

# HYDRAULIC EXCAVATORS

Cat Hydraulic Excavators are the most versatile machines on the jobsite, working in applications ranging from small landscaping projects to large surface extraction mines—and everywhere in between. Together, Cat buckets and G.E.T. make up the only bucket system designed and developed to optimize hydraulic excavator performance and your productivity. Rely on your Cat dealer for expert support and service for your specific application.



# SYSTEM OVERVIEW

Hydraulic excavators are extremely versatile machines used for a variety of purposes, from grading to mass excavation to demolition work. A hydraulic excavator's main work tool is a bucket, but these machines can also be equipped with hydraulic couplers to pick up a variety of tools.

Balancing your desired productivity/penetration with the wear life of your system is critical. Excessive wear material can reduce productivity and increase fuel burn. Cat hydraulic excavator buckets and G.E.T. are designed as a balanced system to increase life while minimizing drag.



# TIP SELECTION GUIDE

Even though bucket tips come in many shapes and sizes, you don't have to be an expert to choose the right ones. Use the chart below to determine if the material you're digging in is high, medium or low impact and abrasion—then find the balance you need among these three factors:

## 1 STRENGTH










The ability to withstand digging and penetrating shocks and high breakout forces

## 2 PENETRATION

The ability to penetrate tough material when it's tightly compacted, rocky or frozen

## 3 WEAR LIFE

The ability to withstand wearing, scouring and abrasive action of the material being handled

	IMPACT (material size)			ABRASION (tip life)
	SMALL HEX (311-319)	MEDIUM HEX (320-329)	LARGE HEX (336-390)	
LOW	 0 - 1"   0 - 25 mm	 0 - 3"   0 - 75 mm	 0 - 6"   0 - 150 mm	> 1,000 hours
MEDIUM	 1 - 3"   25 - 75 mm	 3 - 8"   75 - 200 mm	 6 - 12"   150 - 300 mm	250 - 1,000 hours
HIGH	 3+ "   75 mm+	 8+ "   200 mm+	 12+ "   300 mm+	< 250 hours

# CAT ADVANSYS™ TIP & ADAPTER SYSTEM

BUILT TO DELIVER MAXIMUM PRODUCTIVITY AND THE LOWEST BUCKET LIFECYCLE COST IN THE TOUGHEST APPLICATIONS.

Cat Advansys is built for machine productivity, balancing tip wear material and penetration requirements. Integrated hammerless retention ensures you are back to work in minutes without a separate retainer.

## PERFORMANCE & PRODUCTIVITY

Wider top surface reduces drag on the tip and adapter side as the tip moves through the material. Reduced side drag results in less force required to move the hex bucket through the material.

## EXTEND BUCKET LIFECYCLE

Adapter design directs material flow over adapter strap, which can extend adapter service life and bucket lifecycle.

## ENHANCE JOBSITE SAFETY

Hammerless system. A 3/4 inch retainer lock requires no special tools for installation and removal.

**CAT ADVANSYS IS BUILT BY CATERPILLAR AND READILY ADAPTED TO FIT ANY BUCKET IN THE INDUSTRY.**

Available for 950 through 994 Wheel Loaders and 311 through 390 Hydraulic Excavators.

# CAT ADVANSYS TIP OPTIONS

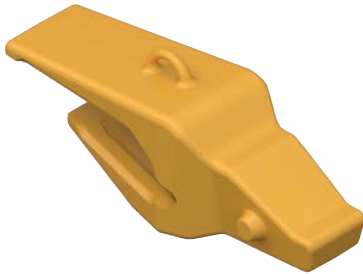
Below are the tip shapes best suited for the wide range of jobsite conditions performed by the hydraulic excavators. We also offer additional Cat Advansys tips more commonly used with wheel loaders. Your Cat dealer can help you choose the one that offers the right balance of penetration and wear life for your application.

<p>↑ ABRASION</p> <p>↓ IMPACT</p>	<p><b>HEAVY DUTY</b></p> 	<p><b>Heavy Duty and Heavy Duty A.R.M.*</b> tips include approximately 60 percent more wear material in the tip body. The A.R.M. wears around the profile to increase penetration.</p>
	<p><b>GENERAL PURPOSE</b></p> 	<p><b>General Purpose</b> tips are symmetrical and the baseline for other tip styles. All wear comparisons are to the General Purpose tip unless otherwise noted.</p>
	<p><b>WIDE</b></p> 	<p><b>Wide</b> tips are used to maintain smooth trench floors and in low-abrasion, easy-to-penetrate material.</p>
	<p><b>PENETRATION PLUS</b></p> 	<p><b>Penetration Plus</b> tips feature 25 percent more wear material and a leading edge with 25 percent less cross-sectional area. They self-sharpen as they wear.</p>
	<p><b>PENETRATION</b></p> 	<p><b>Penetration</b> tips are ideal for densely compacted materials. They feature a leading edge with 60 percent less cross-sectional area—allowing for maximum penetration—and a single center rib that self-sharpens as it wears. These tips are available with A.R.M.*</p>
	<p><b>SPIKE</b></p> 	<p><b>Spike</b> tips are used to achieve maximum penetration. They are typically used in cohesive material and stay sharp during the life of the tip.</p>
	<p><b>DOUBLE SPIKE</b></p> 	<p><b>Double Spike</b> tips are used in the corner positions with the spike tips for hard-to-penetrate, fracturable materials.</p>

\*Abrasion Resistant Material (A.R.M.) is a welding process that bonds very hard tungsten carbide particles to Cat G.E.T. to create a protective shield over the component. Typically, the A.R.M. process doubles wear life and can last even longer in some applications.

# CAT ADVANSYS HAMMERLESS TIP & ADAPTER SYSTEM

Cast retention pin means no separate retention pin to buy or lose during tip replacements. The tip loads on the adapter nose, never putting the cast retention lugs under stress or wear.



**Integrated Retaining Lug**



**Hammerless Fast Installation and Removal**



## NOSE GEOMETRY DESIGN FEATURES

- Asymmetrical nose geometry reduces sliding wear on adapter nose surfaces, extending the life of the adapter.
- The asymmetrical design ensures a reliable fit even when the adapter surface becomes worn.

## CHANGE OUT TIPS QUICKLY & EASILY

CapSure hammerless retention requires no special tools. Just turn the retainer 180° to install or remove the tips.

Scan the QR Code to the right to watch the installation video.



- 1** Turn retainer 180° clockwise to lock.

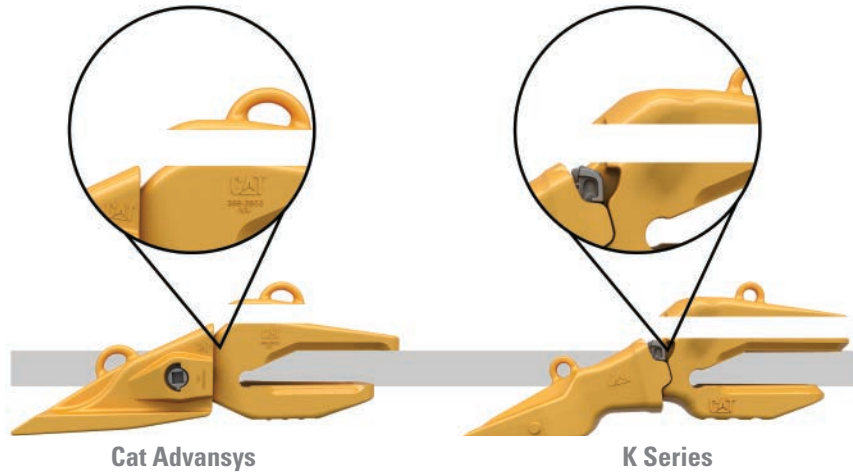


- 2** Turn retainer 180° counter clockwise to unlock.



# CAT ADVANSYS ADAPTER DESIGN

The tip system design naturally shields the adapter strap even without a wear cap. This allows up to a 25% increase in wear life when compared to K series or other low profile systems.



Cat Advansys improves adapter to tip wear life ratio, and the resulting extension on the bucket life cycle.

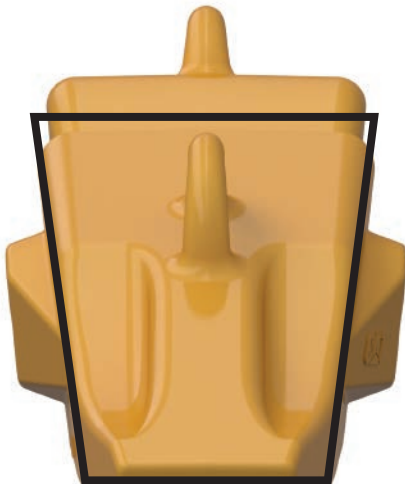
Heavy Abrasion and Heavy Penetration tips both have a longer usable wear life, while staying sharper throughout the useful life of the entire tip.



**X220 Heavy Abrasion Tip<sup>1</sup>**  
72% Available Wear Material



**X220 Heavy Penetration Tip<sup>1</sup>**  
60% Available Wear Material



Wider top surface reduces drag on the tip and adapter side as the tip moves through the material. Reduced side drag results in less force required to move the hex bucket through the material.

The asymmetrical design ensures a reliable fit even when the adapter surface becomes worn.

<sup>1</sup> This is representative of one customer's wear rates and wear rates may vary by application

## MACHINE COMPATIBILITY

EXCAVATOR	LINKAGE	SIZE CLASS
315	N/A	Cat Advansys 80, Cat Advansys 90
318	N/A	Cat Advansys 80, Cat Advansys 90
320	Reach	Cat Advansys 80, Cat Advansys 90
	Mass Excavation	Cat Advansys 90, Cat Advansys 100
324	Reach	Cat Advansys 90, Cat Advansys 100
	Mass Excavation	Cat Advansys 100, Cat Advansys 110
329	Reach	Cat Advansys 90, Cat Advansys 100
	Mass Excavation	Cat Advansys 100, Cat Advansys 110
336	Reach	Cat Advansys 100, Cat Advansys 110
	Mass Excavation	Cat Advansys 110, Cat Advansys 130
349	Reach	Cat Advansys 110, Cat Advansys 130
	Mass Excavation	Cat Advansys 130
374	Reach	Cat Advansys 150
	Mass Excavation	Cat Advansys 170
390	Reach	Cat Advansys 150
	Mass Excavation	Cat Advansys 170, Cat Advansys 200





# K SERIES TIP & ADAPTER SYSTEM

EXCELLENT PENETRATION THROUGH VERTICAL RETENTION AND COMPACT PROFILE.

K Series delivers digging performance throughout the life of the tip with its elliptical adapter nose and vertical retention design. The twist-on fit of the tip and adapter makes installation easier.

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## IMPROVE YOUR PRODUCTIVITY

Low-profile shape provides optimal sharpness, penetration, and digging ability throughout the tip life.

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## STAY SAFE & REDUCE MAINTENANCE COSTS

One-piece vertical retainer allows for easy installation and removal.

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## SIMPLIFY INSTALLATION

Rails on both sides of the adapter and a twist-on design hold the tip in place, allowing for quicker installation.

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# K SERIES DRIVE-THROUGH TIP & ADAPTER SYSTEM

The drive-through system is for K80-K100 adapters and tips.

Lower-profile tip



Twist-on design



No hole in adapter



Drive-through retainer

## INSTALLATION & REMOVAL

It's safe and easy—just use a standard pry tool and follow this three-step process:

Scan the QR code to the right to watch the installation video.



**1** INSERT  
RETAINER



**2** HAMMER  
RETAINER



**3** SECURE  
RETAINER



# K SERIES HAMMERLESS TIP & ADAPTER SYSTEM

The hammerless system is for K110-K170 adapters and tips.



Twist-on design



Standard hammerless retainer

Lower-profile tip



No hole in adapter



Retainer - bolt drive

\* Additional offering only for extreme packing and slag applications.

Scan the QR code to the right to watch the installation video.



## INSTALLATION & REMOVAL

It's safe and easy—just use a standard pry tool and follow this three-step hammerless process:

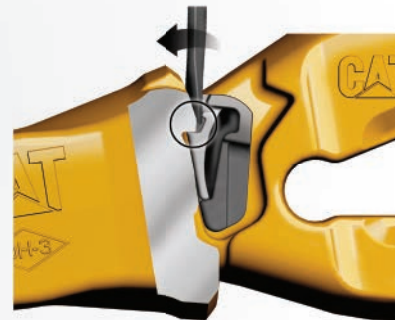
**1** INSERT RETAINER



**2** PRESS DOWN RETAINER



**3** REMOVE RETAINER



## K SERIES TIP OPTIONS

Below are the tip shapes best suited for the wide range of jobsite conditions performed by hydraulic excavators. We also offer additional K Series tips more commonly used with wheel loaders. Your Cat dealer can help you choose the one that offers the right balance of penetration and wear life for your application.

ABRASION ↑

### EXTRA DUTY



- » **Extra Duty** and **Extra Duty Abrasion Resistant Material (A.R.M.)\*** tips include approximately 60% more wear material in the tip body. The A.R.M. wears around the profile to increase penetration.

**A.R.M.**  
OPTION  
AVAILABLE

### GENERAL PURPOSE



- » **General Purpose** tips are symmetrical and the baseline for other tip styles. All wear comparisons are to the General Purpose tip unless otherwise noted.



- » **Wide** tips are used to maintain smooth trench floors and in low-abrasion, easy-to-penetrate material.

### PENETRATION PLUS



- » **Penetration Plus** tips feature 25% more wear material and a leading edge with 25% less cross-sectional area. They self-sharpen as they wear.

### PENETRATION



- » **Penetration** tips are ideal for densely compacted materials. They feature a leading edge with 60% less cross-sectional area—allowing for maximum penetration—and a single center rib that self-sharpens as it wears. These tips are available with A.R.M.\*

**A.R.M.**  
OPTION  
AVAILABLE



- » **Spike** tips are used to achieve maximum penetration. They are typically used in cohesive material and stay sharp during the life of the tip.

### DOUBLE SPIKE



- » **Double Spike** tips are used in the corner positions with the spike tips for hard-to-penetrate, fracturable materials.

↓ IMPACT

\*Abrasion Resistant Material (A.R.M.) is a welding process that bonds very hard tungsten carbide particles to Cat G.E.T. to create a protective shield over the component. Typically, the A.R.M. process doubles wear life—and can last even longer in some applications.

## K SERIES ADAPTER OPTIONS

All K Series adapters feature rails on both sides of the nose for a twist-on design that stays in place during installation.

## MACHINE COMPATIBILITY

EXCAVATOR	LINKAGE	SIZE CLASS
315	N/A	K80, K90
318	N/A	K80, K90
320	Reach	K80, K90
	Mass Excavation	K90, K100
324	Reach	K90, K100
	Mass Excavation	K100, K110
329	Reach	K90, K100
	Mass Excavation	K100, K110
336	Reach	K100, K110
	Mass Excavation	K110, K130
349	Reach	K110, K130
	Mass Excavation	K130
374	Reach	K150
	Mass Excavation	K170
390	Reach	K150
	Mass Excavation	K170





# J SERIES TIP & ADAPTER SYSTEM

SIDE-PIN SECURITY WHEN YOUR APPLICATION DEMANDS IT.

Great performance and proven reliability over time—that's what you get with this classic horizontal retention system, a staple in the construction and mining industries.

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## BOOST YOUR VERSATILITY

Industry-standard side-pinned design performs across a variety of applications.

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## ENHANCE YOUR RELIABILITY

Weld-on adapters offer excellent retention.

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## IMPROVE SAFETY & MAINTENANCE TIME

Ability to retrofit means you can use the hammerless CapSure™ system.

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# J SERIES TIP & ADAPTER SYSTEM



Rock Chisel Tip

## INSTALLATION & REMOVAL

Simply use the standard pin and retainer system—and make removal even easier with our Tip Pin Remover tool.\*
















- 1** Place the tool on the tip and align the extractor with the pin.
- 2** Strike the tool with a hammer until the pin is removed.
- 3** Place the tool over the tip (A), locate the pin in the hole of the holder (B) and strike the tool (C).



\*J550 and smaller use the pin removal tool. Consult your dealer for larger systems.

## J SERIES TIP OPTIONS

Below are the tip shapes best suited for the wide range of jobsite conditions performed by hydraulic excavators. We also offer additional J Series tips more commonly used with wheel loaders. Your Cat dealer can help you choose the one that offers the right balance of penetration and wear life for your application.

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">ABRASION</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">IMPACT</p>	<p><b>HEAVY DUTY LONG</b></p>  	<p>» <b>Heavy Duty Long</b> and <b>Heavy Duty Abrasion Resistant Material (A.R.M.)*</b> tips include approximately 60% more wear material in the tip body. The A.R.M. wears around the profile to increase penetration.</p>	<p><b>A.R.M.</b> OPTION AVAILABLE</p>
	<p><b>LONG (GENERAL PURPOSE)</b></p>  	<p>» <b>Long</b> tips are symmetrical and the baseline for other tip styles. All wear comparisons are to the Long tip unless otherwise noted.</p>	
	<p><b>WIDE</b></p>  	<p>» <b>Wide</b> tips are used to maintain smooth trench floors and in low-abrasion, easy-to-penetrate material.</p>	
	<p><b>PENETRATION PLUS</b></p>  	<p>» <b>Penetration Plus</b> tips feature 30% more wear material and 25% less cross-sectional area. They self-sharpen as they wear.</p>	
	<p><b>PENETRATION</b></p>  	<p>» <b>Penetration</b> and <b>Penetration A.R.M.*</b> tips are ideal for densely compacted materials. They feature a leading edge with approximately 50% less cross-sectional area and a single center rib for strength—allowing for maximum penetration.</p>	<p><b>A.R.M.</b> OPTION AVAILABLE</p>
	<p><b>SPIKE</b></p>  	<p>» <b>Spike</b> tips are used to achieve maximum penetration. They are typically used in cohesive material and stay sharp during the life of the tip.</p>	
	<p><b>SPIKE CORNER</b></p>  	<p>» <b>Spike Corner</b> tips can be used in the corner position with sharp center tips.</p>	
	<p><b>DOUBLE SPIKE</b></p>  	<p>» <b>Double Spike</b> tips are used in the corner positions with the spike tips for hard-to-penetrate, fracturable materials.</p>	

\*Abrasion Resistant Material (A.R.M.) is a welding process that bonds very hard tungsten carbide particles to Cat G.E.T. to create a protective shield over the component. Typically, the A.R.M. process doubles wear life—and can last even longer in some applications.



## GENERAL DUTY TIPS

General Duty tips offer a reliable, competitively priced parts option for small to medium-sized excavators operating in low to medium impact conditions. Tips are available in the J250-J460 size range.

General Duty tips are:

- » A match if you require quality and long wear
- » Designed to fit J Series adapters, reducing risky fit-ups
- » Backed by the standard Caterpillar warranty against breakage under normal, recommended operation in low to medium impact applications

### LONG



- » Most versatile shape with good balance of penetration, strength and abrasion resistance. Standard shape for most applications.

### HEAVY DUTY LONG



- » Use on larger machines where greater strength is required. More wear material for higher abrasion environments.

### PENETRATION PLUS



- » Enhanced penetration in densely compacted material, such as clay. Resists blunting and is self-sharpening. Ideal for tough trenching applications.

## J SERIES MACHINE COMPATIBILITY

EXCAVATOR	LINKAGE	SIZE CLASS
312	N/A	J250, J300
315	N/A	J300, J350
318	N/A	J300, J350
320	Reach	J300, J350, J400
	Mass Excavation	J400, J460
324	Reach	J400, J460
	Mass Excavation	J460, J550
329	Reach	J400, J460
	Mass Excavation	J460, J550
336	Reach	J460, J550
	Mass Excavation	J550
349	Reach	J550
	Mass Excavation	J550
374	Reach	J600
	Mass Excavation	J700
390	Reach	J600
	Mass Excavation	J700, J800

# HAMMERLESS TIP & ADAPTER SYSTEM FEATURING CAPSURE RETENTION

LOSE THE HAMMER, NOT THE FLEXIBILITY.

Simplify bucket tip replacement with hammerless CapSure retention. These tips are matched to side-pin adapters, allowing the flexibility to use our conventional pin retention if your application demands it.

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## LOWER OPERATING COSTS

Side-pin retrofit design used on J-style adapters means the pin is reusable.

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## ENHANCE JOBSITE SAFETY & MAINTENANCE TIME

A ¾-inch retainer lock requires no special tools and allows for hammerless installation and removal.

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## CHANGE OUT TIPS QUICKLY & EASILY

Positive stop is cast into the tip to prevent over-rotation—just turn 180 degrees to lock or unlock.

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## SPEED UP YOUR INSTALLATION TIME

Tip and retainer are one system, so there's no special assembly or extra pieces.

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# HAMMERLESS TIP & ADAPTER SYSTEM FEATURING CAPSURE RETENTION



## INSTALLATION & REMOVAL

It's fast, easy and safe with the CapSure locking system—just follow these four simple steps:

Scan the QR code to the right to watch the installation video.



**1** Insert pin and washer into the adapter hole.



**2** Slide the tip onto the adapter.



**3** Tighten 180° into the locked position with a 3/4" ratchet.



**4** Remove by loosening 180° to the unlocked position.



## CAPSURE TIP OPTIONS

We offer four CapSure tip options designed for a range of jobsite conditions. Your Cat dealer can help you choose the one that offers the right balance of penetration and wear life for your application.

ABRASION ↑

IMPACT ↓

### HEAVY DUTY ABRASION



» **Heavy Duty Abrasion** tips are ideal for high-abrasion applications like sand, gravel and shot rock. They have the maximum amount of wear material—approximately 145% more—and the tip base features 35% more surface area than Heavy Penetration tips.

### HEAVY PENETRATION



» **Heavy Penetration** tips are ideal for high-impact, hard-to-penetrate materials. They feature approximately 120% more material in the high wear area as well as a sharp spade design with 70% less cross-sectional area on the leading edge than Heavy Duty Abrasion tips.

### HEAVY DUTY



» **Heavy Duty** tips are the baseline for other tips. All wear comparisons are to the Heavy Duty tip unless otherwise noted.

### PENETRATION PLUS



» **Penetration Plus** tips feature 30% more wear material and 25% less cross-sectional area. They self-sharpen as they wear.

## MACHINE COMPATIBILITY

EXCAVATOR	LINKAGE	SIZE CLASS
336	Reach	N/A
	Mass Excavation	J550 (Retrofit)
349	Reach	J550 (Retrofit)
	Mass Excavation	J550 (Retrofit)
374	Reach	J600 (Retrofit)
	Mass Excavation	J700 (Retrofit)
390	Reach	J600 (Retrofit)
	Mass Excavation	J700 (Retrofit), J800 (Retrofit)

# BASE EDGE SYSTEMS

FASTEST INSTALLATION TIMES IN THE INDUSTRY.

Cat base edge systems go through a series of carefully controlled manufacturing processes to deliver maximum strength, durability and long life. They come completely welded and assembled, dramatically shortening your installation and replacement time.

## INCREASE DURABILITY

A consistent heat-treat process maximizes strength and resists abrasion. Shot blasting removes impurities that can cause inclusions on a weld, and controlled cooling reduces the chance of stress points.

## SAVE INSTALLATION & REPLACEMENT TIME

Butterbead is applied to the back side of the base edge and the top strap of the corner adapter, so you can weld the edge onto the bucket without preheating.

## OPTIMIZE MACHINE PERFORMANCE

Base edges are designed by Caterpillar engineers for optimal performance on specific machines.

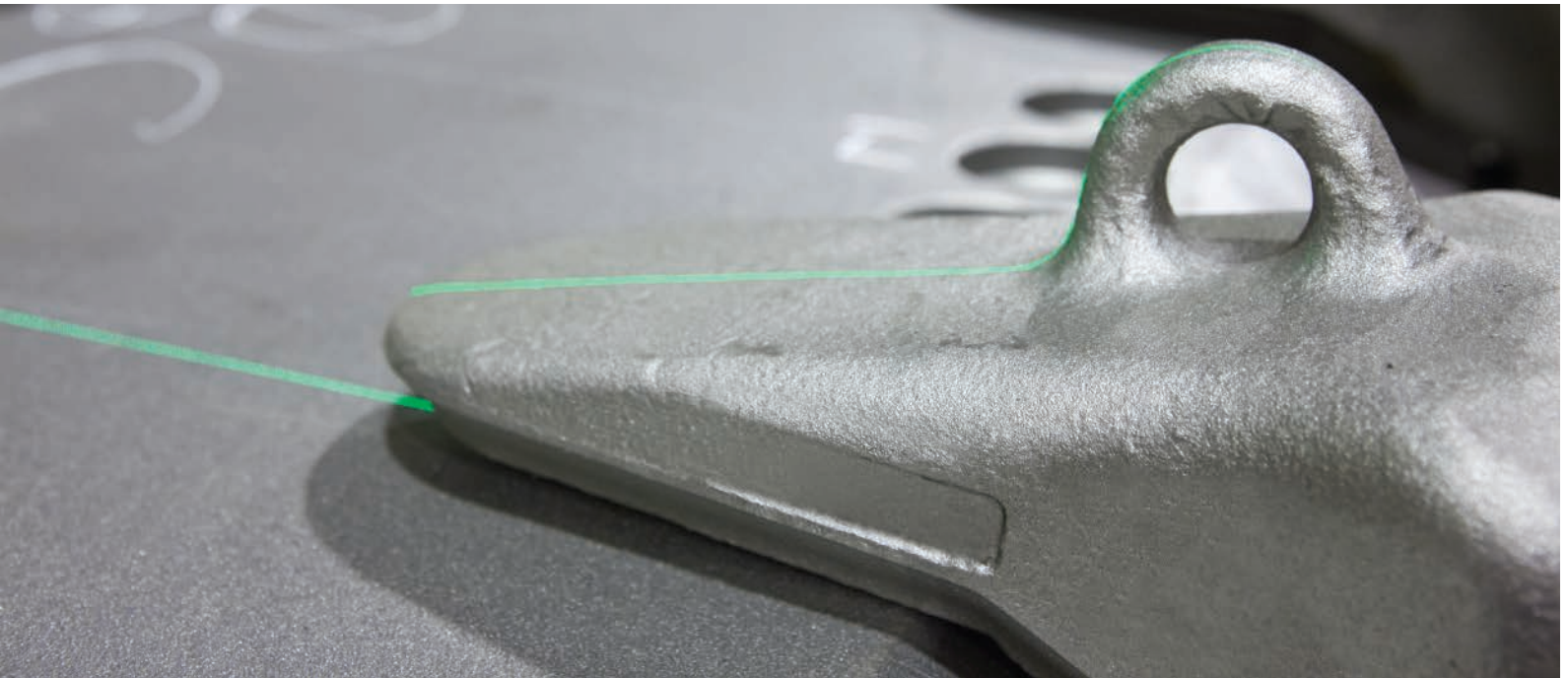


## BASE EDGE SYSTEMS

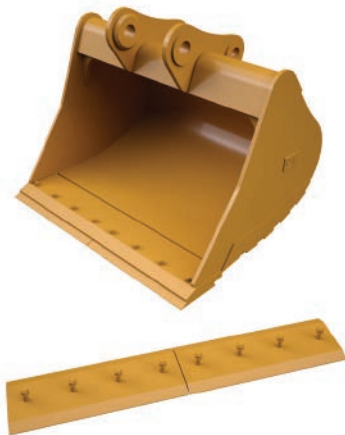
Base edge replacement involves replacing a base edge assembly, which includes adapters welded in from the factory, or replacing a bolt-on cutting edge (BOCE) base edge, which comes with factory-drilled holes for bolt-on G.E.T. Choose from three shapes (base edge for BOCE, straight and spade base edge assemblies) to get the right protection for your application.

### GET MORE ACCURACY

Lasers place the adapters within 0.1 mm of specifications.



BOLT-ON CUTTING EDGE



STRAIGHT



SPADE



# BUTTERBEAD BASE EDGE ASSEMBLY

DURABLE PROTECTION COMBINED WITH SHORTER INSTALLATION TIMES.

The protection you need, with no preheating required—that’s what you get with butterbead weld prep. This technique, which involves applying a layer of weld to a heat-treated, higher hardness part, makes it possible to weld a base edge to a bucket without preheating the hardened part. Choose from two shapes (straight and spade) on cutting edges thicker than 50mm and three levels of build to get the right protection for your application.

## SPEED UP YOUR INSTALLATION TIME

Weld prep eliminates the need for preheating, shortening edge installation time by 30-50%.

## GET MORE DURABILITY

Base edges have the proper butterbead weld because it is applied in the factory.



# BASE EDGE END PROTECTION (BEEP)

PROTECT YOUR CORNERS—WITHOUT CUTTING THEM.

Reduce base edge end wear and subsequent corner adapter weld erosion with our BEEP design. It makes adapter replacement on the edge much easier when it's time to rebuild the base edge assembly. BEEPs are available in a wide array of thicknesses and angles to fit 336-390 hydraulic excavators.

## BOOST YOUR UPTIME

Through-hardened Rc ~45 (Br ~3.0) weldable steel is easily installed in the shop or the field.

## EXTEND LIFE

Extended base edge end protects adapter corner welds.

## SPEED UP INSTALLATION

Height and bevel are matched to the base edge, so there's no additional fabrication.



Plug Weld





# SIDE & EDGE PROTECTION

## MAINTAIN YOUR PERFORMANCE EDGE.

Protect your bucket's structural integrity with sidebar protectors and shear blocks or increase penetration and performance with side cutters.

- » Sidebar Protectors
- » Side Cutters
- » Half Arrows
- » Top Covers
- » Cutting Edges
- » Weld-On Edge Shrouds



# SIDEBAR PROTECTORS

Protect your bucket's structural integrity with sidebars and shear blocks.

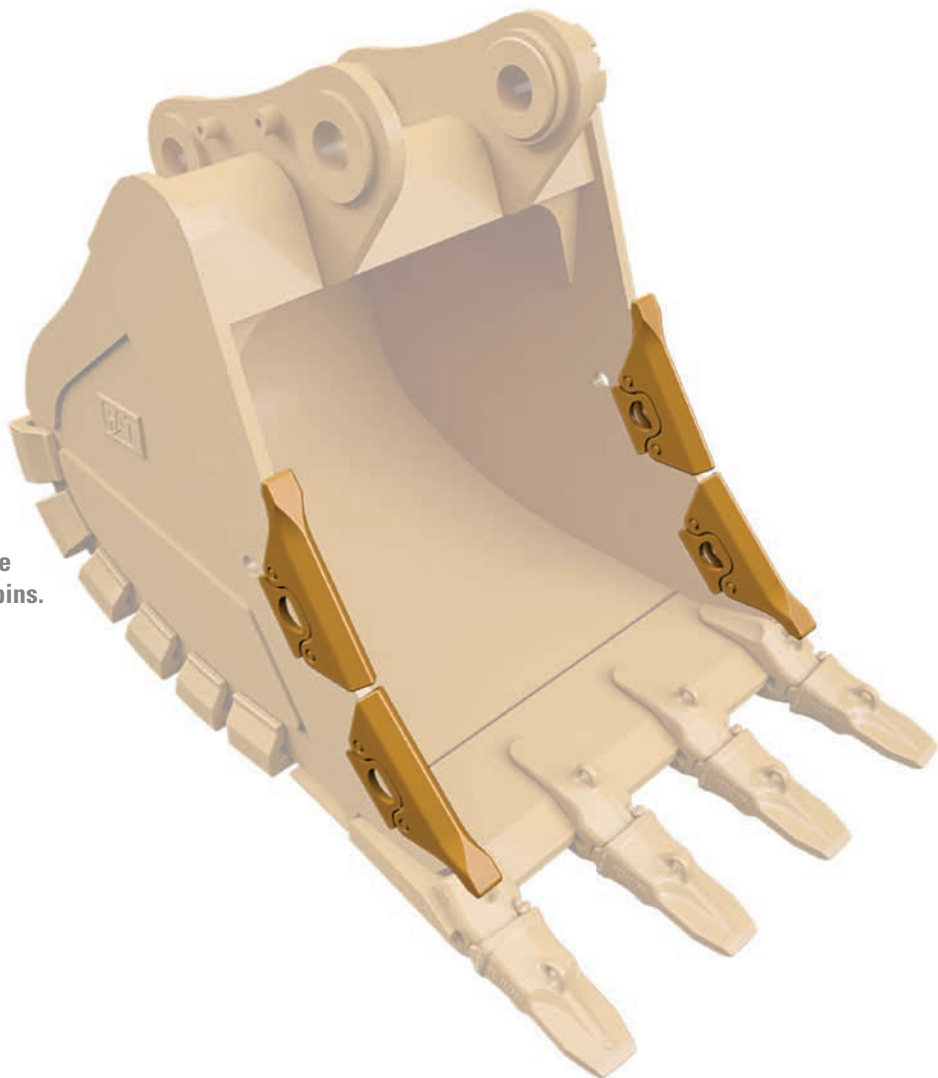
## INCREASE YOUR UPTIME

Shear block protects the pin from extreme loads and breakage, helping ensure sidebar protector retention.

## CUT YOUR MAINTENANCE COSTS

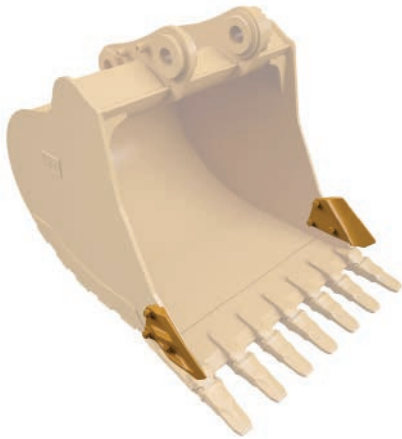
Sidebar protector protects the bucket edge.

Shear block bears the loads instead of the pins.



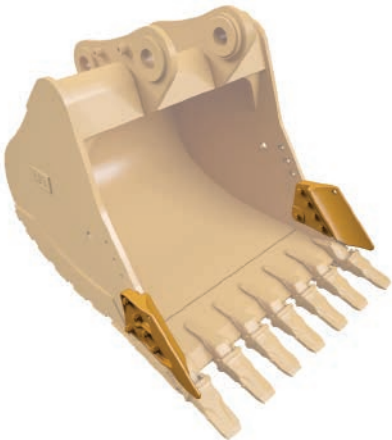
# SIDECUTTERS

Improve your bucket's performance while protecting your sidebars.



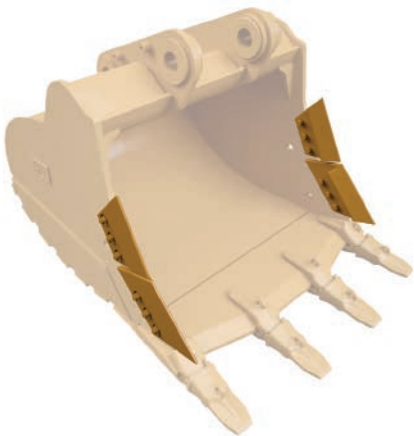
## GENERAL PURPOSE SIDECUTTER

- › Effective in moderate-impact conditions.
- › Suitable for most soil conditions.
- › Provides a strong, wear-resistant surface to help protect bucket sides.
- › Extends bucket side width to match the teeth bite.



## HEAVY DUTY SIDECUTTER

- » For tough digging conditions.
- » More wear material.
- » Covers more of the sidebar for enhanced protection of the bucket.
- » Scalloped profile improves bucket penetration and machine performance.



## STRIKEOFF SIDECUTTER

- » Half arrow shape to provide better penetration than bare bucket.
- » Protects the lower bucket sides and corners.
- » For use in moderate-to-light conditions.
- » Can be stacked for more protection.

# BOLT-ON HALF ARROWS, TOP COVERS, CUTTING EDGES & WELD-ON SHROUDS

Protect your investment in buckets and base edges with these flexible components. Half arrows allow for a smooth transition of material over the base edge to protect the leading edge. Top covers complement the half arrows to protect the base edge fully. Modular edge shrouds are designed to fit any bucket configuration and extend the life of your excavator bucket edge assembly.

## SIMPLIFY MAINTENANCE

Individual pieces that protect the edge can be changed independently.

## ENHANCE DURABILITY

Half arrows cover the leading edge for smooth material transition.

## BOOST YOUR UPTIME

Top cover reduces wear on weld joints.



# BUCKET SELECTION GUIDE

We offer four standard bucket durability categories suitable for any application. Each category is based on the bucket's intended durability when used in the recommended application and material.



## GENERAL DUTY

- » For digging in low-impact, lower-abrasion materials such as dirt, loam and mixed compositions of dirt and fine gravel. Example: Digging conditions in which General Duty tip life exceeds 800 hours.



## HEAVY DUTY

- » For a wide range of impact and abrasion conditions including mixed dirt, clay and rock. Example: Digging conditions where Penetration Plus tip life ranges from 400 to 800 hours.
- » HD buckets are a good "center line" choice, or starting point, when application conditions are not well known.



### SEVERE DUTY

- » For higher abrasion conditions such as well-shot granite and caliche. Example: Digging conditions where tip life ranges from 200 to 400 hours with Penetration Plus tips.



Typical 336-349 bucket

### EXTREME DUTY

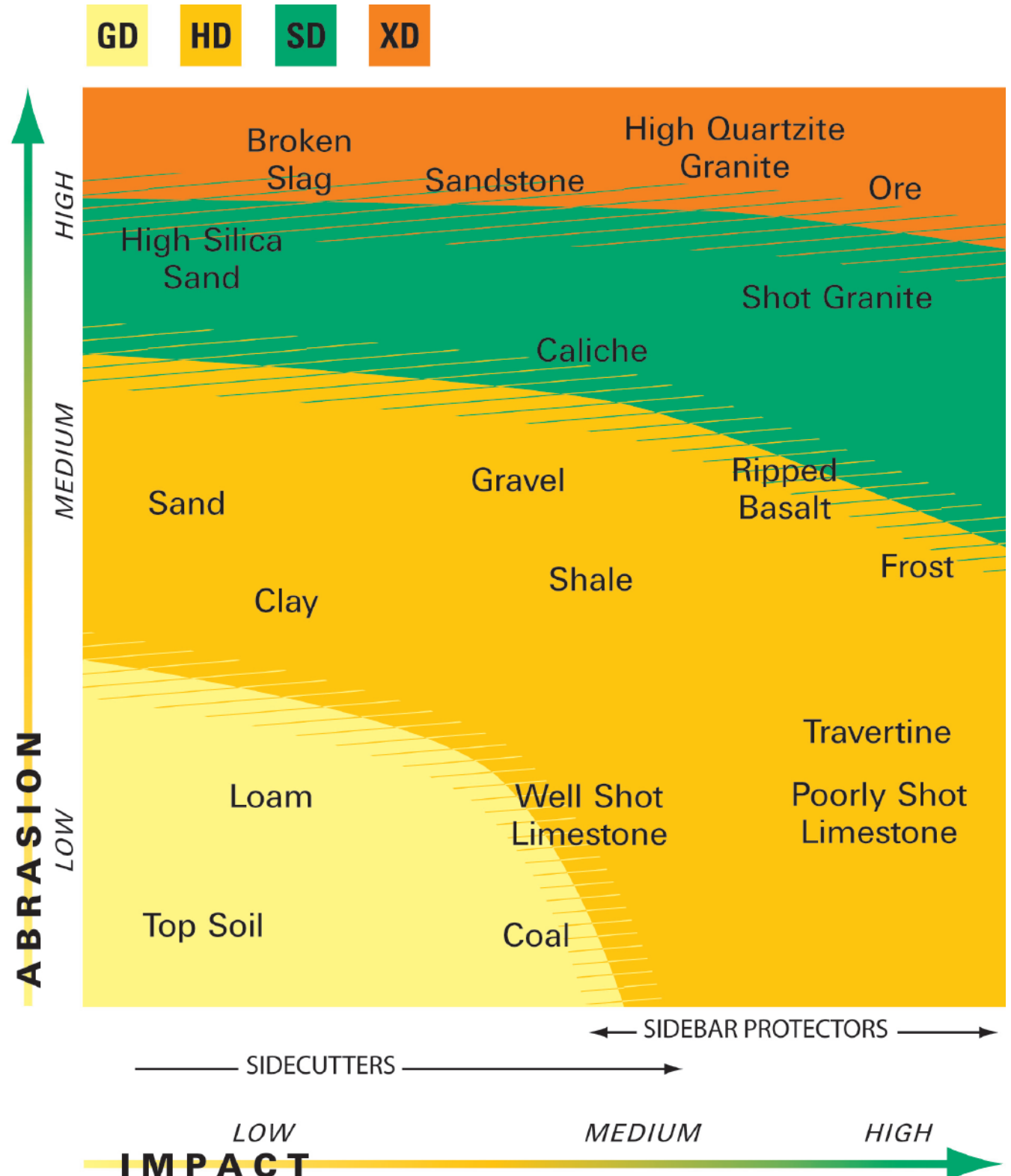
- » For very high-abrasion conditions including high quartzite granite. Example: Digging conditions where tip life is less than or equal to 200 hours with Extra Duty tips.



Typical 374-390 bucket

## CHOOSING THE RIGHT DURABILITY.

Choosing the wrong bucket can easily reduce production and increase operating costs by 10-20% or more. It can also cause unnecessary wear and fatigue for both machine and bucket. Contact your local Cat dealer for more detailed information on choosing the right excavator, bucket and work tool attachment combinations to meet your application needs.



# ADDITIONAL BUCKET STYLES

Several different bucket styles are available—each with a special purpose:



## DITCH CLEANING

These buckets are designed for cleaning ditches, sloping, grading and other finish work. Their shallow depth and compact size make working in confined areas easier. Drainage holes allow liquid to empty so material dumps more easily. Ditch Cleaning Buckets are available for 311-336 excavators.

Tilt Buckets feature a full 45° of tilt in each direction, powered by two double-acting cylinders. Tilt Buckets are available for 311-329 excavators.



## CENTER-LOCK™ PIN GRABBER PERFORMANCE

This bucket is designed with a patented recessed pin to provide maximum digging performance while keeping the versatility and convenience of a coupler. Tip radius is reduced and allows up to 10% improvement in breakout force when compared to a conventional pin-on bucket and coupler combination.

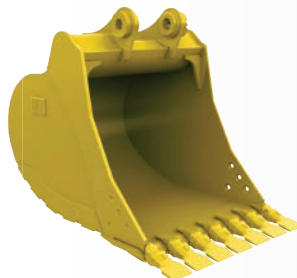
Center-Lock Pin Grabber Performance Buckets are available for 315-349 excavators in General Purpose and Severe Duty durability.



## POWER

Power Buckets are for use in abrasive applications where breakout force and cycle times are critical—and for use in materials such as tightly compacted mixed dirt and rock. (Not recommended for clay.) Breakout force is maximized due to decreased tip radius and increased pin spread. Machine cycle times in most material are improved over a standard bucket in a similar application.

Heavy Duty Power Buckets are available for 320-336 excavators.



## WIDE TIP

Wide Tip Buckets are intended to perform best in low-impact materials such as dirt and loam where leaving a smoother floor and minimal spillage is necessary. The bucket is engineered to be used exclusively with Cat Wide Tips. Corner adapters face straight forward to create a smooth edge.

General Duty Wide Tip Buckets are available in widths from 24" to 78" for 311-349 excavators.



## HIGH CAPACITY

High Capacity Buckets are designed and built for use in high-production truck-loading applications. With proper application and set up, these buckets will move more material in a minimal amount of passes—maximizing production.

High Capacity Buckets are available for 336-390 excavators in General Duty durability.



# CAT DEALER & BUCKET MANAGEMENT

CHOOSING CAT G.E.T. IS EASY.

Your Cat dealer makes it easy to choose the right G.E.T. for your machines and applications. In addition to a broad portfolio of products, your dealer offers the sales, service and technical support you need to keep productivity high and operating costs low. Trust your Cat dealer to:

## MAXIMIZE PRODUCTIVITY

Buckets and G.E.T. products are designed to meet your application requirements, rather than simply fit onto your machine.

## IMPROVE PERFORMANCE

Get the most out of your bucket and G.E.T. with expert advice that helps you lower costs and reduce unscheduled maintenance.

## SIMPLIFY MAINTENANCE

Tailored G.E.T. systems simplify your maintenance. We develop solutions that fit your expectations, including custom products.

## MANAGE WEAR

Intuitive Cat Inspect bucket inspection programs help you monitor how your G.E.T. system is wearing so you can adapt to changes in application and operation.



Talk to your Product Support Representative or G.E.T. specialist today to learn how they can help you simplify your bucket management by using Cat Inspect.

# HYDRAULIC EXCAVATOR (HEX) RIP AND LOAD

Using rippers mounted on large hex is a cost-effective alternative to blasting in quarries and site development. In site development, rippers on smaller excavators and backhoe loaders can readily deal with asphalt, caliche and frozen ground.

## IMPROVE YOUR PRODUCTIVITY

Increase productivity by adding efficiency and flexibility to your operation.

## EXTEND LIFE

A through-hardened hammerless wear tip and shank protector extend wear life.

## INCREASE DURABILITY

Upsized, hammerless adapters and tips accommodate higher loads and abrasion, while edge segments and top covers protect your base edge.



RIPPER-TO-BUCKET CHANGES ARE MADE HYDRAULICALLY IN LESS THAN 35 SECONDS.  
This gives the operator complete flexibility to continually adjust ripping, sorting and loading work.

## SIMPLE CHANGES

Pull material down and change bucket quickly and easily.

## BLAST FREE

Ripper allows you to work without blasting in areas with unstable land or sound regulations.

1



2



3



4



5



6





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