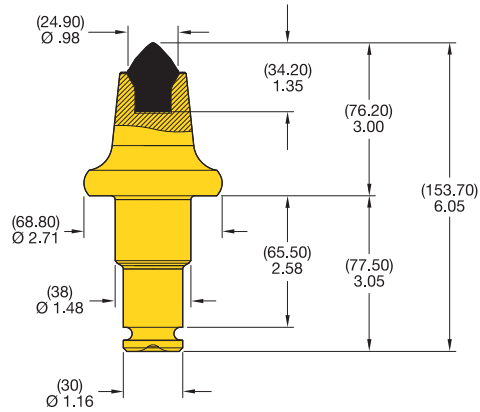
NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4066872	TS31C X	box	15	19.8	43.5	540	713	1566
4066821	TS32C X	box	15	20.3	44.6	540	729	1604

Dimensions shown in (millimetres) and inches.

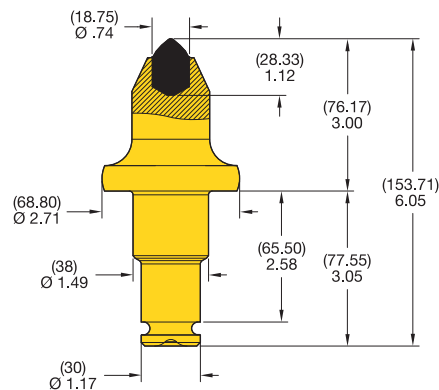
■ TS30C X



order number	catalogue number	block	retainer
4050638	TS30C X	-	TR3 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ TS7C X



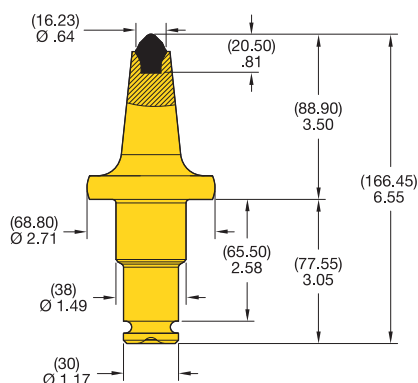
order number	catalogue number	block	retainer
4082888	TS7C X	-	TR3 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4050638	TS30C X	box	14	19.9	43.8	504	716	1578
4082888	TS7C X	box	15	21.2	46.7	540	761	1679

Dimensions shown in (millimetres) and inches.

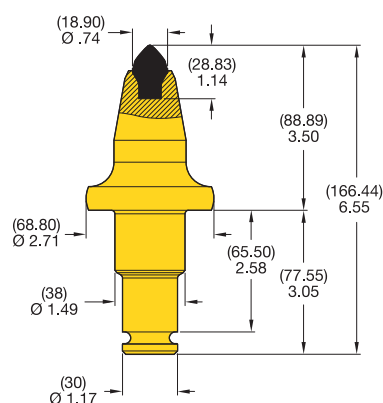


■ TS20C X



order number	catalogue number	block	retainer
4066813	TS20C X	-	TR3 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.



■ TS35C X



order number	catalogue number	block	retainer
4046251	TS35C X	-	TR3 RETAINER

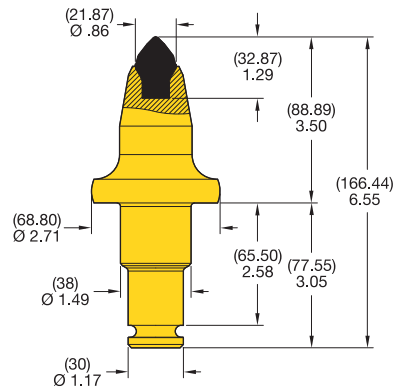
NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4066813	TS20C X	box	14	17.4	38.2	504	625	1376
4046251	TS35C X	box	14	20.0	44.2	504	721	1593

Dimensions shown in (millimetres) and inches.

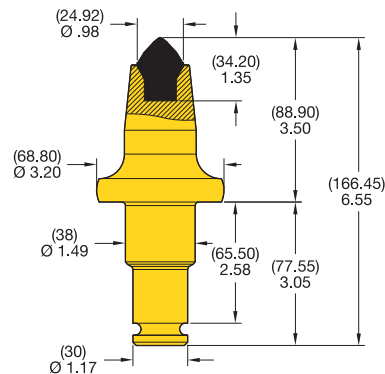
■ TS36C X



order number	catalogue number	block	retainer
4066825	TS36C X	-	TR3 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ TS37C X



order number	catalogue number	block	retainer
4066875	TS37C X	-	TR3 RETAINER

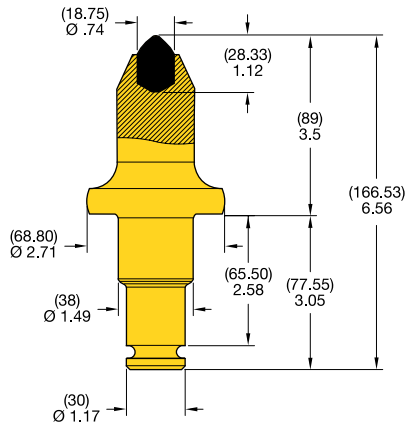
NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4066825	TS36C X	box	12	17.5	38.8	432	631	1395
4066875	TS37C X	box	12	18.1	39.8	432	652	1434

Dimensions shown in (millimetres) and inches.

■ TS8C X



order number	catalogue number	block	retainer
4082889	TS8C X	-	TR3 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52-54.

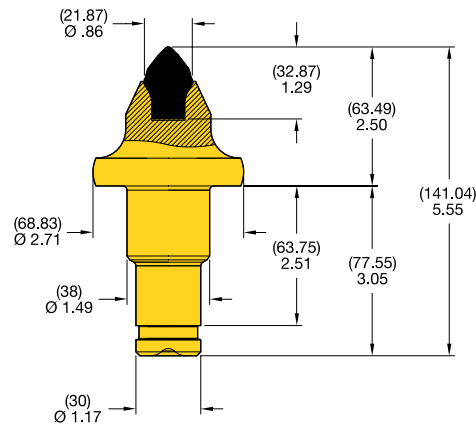
■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4082889	TS8C X	box	12	16.9	37.3	432	609	1344

Dimensions shown in (millimetres) and inches.



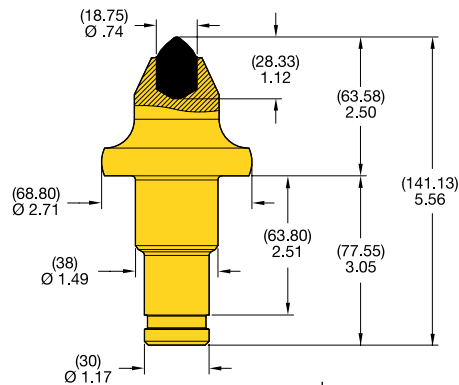
■ TS41 X



order number	catalogue number	block	retainer
4066864	TS41 X	-	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ TS5 X



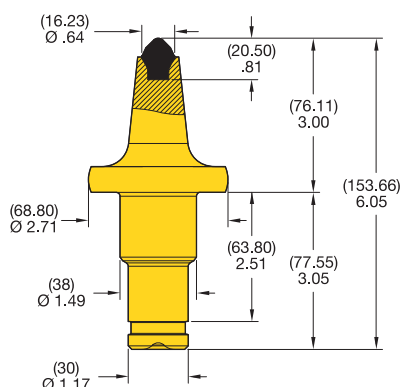
order number	catalogue number	block	retainer
4082919	TS5 X	-	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4066864	TS41 X	box	15	19.1	42.2	540	686	1517
4082919	TS5 X	box	15	19.5	43.1	540	702	1550

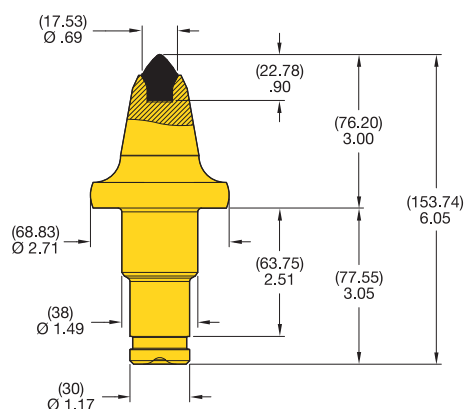
Dimensions shown in (millimetres) and inches.



■ TS39 X

order number	catalogue number	block	retainer
4066876	TS39 X	-	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.



■ TS19 X

order number	catalogue number	block	retainer
4066767	TS19 X	-	KR-112 BE RETAINER

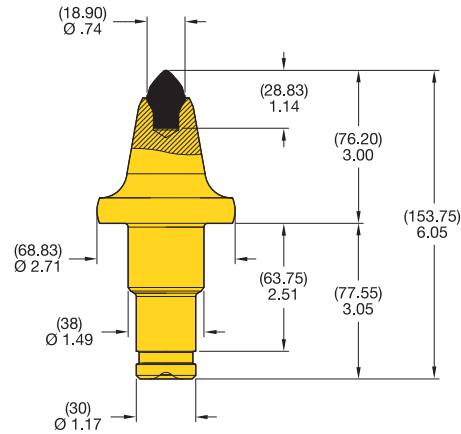
NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4066876	TS39 X	box	14	16.2	35.8	504	585	1290
4066767	TS19 X	box	15	20.0	43.8	540	718	1577

Dimensions shown in (millimetres) and inches.

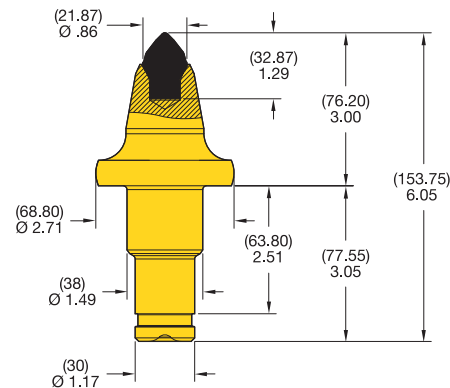
■ TS31 X



order number	catalogue number	block	retainer
4066873	TS31 X	-	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ TS32 X



order number	catalogue number	block	retainer
4066816	TS32 X	-	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

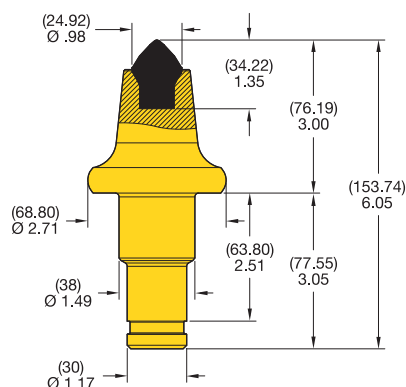
■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4066873	TS31 X	box	15	20.0	43.8	540	718	1577
4066816	TS32 X	box	15	20.3	44.9	540	729	1615

Dimensions shown in (millimetres) and inches.



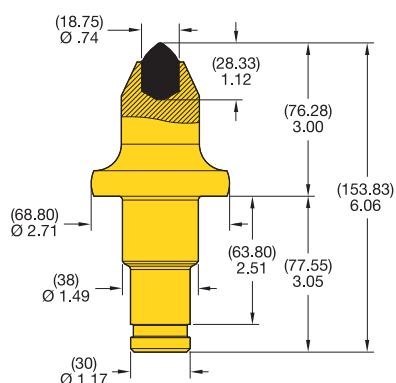
■ TS30 X



order number	catalogue number	block	retainer
4050637	TS30 X	-	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52-54.

■ TS7 X



order number	catalogue number	block	retainer
4082920	TS7 X	-	KR-112 BE RETAINER

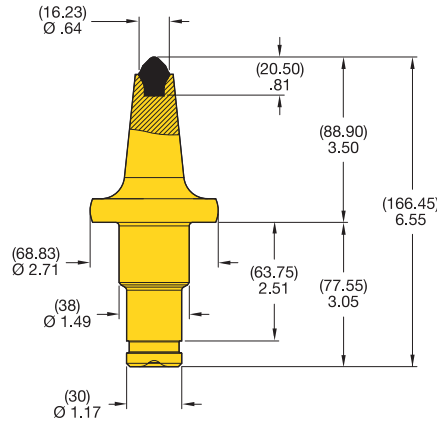
NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52-54.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4050637	TS30 X	box	14	20.0	44.1	504	721	1588
4082920	TS7 X	box	15	21.3	47.0	540	767	1690

Dimensions shown in (millimetres) and inches.

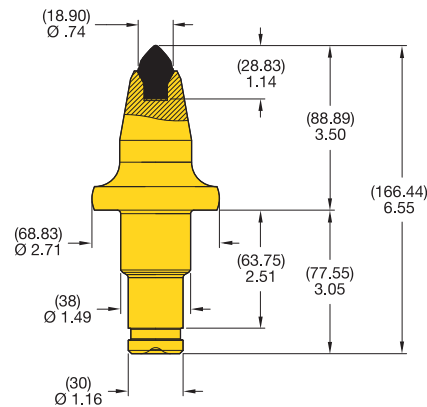
■ TS20 X



order number	catalogue number	block	retainer
4066790	TS20 X	-	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ TS35 X



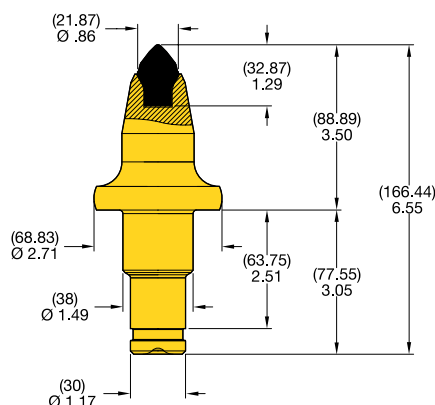
order number	catalogue number	block	retainer
4066823	TS35 X	-	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4066790	TS20 X	box	14	17.5	38.5	504	630	1386
4066823	TS35 X	box	14	20.2	44.5	504	726	1603

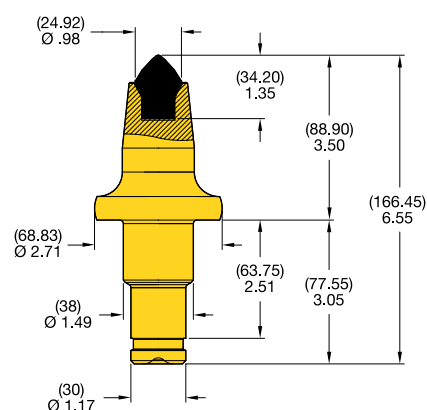
Dimensions shown in (millimetres) and inches.



TS36 X

order number	catalogue number	block	retainer
4066824	TS36 X	-	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.



TS37 X

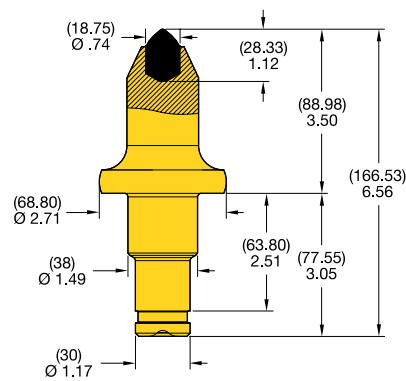
order number	catalogue number	block	retainer
4066829	TS37 X	TH3-G-INDEX BLOCK	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4066824	TS36 X	box	12	17.6	39.0	432	635	1404
4066829	TS37 X	box	12	18.2	40.1	432	657	1443

Dimensions shown in (millimetres) and inches.



■ TS8 X

order number	catalogue number	block	retainer
4082921	TS8 X	TH3-G-INDEX BLOCK	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

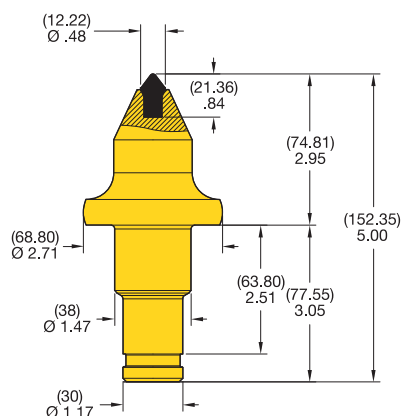
■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4082921	TS8 X	box	12	18.5	40.7	432	665	1464

Dimensions shown in (millimetres) and inches.



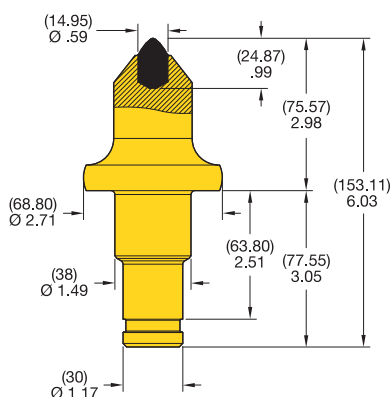
■ KSM1



order number	catalogue number	block	retainer
1730570	KSM1	-	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ KSM4



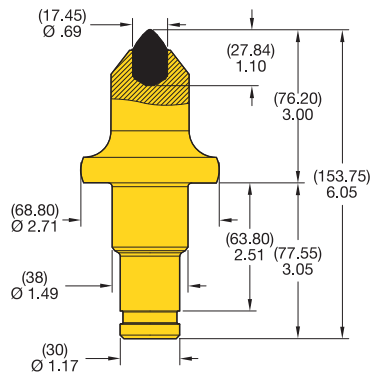
order number	catalogue number	block	retainer
1984719	KSM4	-	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1730570	KSM1	box	10	13.3	29.4	360	479	1058
1984719	KSM4	bucket	8	11.4	25.0	400	568	1248

Dimensions shown in (millimetres) and inches.



KSM3



order number	catalogue number	block	retainer
1930255	KSM3	-	KR-112 BE RETAINER

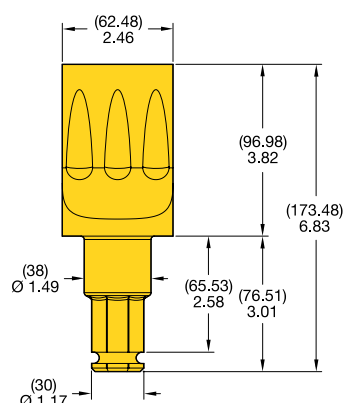
NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1930255	KSM3	box	14	19.9	43.7	504	716	1572

Dimensions shown in (millimetres) and inches.





NEW!

■ FC01 I

order number	catalogue number	block	retainer
5031774	FC01 I	TH3S-G-INDEX BLOCK	TR3 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

■ Packaging Information

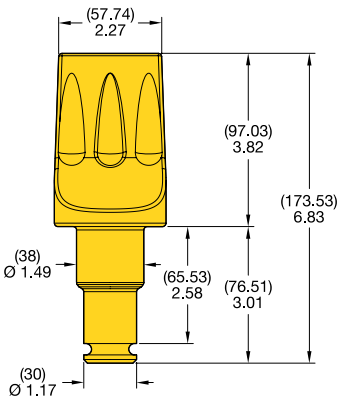
order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
5031774	FC01 I	bucket	6	9.4	20.6	300	468	1032

Dimensions shown in (millimetres) and inches.

RockRazor™ Quick Change Indexable Cutting System



The quick change ability of the RockRazor system offers the flexibility to easily change from one tool style to another, depending on the application. This flexibility reduces machine downtime and allows you to maximise the cutting capabilities of your equipment.



FC01

order number	catalogue number	block	retainer
3006766	FC01	TH3S BLOCK	TR3 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.
Corresponding blocks can be found on pages 52–54.

Packaging Information

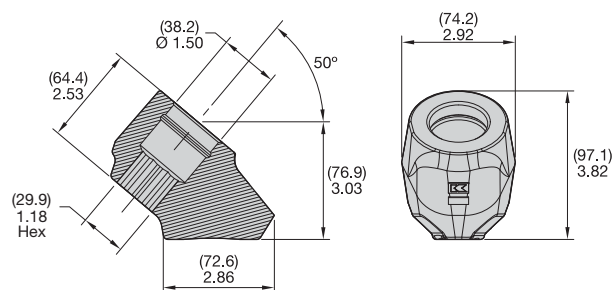
order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
3006766	FC01	bucket	6	9.2	20.3	300	462	1017

Dimensions shown in (millimetres) and inches.





TH3-G-INDEX BLOCK



order number

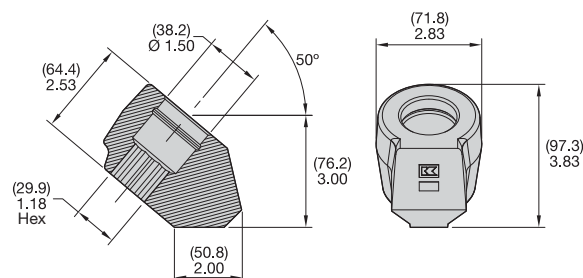
5031746

catalogue number

TH3-G-INDEX BLOCK



TH3S-G-INDEX BLOCK

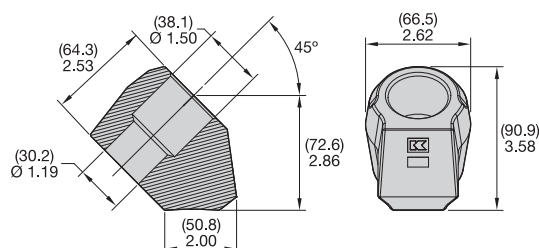


order number

5031772

catalogue number

TH3S-G-INDEX BLOCK



C4/U43H BLOCK

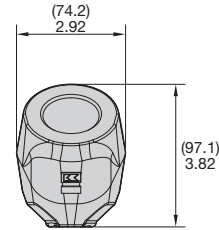
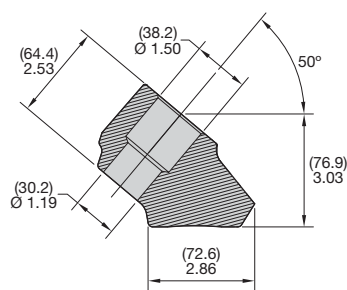
order number

1011578

catalogue number

C4/U43H BLOCK

■ TH3 BLOCK



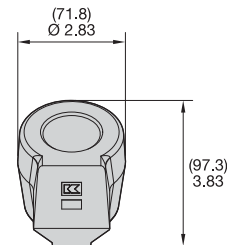
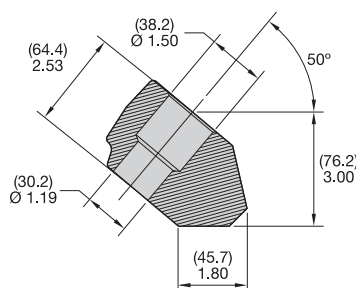
order number

2433922

catalogue number

TH3 BLOCK

■ TH3S BLOCK



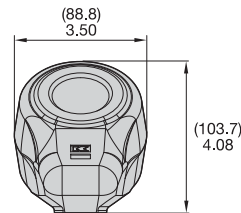
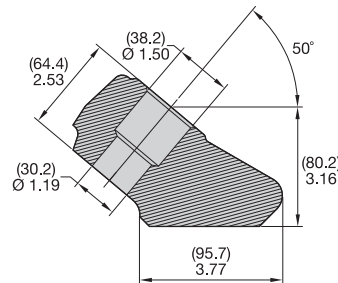
order number

2603270

catalogue number

TH3S BLOCK

■ MTB1 BLOCK



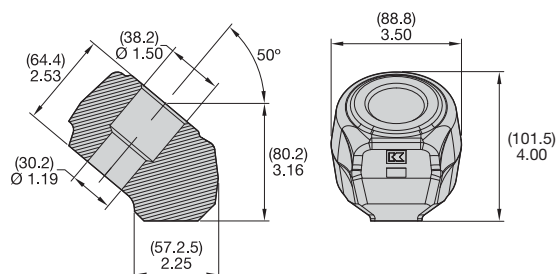
order number

3392835

catalogue number

MTB1 BLOCK

■ MTB2S BLOCK



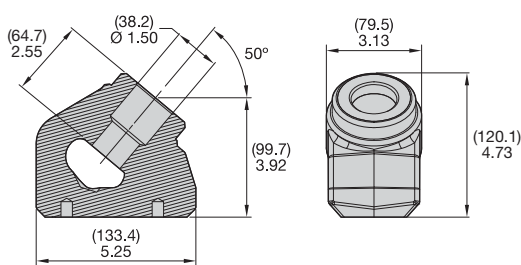
order number

3504241

catalogue number

MTB2S BLOCK

■ K30S-TS BLOCK



order number

3737342

catalogue number

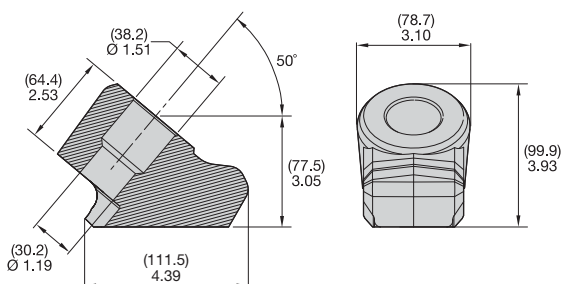
K30S-TS BLOCK

bushing

TS-K30S IH Bushing



■ U43XHD-50 BLOCK



order number

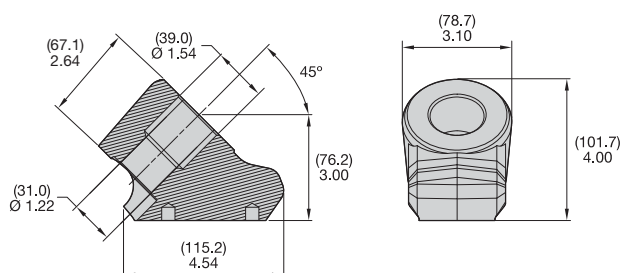
2988596

catalogue number

U43XHD-50 BLOCK

NOTE: Only compatible with KR-112 BE RETAINER.

■ U43XHD-P BLOCK



order number

1807656

catalogue number

U43XHD-P BLOCK

NOTE: Only compatible with KR-112 BE RETAINER.

■ TR3 LOCK RING RETAINER



order number	catalogue number
4073124	TR3 RETAINER

■ C15R Retainer



order number	catalogue number
1803295	C15R RETAINER

■ KR-112 BE RETAINER



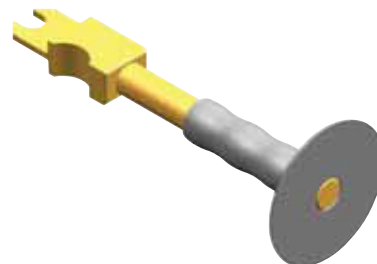
order number	catalogue number
4055765	KR-112 BE RETAINER

■ UNIVERSAL TR3 PULLER



order number	catalogue number
5500279	UNIVERSAL TR3 PULLER

■ C15R Removal Tool



order number	catalogue number
1885470	C15R RETAINER REMOVAL TOOL

■ KRP4 PLIER

- Used on external snap rings.
- Heavy duty.



order number	catalogue number
1012047	KRP4 PLIER

■ KRP1/C4 Plier

- Used on external snap rings.
- Heavy duty.



order number	catalogue number
1012010	KRP 1/C4 PLIER

■ KRPT1/C4 TIP

- Used on external snap rings.
- Replaceable tips.
- Heavy duty.



order number	catalogue number
1012012	KRPT1/C4 TIP

■ TS-K30S IH Bushing

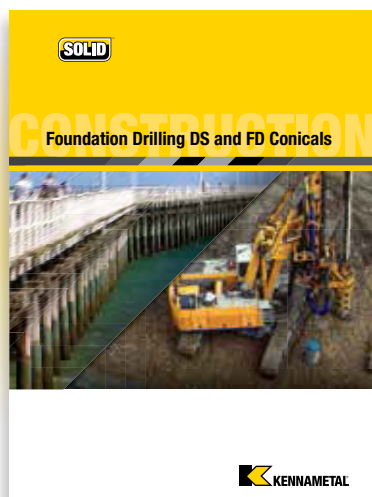


order number	catalogue number
3737341	TS-K30S IH BUSHING

■ K150 PAD COATED PULLER



order number	catalogue number
3043352	K150 PAD COATED PULLER



Looking for conicals not in this catalogue?
Additional conicals are available in the Foundation Drilling
DS and FD Conicals catalogue, B-15-04356.





30mm Trenching Systems

Demolition Tools and Wheel Trenchers

Demolition machines are used across a wide range of applications, including trenching, tunneling, renovation, road building, and general demolition projects. These machines offer a great alternative for applications where traditional methods are either inadequate or expensive.

Our cutting systems can be used in a wide range of equipment and applications, to maximise productivity, minimise wear, and boost overall performance by:

- Producing extremely accurate profiles in excavation, tunneling work, and surface preparation.
- Producing finely grained excavated material, which can be reused for backfilling.
- Increasing cutting accuracy, thereby reducing risk of damage in and around the site.
- Minimising vibrations, which means reduced equipment fatigue, quieter cutting units (which can be utilised in noise-sensitive zones), and increased safety.

**Transverse
Drum Cutter**



**Universal
Cutter**



**Longitudinal
Drum Cutter**



**Cutter
Wheel**



**Chain
Cutter**



Conicals

Kennametal utilises state-of-the-art technology and field data to design tools that deliver maximum cutting efficiency. We understand each customer situation is unique. There is no one-size-fits-all solution, which is why we offer numerous conicals, blocks, and accessories.

Demanding environments require strong, tough, and durable tools. Kennametal conicals outperform in these rugged cutting conditions.



X Treatment

- A unique heat treatment process that reduces steel wear and improves overall wear resistance.
- Improves tool life.



Narrow Bottom (NB) Tips — Unique Design to Maximise Cutting Capabilities

- Superior strength by providing maximum steel support and longer sharp profile life.
- Combines abrasive resistance of a cap tip and impact resistance of a plug tip.
- Triple-angle insert carbide for hard conditions.



TR3 Retainers

- Offers extraordinary strength.
- Features specially constructed “ears” that enable simple location and centring, helping ensure operator safety.
- Fast and easy installation and removal.
- Rotates freely.



Blocks

Every Kennametal toolholder is made of heat-treated special alloy steel, providing the right balance of wear resistance and toughness for peak performance. Some toolholders have a special inner hardening (IH) treatment for extra wear resistance in the bore, which provides better tool retention and rotation.



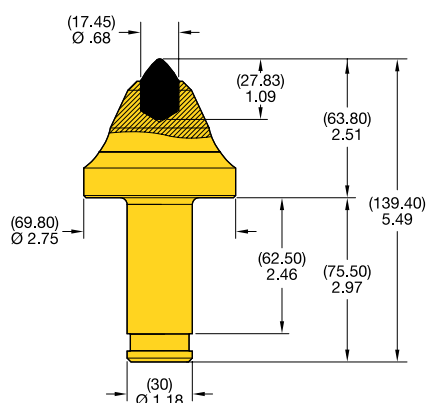
Benefits of Kennametal Blocks:

- Compact design.
- Hardened bushing protects block face and bore.
- Heavy duty base block for extended life.
- Engineered for unmatched durability.





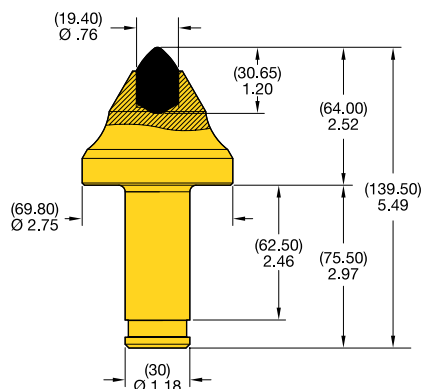
The job can take you into challenging conditions — soil, rock, asphalt, and concrete can be tough on cutting tool systems, so you need a toolholder that is up to the challenge.



KRHA 2X

order number	catalogue number	block	retainer
5687249	KRHA 2X	BS30.65 BLOCK	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.



KRHA 3X

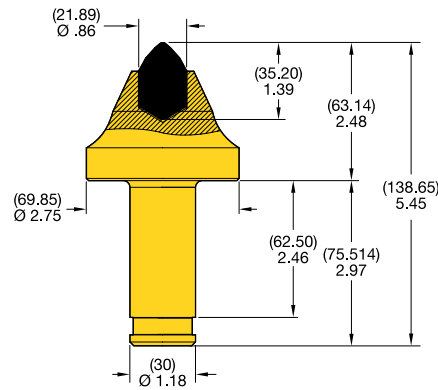
order number	catalogue number	block	retainer
5687260	KRHA 3X	BS30.65 BLOCK	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
5687249	KRHA 2X	box	8	11.0	24.1	480	658	1445
5687260	KRHA 3X	box	8	11.0	24.3	480	662	1459

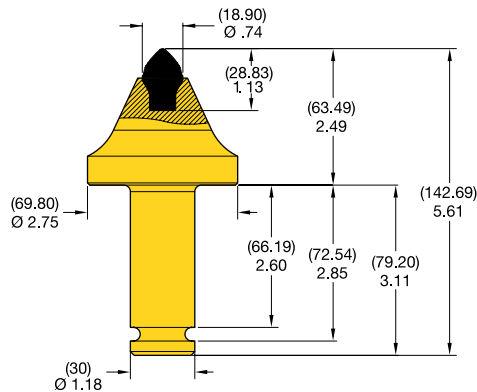
Dimensions shown in (millimetres) and inches.



■ KRHA 5X

order number	catalogue number	block	retainer
5687261	KRHA 5X	BS30.65 BLOCK	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.



■ KRHA 7CX

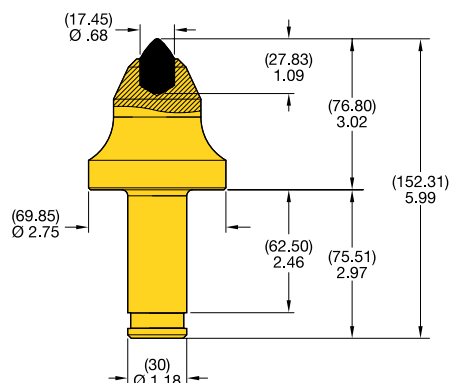
order number	catalogue number	block	retainer
5687262	KRHA 7CX	BS30.65 BLOCK	TR3 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
5687261	KRHA 5X	box	8	11.3	24.9	480	677	1493
5687262	KRHA 7CX	box	8	10.1	22.2	480	605	1330

Dimensions shown in (millimetres) and inches.

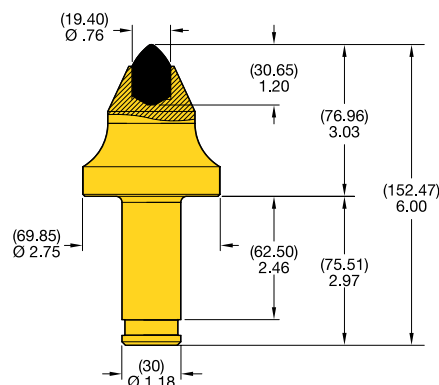


KRHB 2X



order number	catalogue number	block	retainer
5687263	KRHB 2X	BS30.65 BLOCK	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.



KRHB 3X



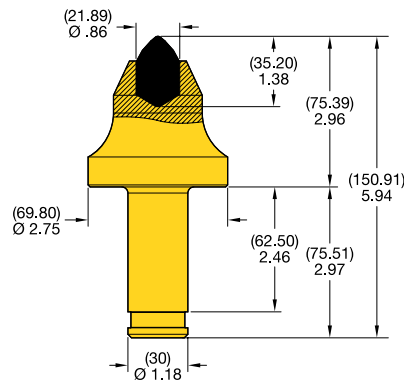
order number	catalogue number	block	retainer
5687264	KRHB 3X	BS30.65 BLOCK	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
5687263	KRHB 2X	box	8	12.4	27.3	480	744	1637
5687264	KRHB 3X	box	8	12.3	27.0	480	739	1622

Dimensions shown in (millimetres) and inches.

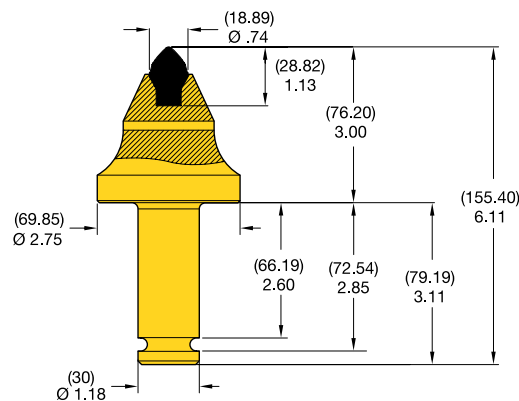


KRHB 5X



order number	catalogue number	block	retainer
5687265	KRHB 5X	BS30.65 BLOCK	KR-112 BE RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.



NEW! KRHB 7CX



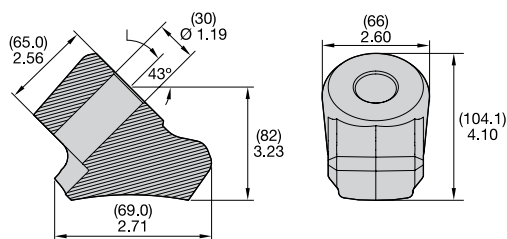
order number	catalogue number	block	retainer
5687266	KRHB 7CX	BS30.65 BLOCK	TR3 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
5687265	KRHB 5X	box	8	12.6	27.7	480	754	1661
5687266	KRHB 7CX	box	8	11.5	25.4	480	691	1522

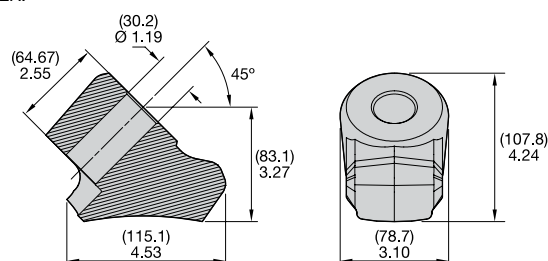
Dimensions shown in (millimetres) and inches.



■ BS30.65 BLOCK

order number	catalogue number
1011569	BS30.65 BLOCK

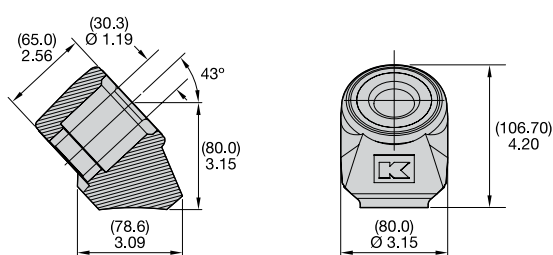
NOTE: Only compatible with KR-112 BE RETAINER.



■ U43XHD 30 BLOCK

order number	catalogue number
1792958	U43XHD 30 BLOCK

NOTE: Only compatible with KR-112 BE RETAINER.



■ BBS30.65H SYSTEM

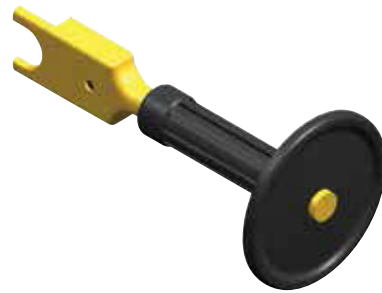
order number	catalogue number
1131591	BBS30.65H SYSTEM

■ TR3 LOCK RING RETAINER



order number	catalogue number
4073124	TR3 RETAINER

■ UNIVERSAL TR3 PULLER



NEW!

order number	catalogue number
5500279	UNIVERSAL TR3 PULLER

■ KR-112 BE RETAINER



order number	catalogue number
4055765	KR-112 BE RETAINER

■ KRP4 PLIER

- Used on external snap rings.
- Heavy duty.



order number	catalogue number
1012047	KRP4 PLIER

■ KRP1/C4 Plier

- Used on external snap rings.
- Heavy duty.



order number	catalogue number
1012010	KRP 1/C4 PLIER

■ KRPT1/C4 TIP

- Used on external snap rings.
- Replaceable tips.
- Heavy duty.



order number	catalogue number
1012012	KRPT1/C4 TIP

■ BBS30.65H BUSHING



order number	catalogue number
1131754	BBS30.65H BUSHING

Looking for a product not shown in this catalogue?
Check the Kennametal website!



Online product catalogue available 24/7

Visit <http://www.kennametal.com/trenching> to browse our electronic catalogue any time you're looking for Kennametal's best tooling solutions. It's fast, free, and always available. The online e-catalogue is updated weekly with products and solutions for Road Rehabilitation, Road Milling, Soil Stabilization, Toolholders, and Accessories.



25mm Trenching Systems

Wheel and Chain Trenchers

Wheel trenchers offer great application versatility — whether you're digging a shallow utility trench or diving deep into solid rock, these machines are designed for excavation while reducing ditch material left behind.

One of the most versatile machines, rocksaw trenchers, can be used in a variety of applications. Rocksaw trenchers are suitable for both narrow and deep cuts and operate in extreme environmental conditions. Some models are equipped with both an automated cable laying system and an integrated back-filling system for peak efficiency.

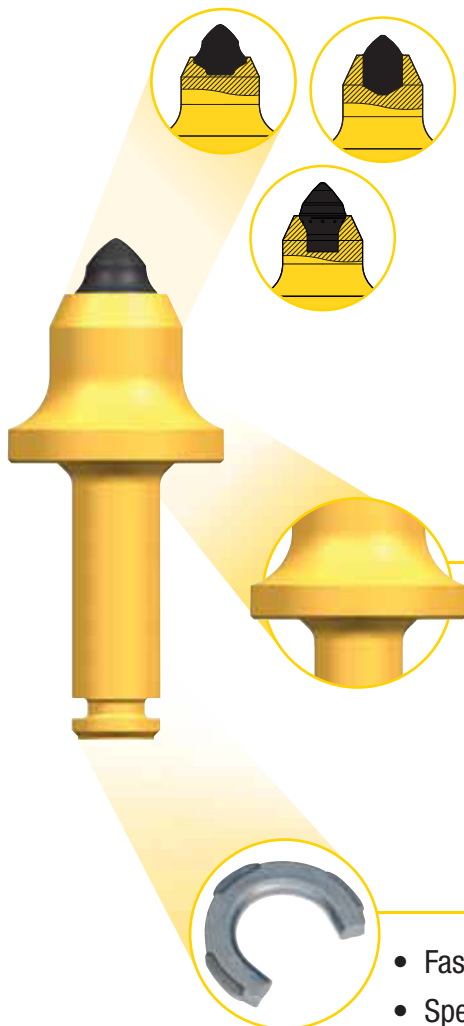
**Small Chain
Trencher**



**Large
Wheel Trencher**



Conicals



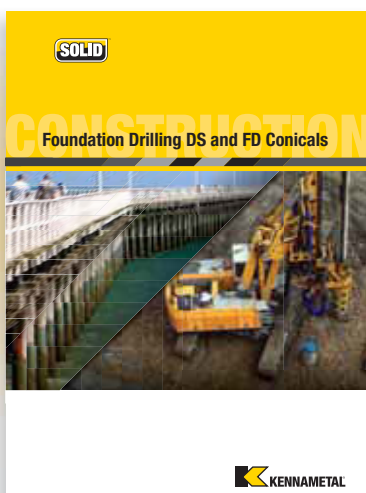
Our 25mm conicals offer several different tip styles, so you can choose the tool that is best for your application:

- Plug tip for maximum toughness.
- Cap tip for maximum abrasion resistance.
- Narrow-bottom tip offers the combination of a cap and a plug, with superior strength and abrasion resistance.

The wide collar feature on T-Series tools (shown) protects the block and improves productivity. If you need maneuverability in tight cutting spaces, the narrow collar C-Series provides maximum flexibility.

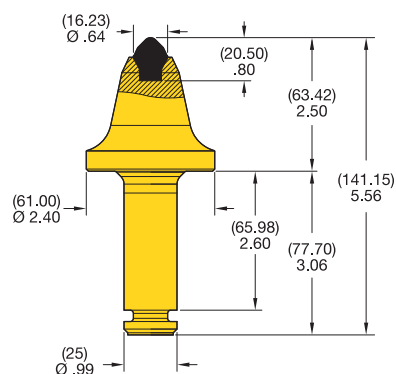


- Fast and easy installation and removal!
- Specially constructed “ears” enable simple location and centring — and ensure operator safety.
- Rotates freely.
- Fits all Kennametal TSC-series tools.



Looking for conicals not in this catalogue?
Additional conicals are available in the Foundation Drilling DS and FD Conicals catalogue, B-15-04356.

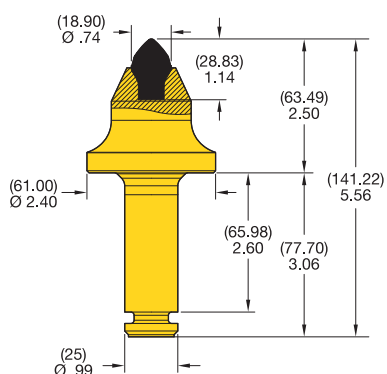
■ T17 X



order number	catalogue number	block	retainer
4065496	T17 X	TH3-100 BLOCK	TR1-D

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

■ T20 X



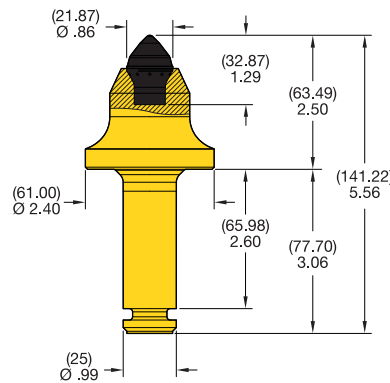
order number	catalogue number	block	retainer
4065499	T20 X	TH3-100 BLOCK	TR1-D

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

■ Packaging Information

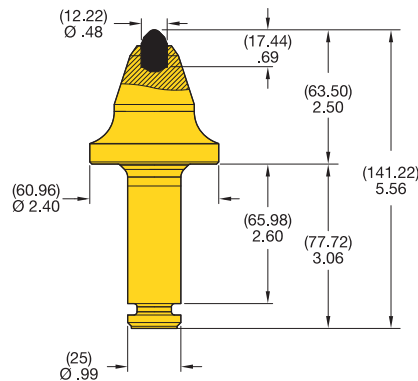
order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4065496	T17 X	box	18	15.8	34.9	648	570	1257
4065499	T20 X	box	18	16.7	36.7	648	603	1322

Dimensions shown in (millimetres) and inches.

T19 X


order number	catalogue number	block	retainer
4065498	T19 X	TH3-100 BLOCK	TR1-D

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

T1 X


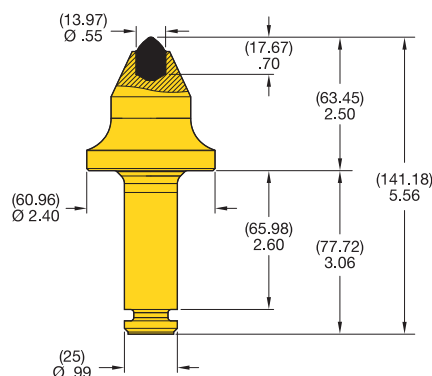
order number	catalogue number	block	retainer
4065445	T1 X	TH3-100 BLOCK	TR1-D

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4065498	T19 X	box	18	17.1	37.6	648	616	1354
4065445	T1 X	box	18	16.0	35.3	648	577	1270

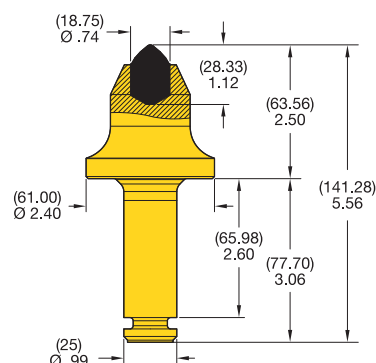
Dimensions shown in (millimetres) and inches.



T5 X

order number	catalogue number	block	retainer
4065446	T5 X	TH3-100 BLOCK	TR1-D

NOTE: Conical includes retainer.
Block and additional retainers sold separately.



T11 X

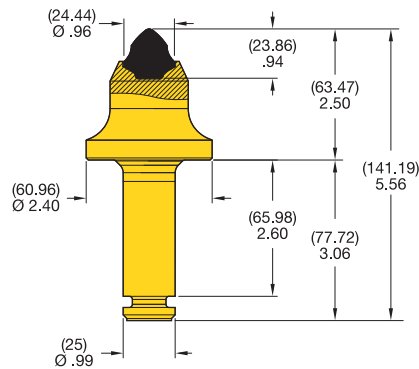
order number	catalogue number	block	retainer
4065450	T11 X	TH3-100 BLOCK	TR1-D

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4065446	T5 X	box	18	16.7	36.7	648	600	1322
4065450	T11 X	box	18	17.3	38.3	648	622	1380

Dimensions shown in (millimetres) and inches.



T8 X

order number	catalogue number	block	retainer
4065449	T8 X	TH3-100 BLOCK	TR1-D

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

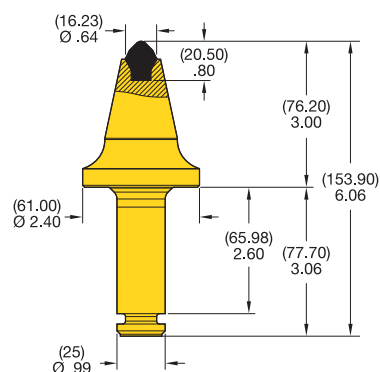
Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4065449	T8 X	box	18	18.4	40.5	648	661	1458

Dimensions shown in (millimetres) and inches.



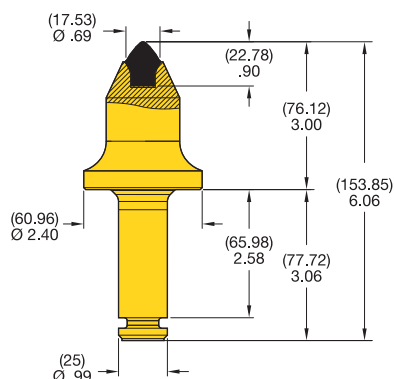
T16 X



order number	catalogue number	block	retainer
4065494	T16 X	TH3-100 BLOCK	TR1-D

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

T7 X



order number	catalogue number	block	retainer
4065448	T7 X	TH3-100 BLOCK	TR1-D

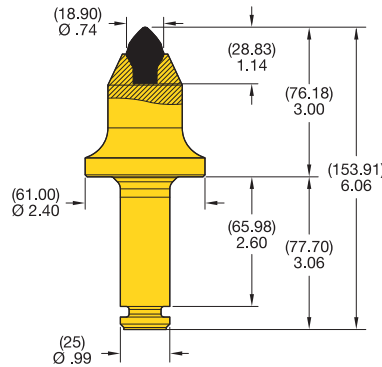
NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4065494	T16 X	box	18	17.1	37.6	648	616	1354
4065448	T7 X	box	18	18.4	40.5	648	661	1458

Dimensions shown in (millimetres) and inches.

■ T18 X



order number	catalogue number	block	retainer
4065497	T18 X	TH3-100 BLOCK	TR1-D

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

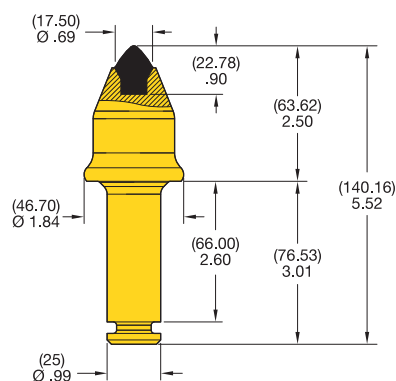
■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4065497	T18 X	box	18	18.7	41.2	648	674	1484

Dimensions shown in (millimetres) and inches.



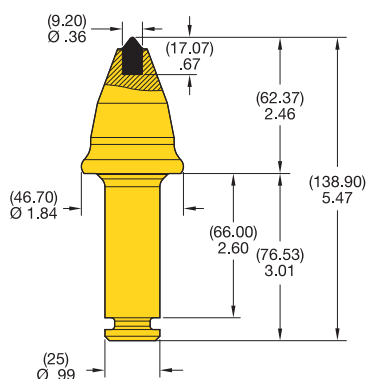
C36R



order number	catalogue number	block	retainer
1013155	C36R	C30H/U40H BLOCK	TR1-D

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

C31R



order number	catalogue number	block	retainer
5169341	C31R	C30H/U40H BLOCK	TR1-D

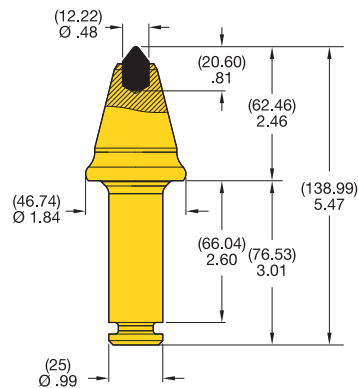
NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1013155	C36R	bucket	15	11.3	24.8	750	563	1238
5169341	C31R	bucket	15	10.4	22.8	750	518	1140

Dimensions shown in (millimetres) and inches.

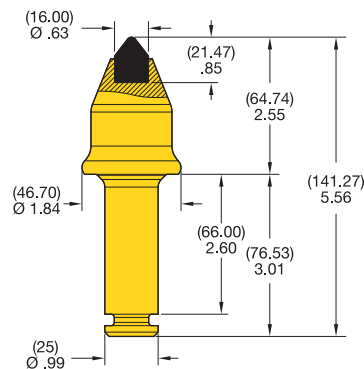
■ C31RHD



order number	catalogue number	block	retainer
1010806	C31RHD	C30H/U40H BLOCK	TR1-D

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

■ C35R



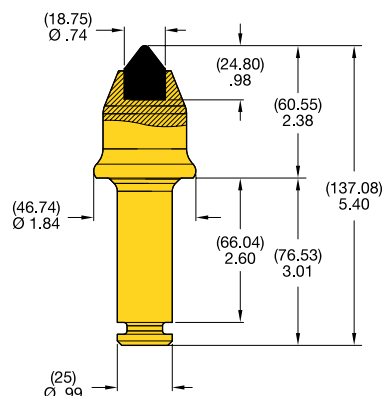
order number	catalogue number	block	retainer
1094018	C35R	C30H/U40H BLOCK	TR1-D

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1010806	C31RHD	bucket	15	10.4	22.8	750	518	1140
1094018	C35R	bucket	15	11.4	25.1	750	570	1253

Dimensions shown in (millimetres) and inches.



C34R

order number	catalogue number	block	retainer
1010799	C34R	C30H/U40H BLOCK	TR1-D

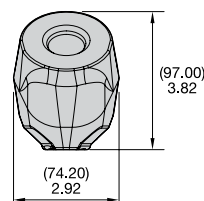
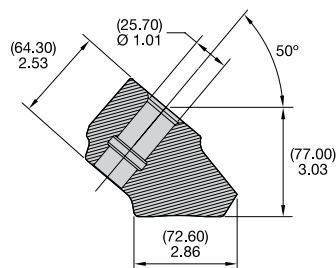
NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1010799	C34R	bucket	15	11.6	25.5	750	578	1275

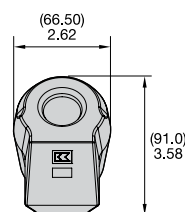
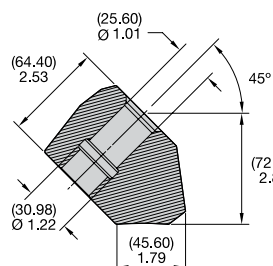
Dimensions shown in (millimetres) and inches.

25mm Shank Block Systems



TH3-100

order number	catalogue number
2956994	TH3-100 BLOCK



C30H/U40H BLK

order number	catalogue number
1011585	C30H/U40H BLOCK

■ TR1-D Retainer



order number	catalogue number
4065385	TR1-D

■ UNIVERSAL TR3 PULLER



NEW!

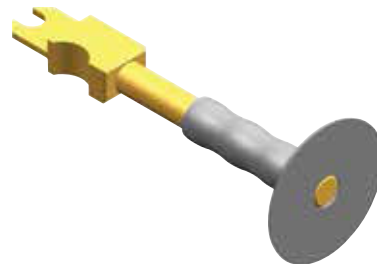
order number	catalogue number
5500279	UNIVERSAL TR3 PULLER

■ C31R Retainer

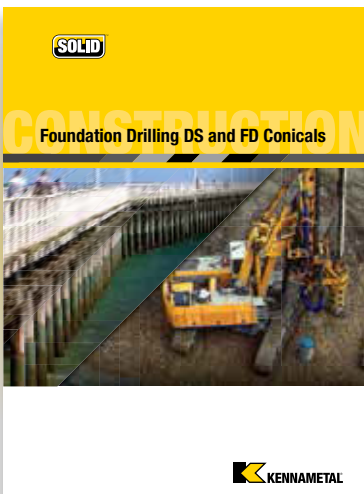


order number	catalogue number
1012065	C31R RETAINER

■ C31R Removal Tool with Grip



order number	catalogue number
1012347	C31R REMOVER TOOL W/GRIP



Looking for conicals not in this catalogue?
Additional conicals are available in the Foundation Drilling
DS and FD Conicals catalogue, B-15-04356.



22mm Trenching Systems

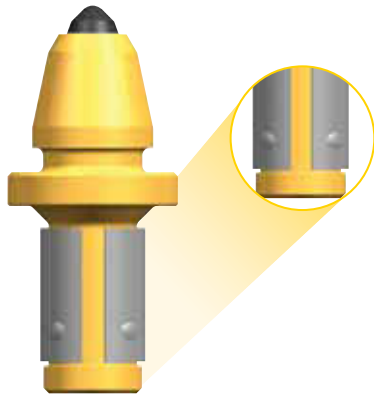
Small Wheel Trenchers

Don't let the name fool you — small wheel trenchers can tackle tough trenching applications in solid rock and concrete. Machines are designed to effectively excavate while reducing material left behind. Some common application examples include highway concrete cutters as well as trenching for underground networks and cables.

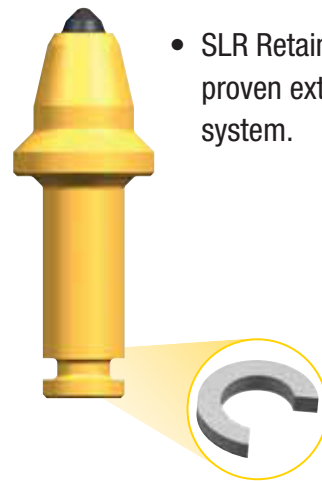
**Rock Wheel/
Rock Saw/
Concrete Cutter**



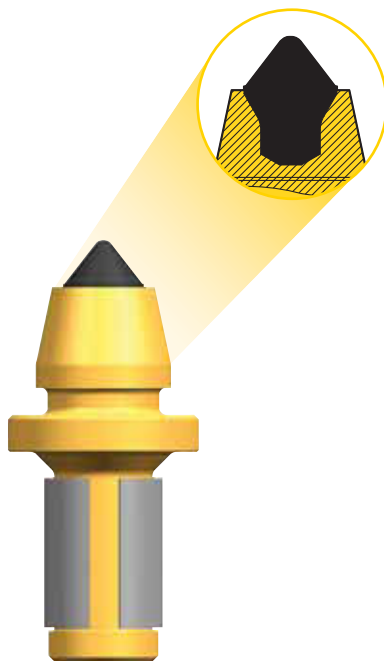
Conicals



- SD Series dimpled LR retainers provide additional hold power in blocks with internal grooves.



- SLR Retaining Ring — proven external retainer system.



Narrow Bottom (NB) Tips — Unique Design to Maximise Cutting Capabilities

- Superior strength by providing maximum steel support and longer sharp profile life.
- Combines abrasive resistance of a cap tip and impact resistance of a plug tip.
- Triple-angle insert carbide for hard conditions.
- SD Series — with dimpled long retainer.

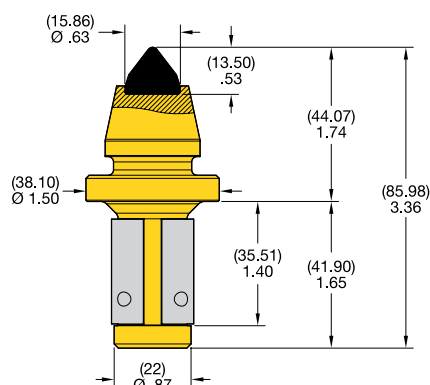
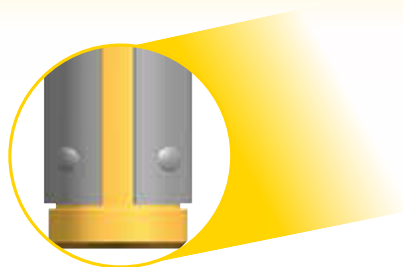
Block Systems



- The SLB01 block is ideal for challenging trenching applications and features.
- Increased height for clearance of externally retained tools.
- Larger footprint for increased weld strength and stability.

SD Series — with Dimpled Long Retainer

Dimpled LR retainer provides additional hold power in blocks with internal grooves.



SD02

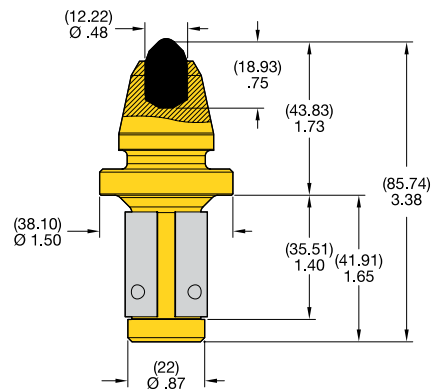
order number	catalogue number	block	retainer
2504868	SD02	SLB01 - G	LR87D SP RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
2504868	SD02	bucket	50	15.0	33.0	2,500	750	1650

Dimensions shown in (millimetres) and inches.



SD06

order number	catalogue number	block	retainer
2504867	SD06	C87HDS - G	LR87D SP RETAINER

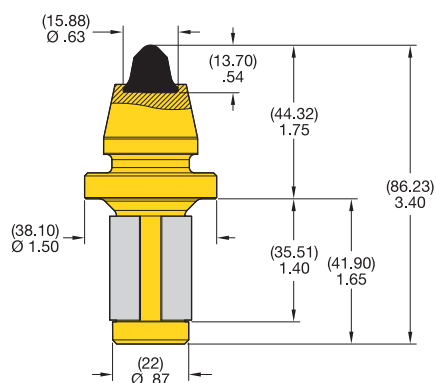
NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
2504867	SD06	bucket	50	15.5	34.0	2,500	775	1700

Dimensions shown in (millimetres) and inches.

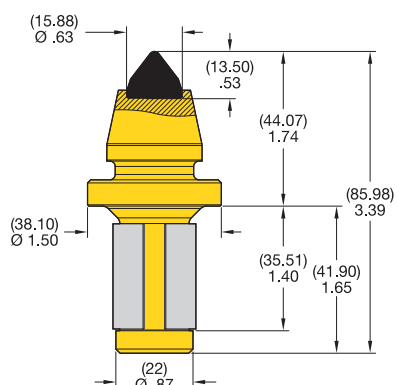
SM01



order number	catalogue number	block	retainer
1010860	SM01	C87HDS - G	LR87 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

SM02



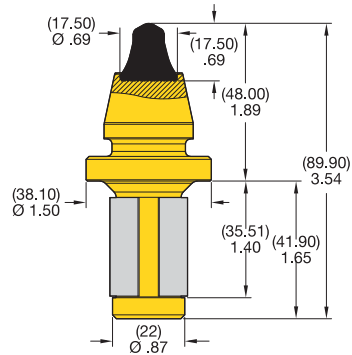
order number	catalogue number	block	retainer
1010817	SM02	C87HDS - G	LR87 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

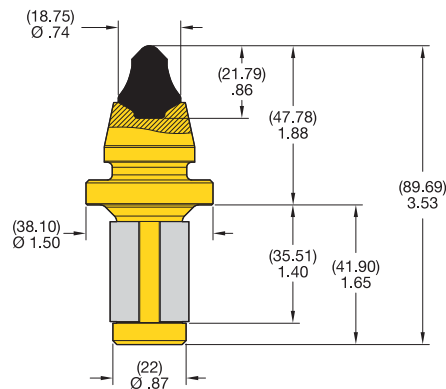
order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1010860	SM01	bucket	50	15.0	33.0	2,500	750	1650
1010817	SM02	bucket	50	15.0	33.0	2,500	750	1650

Dimensions shown in (millimetres) and inches.

SM03


order number	catalogue number	block	retainer
1010887	SM03	C87HDS - G	LR87 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

SM04


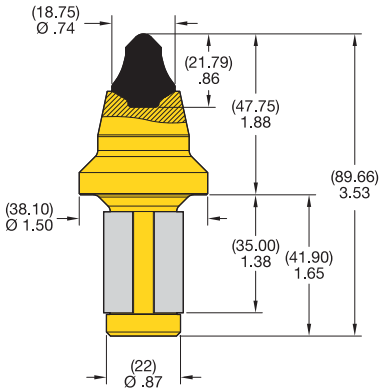
order number	catalogue number	block	retainer
1317495	SM04	C87HDS - G	LR87 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1010887	SM03	bucket	50	15.5	34.0	2,500	775	1700
1317495	SM04	bucket	50	15.5	34.5	2,500	775	1725

Dimensions shown in (millimetres) and inches.



■ SM07



order number	catalogue number	block	retainer
2274671	SM07	C87HDS - G	LR87 RETAINER

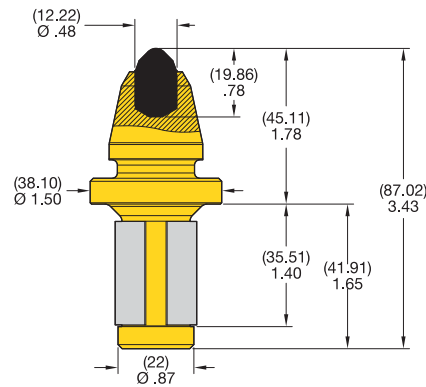
NOTE: Conical includes retainer.
Block and additional retainers sold separately.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
2274671	SM07	bucket	50	16.5	36.0	2,500	825	1800

Dimensions shown in (millimetres) and inches.





SM06

order number	catalogue number	block	retainer
1010815	SM06	C87HDS - G	LR87 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1010815	SM06	bucket	50	14.5	34.0	2,500	725	1700

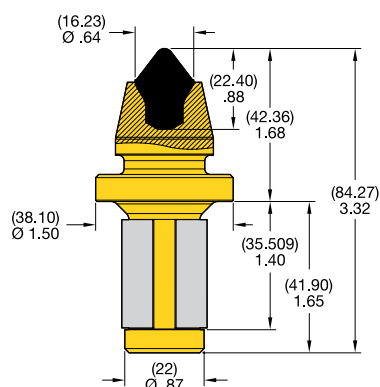
Dimensions shown in (millimetres) and inches.



SM Series — Unique Design to Maximise Cutting Capabilities

Narrow Bottom (NB) Tips

- Superior strength by providing maximum steel support and longer sharp profile life.
- Combines abrasive resistance of a cap tip and impact resistance of a plug tip.
- Triple-angle insert carbide for hard conditions.



SM09

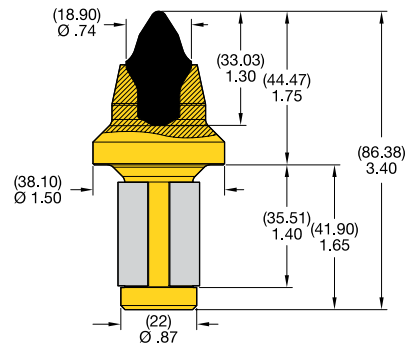
order number	catalogue number	block	retainer
4143706	SM09	C87HDS - G	LR87 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4143706	SM09	bucket	50	15.0	33.5	2,500	750	1675

Dimensions shown in (millimetres) and inches.



SM08

order number	catalogue number	block	retainer
3663476	SM08	C87HDS - G	LR87 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

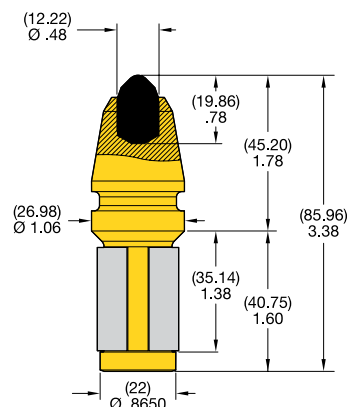
Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
3663476	SM08	bucket	50	16.5	36.0	2,500	825	1800

Dimensions shown in (millimetres) and inches.



SL04

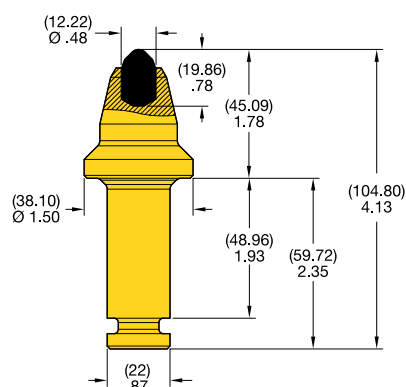


order number	catalogue number	block	retainer
1010795	SL04	C87HDS - G	LR87 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.



SL07



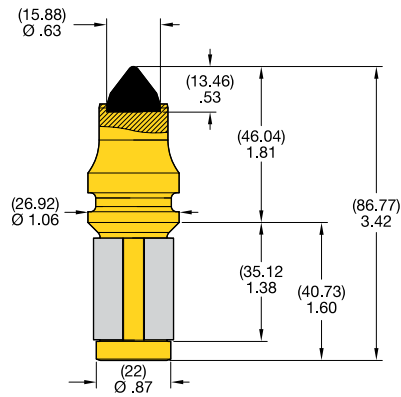
order number	catalogue number	block	retainer
1809484	SL07	SLB01 - G	SLR RETAINING RING

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1010795	SL04	bucket	60	16.2	36.0	3,000	810	1800
1809484	SL07	bucket	40	15.2	33.6	2,000	760	1680

Dimensions shown in (millimetres) and inches.



■ SL02

order number	catalogue number	block	retainer
1010797	SL02	C87HDS - G	LR87 RETAINER

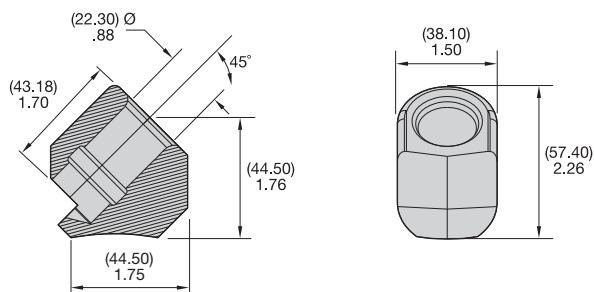
NOTE: Conical includes retainer.
Block and additional retainers sold separately.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1010797	SL02	bucket	70	17.5	39.2	3,500	875	1960

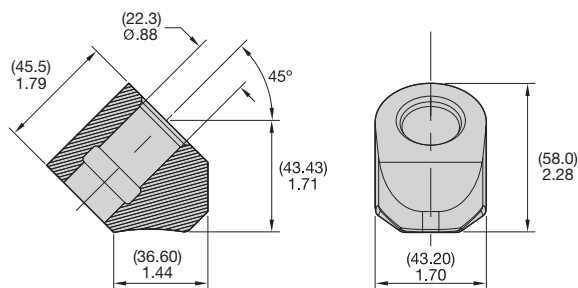
Dimensions shown in (millimetres) and inches.





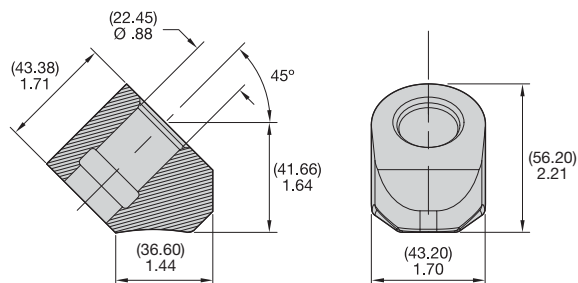
■ C87G

order number	catalogue number
1012234	C87 - G



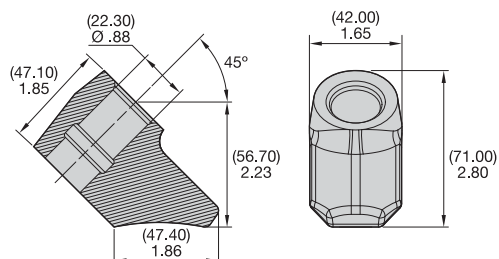
■ C87HDS - G

order number	catalogue number
1012290	C87HDS - G



■ C87E - G

order number	catalogue number
1012365	C87E - G



■ SLB01 MACHINING

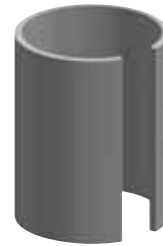
order number	catalogue number
1858587	SLB01 - G

■ LR87D



order number	catalogue number
3518626	LR87D SP RETAINER

■ LR87 SPRING STEEL



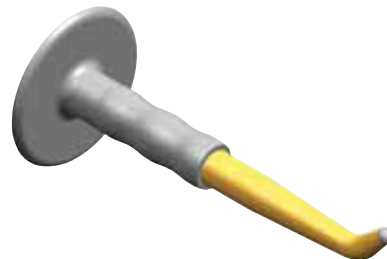
order number	catalogue number
1011935	LR87 RETAINER

■ C123 PULLER



order number	catalogue number
1012016	C123/U50 HAMMER PULLER

■ KHP2 KMTL PUNCH W/HAND GRIP



order number	catalogue number
1012247	KHP2 KMTL PUNCH

■ SLR RETAINING RING



order number	catalogue number
1817888	SLR RETAINING RING

■ C21R PULLER



order number	catalogue number
1012348	C21R REMOVER TOOL W/ GRIP



19mm–20mm Trenching Systems

Small Chain Trenchers

Whether you are cutting a small or big trench for landscaping, plumbing, or electrical applications, you want tooling that provides the highest productivity across every trenching job you do. Kennametal cutting systems make the most of your investment, offering higher efficiency and productivity year after year.

**Walk Behind
Trencher**



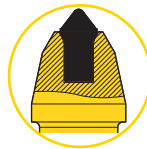
**Riding
Trencher**



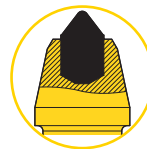
Conicals

Our C21F and C21FHD conicals feature:

- Solid carbide tips in two different styles for better penetration and higher impact strength in soft to hard cutting conditions.



Narrow Bottom



Plug Tip



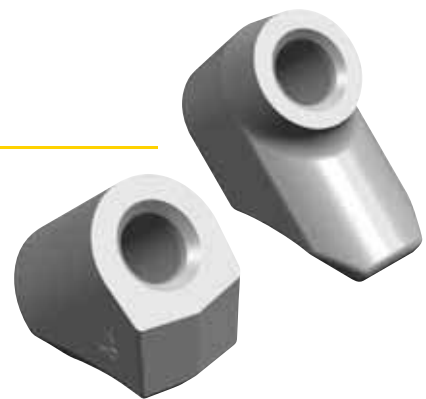
- Extra-wide collar for superb block face protection.
- Puller groove for easier conical removal.

- Dimpled retainer for excellent holding power in the block in high-RPM machines.

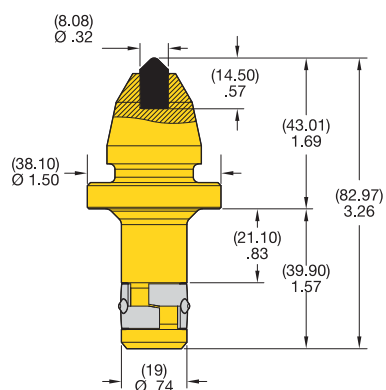
Blocks

Our blocks are ideal for challenging trenching applications and features:

- Increased height for clearance of externally retained tools.
- Larger footprint for increased weld strength and stability.



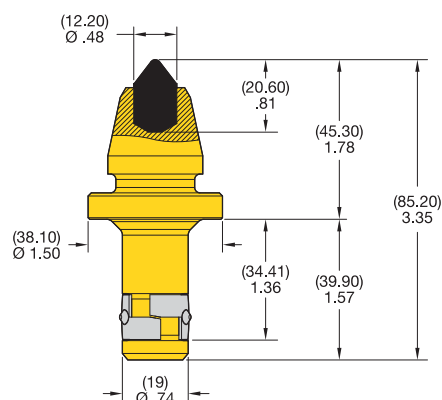
C21F



order number	catalogue number	block	retainer
5169049	C21F	C20/U43NS	U43K

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

C21F HD



order number	catalogue number	block	retainer
5169340	C21F HD	C20/U43NS	U43K

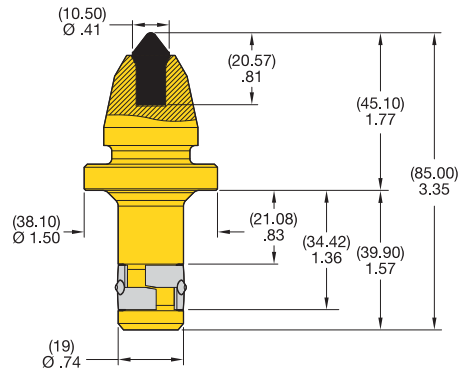
NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
5169049	C21F	bucket	50	12.5	27.5	2500	625	1375
5169340	C21F HD	box	50	13.0	29.0	2500	650	1450

Dimensions shown in (millimetres) and inches.

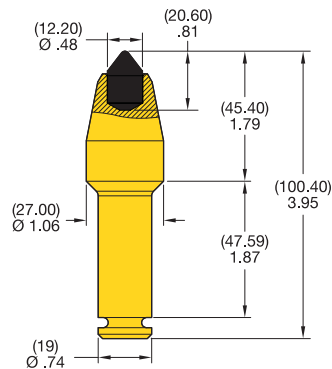
■ C21F 11NB



order number	catalogue number	block	retainer
1253937	C21F 11NB	C20/U43NS	U43K

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

■ C21RHD



order number	catalogue number	block	retainer
1010804	C21RHD	C20/U43NS	C21R RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

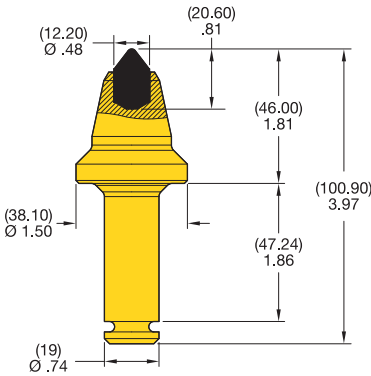
■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1253937	C21F 11NB	box	50	13.0	28.5	2500	650	1425
1010804	C21RHD	box	60	16.2	36.0	3000	810	1800

Dimensions shown in (millimetres) and inches.



■ C21RFHD



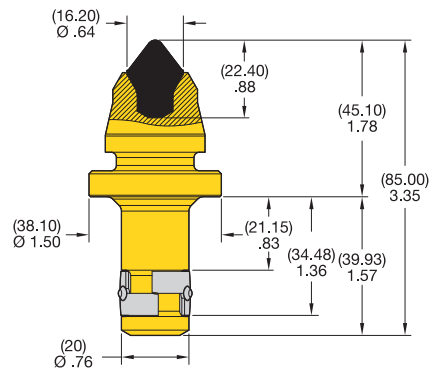
order number	catalogue number	block	retainer
1780648	C21RFHD	C20/U43NS	C21R RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

■ Packaging Information

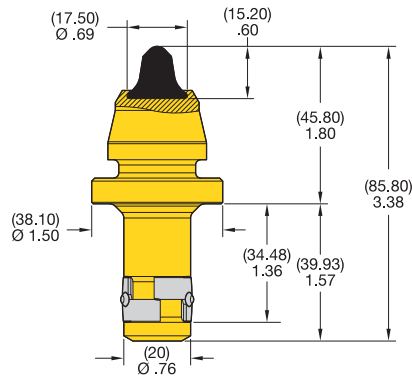
order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1780648	C21RFHD	box	50	16.0	35.0	2500	800	1750

Dimensions shown in (millimetres) and inches.

■ RS17


order number	catalogue number	block	retainer
1156107	RS17	C10HD BLOCK	C10 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

■ RS14


order number	catalogue number	block	retainer
1156160	RS14	C10HD BLOCK	C10 RETAINER

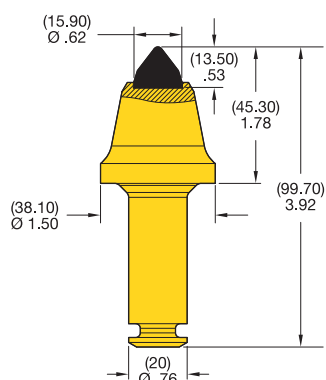
NOTE: Conical includes retainer.
Block and additional retainers sold separately.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1156107	RS17	box	70	19.6	43.4	4200	1176	2604
1156160	RS14	box	70	18.9	41.3	4200	1134	2478

Dimensions shown in (millimetres) and inches.

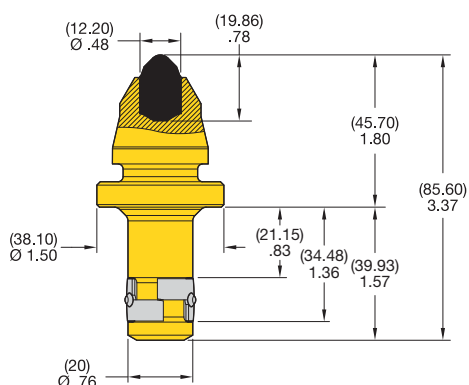
C3R



order number	catalogue number	block	retainer
1010910	C3R	C3RB BLOCK	C3R RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

RS16



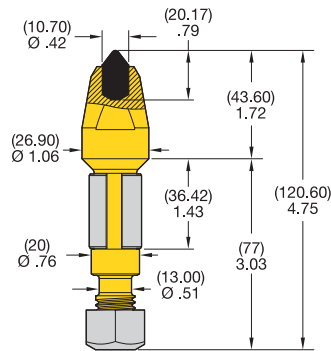
order number	catalogue number	block	retainer
1156102	RS16	C10HD BLOCK	C10 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

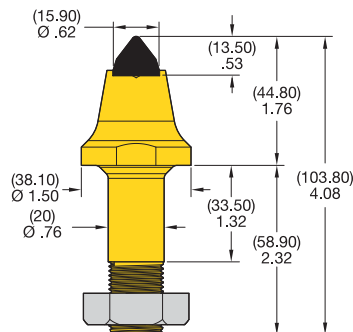
order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1010910	C3R	bucket	40	13.6	30.0	2000	680	1500
1156102	RS16	box	70	19.6	43.4	2800	784	1736

Dimensions shown in (millimetres) and inches.

■ C1LRT


order number	catalogue number	block	retainer
1010978	C1LRT	C3RB BLOCK	LR76 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

■ C 3T


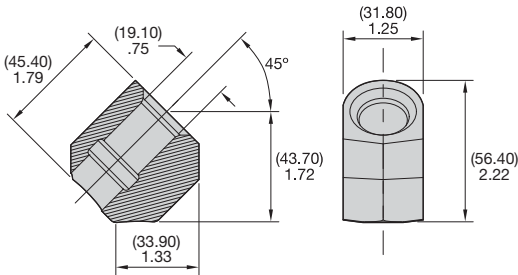
order number	catalogue number	block	retainer
1010734	C 3T	C3RB BLOCK	3/4 16UNF NUT

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

■ Packaging Information

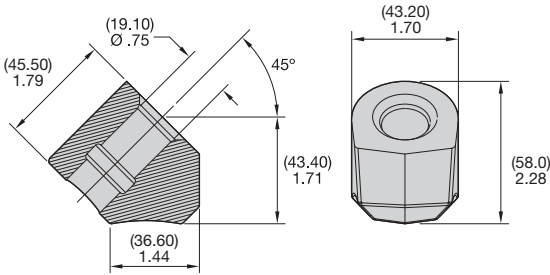
order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1010978	C1LRT	bucket	40	12.4	27.6	2000	620	1380
1010734	C 3T	bucket	30	11.1	24.6	1500	555	1230

Dimensions shown in (millimetres) and inches.



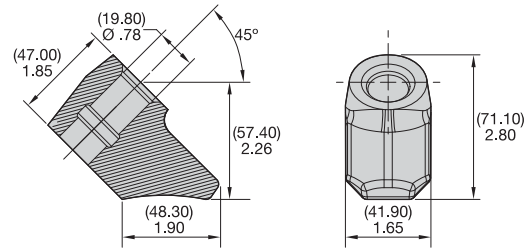
■ C20/U43NS BLK

order number	catalogue number
1012273	C20/U43NS



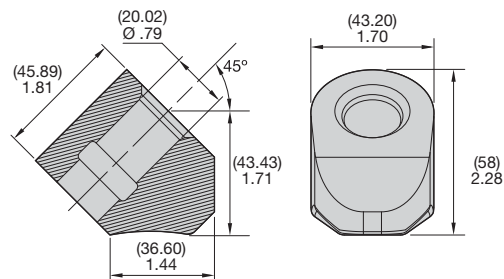
■ C20HD BLOCK

order number	catalogue number
1012276	C20HD BLOCK



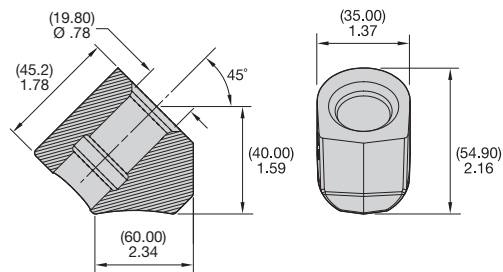
■ C3RB

order number	catalogue number
1886760	C3RB BLOCK



■ C10HD Block

order number	catalogue number
1012289	C10HD BLOCK



■ C10 Block

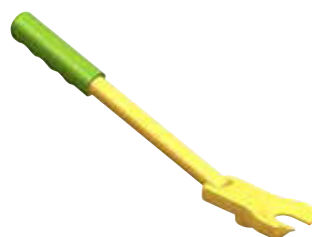
order number	catalogue number
1012278	C10 BLOCK

■ C10 Retainer



order number	catalogue number
1011965	C10 RETAINER

■ C123/U50 HAMMER PULLER



order number	catalogue number
1012016	C123/U50 HAMMER PULLER

■ U43K Retainer



order number	catalogue number
1011978	U43K

■ C20/U43HP BIT PULLER ASSEM



order number	catalogue number
1011984	C20/U43HP BIT PULLER ASSEM

■ C21R Retainer



order number	catalogue number
1011961	C21R RETAINER

■ C21R PULLER



order number	catalogue number
1012348	C21R REMOVER TOOL W/ GRIP

■ C3R Retainer



order number	catalogue number
1012120	C3R RETAINER

■ LR76 Retainer



order number	catalogue number
1011942	LR76 RETAINER

■ 3/4 16UNF NUT

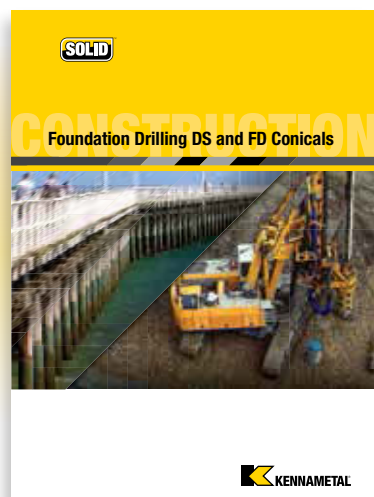


order number	catalogue number
1011884	3/4 16UNF NUT

■ M16 X 2 STOVER LOCK NUT



order number	catalogue number
1080452	M16 X 2 STOVER LOCK NUT



Looking for conicals not in this catalogue?
Additional conicals are available in the Foundation Drilling
DS and FD Conicals catalogue, B-15-04356.



11mm–14mm Trenching Systems

Microtrencher/Horizontal Directional Drilling

As technology advances, mini- and micro-trenching are playing a more significant role. Large, open-cut trenches are being replaced with narrow cuts (from 2–0.5" wide) to lay fibre-optic cable and conduit.

Micro-trenching offers increased efficiencies with narrow, shallow cuts accomplished in less time with fewer disturbances in busy environments. Our new CM Mini Series offers a range of small-diameter blocks and bits in Narrow Bottom (NB), plug, and cap-style tips for a wide range of trenching requirements. The CM61 features a small-diameter tip designed for increased penetration. By comparison, the CM65 features a wide collar for maximum block protection along with a cap carbide tip profile for excellent performance in medium to abrasive cutting conditions.

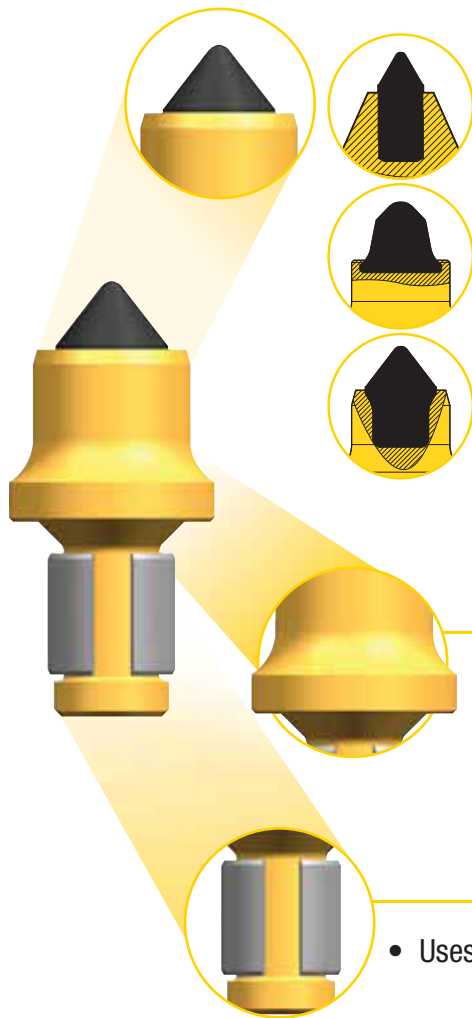
**Micro
Wheel Trencher**



**Horizontal
Directional Drilling**



Conicals



14mm (CM Series) Platform

The CM Mini Series offers a range of small diameter carbide tip styles, depending on your application:

- Plug tips feature a physical lock between steel and carbide for maximum toughness.
- Cap tips are used in abrasive applications with the carbide on the business end, not sunk into the shank.
- NB tips withstand abrasive cutting, like a cap with the physical support of a plug. Unlike a cap point that gets blunt at the end of wear life, NB tips sharpen as they wear, making them an excellent choice in rock cutting, asphalts, and abrasives.

- Wide collar provides maximum block protection.

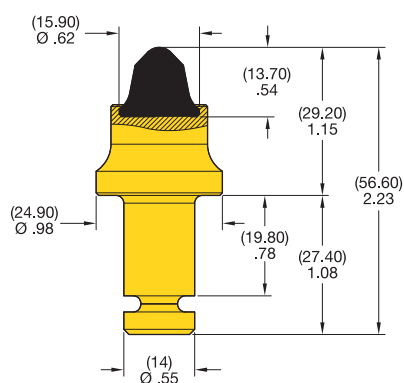
- Uses easy-to-install/remove LR55 sleeve retainer for extended bore life.

Block Systems

Features cannon-style face for improved tool rotation and larger base for stability and weld strength.



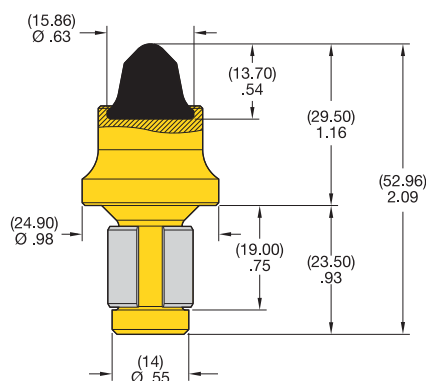
CM63



order number	catalogue number	block	retainer
1795208	CM63	—	CM6H RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

CM65



order number	catalogue number	block	retainer
1876905	CM65	CMB6-L	LR55 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

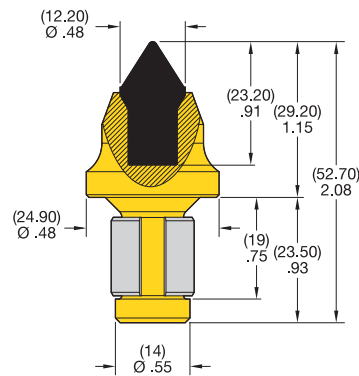
Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1795208	CM63	bucket	150	15.0	31.5	7,500	750	1575
1876905	CM65	bucket	150	13.5	30.8	7,500	675	1538

Dimensions shown in (millimetres) and inches.

NEW!

CM71T

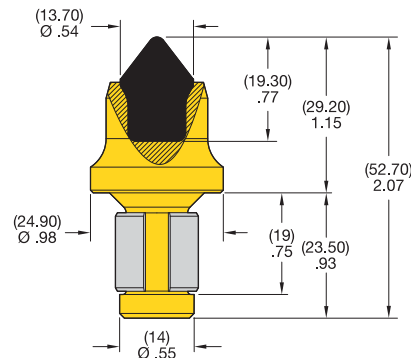


order number	catalogue number	block	retainer
5551671	CM71T	CMB6-L	LR55 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

NEW!

CM69T



order number	catalogue number	block	retainer
5551288	CM69T	CMB6-L	LR55 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

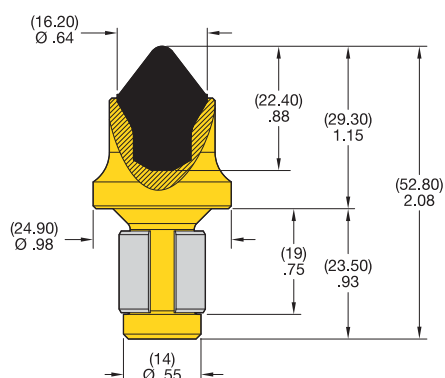
order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
5551671	CM71T	bucket	150	13.5	30.0	7,500	675	1500
5551288	CM69T	bucket	150	13.5	28.5	7,500	675	1425

Dimensions shown in (millimetres) and inches.



NEW!

CM70T



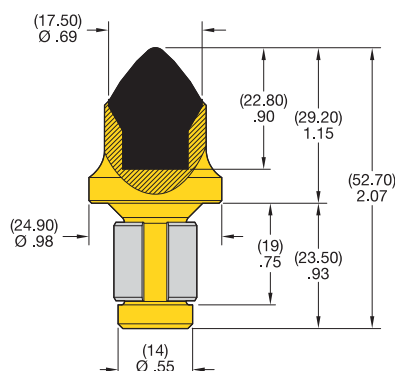
order number	catalogue number	block	retainer
5519207	CM70T	CMB6-L	LR55 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.



NEW!

CM72T



order number	catalogue number	block	retainer
5519208	CM72T	CMB6-L	LR55 RETAINER

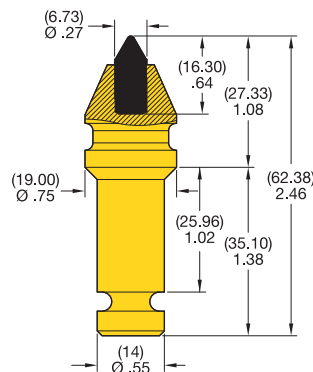
NOTE: Conical includes retainer.
Block and additional retainers sold separately.

■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
5519207	CM70T	bucket	150	15.0	21.0	7,500	750	1050
5519208	CM72T	bucket	150	15.0	34.5	7,500	750	1725

Dimensions shown in (millimetres) and inches.

Horizontal Directional Drilling



CM61



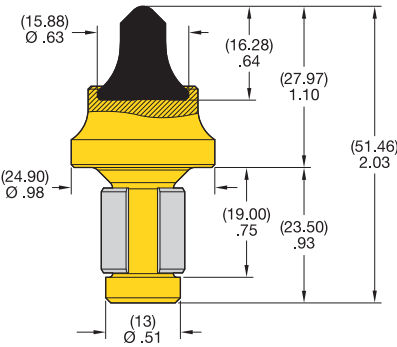
order number	catalogue number	block	retainer
1094015	CM61	—	CM6L RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1094015	CM61	bucket	100	8.0	17.9	5,000	400	895

Dimensions shown in (millimetres) and inches.



■ CM51

order number	catalogue number	block	retainer
4080539	CM51	CMB5 BLOCK	LR51 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

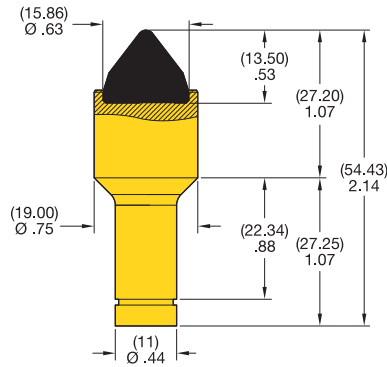
■ Packaging Information

order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
4080539	CM51	bucket	200	16.0	34.0	10,000	800	1700

Dimensions shown in (millimetres) and inches.



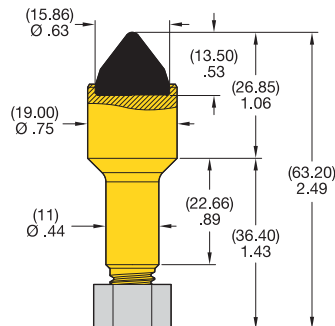
CM42



order number	catalogue number	block	retainer
1010778	CM42	CMB4 BLOCK	CM4 RETAINER

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

CM41



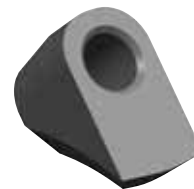
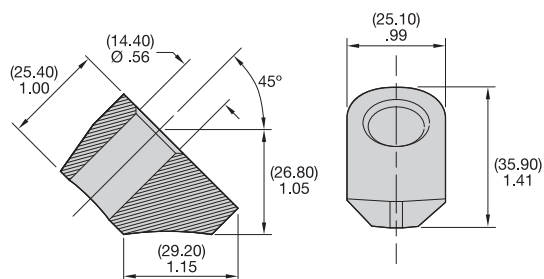
order number	catalogue number	block	retainer
1010827	CM41	CMB4 BLOCK	3/8 16UNC NUT

NOTE: Conical includes retainer.
Block and additional retainers sold separately.

Packaging Information

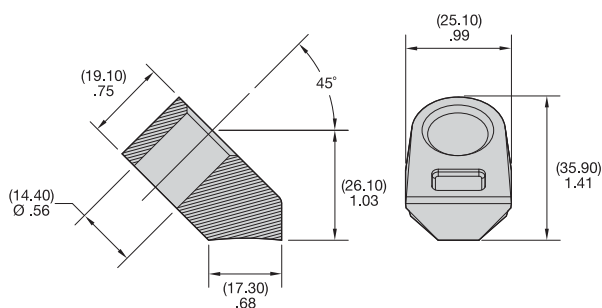
order number	catalogue number	container type	pieces per container	container weight (approximate)		pieces per pallet	pallet weight (approximate)	
				kg	lbs		kg	lbs
1010778	CM42	bucket	200	16.0	34.0	10,000	800	1700
1010827	CM41	bucket	200	16.0	34.0	10,000	800	1700

Dimensions shown in (millimetres) and inches.



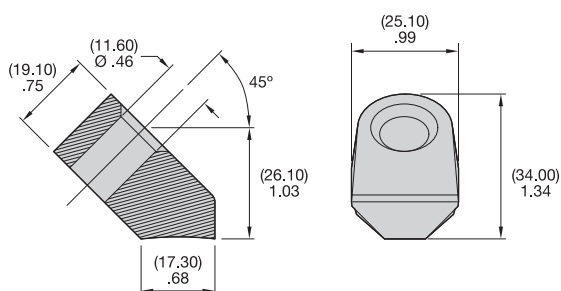
CMB6-L

order number	catalogue number
1898353	CMB6-L



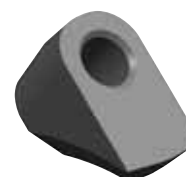
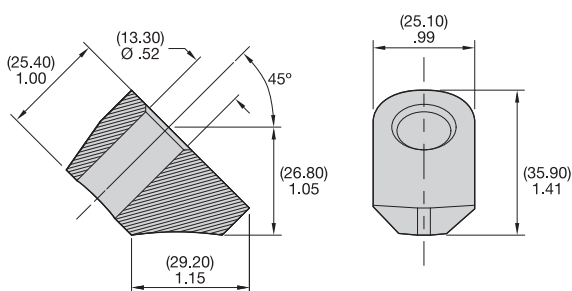
CMB6

order number	catalogue number
1321008	CMB6



CMB4

order number	catalogue number
1012281	CMB4 BLOCK



CMB5

order number	catalogue number
5031028	CMB5 BLOCK

■ CM6L LOCK RING



order number	catalogue number
1595671	CM6L RETAINER

■ CM6H HAIRPIN



order number	catalogue number
1777806	CM6H RETAINER

■ CM4 SNAP RING RETAINER



order number	catalogue number
1012223	CM4 RETAINER

■ 3/8 16UNC Steel Centrelock Locknut



order number	catalogue number
1012357	3/8 16UNC NUT

■ LR55



order number	catalogue number
1890174	LR55 RETAINER

■ LR51



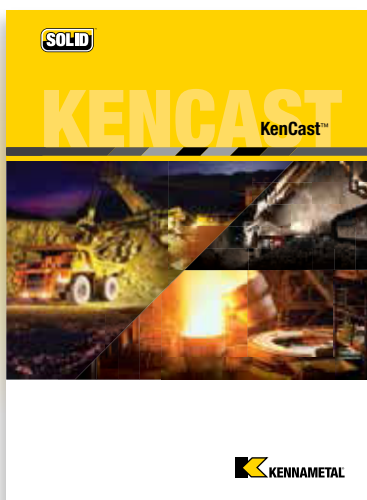
order number	catalogue number
4080877	LR51 RETAINER



Wear Solutions

Trenching and Surface Miner equipment takes your tooling into rough conditions. Unprotected tooling can suffer wear damage that can slow or even halt production. You can't afford that.

Kennametal is the global benchmark for effectively combating extreme wear. Regardless of how demanding the environment, we provide an unbeatable portfolio of affordable, best-in-class solutions.



For additional information on KenCast, including ordering data, please refer to our online brochure B-15-04697 at www.kennametal.com.

**Large Chain
Trencher**



**Large
Wheel Trencher**



Wear Solutions

Kennametal develops **Engineered Solutions** because we know that every customer has unique requirements that can't accept a "one-size-fits-all" solution. By working directly with customers, we utilise in-house expertise and capabilities to provide custom, finished solutions quickly.

Weight Reduction can be critical in reducing overall costs. Excess weight translates into higher costs in tires, fuel, and maintenance. By employing advanced material solutions, Kennametal can improve the life of your equipment while reducing weight — saving you valuable time and money.

100% Safe Is Kennametal's Goal. Anytime there is a shutdown for maintenance, the risk for safety issues increases. By utilising Kennametal solutions to extend tool life, we assist in improving safety conditions: less welding, less movement of materials, and less of a need for scaffolding to replace worn out liners means a safer environment.

Consider **Price vs. Cost.** Many customers reference "cost per pound or kilo" as a method to measure costs. However, many do not consider the overall cost of the product:

- Downtime for maintenance to repair and replace tools results in lost production.
- Producing and managing Drop Management, if buying plate, adds time to the process.

Extended Uptime is an excellent measurement of value. Our goal is to keep you up and running, because more uptime means:

- Equipment running, generating profits.
- Reduced risks for safety issues.
- Employees are hard at work, rather than concentrating on maintenance issues.



Protect Your Trenching Wheels and Chains with Maximum-Duty Kennametal KenCast[™]

Your trenching wheels and chains run in the toughest conditions. Protect them with Kennametal KenCast[™], a composite material that combines the exceptional wear resistance of Kennametal cemented tungsten carbide with the toughness and practicality of air-hardened steel. KenCast comes in a variety of standard sizes, is easily welded to your equipment, and is more breakage-resistant than brazed carbide tiles.

Add KenCast to increase equipment life:

Saws:

- Side of wheel
- Bolt-on segment

Trenchers:

- Side-of-base plates
- Paddles on base plates or drums



For more information, please contact your Kennametal Sales Engineer or visit, <http://www.kennametal.com/kencast>.

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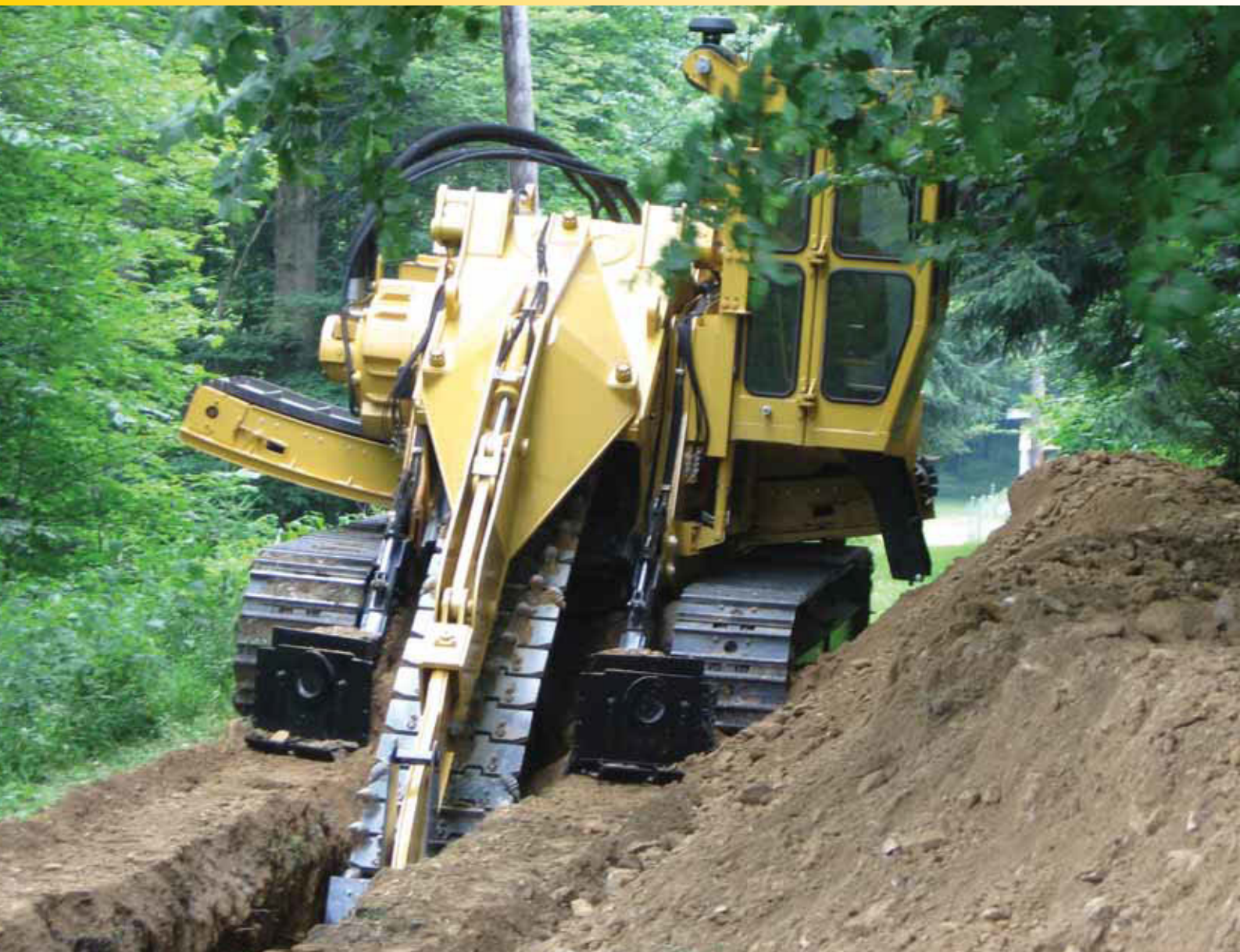
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