



# C7.1 Industrial Engine

China Stage II

112-162 bkW/150-220 bhp @ 1950-2200 rpm

Image not available

## CAT® ENGINE SPECIFICATIONS

### I-6, 4-Stroke-Cycle Diesel

Bore	105 mm (4.13 in)
Stroke	135 mm (5.3 in)
Displacement	7.01 L (427.7 in <sup>3</sup> )
Aspiration	Turbocharged-Aftercooled
Compression Ratio	16.5:1
Combustion System	Direct Injection
Rotation (from flywheel end)	Counterclockwise
Cooling System	Liquid
Total Lubrication Capacity	13-16 L (3.4-4.2 U.S. gal)
Total Coolant Capacity	8.4 L (2.2 U.S. gal)
Dry Weight	506 kg (1115 lbs)

## FEATURES

### Emissions

Meets China Stage II, U.S. EPA Tier 2 equivalent, EU Stage II equivalent emission standards.

### 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.

### High Performance

Simple and efficient turbocharger provides optimal air management and improved fuel efficiency.

### Fuel Efficiency

Fuel consumption optimized to match operating cycles of a wide range of equipment and applications. No additional fluids or additives are required, which lowers operating costs.

### Fuel & Oil

Cat® engines are designed to accommodate B20 biofuel. 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, materials-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.

### Low-Cost Maintenance

Worldwide service delivers ease of maintenance and simplifies the servicing routine. 500-hour oil change intervals enable low-cost maintenance. Many service items have a choice of location on either side of the engine to enable choice of service access. 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 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)
- Cat Extended Service Coverage (ESC)
- Superior dealer service network
- Extended dealer service network through the Cat Industrial Service Distributor (ISD) program

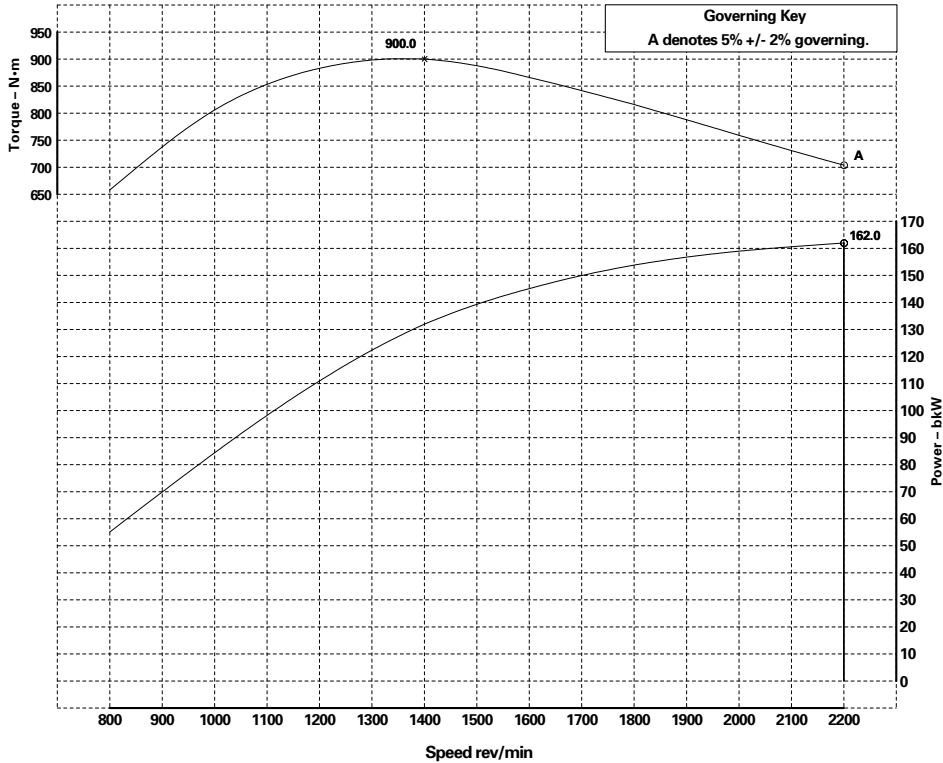
**Web Site: For additional information on all your power requirements, visit [www.cat-industrial.com](http://www.cat-industrial.com).**



**PERFORMANCE DATA**

Turbocharged-Aftercooled — 2200 rpm

**Rated Speed**



Performance after 60 hours operation with fuel oil at 40°C at pump inlet.

**Speed Range**

Rating	Speed rpm	Peak Power kW	Peak Power bhp	Speed rpm	Peak Torque N·m	Peak Torque lb-ft
C	1950	112	150	1200	687	506
C	2200	129	173	1400	733	541
C	2200	137	184	1400	725	535
C	2200	145	194	1400	775	572
C	2200	162	217	1400	900	663

**RATING DEFINITIONS AND CONDITIONS**

**IND-C (Intermittent)** is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

Additional ratings are available for specific customer requirements. Consult your Cat dealer.

**Rating Conditions** are based on SAE J1995, inlet air standard conditions of 99 kPa (29.31 in Hg) dry barometer and 25°C (77°F) temperature. Performance measured using a standard fuel with fuel gravity of 35° API having a lower heating value of 42 780 kJ/kg (18,390 btu/lb) when used at 29°C (84.2°F) with a density of 838.9 g/L.

Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, 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.