

CAT® CUTTING EDGE SYSTEMS

# MOTOR GRADERS





# EXCELLENT VALUE AND COST PER HOUR FOR YOUR CAT® EQUIPMENT

Cat® motor grader cutting edges and end bits are designed to create a balance with your machine – and your conditions. All Cat cutting edge systems help you lower your cost per hour, decrease downtime and move more material. Choose the options you need to match your application and get the results you want.

High-quality Cat cutting edges can enhance your grading experience, even if you have a mixed-brand grader fleet. Your Cat Dealer can help you determine cross-compatibility.



# WHY CHOOSE CAT CUTTING EDGES?



## 1 LONGER LIFESPAN

Most Cat Motor Grader Cutting Edges are made of through-hardened medium carbon DH-2 steel. This material makes a tough, long-wearing edge with a uniform hardness.

## 2 FULL PORTFOLIO OFFERING

Caterpillar offers a wide range of cutting edges to satisfy every application, from light-duty landscaping to heavy-duty mining haul road maintenance.

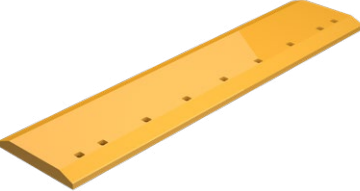
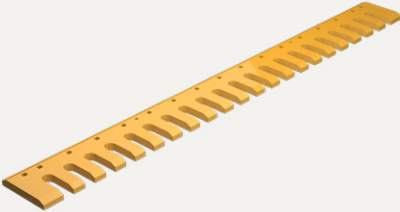



## 3 BETTER PROTECTION

Cutting edges can be used to ensure a smooth floor, protecting your motor grader tires from debris.



# THROUGH-HARDENED CUTTING EDGES

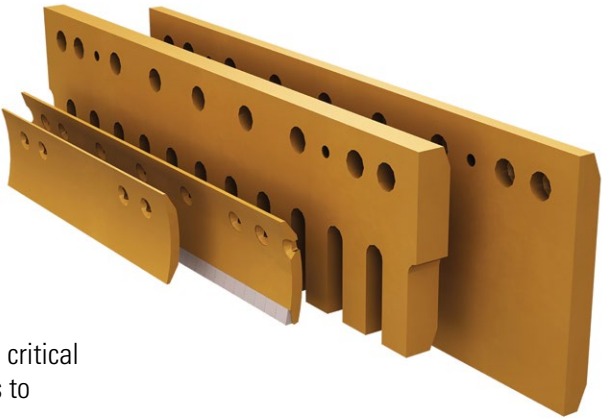
Most cat edges are through-hardened steel which offers high-impact resistance.

THROUGH-HARDENED EDGE TYPE	BENEFITS
	<b>FLAT</b> <ul style="list-style-type: none"><li>» Heavy road maintenance and pioneering</li><li>» Maximum strength and available wear material</li><li>» Best option for abrasion and impact resistance</li></ul>
	<b>FLAT SERRATED</b> <ul style="list-style-type: none"><li>» Better penetration than a continuous edge (greater down pressure per inch of edge contact)</li><li>» Designed to penetrate packed gravel, frozen earth and ice</li><li>» For severe impact conditions, install over a 6" (152 mm) edge to reduce tooth breakage</li></ul>
	<b>CURVED</b> <ul style="list-style-type: none"><li>» Provides superior penetration and rolling action necessary for fine grading and finish work</li><li>» Finishing tolerances less than ¼" (6 mm)— the best value may be in selecting a narrow and thin cutting edge</li></ul>
	<b>CURVED SERRATED</b> <ul style="list-style-type: none"><li>» A curved serrated edge penetrates better than a straight serrated edge with a forward mold board</li></ul>
	<b>EDGE WIDTH EQUALS WEAR MATERIAL</b> <ul style="list-style-type: none"><li>» An 8"(203 mm) edge provides twice the wear material as a 6" (152 mm) edge at about 35% more cost</li><li>» Hardware cost and R&amp;I downtime are reduced by 50%</li></ul>

## CATERPILLAR WARRANTY

Cat end bits and cutting edge systems come with our Caterpillar Limited Warranty which covers damaged Cat parts in the event of an applicable failure.\*

\*Warranty can vary by model and applications; limitations may apply. For complete details about the applicable Caterpillar Limited Warranty, contact an authorized Cat dealer.



## FLAT AND CURVED CUTTING EDGES FOR THE TOUGHEST ENVIRONMENTS

Caterpillar offers a wide range of cutting edges for motor graders. Each provides certain benefits when used in the appropriate application. Using the right edge is critical for enhancing production and keeping total costs to a minimum. The three factors to consider in choosing a cutting edge are shape, width and thickness.

There are two basic edge shapes – flat and curved – with serrated edges available in both configurations. Cat offers two types of grader edges and three edge thicknesses for the 16M and 24M motor graders.

- **Super Durability, More Options**

Cat DH-2 through-hardened steel edges are available in a variety of shapes and thicknesses to fit every application.
- **Maximum Penetration, Minimum Waste**

Cat cutting bit systems are designed to help increase penetration and extend wear life.
- **Extended Life Edge**

Maximize your edge life with tungsten carbide edges.

Edge width translates into wear material, so a wider edge usually delivers longer life. Edge thickness is determined by penetration requirements: Harder-to-penetrate materials call for the use of a thinner edge, but a thicker edge can be used for easier-to-penetrate materials to extend wear life.



## BITS FOR WIDE-RANGING APPLICATIONS

Cat GraderBit2™ (GB2) bits are ideal for finish grading, maintaining roadways or reconditioning haul roads. These can be installed effortlessly without tools, thanks to pull-rings that insert into the bit shaft and lock over the bits.

**How They Work**  
These tungsten carbide cutting bits deliver up to 20 times the wear life of through-hardened cutting edges. Seven different bit designs can form a continuous edge or 10 serration patterns that allow pass-through of .6 to 2.4 inches (15 to 60 mm) of aggregate.





## OTHER EDGE OPTIONS FOR SPECIFIC APPLICATIONS

In addition to providing through-hardened steel edges, Caterpillar also offers these other types of edges:

- **High-carbon Edges** have good surface hardness and perform well in high-abrasion, low-impact applications such as finish work. However, these will not withstand the impact level of a through-hardened edge.
- **Tungsten Carbide Cutting Edges** combine through-hardened steel with the wear resistance of tungsten carbide. When used in high-abrasion, low-impact applications, they can provide up to 20 times the life of a standard through-hardened edge. Fewer edge changes means less downtime and lower hardware costs.

## A SYSTEM THAT MAKES SENSE WITH **SUPPORT** YOU CAN COUNT ON

Take full advantage of Cat motor grader edges, and equip your machines for improved performance and service life. Your Cat dealer is available with the parts and knowledge to support your specific needs for cutting edges and end bits.

Your dealer will:

- + Identify signs of premature wear and suggest corrective action
- + Suggest operating techniques to reduce wear
- + Explain how other manufacturers' components could damage moldboards
- + Help determine the best combination of components for your application to improve your cost per hour





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## CAT DEALERS DEFINE WORLD-CLASS PRODUCT SUPPORT.

We offer you the right parts and service solutions, when and where you need them.

The Cat Dealer network of highly trained experts keeps your entire fleet up and running to help maximize your equipment investment.

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