

12M33.2

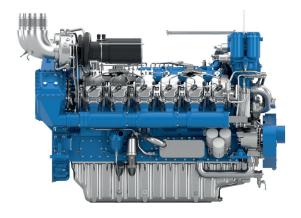
Propulsion Diesel Engine

Baudouin.com





Propulsion Diesel Engine



Number of cylinders 12V @ 90 Bore and stroke (mm) 126 X 185 Total displacement (L) 32.2 Compression ratio 15/1

Engine rotation counter clockwise

Idle speed 650 Flywheel SAE 0 Flywheel housing SAE 18"

Customer benefits

Compact size with one of the best in class power outputs

Controlled fuel consumption with low exahust emissions at any running cycles

Life cycle cost efficiency with extended mean time between overhauls

Easy maintenance as the engine is equipped with somple mechanical injection

Rated power - Fuel consumption

	kW	HP	RPM	Fuel consumption				
Duty				Optimum value	Rated	power	IMO	EPA
				g/kWh	g/kWh	l/h		
P1	956	1300	1800	205	215	244	II	NO
P2	1029	1400	1800	205	218	266	II	NO
P2	1104	1500	1800	210	221	288	II	NO

	P1	P2	
Application	Unrestricted Continuous	Continuous	
Engine load variations	Very Little To None	Continuous	
Average Engine load factor	80-100%	30-80%	
Annual working time	More Than 5000 H	3000 -5000 H	
Time at full load	Unlimited	8h Each 12h	

P1 Continuous Duty

- Deep sea trawlers
- Shrimps trawlers
- · Sea going tug boats
- River tug boatsPush boats
- Freighters
- FreightersDredges
- · LCT
- Ferries

P2 Heavy Duty

- Deep sea trawlers
- Shrimps trawlers
- · Sea going tug boats
- River tug boats
- Push boats
- Freighters
- Dredges
- · LCT
- Ferries

P3 Intermittent Duty

- · Seasonal passenger vessels
- Fishing boats
- Pilot boats
- Commercial pleasure boats
- · Pump boats
- Displacement sailboats
- Trawlers
- Bow thrusters

P4 Light Duty

- Private pleasure boats
- Multi-hull pleasure boats
- Survey or rescue fast vessels
- · Military fast vessels.

P5 High performance Duty

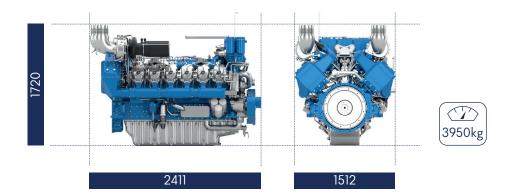
- Private pleasure boats
- Multi-hull pleasure boats





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Dimensions and dry weight (mm/kg)



Standard equipment

Cooling System Two - stage cooling circuit with built - in HT thermostatic valve

Integrated fresh water expansion tank High efficiency tubular heat exchanger Gear driven centrifugal raw water pump

Self priming raw water pump with bronze impeller

Lubrication System Full flow lube oil filters duplex type

Fresh water cooled lube oil heat exchanger

Fuel System Common-rail electronic injection

High pressure pump with shielded high pressure injection rail and pipes

Fuel oil filter duplex type

External fuel pre-filter with water separator

Intake Air and Exhaust System Double flow raw water cooled intake air heat exchanger module

High efficiency dry turbocharger with ball bearing technology

Two Stage Turbocharging system

Electrical System Voltage: 24V DC insulated

Electrical starter

190A battery alternator

Optional Equipment Wet exhaust

PTO elastic coupling Additional pulley Electric drain system

Standard PTO for hydraulic pump

Different alternators possible - inlcuding 12V

Electrical rotary actuator

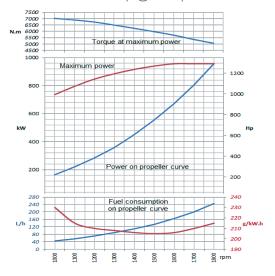


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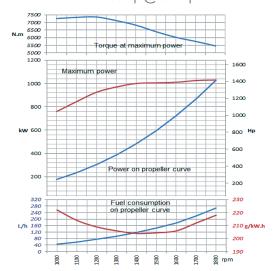
Performance

P1 - 956 kW - 1300 hp @1800rpm

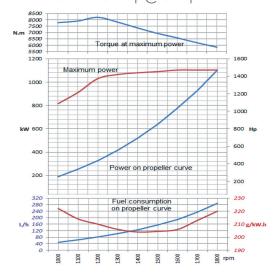
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P2 - 1029 kW - 1400 hp @1800rpm



P2 - 1103 kW - 1500 hp @1800rpm



Power definition

(Standard ISO 3046/1 - 1995 (F))

Reference conditions

Ambient temperature $25^{\circ}\text{C} / 77^{\circ}\text{F}$ Barometric pressure 100 kPaRelative humidity 30°R Raw water temperature $25^{\circ}\text{C} / 77^{\circ}\text{F}$

Fuel oil

Relative density Lower calorific power Consumption tolerances

Inlet limit temperature

0,840 ± 0,005 42 700 kJ/kg + 5%

(DIN ISO 3046-1) 35°C /95°F

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

Ambient temperature Raw water temperature

45°C / 113°F 32°C / 90°F