

Cat[®] Buckets and Ground Engaging Tools

for Medium Wheel Loaders 950 - 980



Features:

Loads easy

Fuel efficiency

Carries more

More uptime

Made to last

Benefits:

Cat[®] buckets are designed for optimum performance of the machine. Profile changes (over earlier buckets) improve loadability and make Cat Buckets perform better in combination with the same machine.

Cat buckets have a longer floor - easily digging through the pile. The opened throat allows material to flow unrestricted into the bucket. Additionally, improved visibility to the load allows the operator to see when the bucket is full. Less time in the pile equals less fuel consumed.

Bucket shape, strike plane and angle of general Purpose, Material Handling and Rock buckets are designed for material retention and consistent load sizes.

A spill guard diverts overflow away from hinge pins, lift arms, hydraulic cylinders and tilt sensors helping to protect these areas of the machine. The spill guard protects the Kick-out sensors and other linkage components for more machine up-time and less money spent on parts.

Caterpillar buckets are designed and built to Caterpillar specifications - guaranteeing quality and durability. High-strength parts and components provide durability without requiring thick, heavy materials and lead to longer uptime and larger payloads, cycle after cycle.



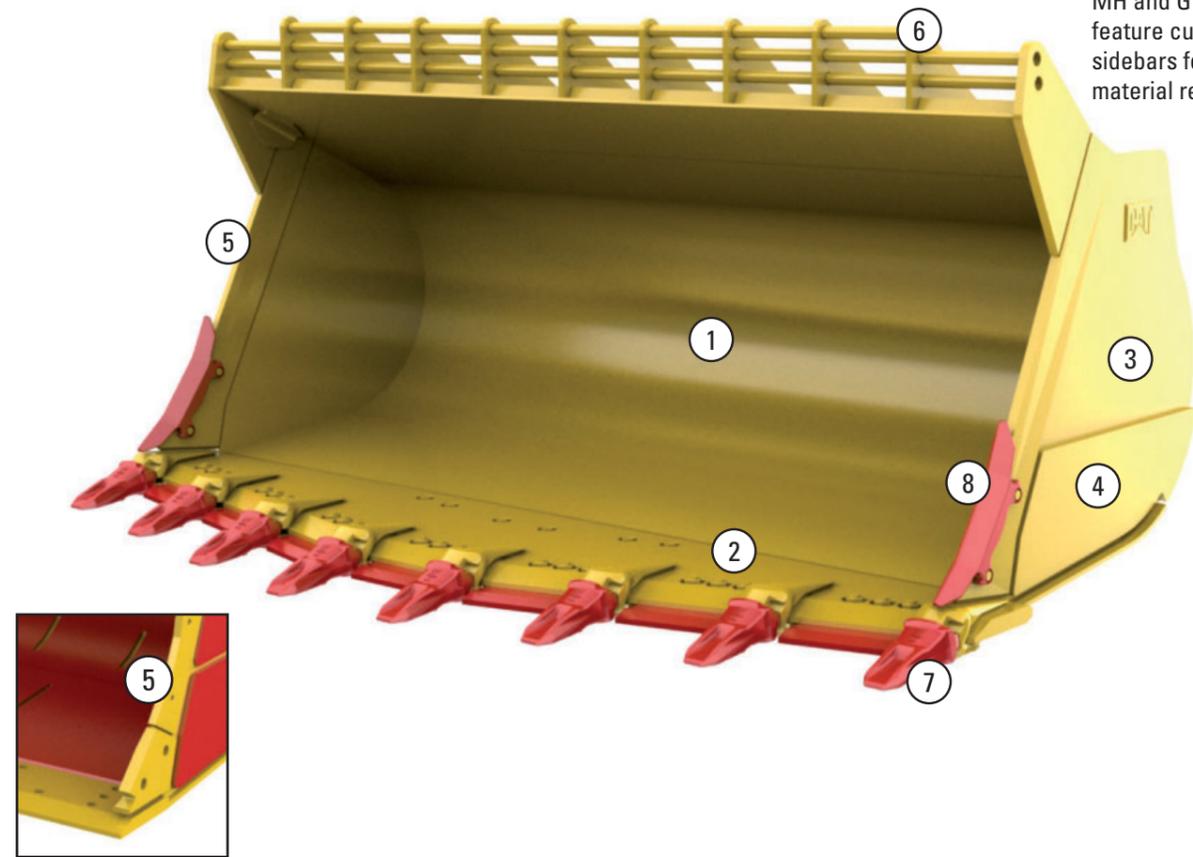
Performance Series Buckets for Medium Wheel Loaders

Bucket line constructed for Durability and Performance

Caterpillar offers a line of Performance Series buckets. This line of pin-on and coupler buckets features improved designs to take full advantage of machine power and linkages. Currently available for K- and M-series Wheel Loaders.



MH and GP buckets feature curved sidebars for improved material retention.



1. Wrapper (Shell)

Optimized design for better material flow.

2. Base Edge

Straight (MH/GP) or "spade" (Rock). Accepts Cat GET options.

3. Side Plate

4. Side Wear Plate

High strength for extra protection.

5. Side Bar

Special angle design for optimal penetration. Pre-drilled (Rock) or equipped with Corner Guard System (MH/GP) to add side bar and/or corner protection, (see insert).

6. Spill Protection

Integrated trash rack for Rock Buckets or spill guard for MH or GP Buckets.

7. Cat K System™ Tooth System

Cast from steel with properties that maintain hardness for long wear life in tough digging applications. Two-strap (Rock), single-strap or bolt-on (MH/GP) adapters and a wide range of tips to suit any application.

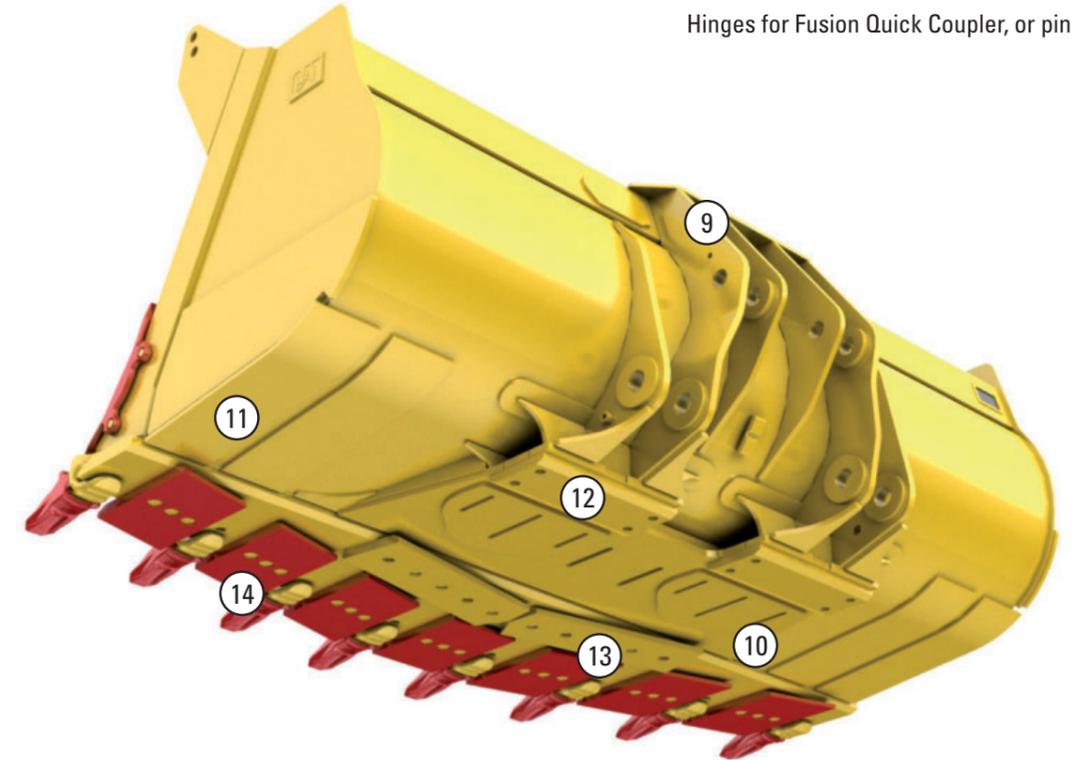
8. Sidebar Protector

Cat Sidebar Protectors can be used to match the wear conditions of the application.

Performance Series Buckets for Medium Wheel Loaders



Hinges for Fusion Quick Coupler, or pin on.



9. Hinges

Pin-on or Fusion Quick Coupler hinges form an integral part of the bucket construction.

10. Bottom Plate

Delta plate for Rock Buckets or tines for MH and GP Buckets support the base edge.

11. Bottom Wear Skid Plate

Skid plates on the outer bottom areas of the bucket shield high wear areas at and just behind the bucket's corners. They also add corner strength. Skid plates extend past the outside of the bucket side plates to protect the side plate welds.

12. Rear Wear Plate

Easy to change bolt on wear plates.

13. Base Edge Wear Plate

Wear plates offer enhanced protection to the base edge of Rock Buckets. Bolt holes accept bolt-on wear plates for complete edge protection and extended base edge life. Base edge wear plates cover the bottom area of the base edge not protected by segments.

14. Base Edge Segment

Protects the base edge areas between the adapters against wear.

Performance Series Buckets for Medium Wheel Loaders

Matched to your machine and your application

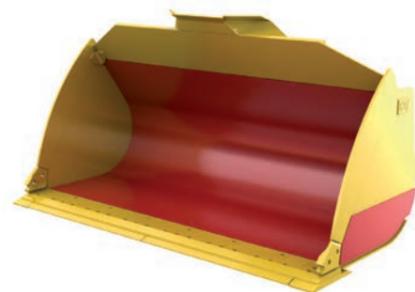
Caterpillar offers a wide range of purpose-built, high performance buckets, each designed to function as an integral part of your wheel loader. The combination of the right bucket with the right machine will provide the best possible performance in your particular application.

Material Handling (MH)



MATERIAL HANDLING buckets incorporate flat floor design and are built for loose material rehandling, making these buckets well-suited for a variety of STOCKPILE LOADING applications. These buckets provide maximum material retention and improved visibility to the payload in the bucket. These buckets can be equipped with bolt-on adapters and segments, or bolt-on-cutting edges with corner guard for versatility and longer life. Buckets are standard equipped with a spill guard to prevent possible spillage over the linkage. Material Handling buckets exist also in Heavy Duty structure and wear resistant configurations. Back Grading Edge is also available in this configuration with flush mount teeth.

Material Handling Heavy Duty



General Purpose

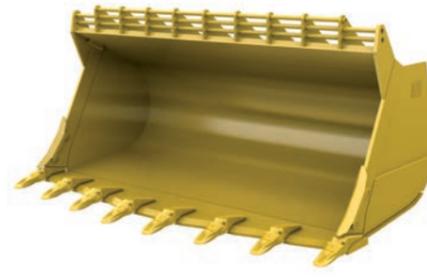


GENERAL PURPOSE buckets incorporate wedge floor design and are built with a shell tine construction to increase strength and rigidity, making these buckets excellent for EXCAVATION and BANK applications. This structure efficiently transmits cutting edge loads back to the lift arms, shielding the bucket shell from distortion and keeping it up out of the dirt. Designed to accept the standard Cat bolt-on edge with corner guard or tooth group with bolt-on segments. Buckets are standard equipped with a spill guard to prevent possible spillage over the linkage. For high abrasion aggregate applications, Heavy Duty GP buckets are the perfect choice.

General Purpose Heavy Duty



Rock



ROCK buckets offer superior protection, durability and performance. Specifically designed for quarry, aggregates and mining operations in high impact and/or high abrasion applications, these buckets are factory modified with additional protection. Cat GET components are designed to reduce down time and bucket-related operating cost to help you get the most from your machines. Each protection item and component was carefully chosen in response to customer requests for a bucket that delivers maximum strength, durability and wear life in high impact/high abrasion conditions. HD Rock buckets feature larger GET and additional wear material for the toughest applications.

Rock Heavy Duty



Bucket Material Recommendations

Choosing the Right Bucket

Choosing the right bucket will optimize production, lowering operating cost significantly. The right machine-bucket combination will better withstand wear and fatigue.

Use this chart to help select the right bucket type for your application:

- find the application closest to yours
- find the recommended bucket type
- size the bucket to your machine based on material density and machine size

Contact your local Cat dealer for more detailed information on choosing the right wheel loader, bucket and Work Tool attachment combinations to meet your application needs.

Operation Type	Material Fragmentation	Material Type	Impact	Bucket type	MH	MH HD	GP	GP HD	Rock	Rock HD	
				Abrasion							
Digging	Bank	Topsoil, Silt, Clay, Loam, Bank Gravel, Coal Seam	Low to Moderate	Low							
				L to M							
				Moderate							
				M to H							
	Shot/Broken		Moderate to High	High							
				Low							
				L to M							
				Moderate							
Rehandling	Crushed/Piled	Limestone, Dolostone, Basalt, Granite	Moderate to High	M to H							
				High							
				Low							
				L to M							
	Loose		Low	Moderate							
				High							
				Low							
				L to M							

Recommended Acceptable

Note:

For indication only. Bucket may require optional GET and wear products. Please contact your dealer for support.

Special application Buckets for Medium Wheel loaders

Caterpillar also offers a wide range of special application buckets designed to function as an integral part of your wheel loader.

Coal



Width range: 3400 - mm
Capacity range: 6.31 - cum

Coal buckets are designed for the optimal capacity and are standard equipped with a spill guard to prevent material (Coal) to fall on top of the machine linkage.

These buckets are well suited to stockpile materials as well as for loading applications.

These buckets provide maximum material retention and improved visibility to the payload in the bucket.

Slag



Width range: 3899 - mm
Capacity range: 6.5 - cum

Slag buckets are designed and built for loading hot slag. They have heat resistant characteristics suitable for removing hot material from melting furnaces.

Skeleton



Width range: 2850 - 3300 mm
Capacity range: 2.5 - 3.9 cum

UG-type skeleton buckets for separating rocks from sand and for applications where medium breakout forces are required. The buckets are made of wear resistant steel types.

Buckets are available with J-system adapters or without adapters.

UH-type skeleton buckets are for similar kind of applications as the UG. UH-type buckets however have thicker vertical bars and steel which is more wear resistant is used in the bucket in order to break up concrete for example.

With Clamps



Width range: 2921 - 3032 mm
Capacity range: 3.06 - 3.40 cum

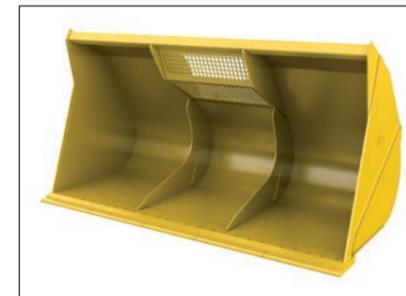
For applications such as loading light materials like paper and plastics a device like top clamps is required in order to keep the materials in the bucket and to protect it from being blown out by the wind.

Custom buckets

For buckets that differ from the standard design we can also provide assistance in engineering and building to suit your particular application. Ask your dealer for more information.

Special application Buckets for Medium Wheel loaders

Woodchip



Width range: 3200 - 4000 mm
Capacity range: 7.0 - 25.0 cum

Woodchip buckets are available for forestry and millyard applications for transporting large volumes of woodchips economically.

High Dump



Width range: 300 - 3200 mm
Capacity range: 5.1 - 6.7 cum

This type of bucket is able to dump material higher than standard buckets.

They can dump higher than the bucket-pin of the machine. High Dump buckets can be used up to a material density up to 1.8 ton per cubic meter.

Serrated Edge



Width range: 3492 - 3645 mm
Capacity range: 4.5 - 5.1 cum

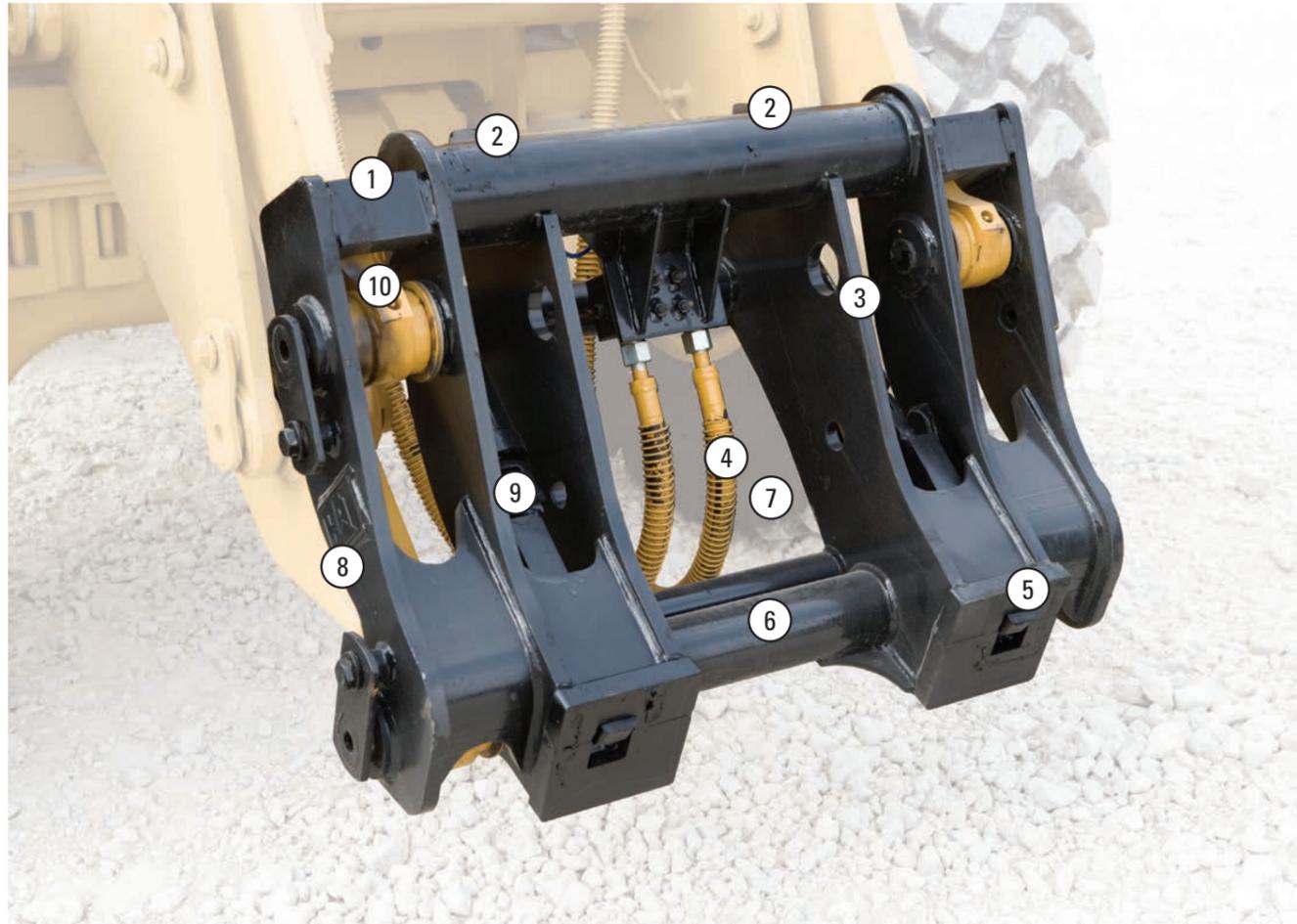
For loading rocky material into stationary Crushers/breakers without the risk of loose tips coming off from the bucket damaging the crusher.

The integrated teeth on the cutting edge of this bucket type are self-sharpening.



Cat Fusion™ Coupler System

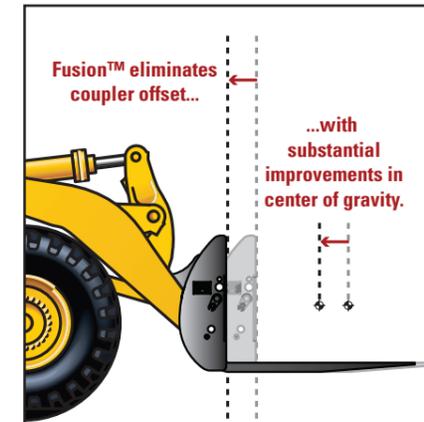
The Cat Fusion™ Wheel Loader Coupler System pulls the coupler and work tool closer to the wheel loader for machine performance comparable to pin-on - with all the versatility and flexibility of a coupler. The patented design moves the center of gravity closer to the machine, yet the coupler enables the loader to conveniently pick up and use a wide range of work tools.



- 1 Fusion coupler is integrated into loader arms - minimizing offset, promoting more machine performance.
- 2 Alignment indicators enhance ease of use for coupling and uncoupling in ideal and less-than-ideal conditions.
- 3 Long-stroke cylinders keep wedges tight for the life of the coupler.
- 4 High performance hydraulics are fully integrated with Cat® Machines for flawless control. Separate Fusion control circuit keeps third valve free for running other attachments.
- 5 A tight fit is achieved by cylinders driving wedges down and into coupler pockets on the attachment. Tight fit eliminates rattle and premature wear, and substantially increases durability over traditional couplers.
- 6 Constructed of high-strength steels, and assembled to ISO9001 standards, the Fusion coupler endures like no other. Over 30 000 hours of on-the-job testing prove it.
- 7 Open frame design promotes better visibility at ground level and truck bed heights.
- 8 With Caterpillar on the side, you know Fusion is backed by the world's largest, most knowledgeable service organization.
- 9 Direct connection between wedge and cylinder is simple and reliable. Other couplers use complicated cross-linkages, prone to wear and failure.
- 10 Integral check valve keeps cylinders locked in place - even if hoses are compromised.

Cat Fusion™ Coupler System

No Loss of Performance

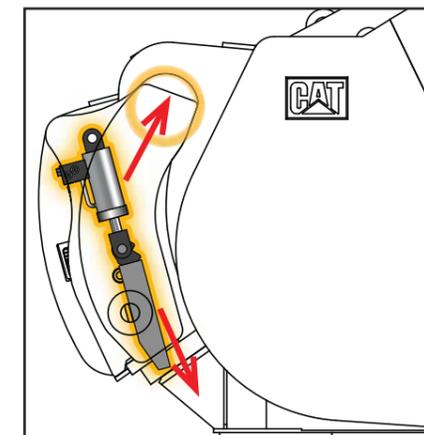


This new patented interface provides coupler flexibility with performance virtually identical to pin-on.

Imagine lifting a ten-kg box with your arms fully extended. Now, imagine lifting that same load close to your body. That is the genius of Fusion: designed to integrate the work tool and the machine by pulling the coupler and tool closer to the wheel loader. As a result, the center of gravity is moved inward, towards the machine. This translates to increased lifting ability when compared to machines equipped with competing coupler systems.

- 1 Fusion™ eliminates coupler offset...
- 2 ...with substantial improvements in center of gravity.

Designed for Durability



The advanced wedging mechanism of the Fusion Coupler creates a tight, rattle-free fit. This new lock up system eliminates play and wear - resulting in a long service life.

Wedges pull the attachment tight to the machine in two directions - in and down. Constant hydraulic pressure on the coupler wedges compensates for wear, assuring a tight fit throughout the life of the coupler. Tight fit gives better tool control and increased productivity. Plus, coupler durability is substantially increased over traditional couplers.

Increased Visibility



A new, open coupler frame design opens sight lines from the operator's seat, making it easier than ever before engage and disengage attachments with certainty.

Offset tines and other design features of Fusion Pallet Forks, working in conjunction with the Fusion Coupler, increase visibility substantially at ground level and truck bed height when compared to traditional coupler and fork combinations.

Cat® K Series™ Tooth System

Caterpillar Inc. is a unique equipment manufacturer in that we design, manufacture and sell Ground Engaging Tools (GET) for our machine models and buckets. In fact, we produce the widest selection of premium quality GET in the marketplace today.

The K Series Tooth System represents a new standard of performance for tip retention, easy change outs and long-term sharpness. A twist-on design and vertical retainer ensure reliable retention and easy removal and installation. The K Series Tooth System also features a lower-profile shape that maintains better sharpness as it wears. This means better penetration, improved productivity and less strain on the machine.

The K Series Tooth System:

Stays Sharper – Redesigned tip shape stays sharper throughout its wear life.

Changes Easier – Vertical retention makes tip change-outs quick and easy.

Holds Tighter – Tips are made to stay in place cycle after cycle.

K Series Tip



General Duty

Used in most general applications.



Extra Duty

Used on larger machines in general loading and excavation work. Has longer wear life and greater strength.



Penetration

Used in densely-compacted material such as clay. Gives enhanced penetration. Self sharpening



Penetration Plus

Used in difficult to penetrate material with moderate-to-high impact conditions such as sedimentary rock, cemented gravel or poorly shot rock.



Heavy Penetration

Ideal for use in shot rock and tight bank loading where both impact and abrasive conditions are moderate to high.



Heavy Abrasion

Used on larger machines when working in sand, gravel and shot rock. Maximum wear material.



Wide

Provides a clean floor. Increases capacity with less spillage.



Spike

Provides maximum gouging and penetration capabilities, less wear materials are self-sharpening.



Double Spike

Used for enhanced fracture capability. Less penetration than sharp tip. More wear material than sharp tip.



Sidebar Protector

Protects sidebars from wear and damage. Pins on for easy installation and removal.

Cat® Wear Protection Products

Cat wear protection products have been designed to protect more expensive components, such as machines and buckets, resulting in less downtime and greater productivity. The wide variety of product designs and sizes allow for maximum wear protection in virtually any type of environment or application.



Heel Shroud

Heel shrouds are used to protect the lower outside corner of all types of Caterpillar buckets. The heel shrouds wrap around the bottom and side to give wear protection and structural support to the bucket. For moderate wear applications and sites especially concerned about mechanically fastened parts, these weld-on heel shrouds are an excellent option.

- Extra wear material is concentrated in the corner where it is most needed.
- The inside corner is reinforced to prevent interference with the bucket structure and weld joints.
- Straight and curved heel shrouds are available in two different sizes to best match bucket contour and size, as well as abrasiveness of the application.



MAWPS

The Mechanically Attached Wear Plate System provides a hammerless method for installation and removal of wear plates. MAWPS are available in a variety of sizes. Each size is also available in two different thicknesses: standard and heavy duty.



Chocky Bar

Cat® chocky bars, designed in four distinct shapes, conform to virtually any surface or application.

- The “V-groove” design allows these items to be bent around a radius (ie, side bucket profiles) or separated to change the length requirement needed.
- The inset of the Cat logo allows for the trapping of fine material in each section, extending the life of the wear material itself.



Roll Bar

Cat roll bars are a unique product designed to protect the leading edge of earthmoving machinery such as dozers, loaders, and mining shovels.

- Their round profile is designed to provide maximum wear protection while minimizing drag as the edge proceeds through the media.
- Roll bars offer impact deflection, improved media penetration, and overall weight reduction



Wear Button

Cat wear buttons have been designed for use in applications that lend themselves to optimizing their round profile, or where the round design is needed to cover a specific surface area.

- The buttons utilize a “tri-bar” design, which traps fine media between the three raised bars.
- The trapped media will provide material-on-material wear, prolonging the life of the product.



Wear Block

Cat wear blocks are used in areas where a single piece needs to cover a large or specific surface area.

- The wear block has a thicker profile, which provides extended wear life in extreme applications.
- The “zig zag” inset design allows for material-on-material wear and prevents the detrimental channel wear common to wear plates that have grooves parallel to the direction of media flow.

Cat Buckets for Medium Wheel Loaders

You can count on genuine Cat quality built in every bucket

Caterpillar has a 35 year legacy designing and manufacturing buckets. A tremendous amount of data and customer feedback on use in applications and materials from around the world is integrated into each bucket design. With every Cat bucket that leaves our factory, not only leaves a world-class product, but also a first-class promise. So you can be sure that every day we do our utmost to build the products that will make you more efficient and productive.

Cat Buckets offer you:

MORE PAYLOAD

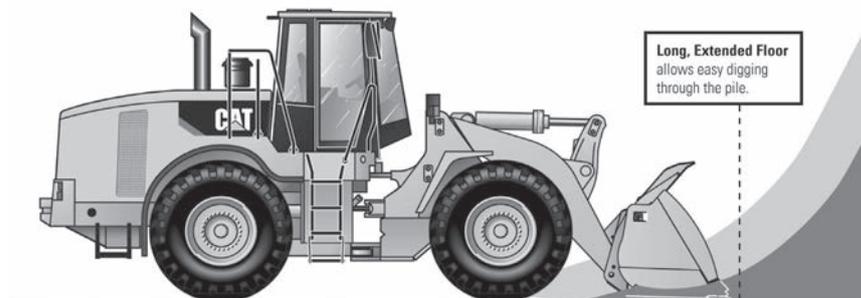
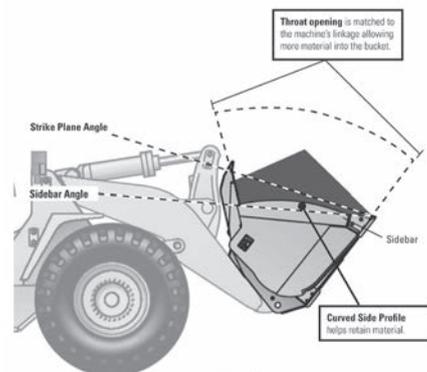
- Better Fill Factors
- Better Material Retention
- Less need for skilled operators

LESS FUEL BURNED

- Faster Loading
- Less clean up (improved spill guard)

LESS MACHINE DAMAGE

- Tires
- Sensors
- Glass



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

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