

Marine Engine- 8170 Series

General Specifications

Bore & Stroke	170x200 mm
Displacement	36.3 L
Cylinder Number	8
Compression ratio	14.5:1
Fuel System	Mechanical Pump
Aspiration	TA
Emission Standard	IMO Tier II



Duty	Model	HP	kW	RPM	Duty	Model	HP	kW	RPM
P1	8170ZC600-1	600	441	1000	P1	8170ZC818-3	818	601	1350
P1	8170ZC720-2	720	530	1200					

Standard Equipments

Engine and block

- Cast iron gantry type structure block
- One-piece casting crankshaft
- Separate cast iron cylinder heads and wet liners
- Aluminium alloy pistons with gallery oil cooling

Cooling system

- Fresh / raw water heat exchanger with integrated thermostatic valves and expansion tank
- Cast iron centrifugal fresh water pump, mechanically driven
- Self-priming raw water pump, mechanically driven

Lubrication system

- Filter with metal element, washable
- Fresh water cooled lube oil cooler

Fuel system

- P-type in-line injection pump
- Dual-skinned fuel pipe with alarm and leakage collector
- Duplex fuel filters replaceable engine running

Intake air and exhaust system

- Washable air filter
- Turbocharger optimized for marine application
- Insulated exhaust manifold and exhaust expansion joint

Electrical system

- 24V electric starter motor and battery charging alternator
- Voyage safeguard monitor and 5m harness

Certification

- CCS and EIAPP

Optional Equipments

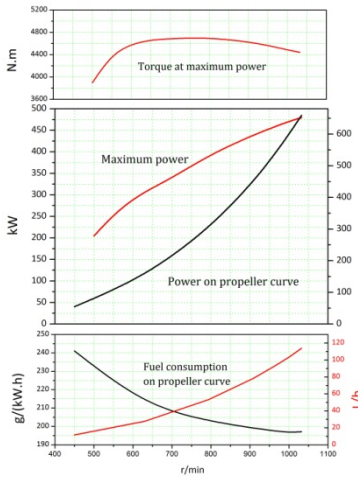
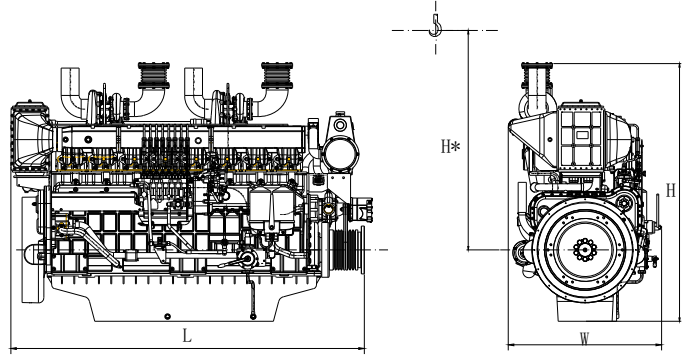
- Air starter with storage bottles
- Different harness length of remote monitor
- Free end PTO

Equipment and factory trial according to major Classification Societies rules

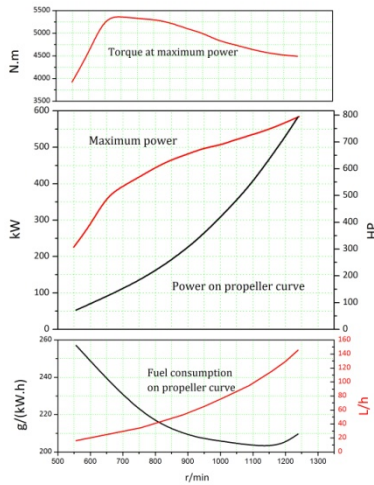
	P1 Duty	P2 Duty	P3 Duty	P4 Duty
Application	Unrestricted continuous	continuous	intermittent	high performance
Engine load variations	Very little or none	continuous	important	very important
Mean engine load factor	80 to 100%	30 to 80%	50%	30%
Annual working time	More than 5000 h	3000 to 5000 h	1000 to 3000h	less than 1000 h
Time at full load	unlimited	8 h each 12 h	2 h each 12 h	1 h each 12 h

Dimensions and Weight

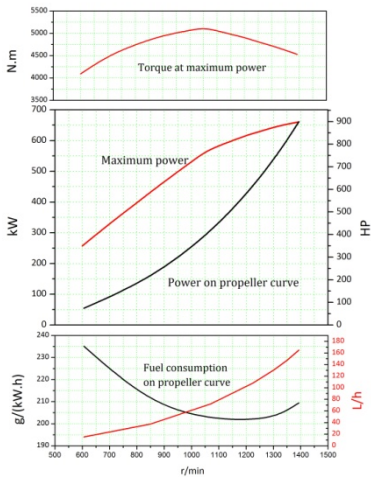
Length	2577 mm
Width	1117 mm
Height	1844 mm
Dry Weight	3800 kg



8170ZC600-1



8170ZC720-2



8170ZC818-3

Power definition

Standard ISO 3046/1 -1995(F)

Reference conditions

Ambient temperature	25 °C
Barometric pressure	100 kPa
Relative humidity	30%
Raw water temperature	25 °C

Fuel oil

Relative density	0,840 ± 0,005
Lower calorific power	42 700 kJ/kg
Consumption tolerances	± 5 %

Lube oil

Recommend grade	CD 15W/40
-----------------	-----------

Distributed By:

Manufacturer: Weichai Power Co., Ltd
 Address: 197 A, Fushou East Street, High-Tech
 Development Zone, Weifang, China
www.weichai.com

