



The Cat® C2.8 Industrial Diesel Engines offer the perfect balance of compact size, reliability, and performance. This engine is offered in ratings ranging up to 55 kW (74 bhp) @ 2500 rpm. The C2.8 is designed to meet the needs of many industries and applications, including agricultural tractors, aerial lifts, aircraft ground support, bore/drill rigs, chippers/grinders, compactors/rollers, compressors, forestry, irrigation equipment, material handling, mining, earthmoving equipment, paving equipment, pumps, fruit harvesters equipment, turf and underground mining equipment.

Specifications

Power Rating		
Maximum Power	55 kW	74 HP
Maximum Torque	380 Nm @ 1360 rpm	280 lb-ft @ 1360 rpm
Rated Speed	2200 - 2400 rpm	
Minimum Power	50 kW	67 HP

Emission Standards

Emissions	U.S. EPA & CARB Tier 4 Final, EU Stage V
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General

Engine Configuration	In-Line 4	
Bore	90 mm	3.5 in
Stroke	110 mm	4.3 in
Displacement	2.8 l	171 in ³
Compression Ratio	17.0:1	
Aspiration	Turbocharged (T) and Turbocharged-Aftercooled (TA)	
Combustion System	Direct Injection	
Rotation from Flywheel End	Counterclockwise	
Aftertreatment	DOC+DPF	

Engine Dimensions - Approximate

Length	633 mm	24.9 in
Width	543 mm	22.4 in
Height	786 mm	30.9 in
Weight - Net Dry - Basic Operating Engine Without Optional Attachments	340 kg	750 lb

Benefits and Features

Reliable, Quiet and Durable Power

World-class manufacturing capability and processes coupled with proven technologies and extensive field validation assure reliability and durability in tough nonroad applications.

High Performance

Leading edge fuel systems and turbocharging provide high torque even at lower engine speeds.

Fuel Efficiency

Fuel consumption optimized to match the measured operating cycles of a wide range of equipment types.

Fuel & Oil

U.S. EPA Tier 4 Interim or Tier 4 Final, EU Stage IIIB, Stage IV or proposed Stage V engines require Ultra Low Sulfur Diesel (ULSD) fuel containing a maximum of 10 ppm sulfur (EU) and 15 ppm sulfur (U.S.), and new oil formulations to support the new technology. 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.

Standard Equipment

Air Inlet System

- Induction manifolds
- Exhaust manifolds
- Engine-mounted aftertreatment

Control System

- Starter motor (12V)
- Alternator (12V)
- Electronic Control Unit (chassis mounted)
- Engine control sensors and robust wiring harness
- Data interface via CANbus J1939

Flywheels and Flywheel Housing

- Flywheel housings - SAE 3 or SAE 4
- Choice of flywheel to match industry common hydraulic pumps and transmissions
- Side PTO with SAE A or SAE B interface

Fuel System

- Fuel filter - preconnected but chassis mounted
- With water sensor

Lube System

- Lubricating oil filters
- High incline oil pan - 35° continuous in all directions

General

- Cold start capability to -20° C (-4° F) with standard equipment
- Paint: Caterpillar yellow, with optional colors available at request

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

- Diesel Oxidation Catalyst (DOC) (Tier 4 Final and Stage V)
- Diesel Particulate Filter (DPF) (Stage V)

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