



The Cat® C4.4 ACERT™ Industrial Power Unit is offered in ratings ranging from 74.5-129.4 kW (100-173.5 bhp) @ 2200 rpm, which meet U.S. EPA Tier 4 Final, EU Stage IV emission standards. Tier 4 Interim Equivalent and Stage IIIB Equivalent ratings are also available using Flex options. Conveniently pre-configured for a wide range of applications, the Cat® Industrial Power Unit is a complete power package containing a radiator, flywheel, alternator and alternator wiring completely pre-assembled for fast, straightforward installation in a number of OEM, customer and packager applications. These fuel efficient units are ready made for irrigation, industrial, mining and other pump applications.

Specifications

Power Rating		
Minimum Power	74.5 kW	100 BHP
Maximum Power	129.4 kW	173.5 BHP
Rated Speed	2200 rpm	

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

General	
Engine Configuration	Inline 4, 4-Stroke-Cycle Diesel
Bore	105 mm (4.1 in)
Stroke	127 mm (5.0 in)
Displacement	4.4 L (268.5 in ³)
Aspiration	Turbocharged Aftercooled (TA) or Twin Turbocharged Aftercooled (TTA)
Compression Ratio	16:2
Rotation from Flywheel End	Counterclockwise
Cooling System - Capacity	9-9.4 L (8.2-8.5 qt)
Lube System - Refill	5.2-13.5 L (5.5-14.27 qt)

Power Unit Dimensions - Approximate	
Height	1126-1150 mm (44.3-45.3 in)
Length	1433 mm (56.4 in)
Weight - Approximate, Net Dry - Standard Configuration Without Oil, Cooling, Clutch, Compressor, A/C	670-700 kg (1477-1543 lb)
Width	795-820 mm (31.3-32.3 in)

Aftertreatment Dimensions - Approximate	
Diameter	244.9-270.3 mm (9.6-10.6 in)
Height	279-430 mm (11-16.9 in)
Weight	34-80 kg (75-176.4 lb)
Width	365-695 mm (14.3-27.4 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 Interim or Tier 4 Final, Stage IIIB or Stage IV 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

Ideal for equipment with narrow engine compartments. Multiple installation options minimize total package size.

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 IV Aftertreatment Features

Regeneration. The DOC/SCR modular design offers a simple, compact package while providing high levels of performance. A DOC/DPF/SCR option is available for higher power machines. While in use, both DOC/SCR and 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.** Both DOC/SCR and DOC/DPF/SCR systems are service-free for the emissions life of the engine.

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
- Guidance on cooling system design available through your dealer to ensure equipment reliability

Flywheels and Flywheel Housing

- Wide choice of drivetrain interfaces, including SAE No. 2 and SAE No. 3 configurations

Fuel System

- Electronic high pressure common rail
- ACERT™ Technology
- 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 IV Aftertreatment / Clean Emissions Control Equipment

- Diesel Oxidation Catalyst (DOC) / Selective Catalytic Reduction (SCR)
- Diesel Particulate Filter (DPF) / Selective Catalytic Reduction (SCR)

U.S. EPA Tier 4 Interim, EU Stage IIIB Aftertreatment / Clean Emissions Control Equipment

- Clean Emissions Module (CEM), consisting of Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC)
- No ash service requirement
- Passive regeneration

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.