

DIESEL INBOARD ENGINE

D170P

170ps[125.3kW] acc. to ISO 8665

New power for diesel inboard

SEASALL D170P is based on D-Engine of the most advanced and successful diesel engines developed by Hyundai's Powertrain R&D Center, the 2.2 liter in-line 4 diesel with solenoid controlled common rail injection which powers Hyundai Motor Company's recreational vehicle, Santafe.

Performance

170ps and 35.5kgm torque from the 2.2 I4 CRDi place it at the forefront of diesel technology.

Advanced design also makes it ultra light, extremely compact dimensions, quiet and efficient.

Engine power, fuel consumption and emissions are optimized with electronic engine management and common rail fuel injection system.

Durability and Reliability

SEASALL marine diesel engine is conducting durability tests under more severe conditions to secure the durability reliability of its powertrain parts. In addition, Hyundai's powertrain technology has been working hard to develop technologies needed to strengthen the powertrain, reduce combustion noise and vibration.

Emission

The common rail multiple injection features enable this engine to improve the main aspect of diesel in environmental terms, by minimizing the main defect represented by the emission of particulates and NOx. And also improved low-temperature combustion stability through lean air-fuel rationing was made possible via designs for fuel injection optimization, intake port optimization, and improved combustion performance. This satisfy the world's strictest exhaust emissions standards.

Service

Contact your closest SEASALL marine service center. All engine components and consumable spare parts are available at any SEASALL marine and points of the Hyundai & Kia Motor Company part networks.



Technical Description

Material

- Cast iron engine cyl. block
- Breathes through an all-aluminum head

Engine mounting

- Adjustable front and rear engine mount

Lubrication system

- Easily exchangeable oil filter cartridge
- Electric oil scavenger pump
- Freshwater-cooled engine oil cooler

Fuel system

- Solenoid electric common rail fuel injection system
- Fuel filter with water separator and warning alarm
- Electric fuel pump

Electrical system

- 12 volt system and 120A alternator
- Auxiliary stop button

Cooling system

- Camshaft direct connected seawater pump
- Seawater cooled aftercooler, heat exchanger, power steering oil cooler
- Connector prepared for cabin heater

Air inlet system

- Oil-wetted air cleaner
- Crankcase gases vented into the air inlet

Exhaust system

- Heat protected cover for exhaust manifold
- Seawater cooled exhaust elbow

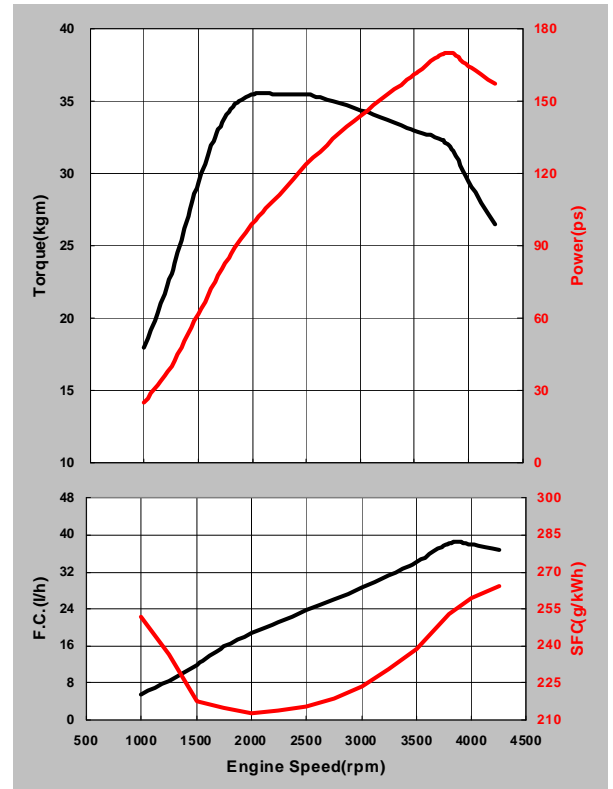
Turbocharger

- Variable geometry turbine(VGT)

D170P

TECHNICAL DATA

Engine type	D170P
	4-stroke, variable turbocharger, intercooled
	direct-injection ,fresh water cooling
Output ps(kW)	170(125.3)
rpm at full load	3800
Cylinders	4 in line
Displacement [cm ³]	2188
Bore [mm]	87
Stroke [mm]	92
Compression ratio	16.5 : 1
Max. torque [kgm]	35.5
at speed [rpm]	2000
Injection system	Solenoid Injector C/Rail
Alternator [A]	120
Electronic engine diagnostic	Yes
Weight [kg]	245



Standard Instruments/Control

- Key switch – ignition and start function
- Mechanical control head for throttle and shift
- Engine revolution counter with hourmeter
- Temperature gage for engine coolant temperature
- Battery voltage gage
- Engine operating indicator

Engine Operating Indicator

- Display CAN information about engine RPM, battery voltage, fuel consumption, coolant temperature, state of key on-off and gear neutral, full load operating time
- Display engine diagnostics error code
- Audible alarm and control lamps

Options

- Electric control system
- Connecting cables for dual station

Transmission

- ZF 45A
- ZF 25A/63A (option)

Emissions

- EPA Tier 2, IMO and RCD compliant

