



The Cat® C9 ACERT™ Industrial Diesel Engine is offered in ratings ranging from 205-280 kW (275-375 bhp) @ 1800-2200 rpm. These ratings meet China Stage II, EPA Tier 3 equivalent, and EU Stage IIIA equivalent emission standards. Industries and applications powered by C9 ACERT engines include Agriculture, Ag Tractors, Aircraft Ground Support, Bore/Drill Rigs, Chippers/Grinders, Combines/Harvesters, Compactors/Rollers, Compressors, Construction, Cranes, Crushers, Dredgers, Forestry, Forklifts, General Industrial, Hydraulic Power Units, Irrigation Equipment, Loaders/Forwarders, Material Handling, Mining, Mobile Earthmoving Equipment, Mobile Sweepers, Paving Equipment, Pumps, Shovels/Draglines, Specialty Ag Equipment, Sprayers, Surface Hauling Equipment, Trenchers and Underground Mining Equipment.

**Specifications**

Power Rating		
Minimum Power	205 kW	275 BHP
Maximum Power	280 kW	375 BHP
Rated Speed	1800-2200 rpm	

Emission Standards	
Emissions	China Nonroad III, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent

General	
Engine Configuration	Inline 6, 4-Stroke-Cycle Diesel
Bore	112 mm (4.41 in)
Stroke	149 mm (5.87 in)
Aspiration	Turbocharged Aftercooled (TA)
Displacement	8.8 L (537.01 in³)
Compression Ratio	16.1:1
Combustion System	Direct Injection
Rotation from Flywheel End	Counterclockwise
Lube System - Refill	32 L (33.8 qt)

Engine Dimensions - Approximate	
Height	1023 mm (40.3 in)
Length	1091 mm (43 in)
Weight - Net Dry - Basic Operating Engine Without Optional Attachments	864 kg (1905 lb)
Width	827 mm (32.6 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.

### **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.

### **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

## **Standard Equipment**

### **Air Inlet System**

- Turbocharged
- Air-to-Air Aftercooled

### **Control System**

- Electronic governing, PTO speed control
- Programmable ratings
- Automatic altitude compensation
- Power compensation for fuel temperature
- Programmable low and high idle and total engine limit
- Electronic diagnostics and fault logging
- Engine monitoring system SAE J1939 broadcast and control
- ADEM™ A4 Electronic Control Unit (ECU)

### **Cooling System**

- Thermostats and housing, vertical outlet
- Jacket water pump, centrifugal
- Water pump, inlet

### **Exhaust System**

- Exhaust manifold, dry
- Optional exhaust outlet

### **Flywheels and Flywheel Housing**



- SAE No. 1 flywheel housing

### Fuel System

- HEUI™ injection
- Fuel filter, secondary (2 micron)
- ACERT™ Technology
- Fuel transfer pump
- Fuel priming pump

### Lube System

- Crankcase breather
- Oil cooler
- Oil filler
- Lube oil filter
- Front sump oil pan
- Oil dipstick
- Gear driven oil pump

### General

- Vibration damper
- Lifting eyes
- Cold start capability to -20° C (-4° F)
- Paint: Caterpillar yellow, with optional colors available at request

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