

Marine Diesel Propulsion units of "PM" series are designed to drive the main propulsion system as well as auxiliary thrusters of all types of vessels. The propulsion units are equally applicable on the sea as well as river-based vessels. The production of the RD units implies usage of up-to-date gearboxes of worldwide known brands, such as TWIN DISC, ZF and others, as well as application of such couplings as VULKAN, CENTA and STROMAG. The propulsion units are equipped with monitoring and management systems, developed in-house by the technical department of RIGAS DIZELIS plant, in accordance with target customer needs and requirements of the classification societies.



Description & Key Scope

- Keel or heat exchanger cooling system
- Engine heater
- 24V starter, engine-driven charging alternator
- Flexible compensator and silencer
- Gearbox (ZF, TwinDisc, etc.) with different ratio available
- Flexible coupling between engine and gearbox
- Local and remote control panels
- Vibration isolators
- Drawing & Manual package
- Factory Test Report
- Certificates from major IACS members are available
- EIAPP certificate with Technical File
- Torsional Vibration Calculation

Engine type	Gross power, full load*, kW	Gross power, full load*, HP	Engine speed (rpm)	Power rating**	Preliminary dimensions in mm LxWxH / weight in kg	Emission
BF4M1013M	81 / 95	110 / 129	1800-2300	LG A / LG B	1125x666x1185 / 560	
BF4M1013MC	102 / 118	138 / 160	1800-2300	LG A / LG B	1125x666x1185 / 580	IMO Tier II
BF6M1013M	123 / 129	167 / 175	1800-2300	LG A / LG B	1408x850x1280 / 730	
BF6M1013MC	148 / 174	201 / 236	1800-2300	LG A / LG B	1408x850x1280 / 760	IMO Tier II
BF6M1013MCP	166 / 195	225 / 265	1800-2300	LG A / LG B	1408x850x1280 / 760	IMO Tier II

Description & Key Scope

* Power rated in accordance with ISO 3046-1 at ambient temperature of 45°C and sea water temperature 32°C.

** Power rating:

- LG A (classifiable): Unlimited continuous operation with unlimited workload.
- LG B (is not classifiable): Limited continuous operation: max. 3000 operating hours per year. Operating time with more than 90% of maximum power: max. 1500 operating hours per year. Admissible workload: max. 70% of rated power.

Engine General Data*

Maker	Deutz	
Model	BF4M1013M (MC)	BF6M1013M (MC; MCP)
No of cylinders	4 in-line	6 in-line
Working principle	4-stroke	4-stroke
Displacement, L	4.8	7.2
Bore x stroke, mm	108 x 130	108 x 130
Compression ratio	17.6 : 1	17.6 (M; MC) / 17.0 (MCP) : 1
Aspiration	Turbocharged	Turbocharged
Rotation	Counter clockwise (seen from flywheel end)	Counter clockwise (seen from flywheel end)
Flywheel	SAE 11,5"	SAE 11,5"
Injection system type	Unit pumps	Unit pumps
Governor type	Mechanical	Mechanical
Oil capacity, L	13 (min) – 14 (max)	21.5 (min) – 23 (max)
Starter type	2-pole, 24V, DC	2-pole, 24V, DC

* Other engine parameters are available on request.

Available Key Options (other options are available on request)

Engine

- Radiator cooling system
- Manual or electric lub oil drain pump
- Starting batteries
- Static battery charger
- Air, spring or hydraulic starter
- Duplex oil and fuel filters

Gearbox

- Nonstandard ratios
- Trolling valves
- Power take off (PTO)
- Power take in (PTI)
- etc.

Other

- Special tools and spare parts
- Commissioning and start-up
- Extended warranty
- Propulsion lines (shafts, propellers, nozzles, thrusters, etc.)
- Deck mounted systems with Z-type azimuth thrusters



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