

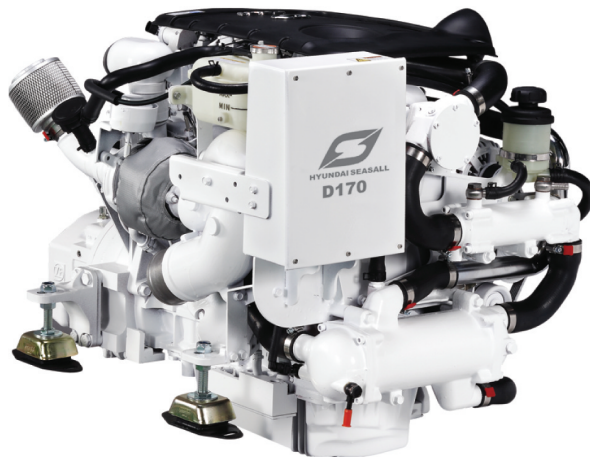
New Power for Marine Diesel Engine

D170

170ps [125kW] acc. to ISO 8665

Solenoid controlled common rail injection system delivers 170ps and 36kg·m torque from the 2.2 liter I4 CRDI engine.

The common rail multiple injection features improve I4 D-series on environmental aspects by minimizing the emissions of particulates and NOx. Designs for optimizing fuel injection and intake port, and combustion performance improved low-temperature combustion stability through lean air-fuel rationing. This satisfies the world's strictest exhaust emission standards.



Technical Description

Material

- Cast iron engine cylinder block
- Aluminum head
- Oil cooled piston
- Hydraulic lash adjusters
- Integrated water jacket
- Balance shaft
- Timing / drive belt auto tensioner

Engine Mounting

- Adjustable engine mount

Lubrication System

- Easily exchangeable oil filter cartridge
- Electric oil extraction pump
- Crankcase gases vented into air inlet

Fuel System

- Common rail direct injection (Solenoid injector)
- Fuel filter with sensor detecting water in fuel
- Electric fuel pump
- Dual pressure control valve
- Low and high pressure fuel pump

Electrical System

- 12 volt system and 120A alternator
- Auxiliary engine stop button
- Glow plugs for a trouble-free cold start

Cooling System

- Camshaft directly connected to seawater pump
- Seawater cooled intercooler, heat exchanger
- Connector prepared for cabin heater

Engine Operating Indicator



- Engine self protection and diagnosis
- Display CAN information
- Display engine diagnostic error code
- Audible alarm and control lamps

Air Inlet System

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

Exhaust System

- Thermal insulated exhaust manifold
- Seawater cooled exhaust elbow

Turbocharger

- Variable Geometry Turbine (VGT)

Engine Coupler

- Rubber roller coupler type for stern drive
- Torsion spring type for gearbox

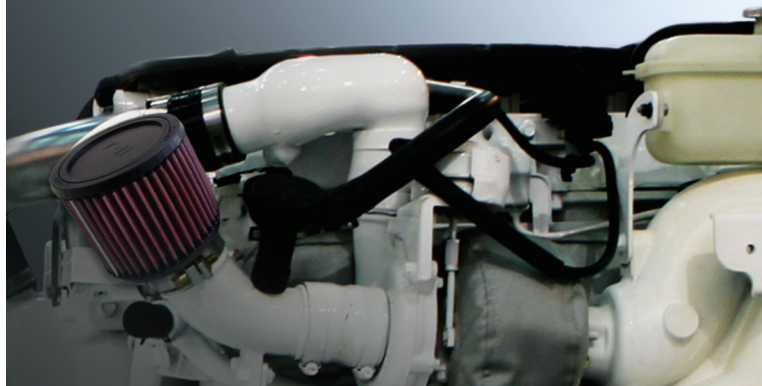
Emissions

- EPA Tier 2, IMO and RCD compliant

Pass-by Noise Level

- 69.0dB (RCD Standard 75dB)

D170



D170 Specification

Engine type	D170S	D170P	D170J
Engine duty rating	Pleasure & Light Commercial 4-Stroke, 4-Valve VGT with intercooler, fresh water cooling		
Output [ps(kW)] acc. to ISO 8665 rpm@full load	170 (125) 3800		
Cylinders	I4		
Displacement [cc]	2188		
Bore [mm]	87		
Stroke [mm]	92		
Compression ratio	17.3 : 1		
Max. torque [kgm]	36		34
at speed [rpm]	2000		3500
Injection system	Common Rail Direct Injection (Solenoid Injector)		
Alternator [A]	120		
Electronic engine diagnostic	YES		
Max. Fuel consumption [L/h]	36.0		
Weight [kg]	261		
Propulsion system	Stern drive	Shaft drive	Waterjet

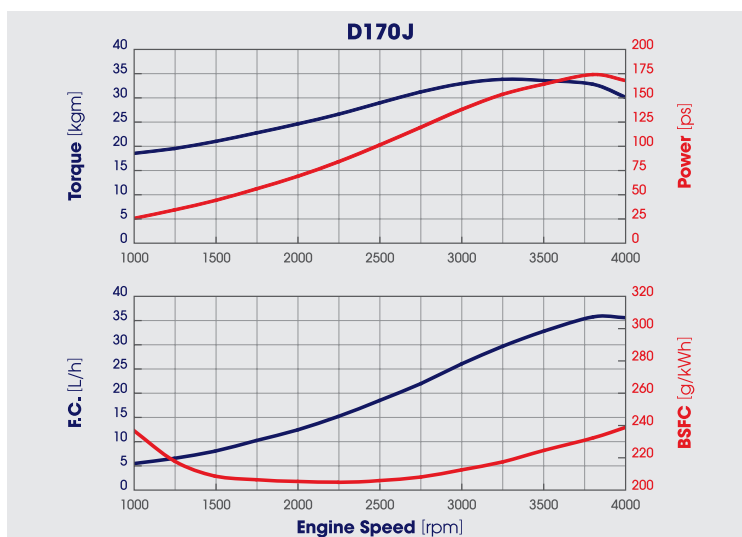
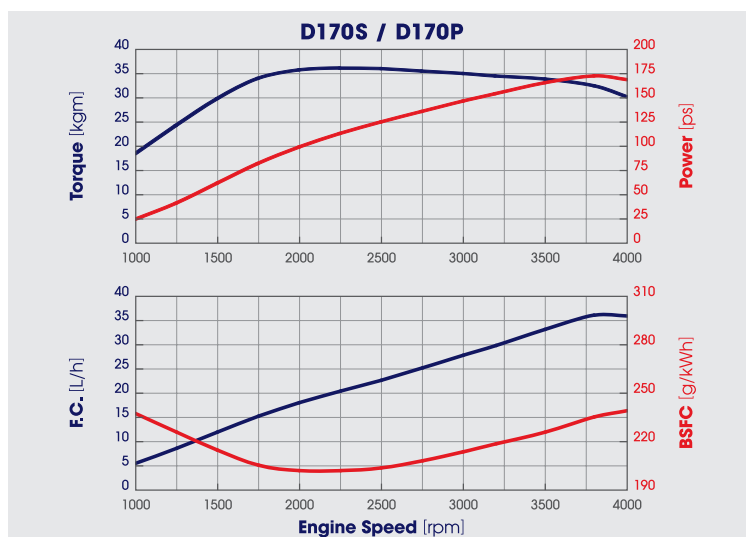
Stern drive for D170S

Model	Bravo One X Diesel	Bravo Two X Diesel	Bravo Three X Diesel
Gear Ratio	1.36/1.50/1.65	1.65/1.81/2.0/2.2	1.50/1.65/1.81/2.0/2.2
Weight [kg]	59	64	68

Marine Gear

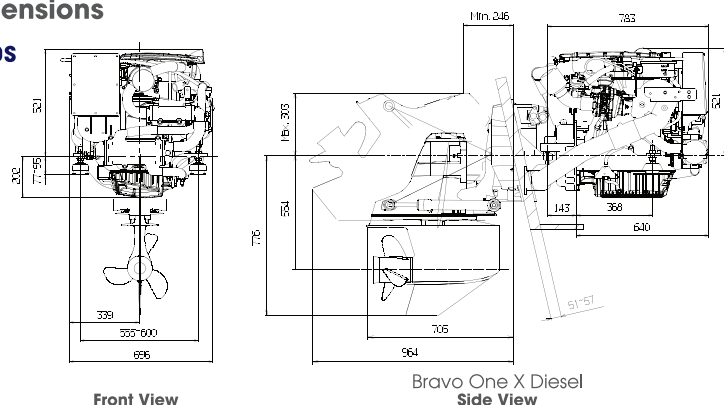
Model	ZF 45 A for D170P	ZF 45 C for D170J
Gear Ratio	1.26/1.51/2.03/2.43	1 : 1
Weight [kg]	28	31

Performance Curve

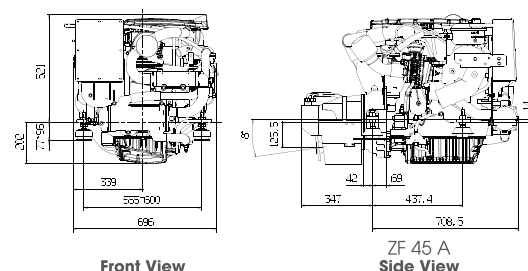


Dimensions

D170S

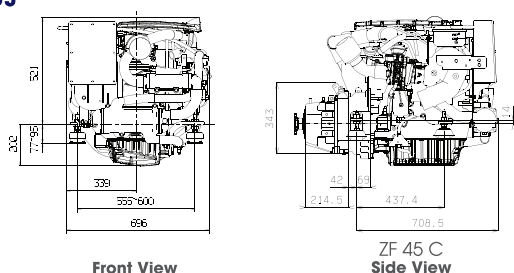


D170P



※ This data is subject to continual updates without notice.

D170J



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