D-SERIES

170PS [125kW] / 150PS [110kW] acc. to ISO 8665



Solenoid controlled common rail injection system delivers 170PS and $36kg \cdot m$ torque from the 2.2 liter In-line 4CRDi engine.

The common rail multiple injection features make the Inline-4 D-series more environmentally friendly by minimizing the emissions of particulates and NO_x .

The designs optimize fuel injection and intake porting to improve combustion performance, particularly low-temperature combustion stability through lean air-fuel rationing.

This ensures that we satisfy the world's strictest exhaust emission standards while providing the smooth, quiet and efficient power for which Hyundai SeasAll is becoming known.

Technical Descriptions

Engine

- · Cast iron engine cylinder block
- Aluminum head
- · Oil cooled pistons
- In-line 4, 16-valve SOHC
- Hydraulic lash adjusters
- Intergated water jacket
- Balance shaft
- Timing belt auto tensioner
- Single serpentine belt system
- Drive belt auto tensioner

Engine Mounting

Adjustable engine mounts

Lubrication System

· Electric oil extraction pump

Turbocharger

VGT, Variable Geometry Turbocharger

Fuel System

- Common Rail Direct Injection (CRDi)-Solenoid injector
- Fuel filter with sensor detecting water in fuel
- Electric fuel pump
- Dual pressure control valve
- · Low and high pressure fuel pumps

Electrical System

- 12 volt system and 120A alternator
- · Auxiliary engine stop button
- Glow plugs for a trouble-free cold start
- NMEA2000 Converter (Optional)
- Electronic control system (Optional)

Cooling System

- Seawater pump driven directly from the camshaft
- · Seawater cooled intercooler, heat exchanger
- Connector prepared for cabin heater
- Corrosion resistant material for the seawater circuit

Noise Level

• 69.0dB (RCD Standard 75dB)

Engine Operating Indicator (EOI)



- Engine self protection and diagnosis
- Displays CAN information
- Displays engine diagnostic error codes
- Audible alarm and control lamps

Air Inlet system

- · Oil wetted and reusable air filter
- Crankcase gas vented into the air inlet

Exhaust System

- Thermal insulated exhaust manifold
- Seawater cooled exhaust elbow

Emissions

• BSO and RCD compliant

Scope of Supply

1. RATINGS S3 LIGHT DUTY COMMERCIAL S4 SPECIAL PLEASURE DUTY SPECIAL LIGHT DUTY COMMERCIAL S5 PLEASURE DUTY

2. GAUGES

KEY SWITCH ASSEMBLY, TACHOMETER, COOLANT TEMPERATURE, VOLTMETER and TRIM GAUGE FOR STERNDRIVE

* Factory-installed option,

*** Supply schedule may differ.

To find out more about configurations
and accessories available, please contact

your nearest Hyundai SeasAll network.

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D170S	S5,S4	•	•	•	•	•	•	•	•	-	•	•	-	-	-	0	0	0	0	0	0	0	0	0	0
D170S-BRAVO 1X, 2X, 3X	S5,S4	•	•	•	•	•	•	•	•	-	•	•	-	-	-	0	0	0	0	0	0	0	0	0	0
D170P	S5,S4	•	•	•	•	•	•	•	0	-	•	-	-	-	-	0	0	0	0	0	0	0	-	-	-
D170P-ZF45A	S5,S4	•	•	•	•	•	•	•	-	-	•	-	-	-	-	0	0	0	0	0	0	0	-	-	-
D170J	S5,S4	•	•	•	•	•	•	0	0	0	•	-	-	-	-	0	0	0	0	0	0	0	0	-	-
D170J-ZF45C	S5,S4	•	•	•	•	•	•	0	-	-	•	-	-	-	-	0	0	0	0	0	0	0	0	-	-
D150S	S3	•	•	•	•	•	•	•	•	-	•	•	-	-	-	0	0	0	0	0	0	0	0	0	0
D150P	S3	•	•	•	•	•	•	•	0	-	•	-	-	-	-	0	0	0	0	0	0	0	-	-	-
D150P-ZF45A	S3	•	•	•	•	•	•	•	-	-	•	-	-	-	-	0	0	0	0	0	0	0	-	-	-

MATTER SEASALL











ON THE SMARTER PHONE

- Displays Engine Information
- Displays Boat Track on the Map
- Monthly User's Log Information
- Engine Diagnostic Fuctions
- Audible Warning Alarm and Visual Pop—up Screen











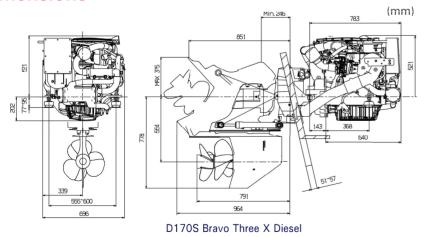


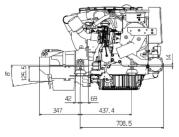
g Diagnosis Us

Specifications

Engine type	D170S	D170P	D170J	D150S	D150P						
Propulsion system	Sterndrive	Shaftdrive	Waterjet	Sterndrive	Shaftdrive						
Engine Duty Rating	Special Pleasure [Pleasure Duty (St Duty, Special Light D	Light Duty Co	Light Duty Commercial (S3)							
Configuration	4-Stroke, 16-Valve SOHC, VGT with Intercooler, Fresh Water Cooling										
Output [PS (kW)]	170 (125) 150 (112)										
Rated rpm	3,800 3,200										
Cylinders	In-line 4										
Displacement [cc]	2,184										
Bore X Stroke [mm]	87 X 92										
Max. Torque @ rpm	36 kg•m	@ 2,000	36 kg·m @ 2,000								
Injection System	Common Rail Direct injection (CRDi) - Solenoid Injector										
Alternator	12V-120A										
Engine Diagnostics	YES										
Fuel Consump.[L/h]		36.0	30.5								
Dry Weight [kg]	261										
Flywheel	Hyundai Unique										
Flywheel Housing (P/J type)	Borgwarner Flange										

Dimensions

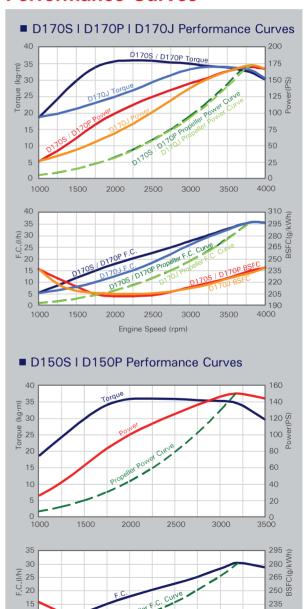




D170P I D150P ZF 45A

214.5 437.4 708.5 D170J ZF 45C

Performance Curves



220

205

3500



1500

2500

Engine Speed (rpm)

10