

Product Specifications For C280-16



Power Rating

Power Range	6169-7577 bhp (4600-5650 kW)
-------------	------------------------------

Engine Specifications

Speed Range	900-1000 rpm
-------------	--------------

Emissions	IMO II
-----------	--------

Aspiration	TTA
------------	-----

Bore	11 in
------	-------

Stroke	11.8 in
--------	---------

Displacement	18062 in ³
--------------	-----------------------

Rotation from Flywheel End	Counterclockwise or clockwise
----------------------------	-------------------------------

Configuration	Vee 16, 4-Stroke-Cycle Diesel
---------------	-------------------------------

Dimensions & Weights

Minimum Dry Weight	62832 lb
--------------------	----------

Minimum Length	224 in
----------------	--------

Maximum Length	224 in
----------------	--------

Minimum Height	134 in
----------------	--------

Maximum Height	134 in
----------------	--------

Minimum Width	80 in
---------------	-------

Maximum Width	80 in
---------------	-------

C280-16 Standard Equipment

Air Inlet System

Aftercooler, fresh water, corrosion resistant coated (air side)
Air inlet shutoff
Breather, crankcase, top-mounted
Turbocharger, engine oil lubricated

Control System

Dual Caterpillar A-III Electronic Engine Control Modules with Electronic Unit Injector Fuel System
Rigid Wiring Harness (10 amp 24volt power required to drive Electronic Engine Control Modules)

Cooling System

Engine coolant water drains

Exhaust System

Dry, gas tight, exhaust manifold

Fuel System

Distillate fuel (requires viscosity ranging from 1.4 cSt to 20 cSt at 38 degrees C)
Fuel transfer pump (mounted on left hand side)
Duplex fuel filters
Electronically Controlled Unit Injectors

Lube Systems

Centrifugal oil filters with single shutoff. Service side engine mounted on cylinder block inspection covers
Includes installed oil lines and single shutoff valve. Filters centrifuge bypass oil from the main lubricating oil pump. Can be serviced with the engine running.
Oil filler and dipstick
Valve, oil pressure regulating
Valves, crankcase explosion relief

General

Paint, Caterpillar yellow
Pumps, gear driven: fuel, oil, jacket water, aftercooler/oil cooler water

C280-16 Optional Equipment

Engine Application/Design Control

Crankshaft Deflection Marks
Extra Mounting Feet

Engine Package Description

Front Auxiliary Drive
Stub Shaft Certification

Air Inlet System

Air Cleaners
Air Cleaner options

Cooling System

Auxiliary Water Pump
Jacket Water Heaters
Heat Recovery System
Heat Recovery Thermostats
De-Aerator
Connections for Driven Equipment
Cooling System Connection Groups

Exhaust System

Outlet Expander
Flexible Exhaust Fittings
Weld Flange

Fuel System

Fuel Priming Pump
Duplex Primary Fuel Strainer
Fuel Systems Connections

Lube System

Oil Pan Drain Valve
Lube Connections
Lube Oil Heater

Marine Society Requirements

Spray Shielding

Protection System

Monitoring System
Turbocharger Speed Sensor
Cylinder Pressure Relief Valve
Oil Mist Detector

Spare Parts Kits

Intake and Air System
Basic Engine
Cylinder Head
Fuel System
Cooling System
Instrumentation
Cylinder Valve Kits

Starting System

Boost Control Valve, Pressure Reducing Valve

Engine Testing

Basic System Testing

Special Witness Test
Customer Selected Test Points
Marine Limit Line Test
Propeller Demand Curve Test

Service Tools/Ship Protection/Factor Support

Commissioning
Service Tools
Shipping Protection - Export Boxing
AID Emblem
Storage Preservation