CAT® INTEGRATED SOLUTIONS

CRUSH IT WITH CAT® POWER.



CATERPILLAR OEM SOLUTIONS





A crusher is an important piece of support equipment at a quarry or mine site.

And we offer components to compliment your design with the support to back it up.

THE ANSWER: CAT® INTEGRATED SOLUTIONS

At the heart of every great machine is a great engine — one that powers through day after day, month after month and year after year. That kind of reliability doesn't happen by chance. It's the result of proven designs, quality manufacturing and extensive validation.

We put Cat® industrial diesel engines to the test, through a wide range of everyday and extreme conditions. Laboratory and cold-chamber testing as well as real-world use in the Arctic Circle, the Arizona desert and the Colorado mountains, ensure Cat industrial diesel engines will perform whenever and wherever you need them.

Undercarriage typically represents an average 50% of a machine's owning and operating costs, so it makes sense to invest in a system that will deliver the most value.

Every Cat undercarriage is designed by Caterpillar engineers and built to exacting specifications to match your machine and application — and deliver the lowest operating costs.

Along with additional components, including hydraulics, we can provide a packaged solution to take your crusher to the next level.

We bring the power so you can crush it.

POWERED BY THE CAT® C13B ENGINE

The Cat C13B engine is offered in ratings ranging from 340-430 bkW (456-577 bhp) @ 1800-2100 rpm. These ratings meet U.S. EPA Tier 4 Final, EU Stage V, Japan 2014, Korea Tier 4 Final*, and China Nonroad Stage IV emission standards. The C13B is designed to allow OEMs to downsize their engine platforms, lower installation costs and maximize uptime by providing long life in the toughest applications.

HIGH POWER DENSITY

+ With peak power increased up to 20%, you can look to downsize the displacement of the engine currently powering your application without impacting performance.

RELIABLE, QUIET & DURABLE POWER

+ Every Cat engine is manufactured to stringent standards in order to assure customer satisfaction.
+ World-class manufacturing capability and processes coupled with proven core engine designs – over 109 million off-highway field hours – assure reliability, quiet operation, and many hours of productive life.

EASY INSTALLATION

+ Exceptional power density enables you to use a smaller displacement engine than previously, and optimize the installation in your application.
+ Fully configurable engine and compact aftertreatment minimize package size. Ideal for equipment with narrow engine compartments.
+ Aftertreatment installation flexibility to meet all applications – including remote mount and enginemounted from the factory.
+ Industrial power unit (IPU) available from factory to avoid significant design, validation, and manufacturing costs.
+ Low heat rejection levels allow for optimized cooling package at equivalent power helping OEMs and operators save on parts and service costs over the lifetime of the engine.

FLUID EFFICIENCY

+ Fluid consumption optimized to match operating cycles of a wide range of equipment and applications while maintaining low operating costs.

LOW COST MAINTENANCE

+ Worldwide service delivers ease of maintenance and simplifies the servicing routine.
+ 5000-hour diesel particulate filter (DPF) ash service interval enables low-cost maintenance.
+ Standard service intervals of 500 hours under normal operating conditions.
+ The S•O•S℠ program is available from your Cat dealer to optimize oil change intervals.
+ Ideal for high-hour applications over 10,000 hours.
+ Remote mount options for serviceable items such as oil and fuel filters.



AFTERTREATMENT FEATURES

+ Clean emissions module (CEM) consisting of diesel oxidation catalyst (DOC) and combined diesel particulate filter (DPF) and high-efficiency selective catalytic reduction (SCR)
+ Maximum uptime with transparent aftertreatment regeneration, without operator distraction or impact to machine performance
+ Pump Electronic Tank Unit (PETU) Diesel Exhaust Fluid (DEF) capacity up to 93.7 liters (24.7 U.S. gallons)
+ Minimum 5000 hour service interval for DPF/PETU filters

WORLD-CLASS PRODUCT SUPPORT THROUGH CAT DEALER NETWORK

+ Scheduled maintenance, including S•O•S sample
+ Customer support agreements (CSA)
+ Extended service coverage (ESC)
+ Superior dealer service network
+ Extended dealer service network through the Cat industrial service distributor (ISD) program

*Korea Tier V Capable



UP TO 20%
PEAK POWER INCREASE
COMPARED TO PREVIOUS MODELS

OVER 100 MILLION HOURS
OF CUSTOMER APPLICATION EXPERIENCE

TECHNICAL SPECIFICATIONS

C13B ENGINE

POWER RATING		
Minimum Power	340 kW	456 HP
Maximum Power	430 kW	577 HP
Rated Speed		1,800-2,100 rpm

EMISSION STANDARDS	
EU Stage V, U.S. EPA Tier 4 Final, Japan 2014, Korea Tier 4 Final*, and China Nonroad IV Emission Standards	
Performance	UN R120 for measurement of net power and specific fuel consumption

ENGINE SPECIFICATIONS		
Engine Configuration		In-Line 6, 4-Stroke-Cycle Diesel
Bore	130 mm	5.1 in
Stroke	157 mm	6.2 in
Displacement	12.5 L	762.8 in^3
Aspiration		Turbocharged Aftercooled (TA)
Compression Ratio		15.8:1
Combustion System		Direct Injection
Rotation (from flywheel end)		Counterclockwise
Cooling System Capacity (engine)	18.7 L	19.8 qts
Lube System (refill) - varies based on sump/oil pan selection	34-41 L	35.9-43.3 qts

ENGINE DIMENSIONS (APPROXIMATE. FINAL DIMENSIONS DEPENDENT ON SELECTED OPTIONS.)		
Length	1274 mm	50 in
Width	994 mm	39 in
Height	1134 mm	45 in
Weight – Net Dry (Basic Operating Engine Without Optional Attachments)	1125 kg	2,480 lb

AFTERTREATMENT DIMENSIONS (APPROXIMATE. FINAL DIMENSIONS DEPENDENT ON SELECTED OPTIONS.)		
Length	896 mm	35.3 in
Width	807 mm	31.8 in
Height	460 mm	18.1 in
Weight	100 kg	220 lb

*Korea Tier V Capable

STANDARD EQUIPMENT

C13B ENGINE



Air Inlet System
- » Turbocharged
- » Air-to-Air Aftercooled
- » Front or rear exhaust configurations available

Control System
- » Electronic control system
- » Over-foam wiring harness
- » Automatic altitude compensation
- » Power compensated for fuel temperature
- » Configurable software features
- » Engine monitoring system SAE J1939 broadcast and control
- » Integrated Electronic Control Unit (ECU)
- » Remote fan control

Cooling System
- » Vertical or RH thermostat outlet
- » Centrifugal water pump
- » Guidance on cooling system design available through your dealer to ensure equipment reliability

Flywheels and Flywheel Housing
- » Available SAE No. 1 power take-off with optional SAE B or SAE C power take-off drives.
- » Engine power can also be taken from the front of the engine with optional attachments.

Fuel System
- » Mechanical Electronic Unit Injectors (MEUI)
- » Primary fuel filter
- » Secondary and tertiary fuel filters
- » Fuel transfer pump
- » Electronic fuel priming

Lube System
- » Oil cooler
- » Oil filler
- » Lube oil filter
- » Oil dipstick
- » Gear-driven oil pump
- » Choice of front, rear or center sumps
- » Open crankcase ventilation system with fumes disposal (OCV filter system required for EU Stage V certification engines)

Power Take-off (PTO)
- » SAE B or SAE C power take off (PTO) drives.
- » Engine power can also be taken from the front of the engine on some applications.

General
- » Caterpillar Yellow paint, with optional colors available
- » Vibration damper
- » Lifiting eyes

STAY ON TRACK WITH CAT UNDERCARRIAGE

To keep your business on firm footing, you need undercarriage systems and components that propel your machines over any type of terrain — and through every operational challenge. Caterpillar OEM Solutions engineers will work with you every step of the way, from preliminary concepts to full production.

GENERAL DUTY UNDERCARRIAGE

BUILT FOR DURABILITY AND LOWER OPERATING COSTS

General Duty undercarriage is designed and manufactured by Caterpillar to strict specifications based on extensive experience in undercarriage applications. You can count on General Duty to deliver top performance in light-duty, low-to-moderate applications.

DESIGNED FOR YOUR APPLICATION

Cat engineers understand how application demands wear undercarriage components. They design undercarriage as a system. Each one is built to take on specific conditions such as sand, gravel, mud, and clay.



PROVEN PERFORMANCE

Cat undercarriage is factory and field tested. Tests have shown that Cat undercarriage delivers up to 2x the life of competitive undercarriage.

DESIGNED TO LAST

Because Caterpillar manufactures its own undercarriage, every component meets strict specifications and quality standards that no competitor can match. Durable, reliable components result in lower operating costs.

BEST RETURN ON INVESTMENT

With longer wear life and lower cost per hour than competitive brands, Cat undercarriage delivers the best return on your investment.



THE POWER
CAT C13B ENGINE

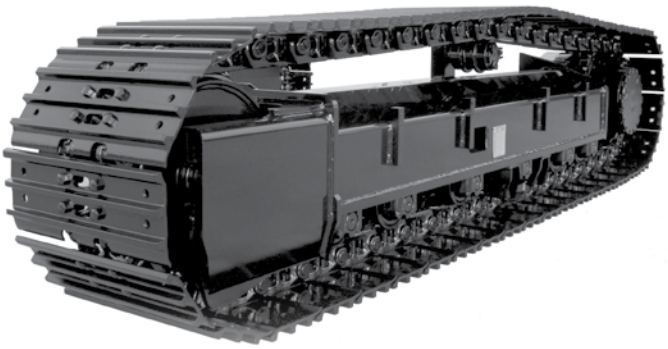


The Cat C13B engine supplies remarkable power and torque in a smaller, lighter engine package.

- Ratings range from 340-430 bkW (456-577 bhp) @ 1800-2100 rpm.
- Meets U.S. EPA Tier 4 Final, EU Stage V, Japan 2014, and Korea Tier 4 Final,* and China Nonroad Stage IV emission standards.

*Korea Tier V Capable

THE UNDERCARRIAGE



Every Cat undercarriage is designed by Caterpillar engineers and built to exacting specifications to match your machine and application — delivering the lowest operating costs.

- Extended Length Undercarriage for light-duty application
- Your Cat dealer can help you with bushing turns, component, and shoe replacements — whatever it takes to get the longest life and best return on your undercarriage investment.



THE SOLUTION YOU NEED, FROM A TRUSTED SOURCE.

HYDRAULICS & COMPONENTS



Cat Hydraulics:
Hydraulics make the connection between machine power and job productivity.

The Cat hydraulics advantage starts with quality components that can deliver higher pressure thresholds than competitors.

They're built to meet the exacting specs of Cat equipment — from power and responsiveness to breakout force and speed.

THE SUPPORT

Your Dealer Makes Hassle-free Happen
From putting together a CVA that meets your needs to providing the parts and service you need to run at full power, your Cat dealer is there for your business.

A Cat Customer Value Agreement (CVA) controls your ownership costs over the life of your machine so you can work more and worry less. With one hassle-free plan, you can get the most from your Cat powered equipment, backed by the Cat dealer network. Take advantage of one easy plan to power your progress — and your equipment. That's a CVA.

Reach out to your local dealer to learn about your CVA options.

CAT INTEGRATED SOLUTIONS

ENGINES | UNDERCARRIAGE | COMPONENTS | SUPPORT



For more information, contact your OEM Solutions Account Manager or email oem_solutions@cat.com

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