

CAT® GEARS:

**DESIGNED FOR PRODUCTIVITY.
ENGINEERED FOR RELIABILITY.**



Reduce downtime, improve overall operating efficiency and lower your total cost of ownership with Cat® gears for your drivetrain. Engineered to handle high-load conditions, Cat gears help extend your machine's uptime and productivity.

KEY BENEFITS

Extended component life in demanding applications

Reduced frequency of repairs and maintenance events

Improved machine uptime and productivity

Reliable performance in harsh operating environments

Precise fit from parts engineered as a complete system

CATERPILLAR VS. STANDARD GEARS

Standard Industry Gears	Cat Gears	Customer Impact
Conventional geometry	Improved tooth microgeometry	• Improves load distribution across tooth profile • Reduces localized stress and uneven wear • Enhances durability under high-load conditions
Generic finishing	Enhanced surface finishes	• Controls friction and reduces heat generation • Maintains effective lubrication at contact surfaces • Supports efficient operation in demanding environments
Standard tolerances	Precision tolerances	• Supports accurate alignment and consistent engagement • Reduces vibration, noise and uneven loading • Improves reliability across the drivetrain
Conventional heat treatment processes	Proprietary heat treatment	• Increases resistance to fatigue under repeated loading • Improves wear resistance in high-stress conditions • Supports longer performance under continuous use
Ordinary materials	Specialized metallurgy	• Balances strength, flexibility and durability • Improves resistance to impact and extreme environments • Increases component durability in demanding applications
Reverse-engineered designs	Continuous design improvements	• Incorporates real-world performance and field data • Enables ongoing refinement of gear performance • Improves long-term reliability and lifecycle performance



A DEEPER DIVE INTO THE VALUE OF CAT GEARS

ENGINEERED AS A COMPLETE SYSTEM

Backed by more than 100 years of innovation, Cat gears offer performance you can rely on, through parts designed to parts designed for your Caterpillar drivetrain system, supporting:

- Load distribution and component deflection across duty cycles
- Operating speeds and torque demands
- Temperature conditions across environments
- Equipment size, weight and configuration

Result: Performance aligned with real-world operating conditions and improved system durability.

PROVEN IN DEMANDING APPLICATIONS

Cat gears are engineered to perform in high-stress environments, including:

- High-load applications with constant severe impacts
- 24/7 mining operations with extended duty cycles
- Harsh and variable operating conditions with debris, heat and vibration

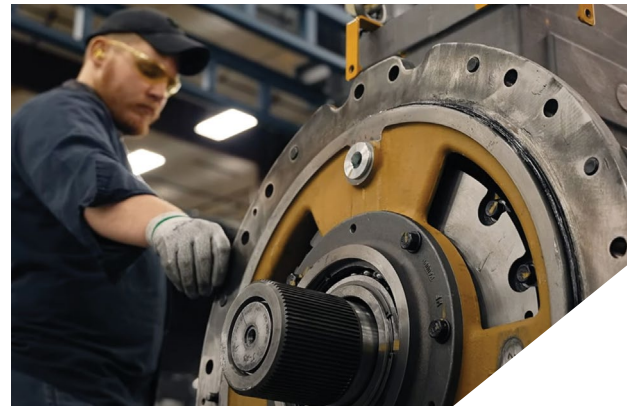
Result: Dependable performance in high-stress environments where standard gears may be more vulnerable to failure.

DELIVERING MEASURABLE VALUE

Built to defend against unplanned downtime, Cat gears help reduce wear with:

- Fewer failures such as pitting, cracking and bending help reduce repair events
- Extended service intervals and higher productivity
- Lower total cost of ownership over time

Result: Higher returns by operating more efficiently and cutting down on repair costs.



SIMPLIFIED MAINTENANCE AND REBUILD SUPPORT

Cat gears are engineered for durability and support reuse in many rebuild scenarios.

This helps:

- Reduce rebuilding costs
- Extend usable component life
- Improve long-term equipment value

Result: More streamlined rebuild and repair options that set you up for longer, more productive lifecycles.

CONTACT YOUR CAT DEALER

Your Cat dealer is ready to help you with your next step. Get expert guidance on which repair solutions support your goals, Caterpillar's lifecycle benefits, and how to avoid unexpected downtime with optimized lubrication and maintenance strategies. Reach out to get started.