

## D-SERIES

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



Solenoid controlled common rail injection system delivers 170PS and 36kg·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<sub>x</sub>.

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 STERNDRIIVE

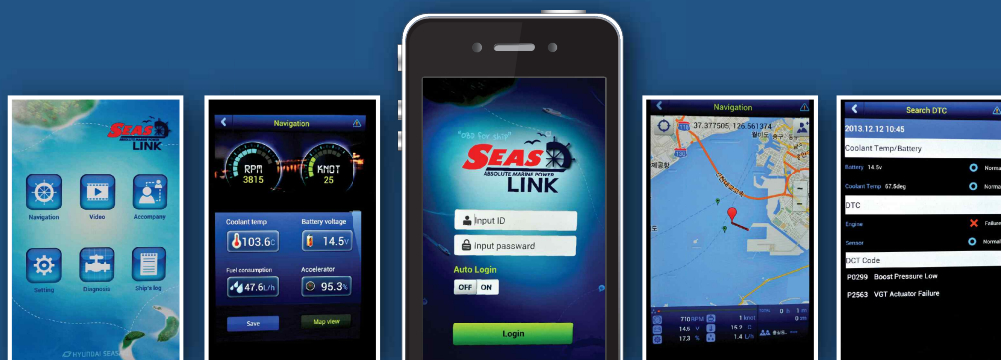
\* Factory-installed option,

\*\*\* Supply schedule may differ.

To find out more about configurations and accessories available, please contact your nearest Hyundai SeasAll network.

		RATINGS <sup>1</sup>	OPERATION MANUAL	EOI (Engine Operation Indicator)	SeasLink <sup>***</sup>	GAUGES <sup>2</sup>	COUPLER	ENGINE OIL EXTRACTION PUMP	SEA WATER PUMP	POWER STEERING PUMP	BEARING HOUSING ASSEMBLY	EXHAUST ELBOW (WATER COOLED)	EXHAUST PIPE (FOR STERNDRIIVE)	TWO POLE INSULATED SYSTEM	INTAKE RISER	NMEA2000 CONVERTER	ELEC. CONTROL SYSTEM	MECH. CONTROL SYSTEM	STEERING WHEEL	SAFETY STOP SWITCH	MECH. CONTROL CABLE	HELM-90 BEZEL CABLE	ALL PROP	SS PROP
D170S	S5,S4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D170S-BRAVO 1X, 2X, 3X	S5,S4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D170P	S5,S4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D170P-ZF45A	S5,S4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D170J	S5,S4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D170J-ZF45C	S5,S4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D150S	S3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D150P	S3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D150P-ZF45A	S3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● : Standard / ○ : Option / - : N/A / S = Sterndrive / P = Propeller Shaft / J = Water Jet



**SEAS LINK**  
ABSOLUTE MARINE POWER

## ON THE SMARTER PHONE

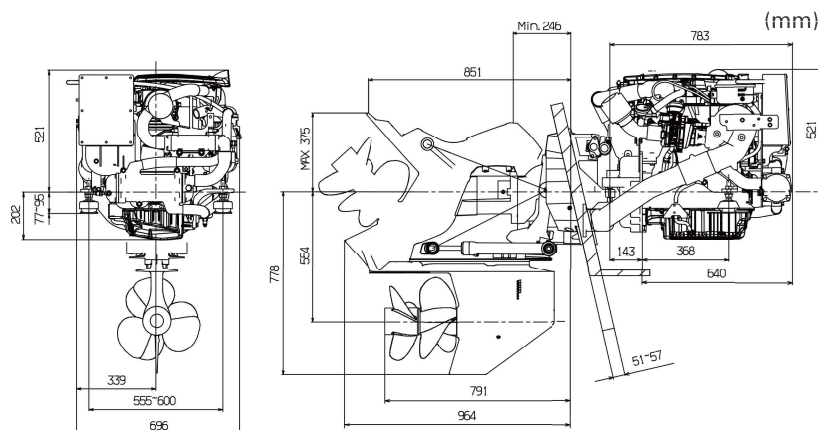
- Displays Engine Information
- Displays Boat Track on the Map
- Monthly User's Log Information
- Engine Diagnostic Functions
- Audible Warning Alarm and Visual Pop-up Screen



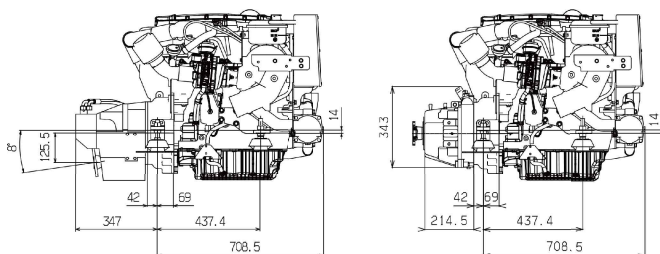
## Specifications

Engine type	D170S	D170P	D170J	D150S	D150P
Propulsion system	Sterndrive	Shaftdrive	Waterjet	Sterndrive	Shaftdrive
Engine Duty Rating	Pleasure Duty (S5) Special Pleasure Duty, Special Light Duty Commercial (S4)			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		34 kg·m @ 3,500	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



D170S Bravo Three X Diesel

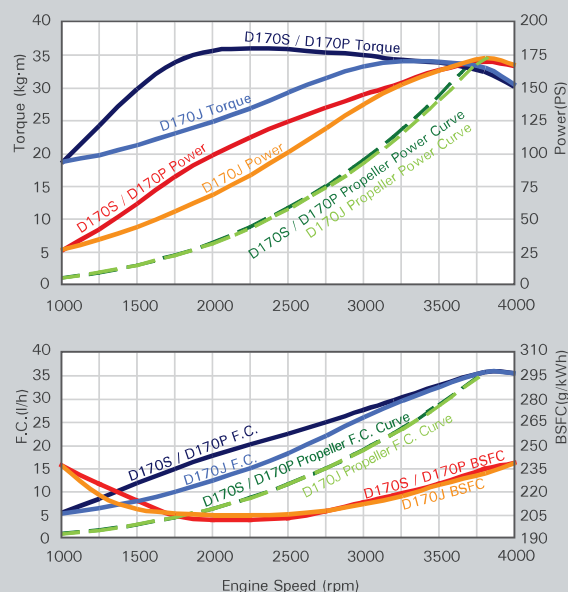


D170P | D150P ZF 45A

D170J ZF 45C

## Performance Curves

### ■ D170S | D170P | D170J Performance Curves



### ■ D150S | D150P Performance Curves

