



The Cat® 3612 Industrial Diesel Engine is offered in ratings ranging from 2980-3700 bkW (3996-4962 bhp) @ 750-1000 rpm. These ratings are non-certified and 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	2980 bkW	3996 bhp
Maximum Power	3700 bkW	4962 bhp
Rated Speed	750-1000 rpm	

Emission Standards	
Emissions	Non-certified

General	
Engine Configuration	V-12, 4-Stroke-Cycle Diesel
Bore	280 mm (11 in)
Stroke	300 mm (11.8 in)
Displacement	221.7 L (13527 in ³)
Aspiration	Turbocharged Aftercooled
Rotation (from flywheel end)	Counterclockwise

Engine Dimensions (Approximate. Final dimensions dependent on selected options)	
Length	4562 mm (180 in)
Width	1704 mm (67 in)
Height	3231 mm (127 in)
Weight, Net Dry (Basic Operating Engine Without Optional Attachments)	25,140 kg (55,300 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.

Fuel Efficiency

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

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 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

The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, ADEM, EUI, S-O-S, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.