



Cat® C4.4 Industrial Diesel Engines offer the perfect balance of durability, fuel efficiency and low emissions. Extensively tested on the job, these engines use a range of common rail fuel systems and advanced control systems to deliver maximum uptime in the harshest environment. They have proven they can handle the toughest applications and deliver superior performance that exceeds the expectations of the most demanding users. Industries and applications powered by C4.4 engines include: Agriculture, Aerial Lifts, Aircraft Ground Support, Bore/Drill Rigs, Chippers/Grinders, Compactors/Rollers, Compressors, Construction, Cranes, Crushers, Feller Bunchers, Forestry, Forklifts, General Industrial, Harvesters, Hydraulic Power Units, Irrigation Equipment, Loaders/Forwarders, Material Handling, Mining, Mobile Earthmoving Equipment, Mobile Sweepers, Paving Equipment, Pumps, Skidders, Specialty Ag Equipment, Sprayers, Trenchers, Turf and Landscaping and Underground Mining Equipment.

Specifications

Power Rating		
Minimum Power	82 kW	109 BHP
Maximum Power	150 kW	200 BHP
Rated Speed	2200 rpm	

Emission Standards	
Emissions	U.S. EPA Tier 4 Final, EU Stage V

General	
Engine Configuration	Inline 4, 4-Stroke-Cycle Diesel
Bore	105 mm (4.13 in)
Stroke	127 mm (5.00 in)
Displacement	4.4 L (268.5 in³)
Aspiration	Turbocharged Aftercooled (TA) or Series Turbocharged Aftercooled (TTA)
Compression Ratio	16.5:1
Combustion System	Direct Injection
Rotation from Flywheel End	Counterclockwise
Cooling System - Capacity	10.8 L (11.4 qt)
Lube System - Refill	5.2-13.5 L (5.5-14.27 qt)

Engine Dimensions - Approximate	
Height	848.2-867.6 mm (33.4-34.1 in)



Length	845.1 mm (33.3 in)
Weight - Net Dry - Basic Operating Engine Without Optional Attachments	400-420 kg (881.8-926 lb)
Width	741.6-772.4 mm (29.1-30.4 in)

Aftertreatment Dimensions - Approximate	
Height	390-453 mm (15.3-17.8 in)
Length	610-675 mm (24.0-26.5 in)
Weight	45-65 kg (99-143.3 lb)
Width	478-623 mm (18.8-24.5 in)

Benefits and Features

Reliable, Quiet and Durable Power

World-class manufacturing capability and processes coupled with proven core engine designs assure reliability, quiet operation, and many hours of productive life.

High Performance

Series turbocharging with smart wastegate available on specific ratings for fast response, high power, and increased torque.

Fuel Efficiency

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

Fuel & Oil

Tier 4 Final/Stage V engines require ultra-low sulfur diesel (ULSD) fuel containing a maximum of 15 ppm sulfur, and new oil formulations to support the new technology. Cat® engines are designed to accommodate B20 biofuel. Your Cat dealer can provide more information regarding fuel and oil.

Broad Application Range

Industry leading range of factory configurable ratings and options for agricultural, material handling, construction, mining, aircraft ground support, and other industrial applications.

Package Size

Exceptional power density enables standardization across numerous applications. Multiple installation options minimize total package size. Ideal for equipment with narrow engine compartments.

Low Cost Maintenance

Worldwide service delivers ease of maintenance and simplifies the servicing routine. Hydraulic tappets, multi-vee belts, "no ash service" aftertreatment, and 500-hour oil change intervals enable low-cost maintenance. Many service items have a choice of location on either side of the engine to enable choice of service access. The S·O·SSM program is available from your Cat dealer to determine oil change intervals and provide optimal performance.

Quality

Every Cat engine is manufactured to stringent quality standards in order to assure customer satisfaction.

World-class Product Support Offered Through Global Cat Dealer Network

- Scheduled maintenance, including SOSSM sample
- Customer Support Agreements (CSA)
- Caterpillar Extended Service Coverage (ESC)
- Superior dealer service network
- Extended dealer service network through the Cat Industrial Service Distributor (ISD) program

Tier 4 Final, Stage V Aftertreatment Features

Regeneration. The DOC/DPF/SCR modular design offers a simple, compact package while providing high levels of performance. While in use, the DOC/DPF/SCR systems offer transparent operation to the user. **Mounting.** Extensive range of inlets and outlets, as well as remote and on-engine installations, provide flexibility for many installations. **Service.** The DOC/DPF/SCR systems are service-free for the emissions life of the engine. Available in 12V or 24V systems

Standard Equipment

Air Inlet System

- Standard air cleaners

Control System

- Full electronic control system, all connectors and wiring looms waterproof and designed to withstand harsh off-highway environments
- Flexible and configurable software features and well-supported SAE J1939 CAN bus enables highly integrated machines

Cooling System

- Top tank temperature 108° C (226° F) as standard to minimize cooling pack size
- 50:50 water glycol mix

Flywheels and Flywheel Housing

- Fitted with SAE3 configuration as standard

Fuel System

- Electronic high pressure common rail
- Innovative filter design to ensure maximum protection of the engine

Lube System

- Wide choice of sumps for different applications

Power Take Off

- SAE A and SAE B flanges on left-hand side. Additional SAE A flange available on left-hand side. Engine power can also be taken from the front of the engine on some applications. Factory fitted compressors are also available.

General

- Available with or without a balancer
- Paint: Caterpillar yellow, with optional colors available at request

U.S. EPA Tier 4 Final, EU Stage V Aftertreatment/ Clean Emissions Control Equipment

- Clean Emissions Module (CEM), consisting of Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC)



- Selective Catalytic Reduction (SCR)
- 3" flex pipe connection with straight, 45°, and 90° options for flexibility

The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, ADEM, EUI, S-O-S, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.