

SYSTEM K

ROTORS AND MILLING TEETH



Cat® System K rotors are built to cover a wide range of milling applications with efficient material flow and an excellent cutting pattern.

SYSTEM K ROTORS

FOR MILLING



MAXIMUM PRODUCTIVITY

Designed for longer life and simplified maintenance, System K rotors are ready to work when you are.

- + EASY TOOTH REMOVAL REDUCES MAINTENANCE TIME
- + MULTIPLE SPACINGS ARE AVAILABLE TO HELP MEET YOUR PRODUCTION GOALS
- + CARBIDE AND DIAMOND BITS GIVE YOU THE VERSATILITY YOU NEED TO BE PRODUCTIVE AND EFFICIENT



FASTER MAINTENANCE

All-new toolholder designs makes bit removal easy and reduce downtime.

- + Multiple methods for easy bit removal
 - Radial access hole
 - Chisel points
 - Rear access through the block
- + A taper and friction ring design secures the toolholders to the rotor without a retaining pin, bolt or setscrew, speeding up replacement and eliminating the need for fasteners or torquing
- + Toolholders are available to accommodate bits with larger shank sizes for various applications

HIGH PERFORMANCE FEATURES

Optimized for maximum production.

- + Blocks are specifically designed for each side of the rotor and arranged for optimized cutting effort and efficient material flow
- + An anti-rotating toolholder design ensures proper position to prevent wear on the blocks and holders
- + Water can penetrate through the toolholder radial access hole to aid tooth rotation for uniform bit wear
- + Kicker paddles are reversible for extended life

DURABLE DESIGN

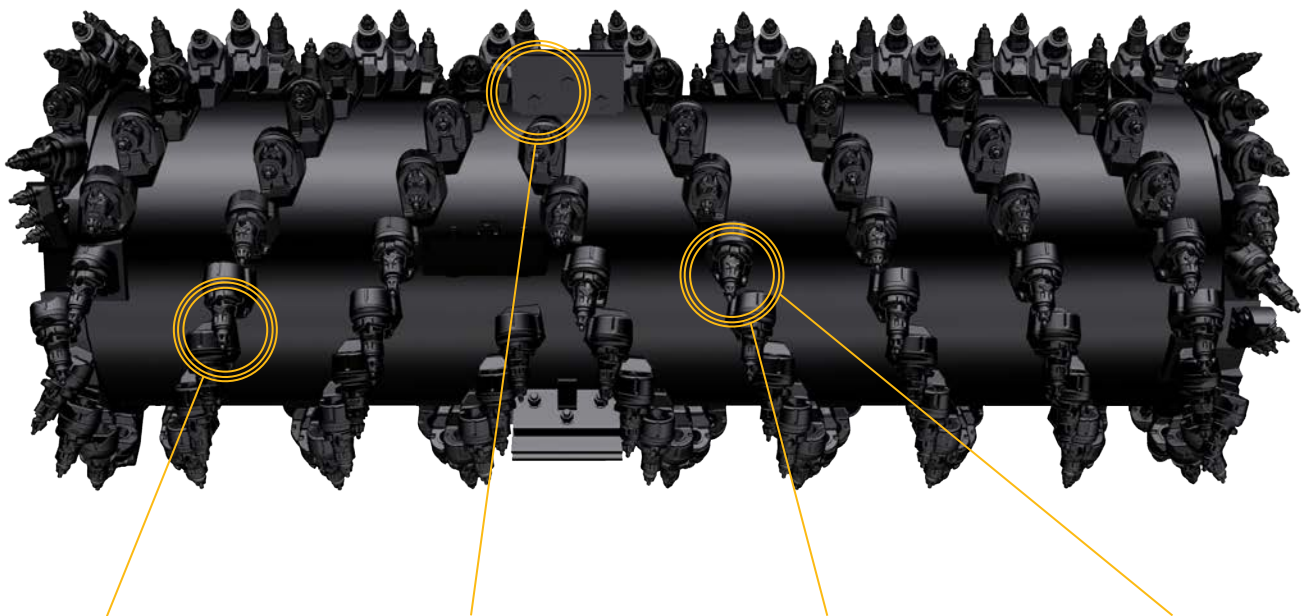
Built to withstand demanding applications and extend rotor life.

- + Large heat-treated surface areas on the toolholder protect the base block from undesired wear
- + Components are manufactured with abrasion-resistant, high-strength alloys to withstand the toughest applications
- + High-strength components stand up to the demands of high-power applications
- + Toolholder and base block designs are optimized to minimize stresses and provide lasting durability

ROTORS DESIGNED WITH YOU IN MIND

SAVE TIME AND MONEY

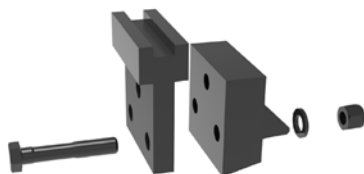
Leveraging Caterpillar's expertise in Ground Engaging Tools and feedback from contractors like you, a new generation of durable and high performance rotors has been developed. You'll get back in the cut faster with the tapered dual-retention toolholder design that eliminates the need for retaining bolts, pins or setscrews, reducing replacement time by up to 50%. Reversible kicker paddles increase wear life to save you money on parts.



EASY TOOTH REMOVAL



REVERSIBLE KICKER PADDLES

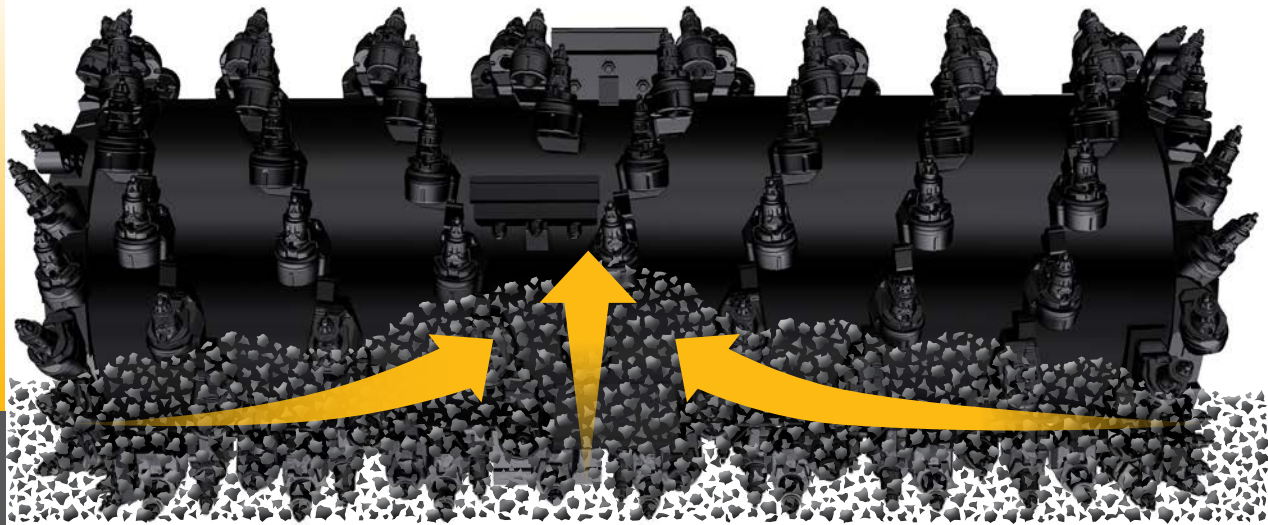


TAPERED DUAL-RETENTION DESIGN



HIGHLY FEATURED TOOLHOLDER





ENGINEERED FOR EFFICIENCY AND INCREASED DURABILITY

EFFICIENT MATERIAL FLOW

An optimized spiral angle increases speed of material flow from the outside to the center for efficient material extraction. Kicker paddles are dimensioned and tested to ensure maximum ejection of material from the center of the cutting chamber to the conveyor. The rotor design reduces component wear by quickly removing material from the cutting chamber, reducing drag, improving overall machine efficiency and lowering fuel consumption.

DESIGNED FOR THE HARD WORK

System K rotors are engineered to withstand the toughest applications and offer features to prolong component life. Thicker left and right base blocks are reinforced and designed to create a uniform conveying spiral, while larger toolholders with more surface area protect the blocks. For abrasive or high impact applications, an optional toughened steel toolholder is available for extended life.

OFFERINGS AND APPLICATIONS

A ROTOR FOR EVERY JOB

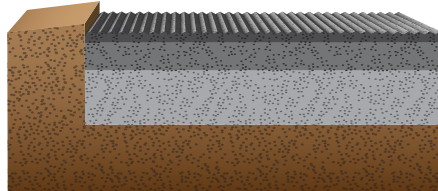
Whether texturing a road or milling an airport runway, we have a rotor that will match your job requirements and help you meet your production goals.

MICRO MILLING

Spacing: 6 mm and 6x2 mm*

Application: Very fine milling finish to meet specific job specifications

Recommended Milling Depth:
0-51 mm (0-2 in)



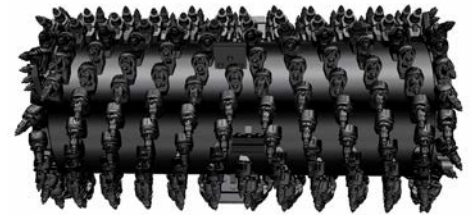
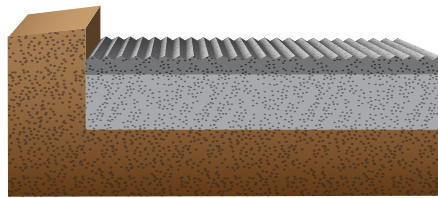
**6x2 mm rotor is a System H design*

FINE MILLING

Spacing: 8 mm

Application: Fine milling finish for smooth surface removal

Recommended Milling Depth:
0-101 mm (0-4 in)

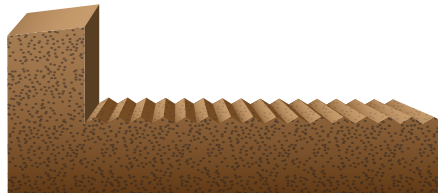


STANDARD MILLING

Spacing: 15 mm

Application: Surface removal or complete removal of road surfaces

Recommended Milling Depth:
0-330 mm (0-13 in)

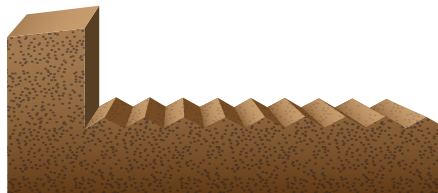


COARSE MILLING

Spacing: 18 mm and 25 mm

Application: Surface removal or complete removal of road surface with a rougher finish

Recommended Milling Depth:
0-330 mm (0-13 in)



FIND THE ONE THAT'S RIGHT FOR YOU

MILLING ROTORS

MILLING TYPE	MACHINE MODEL	TOOL SPACING (MM)	NUMBER OF BITS	MILLING WIDTH (MM)	CAT® PART NUMBER
Micro	PM620 / PM820	6	350	2010	575-7463
	PM622 / PM822	6	386	2235	575-7467
	PM825	6	431	2505	575-7471
	PM620 / PM820	6x2*	672	2010	501-2144*
	PM622 / PM822	6x2*	748	2235	511-5050*
Fine	PM310	8	150	1000	567-0886
	PM312	8	172	1225	567-0892
	PM313	8	181	1300	567-0898
	PM620 / PM820	8	276	2010	567-0932
	PM622 / PM822	8	304	2235	567-0904
	PM825	8	338	2505	567-0907
Standard	PM200	15	170	2010	529-7637
	PM200	15	185	2235	594-0222
	PM201	15	180	2100	588-8864
	PM310	15	91	1000	522-0118
	PM312	15	106	1225	522-0127
	PM313	15	111	1300	522-0133
	PM620 / PM820	15	170	2010	497-9842
	PM622 / PM822	15	185	2235	517-1709
	PM825	15	203	2505	517-0842
Coarse	PM310	18	80	1000	567-0889
	PM312	18	92	1225	567-0895
	PM313	18	98	1300	567-0901
	PM620 / PM820	18	150	2010	559-1545
	PM622 / PM822	18	162	2235	558-6381
	PM825	18	177	2505	567-2017
	PM620 / PM820	25	122	2010	582-7727
	PM622 / PM822	25	131	2235	582-8826
	PM825	25	143	2505	582-8830

* 6x2 mm rotor is a System H design

ALL-NEW TOOLHOLDER INCREASES UPTIME

The toolholder features multiple bit removal methods and a unique friction ring design to secure it to the rotor, yielding faster replacement and reduced downtime for rotor maintenance.

LONGER WEAR COLLAR

20 mm wear collar is 66% longer than System G toolholders

LARGE SURFACE AREA

Large heat-treated surfaces on the toolholder protect the base block from undesired wear

ANTI-ROTATING TOOLHOLDER DESIGN

Ensures proper position to prevent wear on the blocks and holders

EVEN BIT WEAR

Water can penetrate through the radial access hole to aid tooth rotation for uniform bit wear



MULTIPLE METHODS FOR EASY BIT REMOVAL

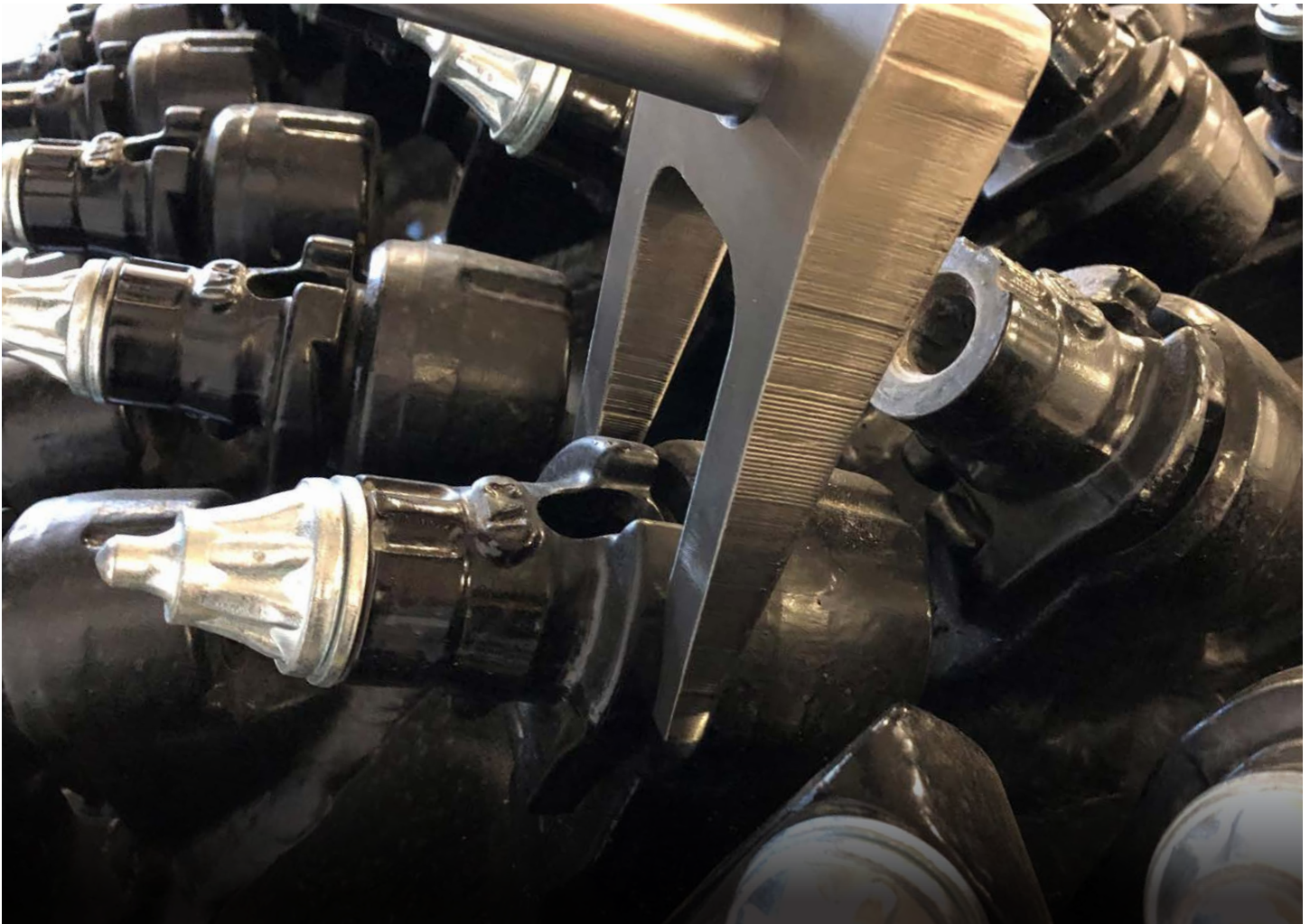
- + Radial access hole
- + Chisel points
- + Rear access through the block

ACCOMMODATES LARGER SHANK SIZES

Toolholders are available to accommodate bits with 20 mm, 22 mm and 25 mm shank size bits for various applications

TAPER AND FRICTION RING DESIGN

Secures the toolholders to the rotor without retaining pins, bolts or setscrews to speed up replacement and eliminate the need for fasteners or torquing



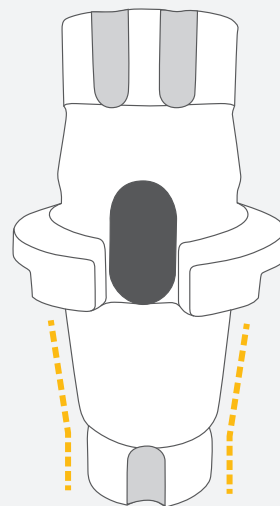
Maintaining bits and toolholders is key to achieving maximum productivity, and System K rotors are designed to simplify maintenance and get you back to work faster.

- + Dual-retention toolholders eliminate the need for fasteners, reducing replacement time by up to 50%
- + Bit removal can be done through multiple methods
- + A variety of removal tools specifically for System K rotors help you replace bits and toolholders quickly

Your Cat dealer offers convenient parts availability and service options, with an industry-leading supply chain and worldwide distribution to keep your rotor cutting smoothly and efficiently.

ZERO FASTENERS

REPLACE TOOLHOLDERS IN
HALF THE TIME
WITH A FASTENER-FREE DESIGN



ELIMINATES
RETAINING PINS,
BOLTS AND
SETSCREWS

NOTE: COMPARED TO
CAT SYSTEM G TOOLHOLDERS



CARBIDE MILLING TEETH
OPTIMIZE PERFORMANCE TO
MAXIMIZE PRODUCTION

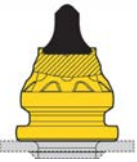





PREMIUM CUTTING BITS

- + Body designed to flow material away and prevent material build up
- + Fluted body supports bit rotation for longer tool life
- + Increased collar on body protects the washer and toolholder
- + Puller grooves available on some bits for faster bit removal
- + Valve seat and plug style bits available for high impact applications
- + Variety of tips available to match your application



OFFERINGS AND APPLICATIONS

CARBIDE MILLING TEETH

	APPLICATION	MATERIAL	SHANK SIZE	PULLER GROOVE	PART NUMBER
	Light Duty Milling (Skid Steer)	Soft - Medium Asphalt	20 mm	Yes	561-8134
	Light / Medium Duty Milling	Soft - Medium Asphalt	20 mm	Yes	560-2306
	Light / Medium Duty Milling	Soft - Medium Asphalt	20 mm	No	578-4416
	Medium / Heavy Duty Milling	Medium - Hard Asphalt	20 mm	No	564-1260
	Medium / Heavy Duty Milling	Hard Asphalt	20 mm	No	561-8135
	Concrete Milling	Concrete	20 mm	Yes	561-8132



CAT® DIAMOND BITS
REDUCE PROJECT COSTS

For bituminous applications without obstacles such as interstates or motorways, consider Cat Diamond bits designed specifically for System K rotors. Diamond bits stay sharp up to 80 times longer than conventional carbide teeth, keeping your machine focused more on milling and less on bit changes.

WHY CHOOSE DIAMOND BITS

Tips remain sharper over the lifetime of the bit to provide:

- + Increased productivity
- + Consistent cutting pattern
- + Reduced labor for bit service
- + Up to 15% fuel savings

DIAMOND BITS
STAY SHARPER LONGER

TYPICAL 35 g
 CARBIDE
 BITS



DIAMOND
 ASPHALT
 BITS



DIAMOND
 EXTENDED LIFE
 BITS



SAVES
UP TO 15%
 IN FUEL COSTS

Average life and exact tonnage is impacted by local aggregate and operating technique. Diamond Asphalt Bits last up to 40x and Diamond Extended Life Bits last up to 80x the life of typical 35 g carbide bits.

DIAMOND BITS

REDUCE COSTS AND INCREASE PRODUCTION

Diamond bits offer more than just long maintenance intervals and increased fuel savings. They can increase the overall wear life of your equipment and dramatically improve the return on your mill investment by helping you to complete jobs faster, month after month.

REDUCE MACHINE WEAR

Diamond bits stay shaper longer than standard carbide bits and reduce vibration, which can increase the life of planetaries, drive shafts, stub shafts, bearings, track pads and moldboard components.

HOW DOES IT WORK?

The non-rotating polycrystalline bits sustain more uniform wear and maintain the gauge length (height) throughout the entire bit life cycle.

FITS MULTIPLE DRUMS

Cat diamond bits are designed to fit almost all major manufacturers drums. See your Cat dealer for all available options.

ROTOR SYSTEM	STANDARD DIAMOND	EXTENDED LIFE DIAMOND	INSTALL TOOL	REMOVAL TOOL
Cat System G	491-1472	491-1503	Hydraulic Tool: 509-8707 Hand Tool: 504-5049	473-3836
Cat System K	522-7507	522-7508	Hydraulic Tool: 591-1346 Hand Tool: 473-3838	526-7661
Cat System J	460-7190	514-5225	473-3838	473-3835
Kennametal KPF-303	460-7189	473-3829	473-3838	473-3838
Keystone Intermediate Sized Bit	514-5246	514-5253	504-5047	504-5048
Sollami Quick Change Drum	460-7191	473-3833	473-3838	473-3837

FAST AND EFFICIENT REMOVAL SERVICE TOOLS

TOOL DESCRIPTION	TOOL PART NUMBER
Pneumatic hammer and bit removal kit with punches	376-4134
Pneumatic punch to remove bits through slot in toolholder	541-9315
Pneumatic flat chisel to remove bits under washer	223-4355
Pneumatic fork tool to remove bits under washer	592-9019
Pneumatic punch to remove bits with bit groove	545-9105
Pneumatic cup tool to install bits	559-1543
Hand tool to remove bits through slot in toolholder	543-5470
Hand tool to remove bits by prying under washer	539-6299
Hand tool to remove bits with bit groove	539-6298
Hand tool to remove toolholder	526-7661
Damaged toolholder extractor	577-4176
Base block alignment tool	553-2020

HAND TOOL



PNEUMATIC TOOLS



REPLACEABLE

SERVICE PARTS

KICKER PADDLES

MACHINE MODEL	TOOL SPACING	APPLICATION	PART NUMBER
PM310, PM312, PM313	8 mm	Fine	567-0937
	15 mm	Standard	522-0125
	18 mm	Coarse	559-1551
PM620, PM622, PM820, PM822, PM825	6 mm	Micro	567-0937
	8 mm	Fine	559-1551
	15 mm	Standard	540-7967
	18 mm	Coarse	540-7967
	25 mm	Coarse	559-7707

TOOLHOLDERS

SHANK SIZE	MATERIAL	APPLICATION	PART NUMBER
20 mm	Standard	Universal	583-6054
20 mm	Tough steel	Abrasive / High impact	497-9840
22 mm	Tough steel	Abrasive / High impact	519-7374
25 mm	Tough steel	Abrasive / High impact	519-7373

BLOCKS AND TRIPLE TREES

APPLICATION	DESCRIPTION	PART NUMBER
Micro, Fine	Left side block	496-3470
Micro, Fine	Right side block	512-3231
Standard, Coarse	Left side block	567-0938
Standard, Coarse	Right side block	567-0939
All	End ring Block	496-3468
All	Triple tree - Left	541-7552
All	Triple tree - Right	541-7553

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com

QEHQ2683 (05/2020)

© 2020 Caterpillar. All Rights Reserved.

VisionLink is a trademark of Trimble Navigation Limited, registered in the United States and in other countries.

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

© 2020 Caterpillar. All Rights Reserved. CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.
www.cat.com www.caterpillar.com

