



# Road King™

Rotating Tungsten Carbide Picks  
Pick Changing Tools



Divide and conquer  
on the road!

# ROAD KING™

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Kennametal's commitment to solving the most demanding road rehabilitation projects is unmatched. We have a long history of helping customers achieve success and a tradition of exceeding customers' expectations. Our experts are available to help you improve your profitability by providing world-class solutions that redefine and advance the earthworks industry.



**MISSION** Maximize customers' productivity and performance in demanding environments with innovative wear-resistant solutions developed through our advanced materials sciences, application knowledge, and commitment to sustainability.

# The New Road King™ — Heavy Body

Rotating Tungsten Carbide Pick • 20mm (.76 in.) Shank

New **carbide picks** with enhanced body shape, retainer, and washer provide outstanding performance.

**Body rib zone** increases clearance as pick wears, decreasing drag on your drum.

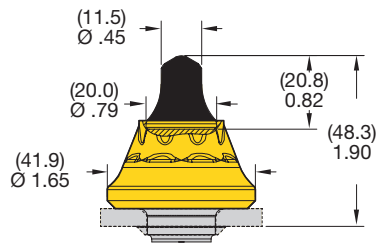
**Full body shape and new washer** provides extra wear protection and improves your total cost.

**Retainer with bidirectional tabs** offers you better consistency with rotation and retention.



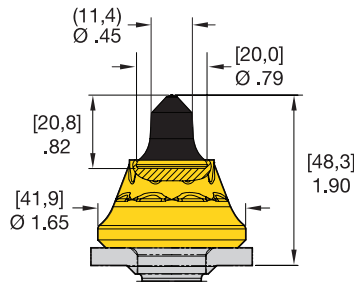


### Heavy-Body Road King™ 20mm (.76 Inch) • RK52



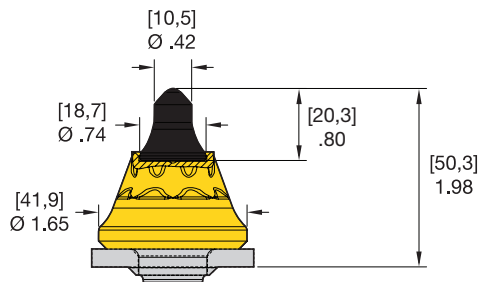
order number	catalog number	pieces per box	pieces per pallet
7102649	RK52	45	2700

### Heavy-Body Road King 20mm (.76 Inch) • RK54



order number	catalog number	pieces per box	pieces per pallet
7036807	RK54	50	3000
7140572	RK54 45 BOX	45	2700

### Heavy-Body Road King 20mm (.76 Inch) • RK42

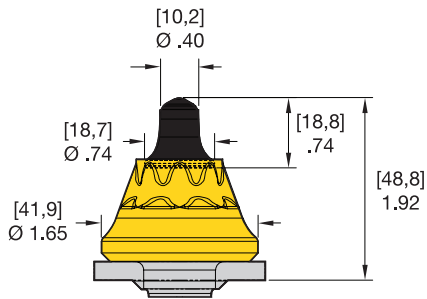


order number	catalog number	pieces per box	pieces per pallet
7049459	RK42	45	2700



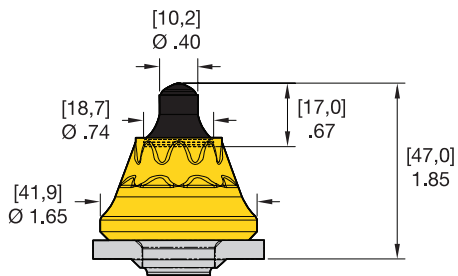
Dimensions shown in (millimeters) and inches.

### Heavy-Body Road King™ 20mm (.76 Inch) • RK32



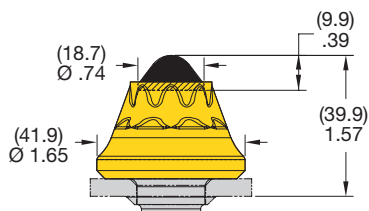
order number	catalog number	pieces per box	pieces per pallet
7036935	RK32	50	3000
7140484	RK32 45 BOX	45	2700

### Heavy-Body Road King 20mm (.76 Inch) • RK31



order number	catalog number	pieces per box	pieces per pallet
7063167	RK31	50	3000
7140485	RK31 45 BOX	45	2700

### Heavy-Body Road King 20mm (.76 Inch) • RK24



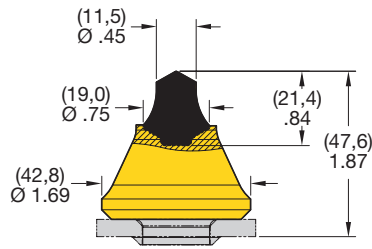
order number	catalog number	pieces per box	pieces per pallet
7118624	RK24	45	2700



Dimensions shown in (millimeters) and inches.

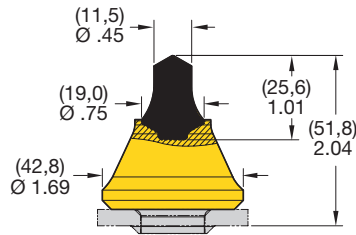


### Heavy-Body Road King™ 20mm (.76 Inch) • RK41 A



order number	catalog number	pieces per box	pieces per pallet
7131118	RK41 A	45	2700

### Heavy-Body Road King 20mm (.76 Inch) • RK51

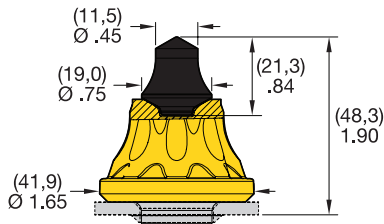


order number	catalog number	pieces per box	pieces per pallet
7131119	RK51	45	2700



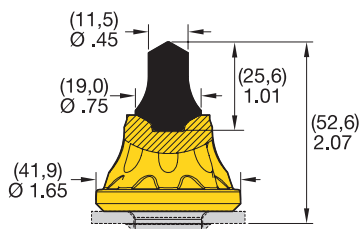
Dimensions shown in (millimeters) and inches.

### Heavy-Body Road King™ 20mm (.76 Inch) • RK4-01



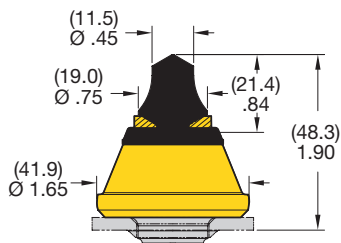
order number	catalog number	pieces per box	pieces per pallet
6080818	RK4-01	50	3000

### Heavy-Body Road King 20mm (.76 Inch) • RK5-01



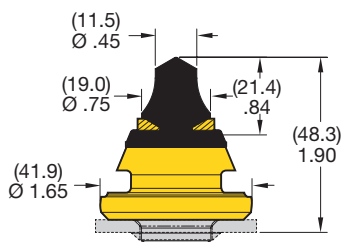
order number	catalog number	pieces per box	pieces per pallet
6080819	RK5-01	50	3000

### Heavy-Body Road King 20mm (.76 Inch) • RC4-01 RING

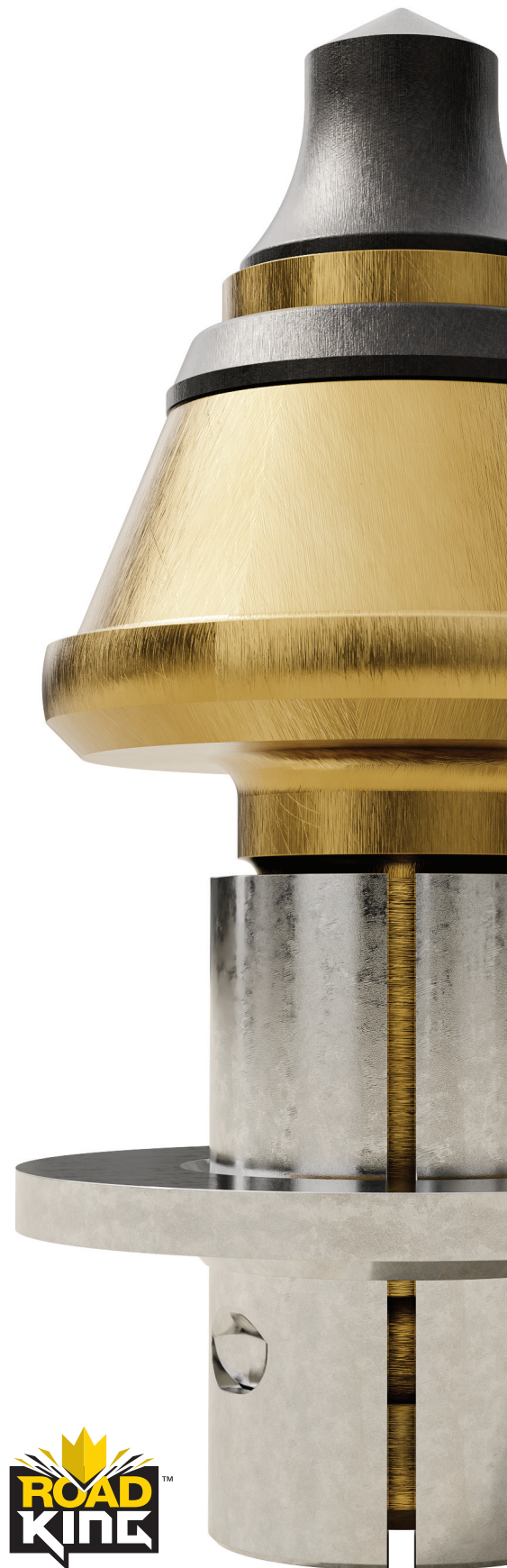


order number	catalog number	pieces per box	pieces per pallet
689982	RC4-01 RING	50	3000

### Heavy-Body Road King 20mm (.76 Inch) • RC4-01P RING



order number	catalog number	pieces per box	pieces per pallet
6899668	RC4-01P RING	50	3000



Dimensions shown in (millimeters) and inches.

# ROAD KING™

## Road Rehabilitation Solutions

### CASE STUDY

**ORIGINAL ROAD KING, SMALLER WEAR PLATE, LESS HOLDER PROTECTION**

**NEW GENERATION OF ROAD KING MORE HOLDER PROTECTION**

**NEW DESIGN RETAINER OFFERS BETTER CONSISTENCY WITH RETENTION**

**NEW DESIGN BIGGER CARBIDE THAN RK5-04**

**BETTER DESIGN LESS DRAG ON POWER COMPARED TO RZ5-02**

APPLICATION	PROBLEM	SOLUTION	RESULT	ADDED BENEFITS
ROAD REHABILITATION: Hard Asphalt Removal	WEAR OF CURRENT PICKS: Degrade Quickly toward End of Life	ROAD KING RK52 PICKS: Precision-Engineered for Durability and Cutting Strength	DECREASED WEAR AND TEAR: Longer Tool Life	SUPERIOR HOLDER PROTECTION AND EASY PENETRATION: Enhanced Road Milling Machine Performance

### KENNAMETAL INNOVATION GIVES CLIENTS A CHOICE

A client operating a high-horsepower, half-lane road milling machine to remove asphalt was interested in comparing existing supplier's picks to Kennametal's Road King series. The client wanted to know how both sets of tools stacked up in terms of lifespan, body wear, carbide wear, and retainer and washer wear.

### MEET THE ROAD KING RK52

Our RK52 road rehabilitation pick is precision-engineered for durability and cutting strength, combining superior holder protection and easy penetration to drive exceptional machine performance.

### ROAD TEST CONDITIONS

The client decided on a split-drum comparison, with 100 RK52 tools placed on the right side and the incumbent supplier on left side of the 2.2m milling drum. The drum was of average mid-life condition, and its OEM holders showed significant yet consistent wear across the drum to still leave a nice pattern.

The test was conducted over two days in October 2023, with rain and wet surface conditions the entire time. Two inches of hard asphalt road surface were removed over a distance of 30,000 feet, with both sets of tools checked by the milling machine's operators at the middle and end of each work day.



*Kennametal RK52 picks at job completion. Body shape creates extra clearance under the tip and extra slope for holder protection.*

### TOOL PERFORMANCE CONCLUSIONS

- Tool Lifespan — Both sets of tools performed similarly and were changed out at the same time towards the end of the second shift, but four non-Kennametal picks experienced premature breakage.
- Body Wear — RK52 tools showed desired hourglass shape indicating extra clearance and holder protection.
- Carbide Wear — As the picks began to work, the RK52 sharpened first and then both styles cut and wore in the expected shape. All picks were changed before completely losing their cutting point.

The machine operators preferred how the carbide tip in each RK52 pick resisted wear. And based on their experience, they believed RK52 could last even longer under different conditions!

*The information contained in this case study is intended for comparative purposes only and is based upon limited test samples. The information is no guarantee of actual future results. The information is provided "as is" without warranty of any kind, whether expressed or implied.*

### GRIND OUT MORE WITH KENNAMETAL ROAD REHABILITATION TOOLS

Want these kind of results? Talk to our experts to learn how our Road King solutions can help you rule the road.

# The New Road King™ — Slim-Body

Rotating Tungsten Carbide Pick • 20mm (.76 in.) Shank

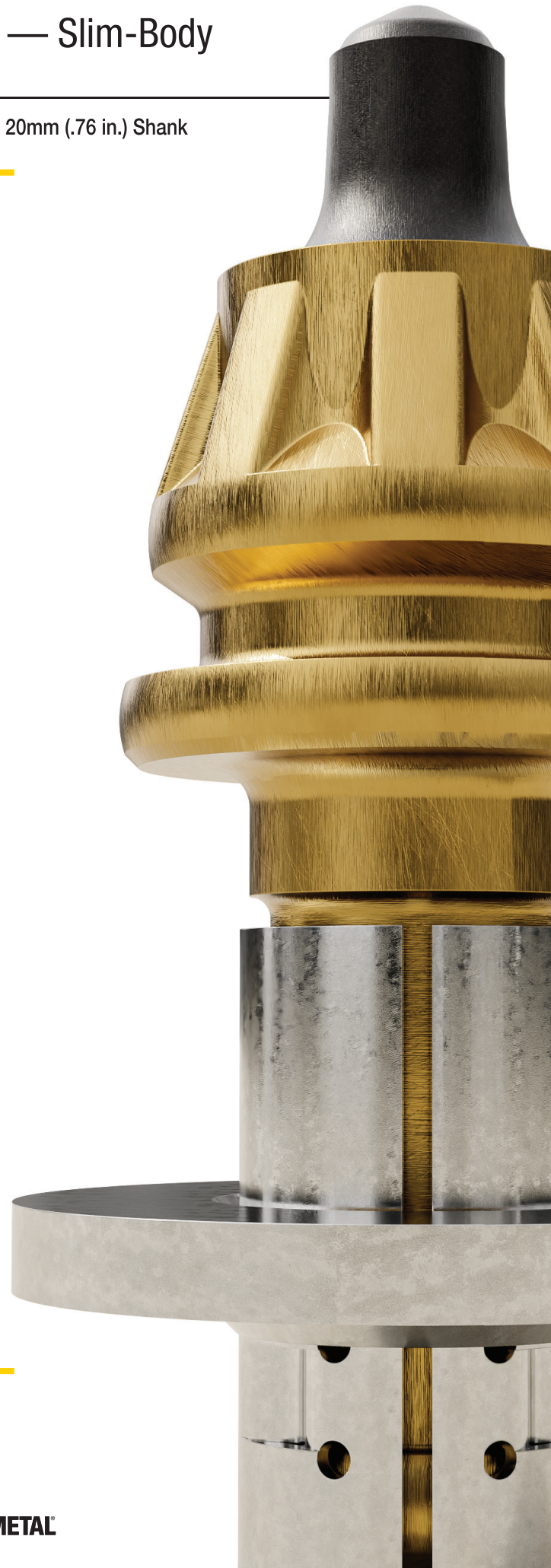
**New carbide picks** continues our industry staple carbide tips. Numbers in name recurs tip geometry.

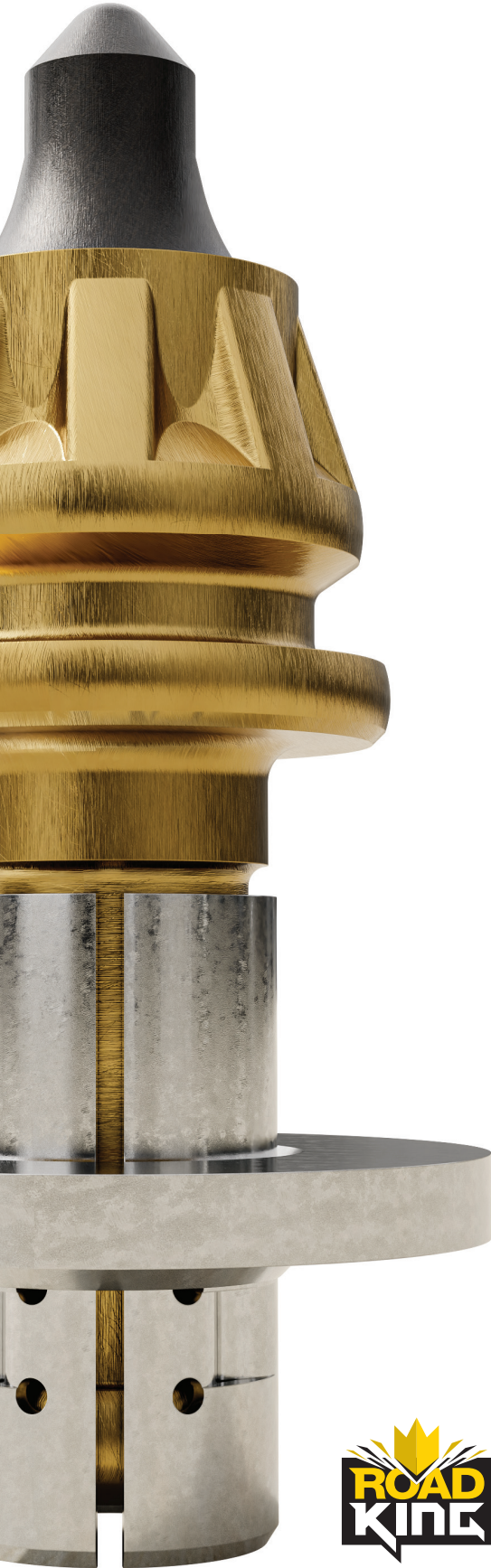
**Body rib zone** provides optimal body shape for lighter machines or fine line spacing cut patterns.

**Puller groove** for extraction with **RP PULLER (1761401)**.

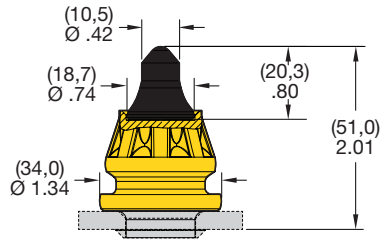
**New washer** provides extra wear protection and improves your total cost.

**Retainer with bidirectional tabs** offers you better consistency with rotation and retention.



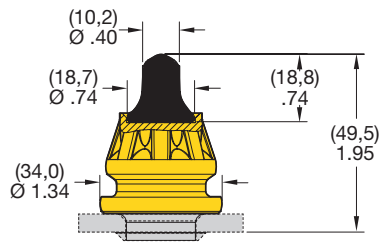


**Slim-Body Road King™ 20mm (.76 Inch) • RK42P**



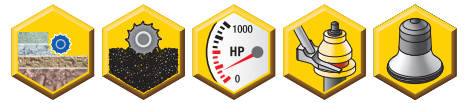
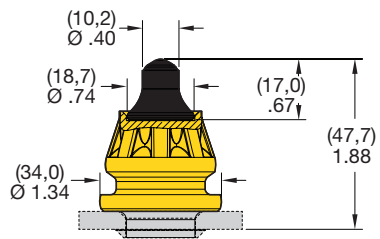
order number	catalog number	pieces per box	pieces per pallet
7131192	RK42P	50	3000

**Slim-Body Road King 20mm (.76 Inch) • RK32P**



order number	catalog number	pieces per box	pieces per pallet
7131191	RK32P	50	3000

**Slim-Body Road King 20mm (.76 Inch) • RK31P**

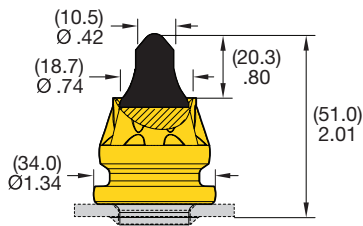


order number	catalog number	pieces per box	pieces per pallet
7131120	RK31P	50	3000



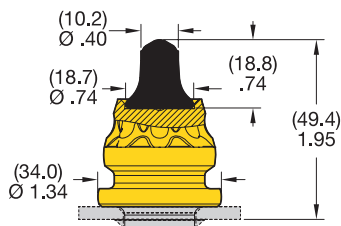
Dimensions shown in (millimeters) and inches.

**Slim-Body Road King™ 20mm (.76 Inch) • RK4-02P**



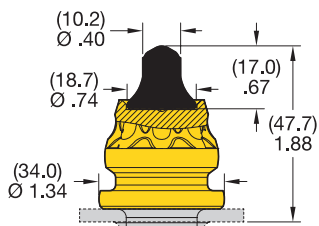
order number	catalog number	pieces per box	pieces per pallet
6299544	RK4-02P	50	3000

**Slim-Body Road King 20mm (.76 Inch) • RK3-02P**

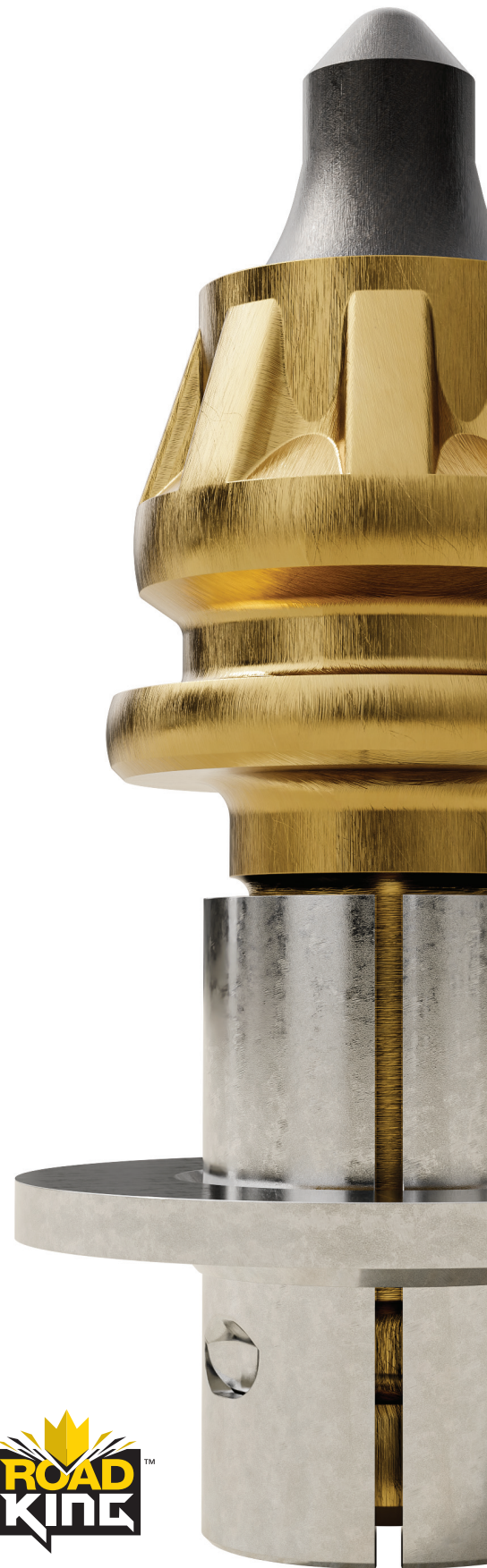


order number	catalog number	pieces per box	pieces per pallet
6299543	RK3-02P	50	3000

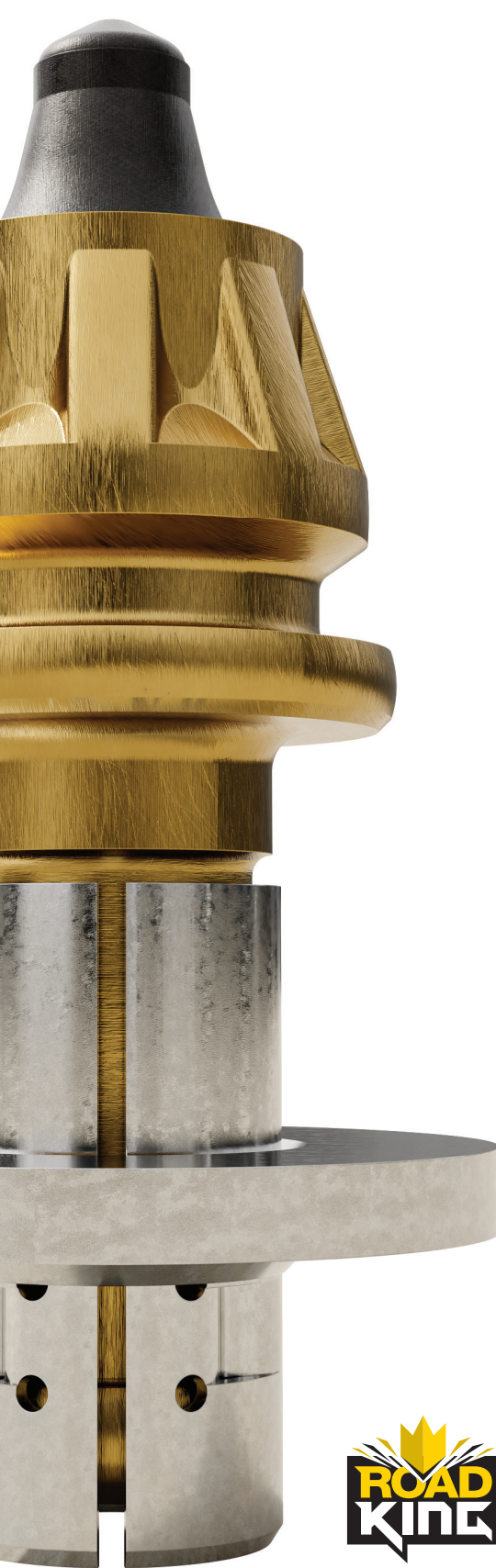
**Slim-Body Road King 20mm (.76 Inch) • RK3-01P**



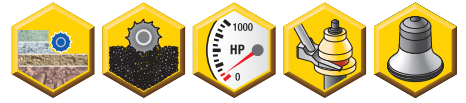
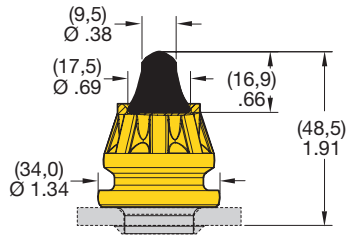
order number	catalog number	pieces per box	pieces per pallet
6299542	RK3-01P	50	3000



Dimensions shown in (millimeters) and inches.

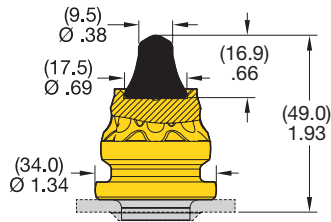


**Slim-Body Road King™ 20mm (.76 Inch) • RK22P**



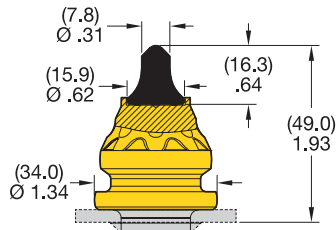
order number	catalog number	pieces per box	pieces per pallet
7131193	RK22P	50	3000

**Slim-Body Road King 20mm (.76 Inch) • RK2-02P**



order number	catalog number	pieces per box	pieces per pallet
6299500	RK2-02P	50	3000

**Slim-Body Road King 20mm (.76 Inch) • RK1-01P**

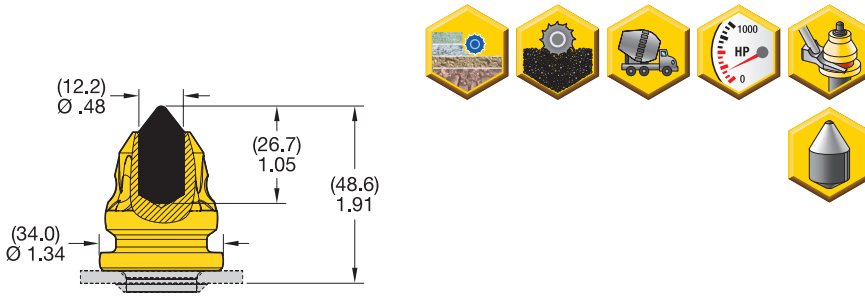


order number	catalog number	pieces per box	pieces per pallet
6299498	RK1-01P	50	3000



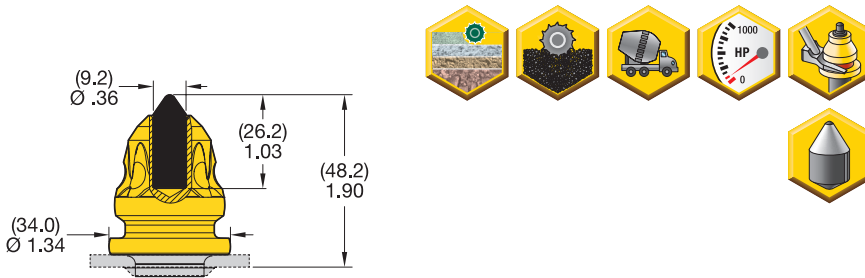
Dimensions shown in (millimeters) and inches.

### Slim-Body Road King™ 20mm (.76 Inch) • RK3-PT



order number	catalog number	pieces per box	pieces per pallet
6299547	RK3-PT	50	3000

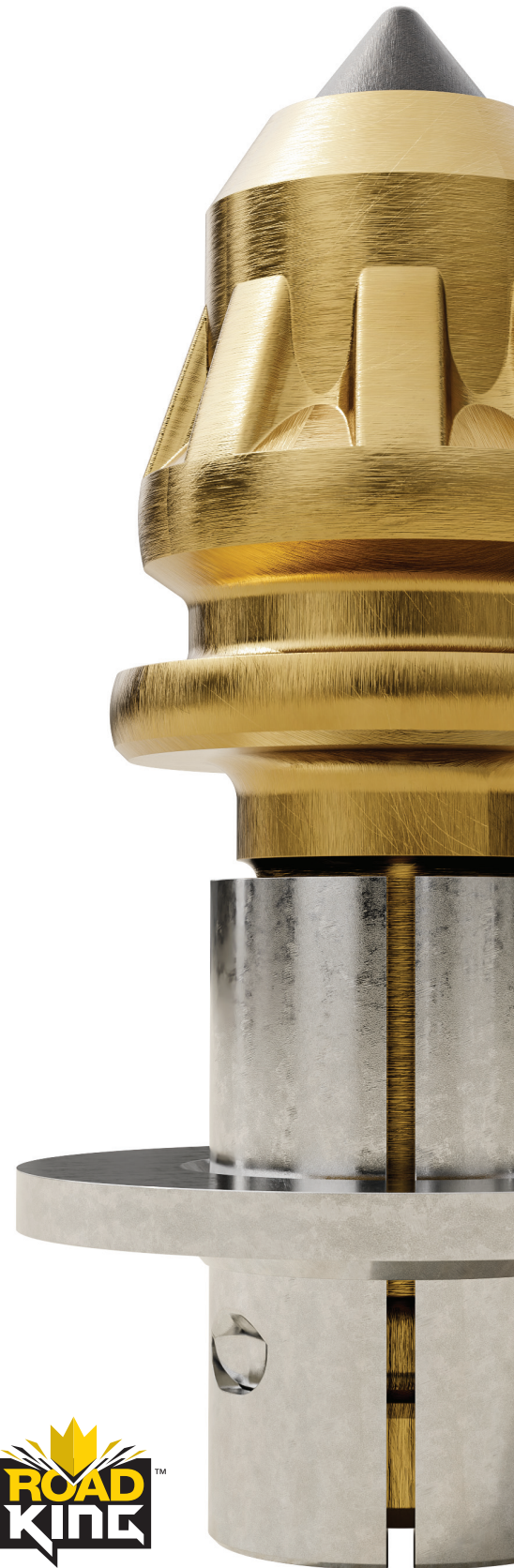
### Slim-Body Road King 20mm (.76 Inch) • RK1-PT



order number	catalog number	pieces per box	pieces per pallet
6299546	RK1-PT	50	3000

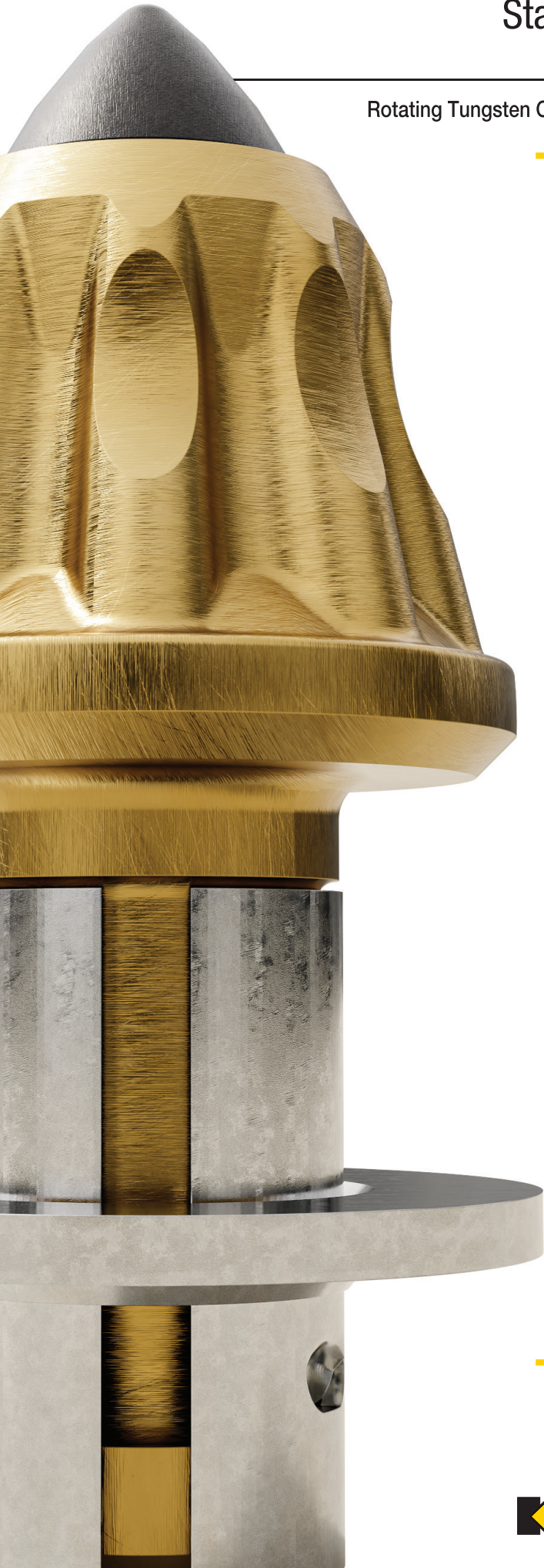


Dimensions shown in (millimeters) and inches.



## Stabilizer King

Rotating Tungsten Carbide Pick • 22mm (.87 in.) Shank



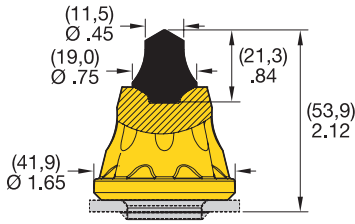
**Tips designed** to best match your application.

**Material flow along the fluted body** supports mixing and rotation behavior, resulting in increased overall tool life.

**Wide collar** deflects material from the washer and holder face, improving holder protection

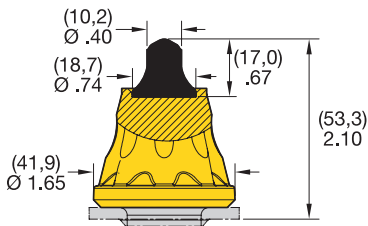
**Body design enables easy penetration**, causing less stress and wear on washer, retainer, and holder system.

### Stabilizer King 22mm (.87 Inch) • SK4-01



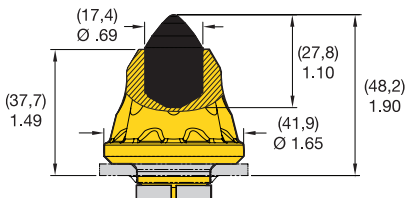
order number	catalog number	pieces per box	pieces per pallet
6080876	SK4-01	40	2400

### Stabilizer King 22mm (.87 Inch) • SK3-01



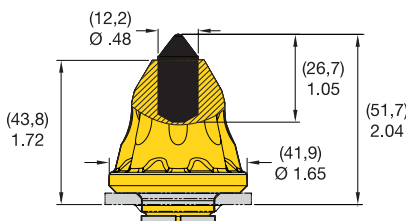
order number	catalog number	pieces per box	pieces per pallet
6080871	SK3-01	40	2400

### Stabilizer King 22mm (.87 Inch) • SK6-01T

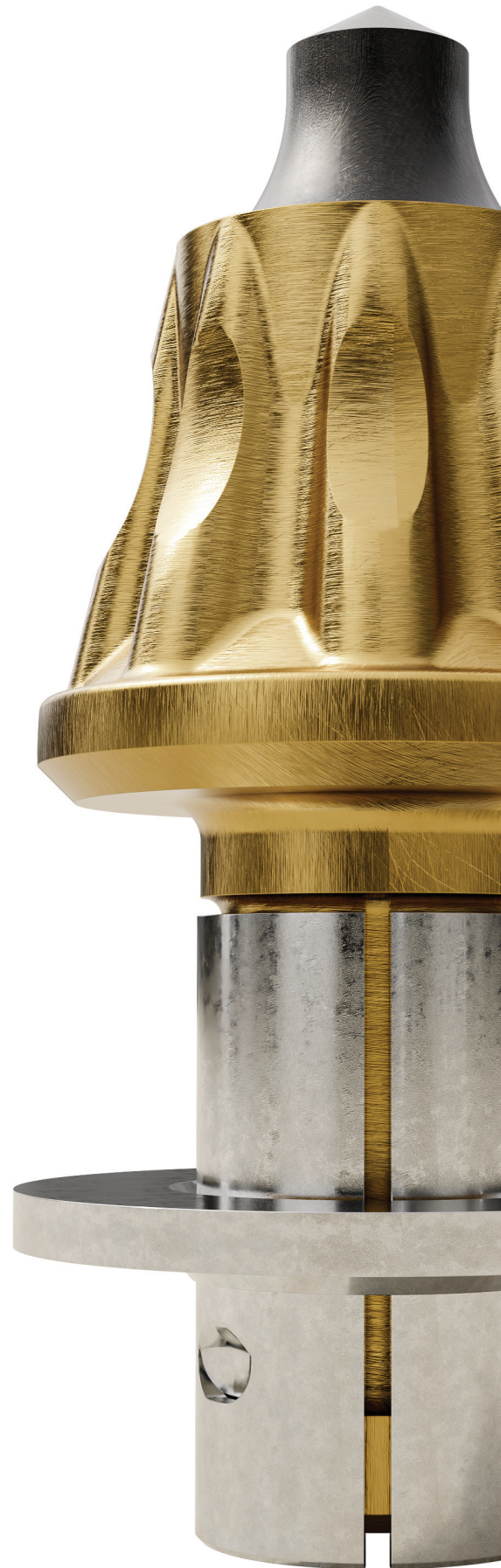


order number	catalog number	pieces per box	pieces per pallet
6517493	SK6-01T	40	2400

### Stabilizer King 22mm (.87 Inch) • SK3-01T



order number	catalog number	pieces per box	pieces per pallet
6517494	SK3-01T	40	2400



Dimensions shown in (millimeters) and inches.

## Construction Mini Picks

Rotating Tungsten Carbide Picks • Construction Mini 6 14mm (.55 in.)  
Construction Mini 5 13mm (.51 in.) and Construction Mini 4 11mm (.44 in.)



Cap tips



Narrow bottom tips

The **CM Mini Series** offers a range of carbide tip styles with small-diameter shanks.

**Cap tips** are used in abrasive applications with the carbide on the business end, not sunk into the shank.

**Narrow bottom 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, narrow bottom tips sharpen as they wear, making them an excellent choice in rock cutting and asphalts.

**Wide collar** provides maximum block protection.

**Internal friction retainer** is easy to install and remove and fits with any block style.



Scan to learn more about the block systems we offer.

**Long-style blocks** designed for easy positioning and weld-ability, only for internal friction retainer.

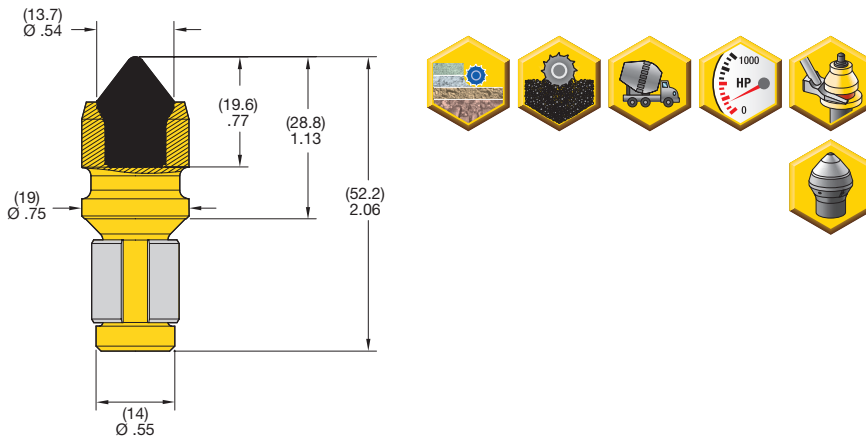
- 1898353 CMB6L BLOCK
- 5031028 CMB5L BLOCK

**Short-style blocks** have good access for picks with external retainer and punches.

- 1321008 CMB6 BLOCK
- 1012281 CMB4 BLOCK

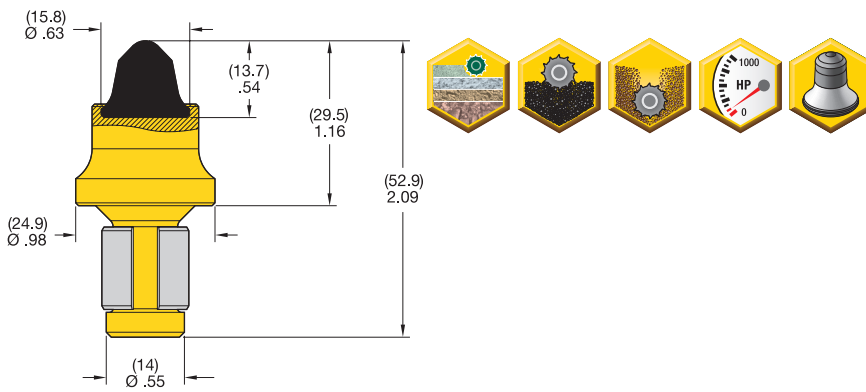


### Construction Mini 6 14mm (.55 Inch) • CM69TC



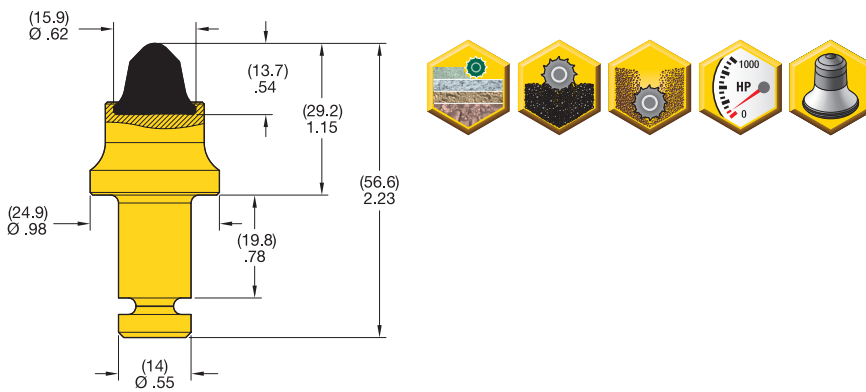
order number	catalog number	pieces per bucket	pieces per pallet
6360015	CM69TC	150	7500

### Construction Mini 6 14mm (.55 Inch) • CM65



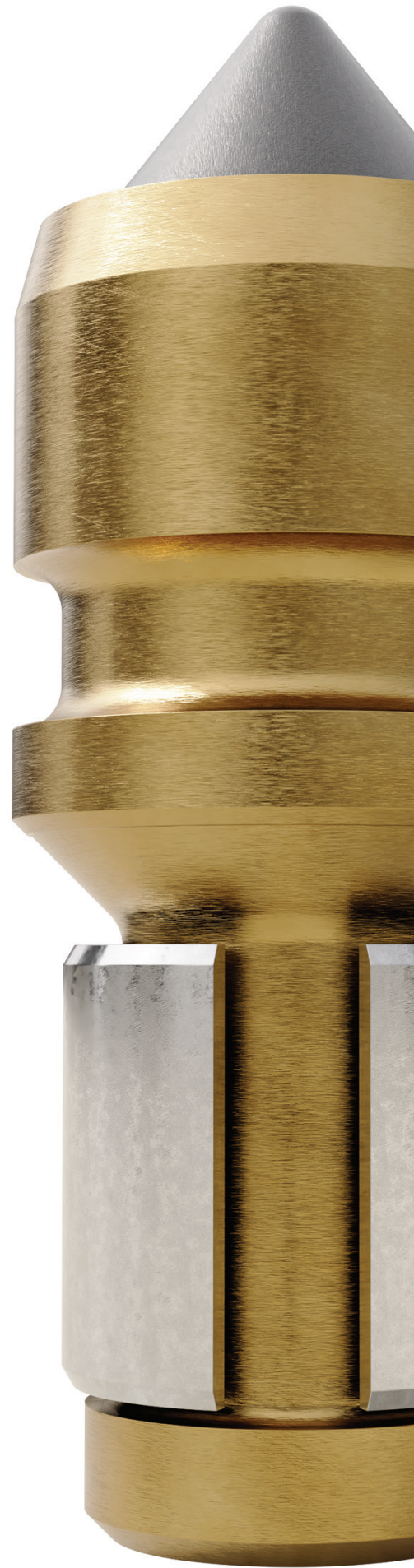
order number	catalog number	pieces per bucket	pieces per pallet
1876905	CM65	150	7500

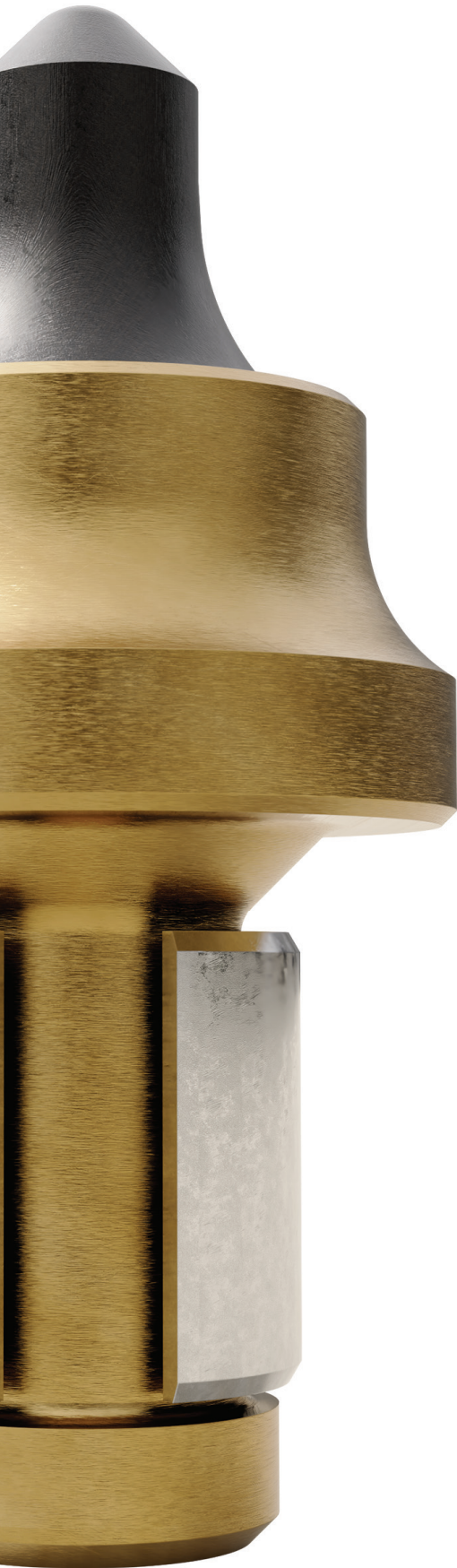
### Construction Mini 6 14mm (.55 Inch) • CM63



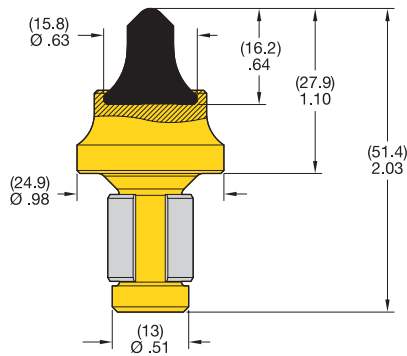
order number	catalog number	pieces per bucket	pieces per pallet
1795208	CM63	150	7500

Dimensions shown in (millimeters) and inches.



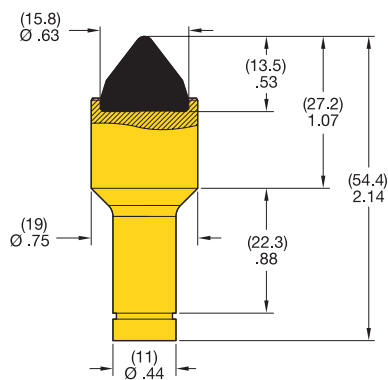


### Construction Mini 5 13mm (.51 Inch) • CM51



order number	catalog number	pieces per bucket	pieces per pallet
4080539	CM51	200	10000

### Construction Mini 4 11mm (.44 Inch) • CM42



order number	catalog number	pieces per bucket	pieces per pallet
1010778	CM42	200	10000



Dimensions shown in (millimeters) and inches.

### Wear Life Features



- Stage 1:** New tooth: New edges and rib features, full gauge length.
- Stage 2:** Good wear and cutting performance, nearly full gauge length.
- Stage 3:** Cutting performance is declining as carbide is blunt and gauge is shorter. Teeth could be changed or stretched depending on road surface quality requirements.
- Stage 4:** Carbide on tool offers block protection but no cutting performance. Teeth must be changed.

### Informational Icon Guide


## Accessories

The Road King™ pick series provides extraordinary milling machine performance. Its new design elements maximize tool life and make tooth changes easy and efficient for operators.

Kennametal tools are specifically designed to make the installation and removal of our proprietary picks safer and easier.



New pick designs facilitate easy removal.

Choosing the right tool enables fast, safe pick extraction.

Reduce shock and spalling using tools with polyurethane pad strike surface.

Wedge between pick and holder for easy pick removal.

### RP Puller



order number  
1761401

catalog number  
RP PULLER

### U70 Wedge Puller with Pad



order number  
3043394

catalog number  
U70 PAD COATED PULLER

### KHP2 Hammer Punch



order number  
1012247

catalog number  
KHP2 KMTL PUNCH

### KHP3 Hammer Punch



order number  
1782456

catalog number  
KHP 3 HAMMER PUNCH

### KHP4 Hammer Punch



order number  
3003465

catalog number  
KHP 4 HAMMER PUNCH

### KPF300H Hammer Punch



order number  
1851016

catalog number  
KPF300HP

### KAHP 1 Air Hammer Punch



order number	catalog number	mm	inch
1012245	KAHP 1 AIR HAMMER PUNCH	10.2	0.401
1012246	KAHP 1HD AIR HAMMER PUNCH	12.6	0.498

### KAHP-4 Air Hammer Punch



order number	catalog number	mm	inch
3003466	KAHP-4 AIR HAMMER PUNCH	10.2	0.401
3003467	KAHP-4HD AIR HAMMER PUNCH	12.6	0.498

### KPF300 1 Air Hammer Punch



order number	catalog number	mm	inch
1851015	KPF300AHP 1 AIR HAMMER PUNCH	10.2	0.401
1850981	KPF300AHP 1HD AIR HAMMER PUNCH	12.6	0.498

### KPF300CH Removal Tool



order number	catalog number
2427191	KPF300CH REMOVAL TOOL

### KIT 1 Air Hammer Cup



order number	catalog number	mm	inch
1012243	KIT 1 AIR HAMMER CUP	10.2	0.401
1012244	KIT 1HD AIR HAMMER CUP	12.6	0.498

### Polymer Hammer



order number	catalog number
6556475	POLYMER HAMMER

## Productivity Tips

Learn the most effective tips for tool selection, maintenance, and wear progression to increase productivity and ensure the highest return on investment.

### Safely Installing and Removing Kennametal Tools

Follow all approved safety procedures. Wear all approved personal protective equipment, including safety goggles or a face shield. To avoid personal injury or damage to the Kennametal tool, please follow these instructions:

- To avoid breaking the carbide tip, use a soft hammer (copper), rubber mallet, or air hammer tool for installation.
- Make sure the tool is properly seated and securely retained before entering the cut. **DO NOT** strike the tool after it is properly seated in toolholder. This could damage the carbide tip or retaining system.
- Inspect the tools before each use. If the tools are dull, bent, cracked, burred, or showing signs of excessive steel wear, **DO NOT** use them and replace immediately.
- When removing the tools, exercise care in handling them as they may be hot after use.
- When removing the tools, use appropriate bit puller, hand punch, air hammer punch, or air hammer chisel to extract them from toolholders.

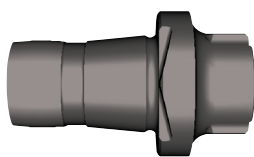


### What to Look for While Maintaining:



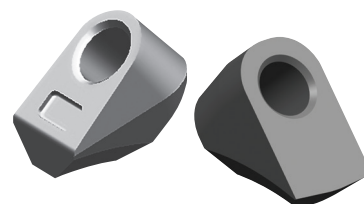
#### Tools

A rotating pick's best value is when the steel body and carbide tip are worn out at the same time. If the tool shows signs of excessive steel wear, carbide wear, or fracturing, this will have a negative effect on your machine performance and the tool should be replaced immediately.



#### Holders/Sleeves

A rotating pick performs best with a combination of support and freedom of rotation. Loose/worn sleeves and excess material build-up on the tool will have a negative effect on performance that could result in carbide flat spotting or fracturing.



#### Blocks/Bases

Blocks are more stationary than holders and are not easily replaced. Identify unusual wear on the sides and the bore of the block and replace if necessary.



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