



The Cat® C2.8 Industrial Diesel Engines offer the perfect balance of compact size, reliability, and performance. This engine is offered in ratings ranging up to 55 kW (74 bhp) @ 2500 rpm. The C2.8 is designed to meet the needs of many industries and applications, including agricultural tractors, aerial lifts, aircraft ground support, bore/drill rigs, chippers/grinders, compactors/rollers, compressors, forestry, irrigation equipment, material handling, mining, earthmoving equipment, paving equipment, pumps, fruit harvesters equipment, turf and underground mining equipment.

Specifications

Power Rating		
Maximum Power	55 kW	74 HP
Maximum Torque	300 Nm @ 1600 rpm	221 lb-ft @ 1600 rpm
Rated Speed	2200-2400 rpm	
Minimum Power	50 kW	67 HP

Emission Standards	
Emissions	UN ECE R96 Stage IIIA, Brazil MAR-1

General		
Engine Configuration	Inline 4, 4-Stroke-Cycle Diesel	
Bore	90 mm	3.5 in
Stroke	110 mm	4.3 in
Displacement	2.8 l	171 in ³
Compression Ratio	17.0:1	
Aspiration	Turbocharged (T) and Turbocharged Aftercooled (TA)	
Combustion System	Direct Injection	
Rotation from Flywheel End	Counterclockwise	
Aftertreatment	-	

Engine Dimensions - Approximate		
Length	633 mm	24.9 in
Width	538 mm	21.2 in
Height	786 mm	30.9 in
Weight - Net Dry - Basic Operating Engine Without Optional Attachments	320 kg	705 lb

Benefits and Features

Reliable, Quiet and Durable Power

World-class manufacturing capability and processes coupled with proven technologies and extensive field validation assure reliability and durability in tough nonroad applications.

High Performance

Leading edge fuel systems and turbocharging provide high torque even at lower engine speeds.

Fuel Efficiency

Fuel consumption optimized to match the measured operating cycles of a wide range of equipment types.

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.

Low Cost Maintenance

Worldwide service delivers ease of maintenance and simplifies the servicing routine. Capable of optimal oil change intervals of 500 hours. The S•O•S[®] program is available from your Cat dealer to determine oil change intervals and provide optimal performance.

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 SOS[®] 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

- Induction manifolds
- Exhaust manifolds

Control System

- Starter motor (12V or 24V)
- Alternator (12V or 24V)
- Electronic Control Unit (chassis mounted)
- Engine control sensors and robust wiring harness
- Data interface via CANbus J1939

Flywheels and Flywheel Housing

- Flywheel housings - SAE 3 or SAE 4
- Choice of flywheel to match industry common hydraulic pumps and transmissions
- Side PTO with SAE A or SAE B interface

Fuel System

- Fuel filter - preconnected but chassis mounted
- With water sensor

Lube System

- Lubricating oil filters
- High incline oil pan - 35° continuous in all directions

General

- Cold start capability to -20° C (-4° F) with standard equipment
- Paint: Caterpillar yellow, with optional colors available at request

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