

Product Specifications For C7.1



Power Rating

Maximum Power	240 kW
Maximum Torque	1268 Nm @ 1400 rpm
Rated Speed	2200 rpm
Minimum Power	129 kW

Emission Standards

Emissions	U.S. EPA & CARB Tier 4 Final, EU Stage V
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General

Engine Configuration	In-Line 6
Bore	105 mm
Stroke	135 mm
Displacement	7 l
Compression Ratio	16.5:1
Aspiration	Turbocharged-Aftercooled (TA) or Series Turbocharged Aftercooled (TTA)
Combustion System	Direct Injection
Rotation from Flywheel End	Counterclockwise
Aftertreatment	DOC+DPF+SCR

Engine Dimensions - Approximate

Length	1064 mm
Width	798 mm
Height	912 mm
Weight - Net Dry - Basic Operating Engine Without Optional Attachments	752 kg

Aftertreatment Dimensions

Length	733 mm
Width	769 mm
Height	455 mm
Weight	107 kg

Aftertreatment Dimensions*

Diameter	338 mm
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C7.1 Standard Equipment

Air Inlet

Standard air cleaners

Control System

Full electronic control system, all connectors and wiring looms waterproof and designed to withstand harsh off-highway environments

Flexible and configurable software features and well-supported SAE J1939 CAN bus enables highly integrated machines

Cooling System

Top tank temperature 108° C (226° F) as standard to minimize cooling pack size

50:50 water glycol mix

Guidance on cooling system design available through your dealer to ensure equipment reliability

Flywheels And Flywheel Housing

Wide choice of drivetrain interfaces, including SAE No. 1, SAE No. 2, and SAE No. 3 configurations

Fuel System

Electronic high pressure common rail

Innovative filter design to ensure maximum protection of the engine

Lube System

Wide choice of sumps for different applications

General

Paint: Caterpillar yellow, with optional colors available on request

U.S. EPA Tier 4 Final, EU Stage V, Japan 2014 (Tier 4 Final) Aftertreatment/ Clean Emissions Control Equipment

Clean Emissions Module (CEM), consisting of Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC)

NOx Reduction System (NRS)

Selective Catalytic Reduction (SCR)

3" flex pipe connection with straight, 45°, and 90° options for flexibility