

# You Have Options For Construction



*Construction work*

*can be tough*

*on machines.*

*You need tough tools*

*you can rely on.*



# Better Protection Means Better Performance

Shift after shift,  construction work pushes your machines

to the very limit. So you need tough Ground Engaging Tools (GET),

matched to the job and built for the long run. Tools that can

help you boost production, reduce operating costs and



increase profit margins. You need GET from Caterpillar.

## Tough Jobs Call for Tough Tools



Cat<sup>®</sup> Ground Engaging Tools deliver the optimum

protection and rugged durability you need for a variety of

applications. To maximize wear life and efficiency, we design our

GET to perform as an integrated system.



And Cat GET

are precisely matched to the machine and the application to increase

productivity and profits.

## Built for Better Returns on Your Investment

Manufactured to exacting Caterpillar specifications for strength and durability, Cat GET offer top wear life. Produced with our specially formulated DH-2 and DH-3 steels, our tools are heat-treated so they're hard enough to resist wear and strong enough to resist breakage—and with DH-3 steel, to reduce the softening effects of heat buildup.



Abrasion Resistant Material (A.R.M.) is applied to some GET to increase wear life and productivity over non-treated product. These tools, with tungsten carbide particles welded to critical areas, often extend wear life up to five times over standard components. On bucket and ripper tips, A.R.M. often generates a wear pattern that



enhances penetration. GET with A.R.M. are best suited for low- to moderate-impact and moderate- to high-abrasion applications.

A.R.M. is recommended for applications where sand, gravel and other abrasive materials cause GET to wear quickly. A.R.M. can be applied to a wide variety of wear parts, including edges, tips, bits, wear plates and protectors.

As your Cat Dealer, we are here to help you choose the right tools for your jobs. We have the expertise to provide you with unequalled service, support and selection assistance.

Caterpillar offers the most complete range of GET options for construction. Choose Cat GET and you get an integrated system of tough construction tools that will help you move more material for less per ton...on any job.



# Track-type Tractors

When it comes to construction,  no machines bear

the burden like dozers. Whether it's building roads, pushing scrapers



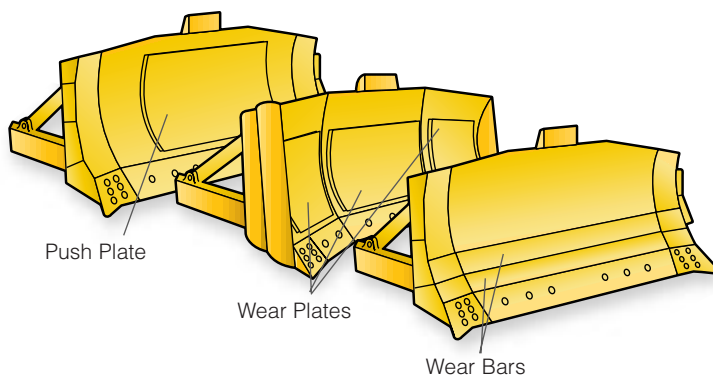
or dozing overburden, Cat has superior GET that are

up to the task.

## Edge and End Bit Systems

**Dozer Cutting Edges**, available for all Cat Dozers, are made from DH-2 steel for longer wear life in high- or low-impact applications.

**Multi-Section Cutting Edges** allow each section to be switched, propellered or replaced individually for top wear life. A choice of thicknesses for each dozer model lets you balance edge life and production.



**End Bits** protect the blade corners and are available in four basic styles. General Duty End Bits preserve cutting-edge corners in general dozing applications. Extended Wear Life End Bits are best suited to highly abrasive conditions. Utility End Bits help fight face wear and provide a lower initial price. Finish End Bits are matched to the width of the cutting edge to provide a level cut.

**Dozer Heavy-Duty GET** are designed for D8, D9, D10, D11, 824 and 834 dozer blades. These tools have thicker edges and flush end bits for severe applications. They're intended primarily for push-dozing operations.

## Blade Protection

**Blade Protection Options** include Wear Plates, Push Plates and Wear Bars to protect the blade in conditions that produce high abrasion, impact and push forces.



## Rippers

Efficient ripping requires not only tractive effort but also the correct ripping angle, the right number of shanks and the proper spacing. Cat job-matched GET help make your ripping more productive and cost-effective.

**One-piece Shanks** for large production rippers offer improved heel clearance, plus more strength because there's no weld joint. Fully machined surfaces provide a tighter fit between shank, tip and protector for less movement and longer tip life.

**Shank Protectors** extend shank life on large production rippers. Multi-piece Shank Protectors are available for highly abrasive or deep ripping.

**Ripper Tips** for most big rippers come in both Centerline and Penetration styles, both with a center rib to add strength and promote self-sharpening. Centerline Tips are reversible for longer life. Cat Ripper Tips come in a variety of lengths, including some with Abrasion Resistant Material for up to five times longer wear life in high abrasion/low-to moderate-impact conditions.

**Replacement Adapters and Noses**, available for most large ripper assemblies, reduce repair costs by eliminating the need to replace entire ripping assemblies. Damaged noses and adapters can be replaced separately.



# Wheel Loader Systems

In a construction operation,



wheel loaders do a multitude

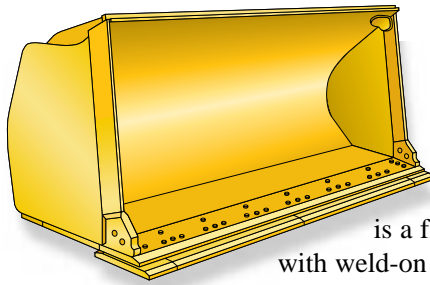
of tasks. Our complete Cat GET Systems for loaders—including Bucket

Edges, Tips, Adapters and Segments—help your machines apply full



force to the work while protecting components from the

punishment of severe applications.

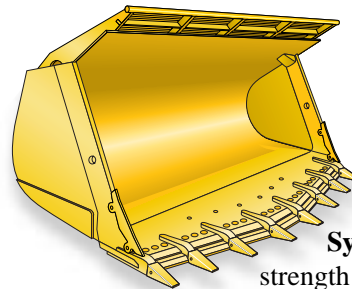
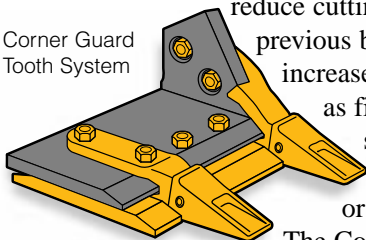


### The Material Handling Bucket System

is a flat bottom bucket with weld-on wear strips. It is designed primarily for loading out of a stockpile. This system is available for the 950-972 models.

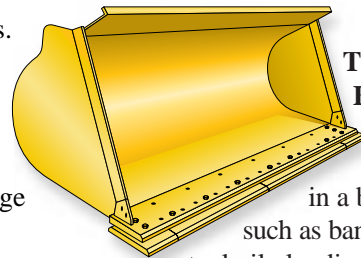
**The Cat Corner Guard System** allows either a Bolt-on Tooth or Bolt-on Edge option on the Material Handling or General Purpose Buckets. The Corner Guard Bolt-on Edge System can reduce cutting edge costs by 25% over previous bolt-on edges, and it can increase base edge life by as much as five times over unprotected edge systems. It consists of end edges (either straight or angled) and two center edges. The Corner Guard Tooth System consists of *bolt-on* adapters and edge segments and *pin-on* tips.

Corner Guard Tooth System



### The Rock Bucket System

offers more strength and longer life in the toughest materials. Available with either a spade edge or straight edge, several configurations are available to match your job needs. A custom Rock Bucket System can be created by choosing from three types of weld-on adapters, each with a different tip position to control digging aggressiveness. Rock Buckets can also be equipped with bolt-on cutting edges if teeth are not required. This system is available for the 950-992 models.



### The General Purpose Bucket System

is designed to provide excellent loadability and long life in a broad range of applications, such as bank loading, excavating and stockpile loading. It provides a bucket that yields excellent breakout force. This bucket is available for 914-988 models and uses the Cat Corner Guard System of GET.



# Wheel Loader Components

## Base Edge and Sidebar Protection

Base edges are important structural components of the bucket, used as a platform upon which to install the appropriate GET for the application.

**Bolt-on Edges** are available to protect the base edges of most Rock, General Purpose and Material Handling Buckets. They're fast and easy to replace—and can usually be propelled to extend wear life. They're used in applications not requiring the enhanced penetration capability that teeth offer.



**Weld-on Half Arrow Edges** are designed to fit Caterpillar and other brands of loader buckets. They provide improved bucket penetration, greater bucket-structure protection and longer edge life—with weld-on convenience.

**Bolt-on Edge Segments** bolt directly to the base edge to prevent scalloping between teeth. They share the digging load so tip and adapter life is extended. They're offered in two thicknesses to better match wear life and penetration requirements.

**Bolt-on Half Arrow Segments** create a sharper leading edge than flat segments. They protect the bevel and leading edge of the base edge and improve bucket penetration and capacity.

**Sidebar Protectors** pin to the sidebars of Rock Buckets. They extend sidebar life, eliminate bucket-capacity loss due to sidebar scalloping and are reversible for extended service life.

**Base Edge Wear Plates** bolt to the bottom of the bucket immediately behind the adapter straps. They extend the service life of the base edge, adapters, bolt-on segments and bolt-on edges.

## Tips and Adapters

Serious construction work calls for durable, reliable loaders, with bucket systems that efficiently apply the working force. To better match GET to specific materials, Caterpillar offers a range of tip options, including Long, Short, Penetration, Heavy Duty Long and Heavy Duty Abrasion. For extreme abrasion conditions, our Heavy Duty Long Life Tip offers even greater life and enhanced performance.

Whether you want a smooth bucket bottom, increased strength and retention, or maximum bucket penetration, you can choose from a variety of Weld-on Flushmount, Two-strap or Bottom-strap Adapters. Corner Guard Systems use Two-strap Bolt-on Adapters.





# Excavator Bucket Systems

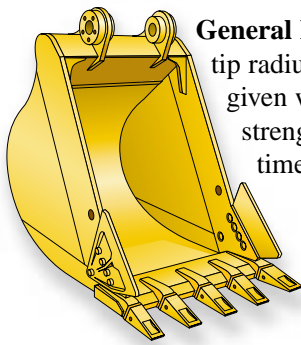
Caterpillar Excavators are built tough to deliver top production under the worst conditions a construction operation can dish out.



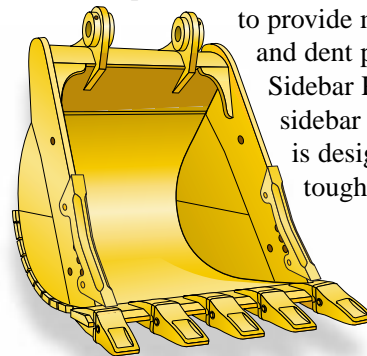
To help maintain your high-production edge, we offer a variety of bucket system options and job-matched Ground Engaging Tools.



## Excavator Bucket Systems

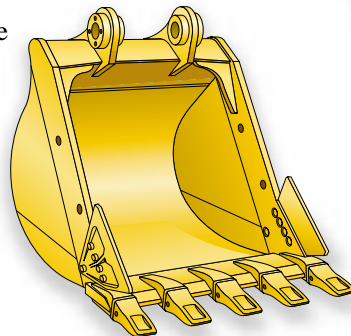


**General Purpose Buckets** have an open tip radius to provide more capacity for a given width, and lighter, higher-strength structures to decrease load time and increase payloads.

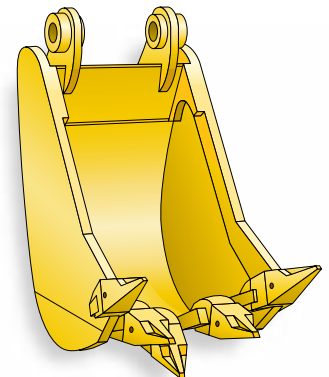


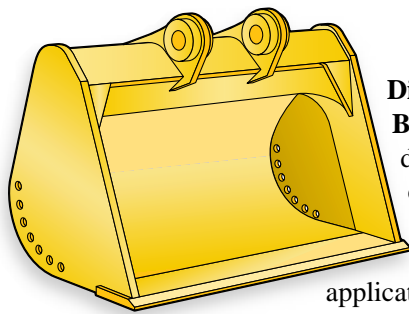
**Heavy Duty Rock Buckets** offer special wear plates on the bottom and other key areas to provide more wear material and dent protection. Optional Sidebar Protectors decrease sidebar wear. This bucket is designed for the toughest applications.

**Heavy Duty Buckets** use thicker wear plates and base edges, plus upsize tips and adapters to provide greater impact and wear resistance. A shorter tip radius means more aggressive digging.



**Heavy Duty Rock Ripping Buckets** feature a stepped tooth design that applies the entire machine force to one or two teeth for maximum penetration in hard rock and virgin materials.





### **Ditch Cleaning**

**Buckets** are designed for cleaning ditches, slope and other utility

applications. These are

wide, shallow buckets with holes drilled in the sides to allow water to drain.

They do not accept teeth or side cutters.

### **Components**

**Bucket Base Edges** are available as one-piece assemblies, with weld-on adapters that accept the same tips used on Cat Loaders. Bulk-section base edges without adapters are also available.

**Side-cutters** improve digging, increase bucket capacity and cutting width, and protect sidebars. They're available in five designs to match specific job conditions.

**Sidebar Protectors** are available for Excavator Buckets. These pin-on components extend sidebar life, eliminate bucket capacity loss due to sidebar scalloping and are reversible for extended service life.

**Excavator Bucket Tips** include all the tips available on wheel loaders, plus four other options—Center/Corner Sharp, Wide, Twin Sharp and Penetration Long Life—to help maximize productivity in any application.

**Secondary Breakage Tools** for machines equipped with Balderson Hammers are available in Blunt, Chisel, Moil and Spade profiles. We also offer a compacting plate for ground-compacting applications.

# Excavator Work Tools

## Cat Drill Tools

Cat Drill Tools are offered for John Henry and other brands of percussive rock drills that use 38 mm, 45 mm and 51 mm drill strings. Tungsten carbide buttons provide superior performance and fast penetration. Shank adapters are made with high-alloy steel to withstand repeated impact and are carburized for longer wear life. Tempered for increased toughness, couplings are designed to provide the most secure connection to drill steel.



## Demolition Tools

**Cat Mobile Scrap and Demolition Shears** are widely used for demolishing steel structures and cutting up automobiles, trucks, farm machinery, railroad cars, larger rubber tires, reinforced concrete structures, cables and general scrap. Shears are built to optimize productivity and cost-effectiveness while minimizing

maintenance cost and downtime. Steel cutting knives are made of high-hardness steel, combining inherent hardness with exceptional tensile strength.

**Concrete Pulverizers** are available in two configurations, ideally suited to accomplish primary and secondary demolition in one operation. The same trouble-free, powerful hydraulic cylinders, large diameter 360° rotation system and high-quality steel are featured in both. Replaceable crushing teeth and cutting knives are made of special high-alloy steel for high abrasion resistance.

**Concrete Crushers** are designed to quickly demolish reinforced concrete structures such as bridge decks, parking garages, support columns and abutments with a thickness or diameter up to 5 ft (150 cm). Replaceable crushing teeth and rebar cutting knives are made of special alloy steel with high abrasion resistance.

**Cat Hydraulic Hammer Tools** are available for Cat Hydraulic Excavators, Backhoe Loaders, and Skid Steer and Compact Loaders. Hammer tools are available in five styles including Blunt, Chisel, Moil, Spade and Compacting Plate. They are best suited for jobs ranging from igneous/metamorphic rock and concrete to frozen and compacted ground.



# Motor Graders

The cutting edges on motor graders



take the punishment

of high speed, high abrasion and hard-packed surfaces. So, it's critical to

productivity—and low maintenance costs—to have GET that can

withstand tough,



challenging conditions. To tackle the

challenge, Caterpillar offers Cutting Edge Systems with flat and

curved cutting edges.

## Motor Graders

Cat Motor Grader tools are built to work productively and cost-effectively for the long run.

**Motor Grader Cutting Edge Systems** come in three types. Flat Edges are strongest and have the most wear material. Curved Edges improve penetration. Serrated Edges are best for penetrating frozen or hard-packed surfaces.

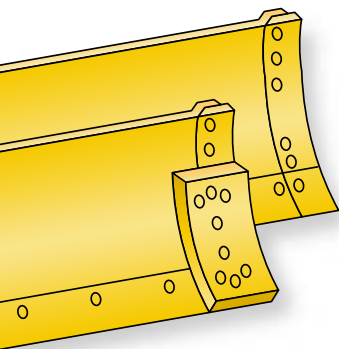
**Moldboard End Bits** protect the end of the moldboard from wear and damage. They're recommended for all applications.

**Overlay End Bits** protect cutting edge ends from excessive wear in applications that cause corners to wear first.

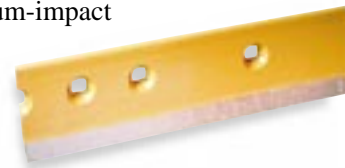
**Ripper Tips** augment the processing of surface material and help prepare work areas for loaders, trucks and other machinery.

**Tungsten Carbide Motor Grader Cutting Edges** feature tungsten carbide tiles brazed to the leading edge of a curved, steel cutting edge base. They reduce cost per hour in highly abrasive, low- to medium-impact applications such as maintenance of unpaved, sand and gravel roads.

**Scarifier Tips** augment the processing of surface material in road work and in preparing work areas for loaders, trucks and other equipment. They mount either ahead of the blade or on the rear of the machine.



Moldboard with Edge and Reversible End Bit





### **Cat GraderBit System**

The grooming and maintenance of unpaved roads can present its share of problems. This system penetrates compacted surfaces to a controlled depth. It also eliminates ruts and potholes—and easily clears ice and compacted snow.

**Cat GraderBits** mount on adapters that bolt to the moldboard. Wide spaces allow adequate flow-through of large aggregate. Tips are made of hard tungsten carbide for long life in tough conditions.



A variety of tip and adapter options can be tailored to specific conditions. Standard GraderBits provide optimum penetration and flow-through of fines, producing a textured surface. Alternating Standard and Wide GraderBits leaves smaller gaps, thus screening out smaller material and creating a smoother surface. Also available are Sharp and Penetration Bits, which improve penetration and leave larger aggregate on the road surface.

YOU GET TOP PERFORMANCE WHEN TOOLS MATCH THE TASK

## Scrapers

The complete line of Caterpillar Scraper Cutting



Edges and Router Bits includes a variety of arrangements and options

to match any construction application.

### **Scraper GET**

**Cutting Edges** are available in two arrangements for most machines—Stinger and Level Cut. An Elevating Scraper Tooth Arrangement is also an option, along with an Integrated Tooth Design for the Cat 623, 633 and 639. You can choose from a number of edge thicknesses. Thinner edges provide greater penetration, while thicker edges offer more wear material and impact resistance.

**Router Bits** are used on all scrapers to protect the corners of the bowl from excessive wear. We offer two types of Router Bits—Standard for general use, and Heavy Duty for use on larger scrapers working in highly abrasive conditions. Both types are reversible for additional wear life.







YOU GET TOP PERFORMANCE WHEN TOOLS MATCH THE TASK

# Paving Equipment

Caterpillar offers a broad



line of compactors, pavement

and paving machines that are designed to help you complete

your work efficiently, productively and

effectively.



## Paving Equipment GET

**Pavement Profiler Bits** for cold planers and road reclaimers come in a variety of types and sizes. Cat Bits feature long-wearing carbide for reduced tip fracture and extended life, broad retainers for easy installation/removal, and longer holder-bore life.

**Cat Soil Stabilizer Tools** are built to the highest quality standards for maximum service life. They are available for all Cat Soil Stabilizers, as well as older machines manufactured by Raygo and Bros.





## GET Systems Management

The life of your GET depends on effective system management. By selecting the right system for your specific application, you can maximize your overall productivity. Accurate record keeping and regular maintenance will help ensure that you get the optimum life out of each component.

We can identify signs of premature wear or improper use, so you can take corrective action. Also, your operators can dramatically affect the life of your GET. We can offer proper operating techniques that can drastically reduce wear and, at the same time, increase production levels.

Even worn-out Ground Engaging Tools have one more practical use. Before you dispose of your retired GET, it pays to analyze the wear patterns. By doing so, you might gain information that will suggest improvements in your system management—so you can achieve even longer wear life and lower cost per ton.

You can count on us to deliver parts when and where they're needed. If we don't have the tool you need in stock, we can quickly get it to you. All Cat Ground Engaging Tools are covered by the Caterpillar warranty against breakage. If any Cat Ground Engaging Tool breaks in normal operation at any time during its life, Cat will provide a replacement free.

Contact us today about any of our support services. From system selection to operator training to wear analysis, we're committed to helping you maximize your productivity, while minimizing your costs. See how Cat GET can help you get the best value and the highest return on your GET investment.

**For more information, see us today or visit the Caterpillar Web site at <http://www.CAT.com>.**

