



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 kW (74 bhp) @ 2400 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, turf and underground mining equipment.

## Specifications

Power Rating		
Minimum Power	45 kW	60 bhp
Maximum Power	55 kW	74 bhp
Rated Speed	2200-2400 rpm	
Maximum Torque	300 Nm (221 lb-ft) @ 1600 rpm	

Emission Standards	
Emissions	UN ECE R96 Stage IIIA China Nonroad Stage III Brazil MAR-1

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)	
Compression Ratio	17:1	
Combustion System	Direct Injection	
Rotation (from flywheel end)	Counterclockwise	
Cooling System Capacity	3.4 L	3.59 qts

Engine Dimensions (Approximate. Final dimensions dependent on selected options.)		
Length (rear of flywheel housing to front of fan pulley)	633.1 mm	24.9 in
Width	542.5 mm	21.36 in
Height	785.5 mm	30.93 in
Dry Weight (basic operating engine without optional attachments)	320 kg	705 lb

## **Benefits & Features**

### **Emissions**

- R96 Stage IIIA
- China Nonroad Stage III
- Brazil MAR-1

### **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.

### **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.

### **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

### Control System

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

### Lube System

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

### General

- Cold start capability to -25°C (-13°F) with standard equipment
- Paint: Caterpillar Yellow, with optional colors available at request



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