



The Cat® 3616 Industrial Diesel Engine is offered in ratings ranging from 4160-4920 bkW (5579-6598 bhp) @ 800-1000 rpm. These ratings are non-certified and are available for global non-regulated areas. Industries powered by 3616 engines include Construction, Forestry, General Industrial, Material Handling and Mining.

## Specifications

Power Rating		
Minimum Power	4160 bkW	5579 bhp
Maximum Power	4920 bkW	6598 bhp
Rated Speed	800-1000 rpm	

Emission Standards	
Emissions	Non-certified

General	
Engine Configuration	V 16, 4-Stroke-Cycle Diesel
Bore	280 mm (11 in)
Stroke	300 mm (11.8 in)
Displacement	295.6 L (18036 in³)
Aspiration	Turbocharged Aftercooled
Rotation (from flywheel end)	Counterclockwise

Engine Dimensions (Approximate. Final dimensions dependent on selected options)	
Length	5482 mm (216 in)
Width	1704 mm (67 in)
Height	3231 mm (127 in)
Weight, Net Dry (Basic Operating Engine Without Optional Attachments)	29,950 kg (65,900 lb)

## Benefits and Features

### Emissions

Non-certified rating. Available for global non-regulated areas.

### 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.

**Quality**

Every Cat engine is manufactured to stringent quality standards in order to assure customer satisfaction.

**Fuel Efficiency**

Fuel consumption optimized to match operating cycles of a wide range of equipment and applications while maintaining low operating costs.

**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**

- Aftercooler core, corrosion resistant coated (air side)
- Air cleaner. Regular duty, dry, panel type with service indicators, turbocharger, jacket water aftercooled.
- Turbocharger, rear mounted
- Jacket water aftercooled

**Control System**

- Governor, RH, 3161 with self contained synthetic oil sump
- Air-fuel ratio control
- Mechanical speed control, without torque control
- Governor control
- Positive locking

**Cooling System**

- Thermostats and housing
- Jacket water pump, centrifugal

**Exhaust System**

- Exhaust manifold, dry

**Flywheels and Flywheel Housing**

- SAE No. 00 flywheel
- 183 flywheel teeth
- SAE No. 00 flywheel housing

**Fuel System**

- Fuel filter, with service indicators, cartridge type with RH service
- Fuel transfer pump

**Instrumentation**

- Instrument Panel, RH
- Engine oil pressure gauge
- Fuel pressure gauge
- Oil filter differential gauge
- Jacket water temperature gauge
- Service meter, electric
- Tachometer

#### **Lube System**

- Crankcase breather, top mounted
- Oil cooler
- Oil filler
- Oil dipstick
- Oil pump
- Oil filter, cartridge type with RH service
- Shallow oil pan

#### **Mounting System**

- Rails, mounting, engine length, 254 mm (10 in), industrial-type, C-channel.

#### **Power Take Off**

- Accessory drive, upper RH
- Front housing, single sided

#### **Protection System**

- Junction box
- Manual shutoff, RH
- Safety shutoff protection, energized to shutdown
- Low oil pressure, low idle 69 kPa (10 psi); high idle 207 kPa (30 psi)
- Water temperature
- Overspeed
- 3161 governor solenoid energized to shutdown

#### **Starting System**

- Starting switch

#### **General**

- Vibration damper
- Lifting eyes
- Paint: Caterpillar yellow, with optional colors available at request

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