

Product Specifications For C7.1



Power Rating

Maximum Power	320 HP
Maximum Torque	935 lb-ft @ 1400 rpm
Rated Speed	2200 rpm
Minimum Power	172 HP

Emission Standards

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

Engine Configuration	In-Line 6
Bore	4.1 in
Stroke	5.3 in
Displacement	427.7 in ³
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	41.9 in
Width	31.4 in
Height	35.9 in
Weight - Net Dry - Basic Operating Engine Without Optional Attachments	1658 lb

Aftertreatment Dimensions

Length	29 in
Width	30.3 in
Height	18.1 in
Weight	236 lb

Aftertreatment Dimensions*

Diameter	13.3 in
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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