MOTEURS Baudouin

16M33.3

Common rail diesel engine

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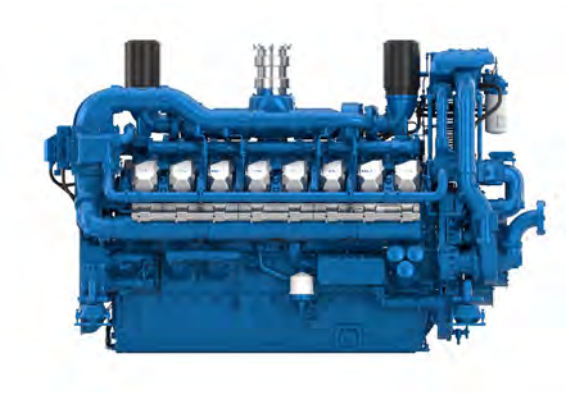

Number of cylinders	16
Bore and stroke (mm)	150 x 185
Total displacement (L)	52.3
Cylinders	16V
Engine rotation	counter clockwise
Idle speed (rpm)	650
Flywheel housing	SAE 00
Flywheel	21"

Rated power - Fuel consumption

Duty	kW	HP	RPM	Fuel consumption			IMO
				Optimum value	Rated power		
				g/kWh	g/kWh	l/h	
P1	1287	1750	1600	204	218	334	II
	1434	1950	1800	209	216	370	II
P2	1361	1850	1600	203	218	354	II
	1545	2100	1800	207	217	402	II

	P1	P2	P3	P4
Application	Unrestricted	Continuous (Heavy)	Intermittent	Light
Engine load variations	Not important	Important	Important	Very important
Average Engine load factor	80-100%	30-80%	60%	60%
Annual working time	5000 - 7000h	3000-5000h	1000-3000h	Less than 1500h
Time at full load	12h each 12h	8h each 12h	2h each 12h	1h each 12h

P1 Continuous Duty

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

Baudouin's Engine DNA: Genuine Marine Power, Efficiency & Reliability

Our genuine marine engine design is specifically engineered for marine applications, ensuring durability, performance, and seamless integration in the most demanding environments. Designed for easy maintenance, our engines feature individual cylinder heads, allowing for quick servicing and minimal downtime to ensure uninterrupted operations. Built with key components made from highly durable materials, our engines guarantee long-term reliability and endurance in every condition.

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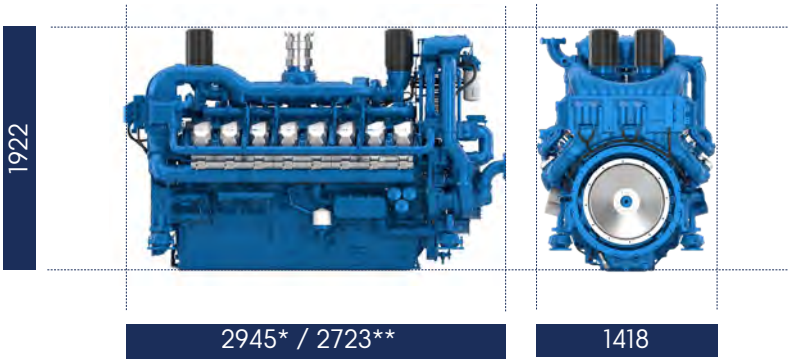
Dimensions and dry weight (mm/kg)



*total
**from flywheel

Standard equipment

Cooling System	Three 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 Electrical draining and pre-lub pump
Fuel System	Common-rail electronic injection High pressure pump with shielded high pressure injection rail and pipes Fuel oil filter duplex type
Intake Air and Exhaust System	Fresh water cooled charge air cooler module High efficiency dry turbocharger with ball bearing technology 4 TC Turbocharging system
Electrical System	Voltage: 24V DC insulated Electrical starter 55A battery alternator STD BMS with IV5 display
Optional Equipment	Keel Coooling configuration 1400N.m front PTO with elastic coupling High Torque PTO Interface Elastic mounting Closed circuit blow by filtration Air starter - Fresh water pre-heater Cabin heating connections Full class compliant engine on demand Master BMS for full class engines Additional displays

Contact us for further information regarding our options.

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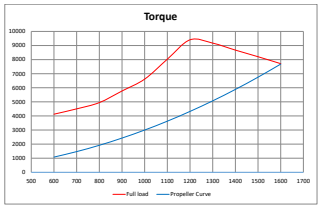
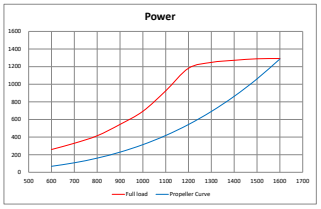
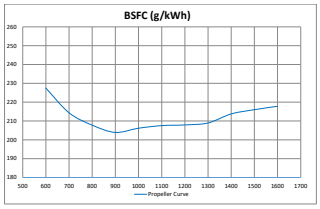
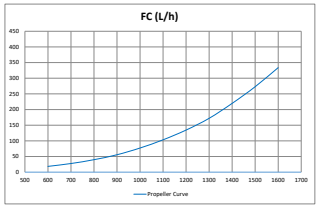
Performance

P1 1287kW - 1600rpm

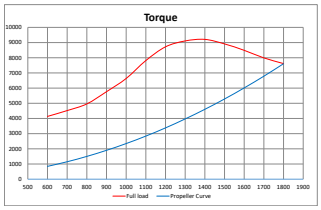


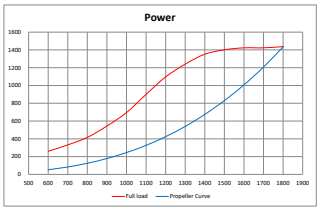


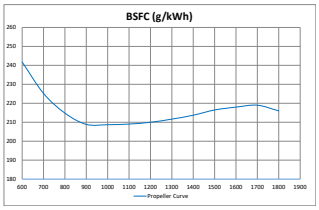


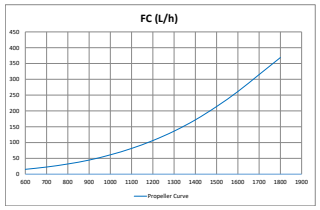


P1 1434kW - 1800rpm

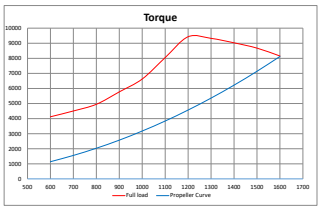


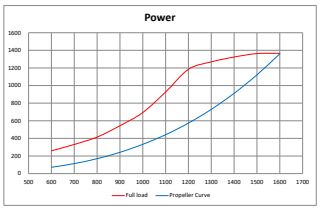


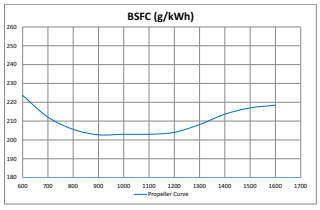


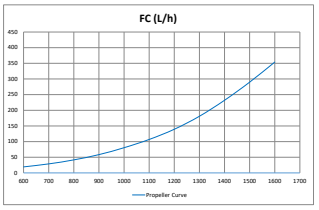


P2 1361kW - 1600rpm

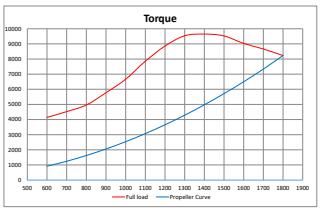


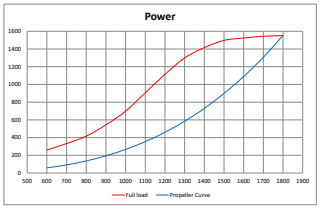


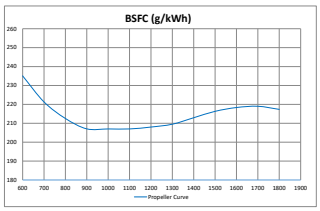


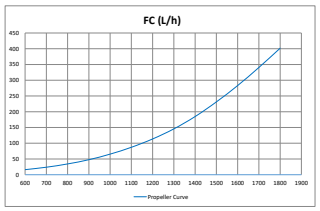


P2 1545kW - 1800rpm









Power definition

(Standard ISO 3046/1 - 2002)

Reference conditions

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

Fuel oil

Relative density	0,840 ± 0,005
Lower calorific power	42 700 kJ/kg
Consumption tolerances	+ 5% (DIN ISO 3046-1)
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