



Image shown may not reflect actual configuration

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 bkW (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		
Minimum Power	45 bkW	60 bhp
Maximum Power	55 bkW	74 bhp
Rated Speed	2500 rpm	
Maximum Torque	325 N•m (240 lb-ft) @ 1600 rpm	

Emission Standards	
Emissions	U.S. EPA Tier 4 Final Nonroad Emission Standards. Also designed to meet proposed EU Stage V Nonroad Emission Standards.

Engine Specifications		
Engine Configuration	In-Line 4, 4-Stroke-Cycle Diesel	
Bore	90 mm	3.5 in
Stroke	110 mm	4.3 in
Displacement	2.8 L	171 in <sup>3</sup>
Aspiration	Turbocharged (T) and Turbocharged-Aftercooled (TA)	
Compression Ratio	17:1	
Combustion System	Direct Injection	
Rotation (from flywheel end)	Counterclockwise	
Cooling System Capacity	4 L	1.06 qts

Engine Dimensions (Approximate. Final dimensions dependent on selected options.)		
Length (rear of flywheel housing to front of fan pulley)	635 mm	25.0 in
Width	561 mm	22.1 in
Height	766 mm	30.2 in
Dry Weight (basic operating engine without aftertreatment or optional attachments)	245 kg	540 lb
Aftertreatment	TBA	

## **Benefits & Features**

### **Emissions**

- Meets U.S. EPA Tier 4 Final Nonroad Emission Standards.
- Also designed to meet proposed EU Stage V Nonroad Emission Standards. As of publishing date, Stage V regulations have not been finalized.

### **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.

### **Low Cost Maintenance**

- Worldwide service delivers ease of maintenance and simplifies the servicing routine. Capable of optimal oil change intervals of 500 hours. The S•O•S<sup>SM</sup> program is available from your Cat dealer to determine oil change intervals and provide optimal performance.
- Service free diesel oxidation catalyst aftertreatment for Tier 4 Final.

### **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 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

## Standard Equipment

### Air Inlet System

- Induction manifolds
- Exhaust manifolds
- Engine-mounted aftertreatment

### Control System

- Starter motor (12 or 24V)
- Alternator (12 or 24V)
- 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

### Aftertreatment

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