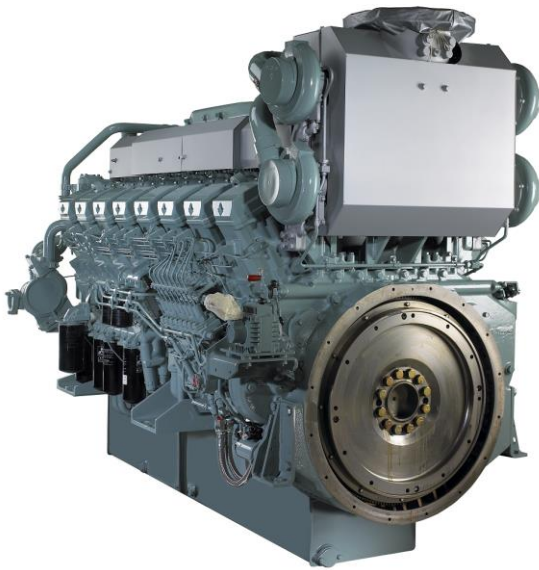


Marine Diesel Propulsion units of "PM" series are designed to drive the main propulsion system as well as auxiliary thrusters of all types of vessels. The propulsion units are equally applicable on the sea as well as river-based vessels. The production of the RD units implies usage of up-to-date gearboxes 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***
S16R-MPTAW	912-1250/1380	1240-1700/1877	1450-1600/1650	HD / MD	2971x1513x1960 / 6750	IMO Tier II
S16R2-T2MPTAW	1450/1600/1885	1972/2176/2564	1350/1400/1500	HD/MD/LD	2946x1526x2030 / 7750	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:

- HD (Heavy Duty): Overload operation- not possible; Allowable average load factor- 100% or lower; Allowable average speed- 100% or lower; Allowable continuous operation with over 90% load- unlimited; Recommend Operating hour per year- unlimited.
- MD (Medium Duty): Overload operation- not possible; Allowable average load factor- 83% or lower; Allowable average speed- 94% or lower; Allowable continuous operation with over 90% load- up to 8 hr per 24 hr; Recommend Operating hour per year- 6000 hr.
- LD (Light Duty): Overload operation- not possible; Allowable average load factor- 75% or lower; Allowable average speed- 91% or lower; Allowable continuous operation with over 90% load- up to 1 hr per 6 hr; Recommend Operating hour per year- 3000 hr.

\*\*\*IMO Tier III emission compliance is available on request.

## Engine General Data\*

Maker	MITSUBISHI	
Model	S16R-MPTAW	S16R2-T2MPTAW
No of cylinders	V-16	V-16
Working principle	4-stroke	4-stroke
Displacement, L	65.37	79.90
Bore x stroke, mm	170 x 180	170 x 220
Compression ratio	14.5:1	14.0:1
Aspiration	Turbocharged, Inter Cooler	Turbocharged, Inter Cooler
Rotation	Counter clockwise (seen from flywheel end)	Counter clockwise (seen from flywheel end)
Flywheel	SAE 21"	SAE 21"
Injection pump	Mitsubishi PS8 Type x 2	Mitsubishi PS8 Type x 2
Governor type	Hydraulic	Hydraulic
Oil capacity, liters	194-260	200-260
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
- Electronic governor

### 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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