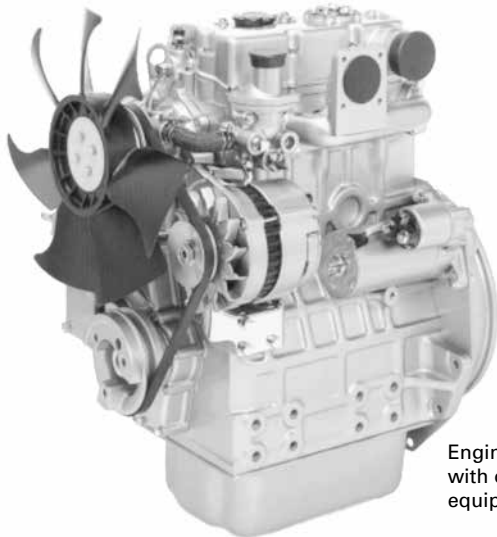




# C1.5 Industrial Engine

Stage IIIA  
20.9-25.1 bkW/28.0-33.7 bhp @ 2200-3000 rpm



Engine pictured with optional equipment

## CAT® ENGINE SPECIFICATIONS

### I-3, 4-Stroke-Cycle Diesel

Bore .....	84 mm (3.3 in.)
Stroke .....	90 mm (3.5 in.)
Displacement .....	1.496 L (91.0 in <sup>3</sup> )
Aspiration .....	Naturally Aspirated
Compression Ratio .....	22.5:1
Combustion System .....	Indirect injection
Rotation (from flywheel end) .....	Counterclockwise
Capacity for Liquids	
Cooling System	
engine only).....	2.6 L (2.75 U.S. qts.)
Lube Oil System (refill).....	6 L (6.3 U.S. qts.)
Engine Weight, Net Dry (approximate)	
with standard equipment.....	149.0 kg (328.0 lbs.)

## FEATURES

### Emissions

Meets EU Stage IIIA 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

Ten percent increase in torque rise delivers impressive performance throughout a wide speed range while maintaining low operating costs.

### Fuel Efficiency

Fuel consumption optimized to match operating cycles of a wide range of equipment and applications.

### 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

Ultra-compact package size ensures ease of installation as well as exceptional power density.

### Low-Cost Maintenance

Single-side servicing improves ease of maintenance and simplifies the servicing routine. Service intervals at 500 hours are standard.

### Testing

Every Cat® engine is quality tested to ensure proper engine performance.

### World-class Product Support Offered Through Global Cat Dealer Network

- Scheduled maintenance
- 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

Inlet manifold with choice of inlets

### Control System

Alternator 12 volt 65 amp, starter motor 12 volt, glow plug starting aid

### Cooling System

Belt-driven coolant pump, coolant temperature switch, choice of cooling fans

### Flywheel & Flywheel Housing

SAE No. 7 1/2 flywheel, choice of SAE No. 4 or standard backplate flywheel housing

### Fuel System

CTD fuel injection pump, spin-on fuel filter, electronic Shut-Off Solenoid (ESOS)

### Lube System

Alternative oil fillers, spin-on lube oil filter, lube oil pressure switch, lube oil sump

### Power Take Off

Provision for PTO

### General

Cast iron engine block, cast iron exhaust manifold — side outlet, cold start capability to -20° C (-4° F), gradeability 35° Continuous

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



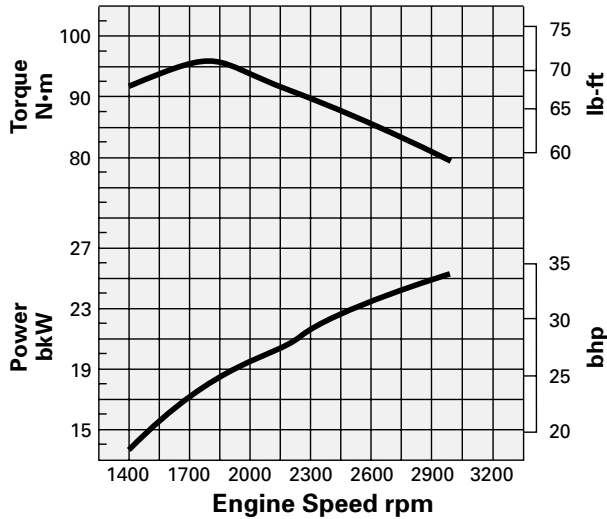
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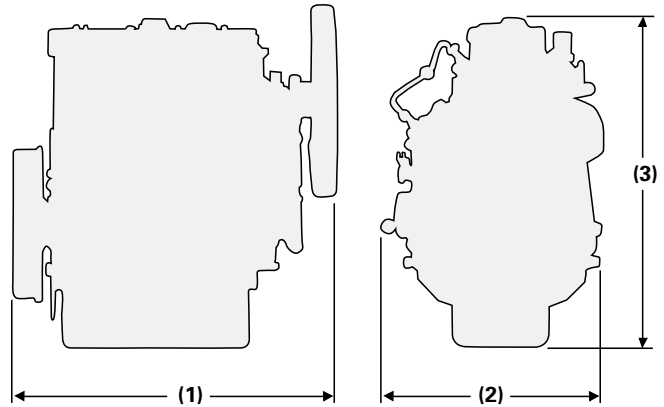
## PERFORMANCE DATA

Naturally Aspirated — 3000 rpm



Speed rpm	Power bkW	Torque N·m	Power bhp	Torque lb-ft
3000	25.1	79.9	33.7	58.9

## DIMENSIONS



(1) Length	572 mm (22.5 in.)
(2) Width	453 mm (17.8 in.)
(3) Height	643 mm (25.3 in.)

Note: Dimensions depend on final specifications.

## 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 for Diesel Engines — up to 6.6 liter** are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in Hg), with a vapor pressure of 1 kPa (.295 in Hg), and 25°C (77°F). Performance is measured using fuel to specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

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