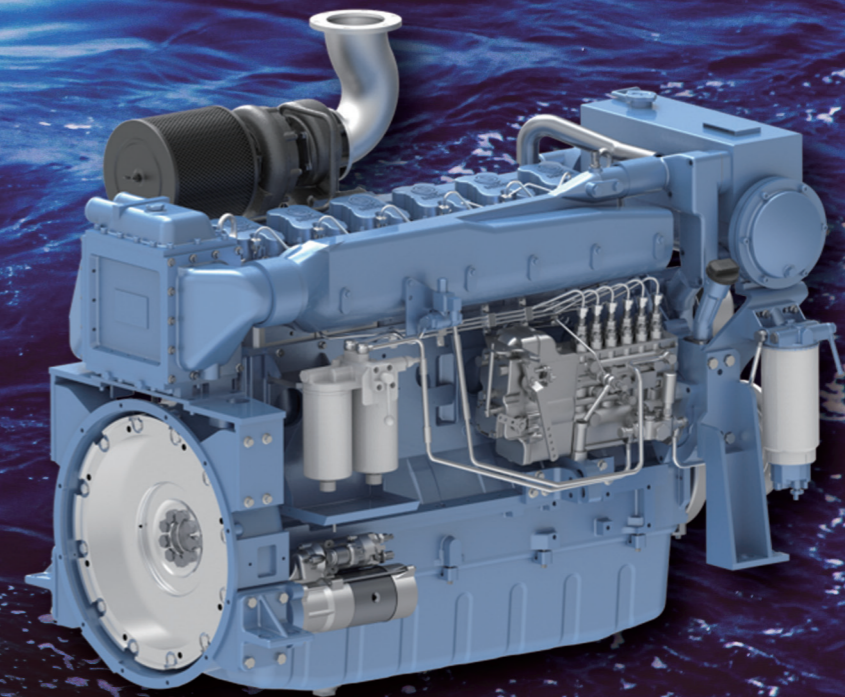


WEICHAI pursues an active policy of product development and improvement. For this reason the company reserves the right to change specifications without prior notice.

WD10

MARINE PROPULSION POWER

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Technical Data

Engine model	WD10C190-15	WD10C240-18	WD10C278-18	WD10C278-21	WD10C326-21
Rated power, Ps(kW)	190(140)	240(176)	278(205)	278(205)	326(240)
Rated speed, r/min	1500	1800	1800	2100	2100
Power rating	P1				
Min. fuel consumption, g/(kW·h)	198				
No. of cylinders	in-line 6				
Description	4-stroke, direct-injected, turbocharged diesel engine with air cooler				
Bore x Stroke, mm (in)	126 x 130(4.96 x 5.1)				
Displacement, L (in ³)	9.726(594)				
Compression ratio	17:1				
Dry weight, kg (lb)	1056 (2328)				
Emission	IMO Tier II				
Firing order	1-5-3-6-2-4				
Idle speed, r/min	650±50				
Flywheel housing/Flywheel	SAE 1/14"				

Other engine models WD10C218-15 , WD10C240-15 , WD10C278-15 , WD10C312-18 , WD10C200-21 , WD10C300-21

Class Definition

Power Classification	Time at full load	Mean engine load factor	Annual working time	Typical applications
P1 Continuous Duty	Unlimited	70% ~ 100%	recommended but not limited to 5000h-8000h	Ocean vessel Engineering vessel
P2 Heavy Duty	8h per 12h	40% ~ 80%	recommended but not limited to 5000h	Ferries, High speed passengers boats, Trawlers, Inland waterway transport boats, Tugboat, offshore trade vessel, Purse seine vessel
P3 Intermittent Duty	4h per 12h	40% ~ 80%	recommended but not limited to 3000h	Offshore service boats, Seasonal cruise ship, Official vessels with high utilization rate
P4 Light Duty	2h per 8h	60%	recommended but not limited to 1000h	Fishery patrol ship, Maritime surveillance ship, Patrol boat, Life boat, Stormships used by local governments
P5 High Performance Duty	0.5h per 5h	60%	recommended but not limited to 500h	Leisure yachts

Power Definition

Standard ISO 3046/1 - 1995 (F)

Reference conditions

Ambient temperature 25 °C / 77 °F
 Barometric pressure 100 kPa
 Relative humidity 30%
 Raw water temperature 25 °C / 77 °F

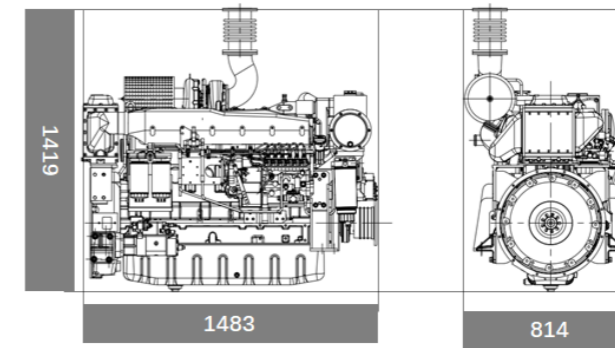
Fuel oil

Relative density 0,840 ± 0,005g/ml
 Lower calorific power 42,700 kJ/kg
 Consumption tolerance 0 ± 5%
 Inlet limit temperature 35 °C / 95 °F

Our ratings also comply with classification societies maximum temperature definition without power derating.

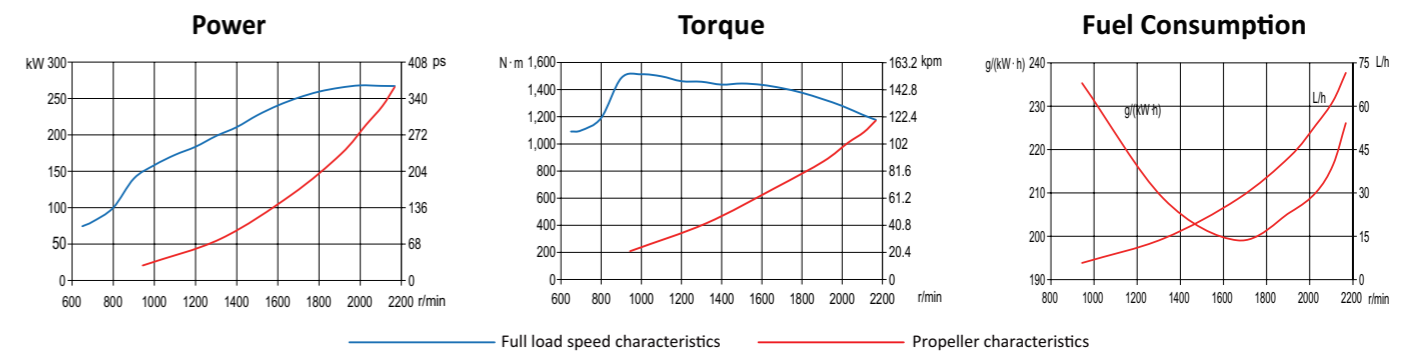
Ambient temperature 45 °C / 113 °F
 Raw water temperature 32 °C / 90 °F

Engine Dimensions



Dimensions may vary based on selected engine configuration

Performance Curves(WD10C326-21)



Technical Description

Engine and block

- Cylinder block made of cast iron
- 2 valves per cylinder
- Steel crankshaft
- Cylinder head of separated type
- Dry cylinder liner

Electrical system

- Starter motor 24V/7.5kW, double-wire system
- Alternator 28V/35A, double-wire system

Lubrication system

- Integrated oil cooler in cylinder block
- Duplex oil filter of spin-on type

Fuel system

- Anti-explosion high pressure fuel pipe with fuel leaking alarm
- 2 stop methods, electro magnet stop and electromagnetic valve
- Fuel fine filter can be changed without the engine shutdown

Air inlet and exhaust system

- Turbocharged and intercooled air intake system
- Engine coolant cooled or dry exhaust pipe

Cooling system

- Heat exchanger and air cooler with corrosion-resistance tubes and anti-corrosion Zinc bar

Instruments/controls (option)

- Local control panel and remote panel equipped
- Connectors of plug-in type

