MITSUBISHI MARINE ENGINE

SU SERIES

NEW

IMO Tier 2

MITSUBISHI HEAVY INDUSTRIES, LTD.

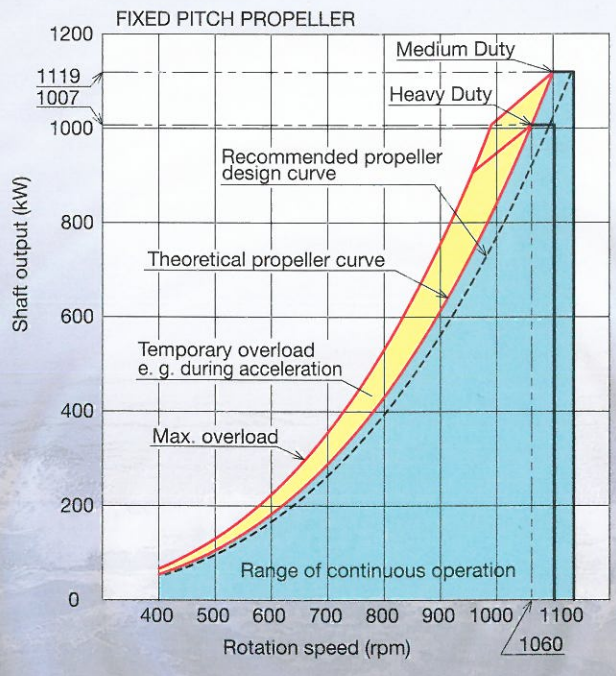
Our Technologies, Your Tomorrow

Tough Engine - The SU

S6U

MD 1119 kW/1100 rpm
HD 1007 kW/1060 rpm

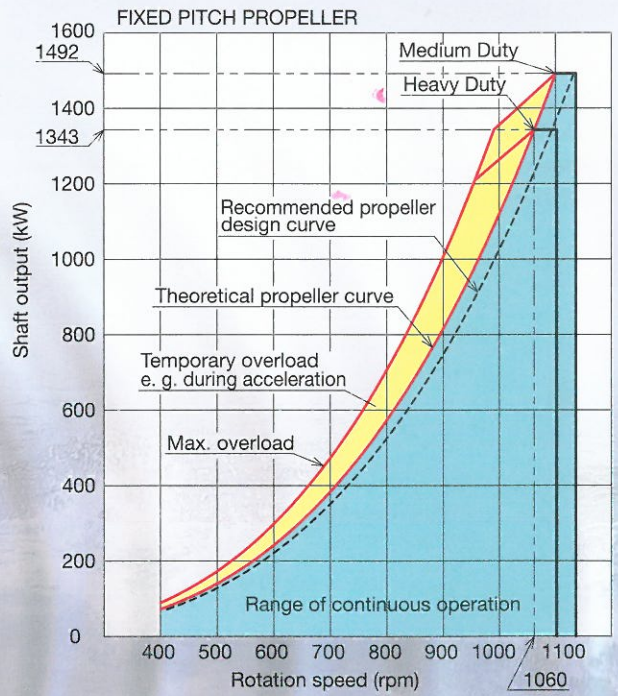
Performance Curve



S8U

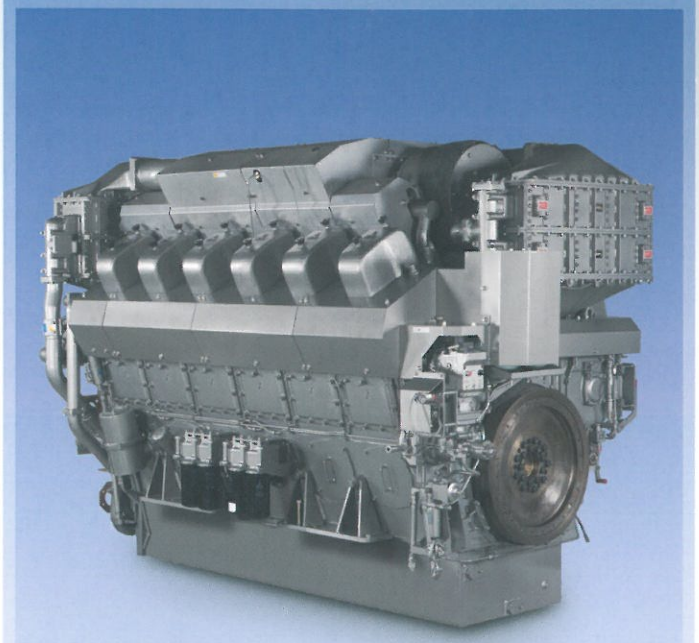
MD 1492 kW/1100 rpm
HD 1343 kW/1060 rpm

Performance Curve



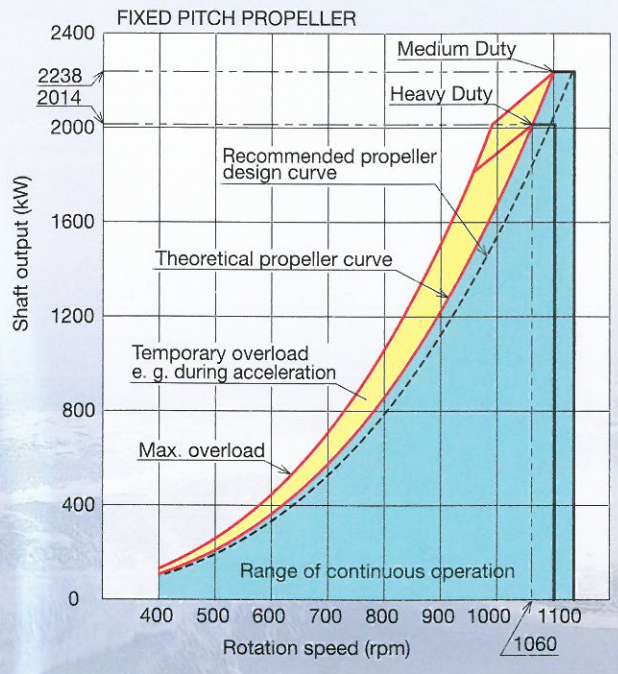
Engine from Mitsubishi

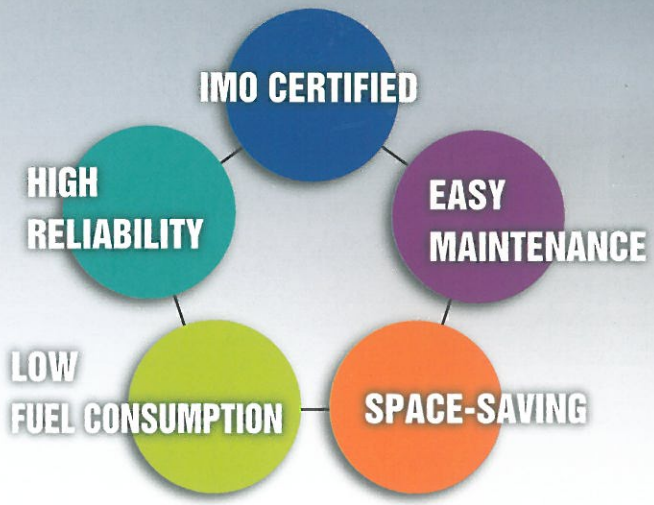
S12U



MD 2238 kW/1100 rpm
HD 2014 kW/1060 rpm

Performance Curve





Medium Duty (MD)

Typical operation:

Allowable Load Factor is up to 83% of Rated Power.
Allowable Cruising Speed is up to 94% of Rated Speed.
100% of Rated Power is available intermittently for 8 Hr per every 24 Hr operation.
Operating hours is less than 6000 Hr per year.

Typical Vessel Application:

Bay Area Tug Boats, Working Boats, Passenger Boats, Ferry Boats

Heavy Duty (HD)

Typical operation:

Allowable Load Factor is less than 100% of Rated Power.
Allowable Cruising Speed is less than 100% if Rated Speed.
Operating hours is unlimited per year.

Typical Vessel Application:

Fishing Boats, Cargo Boats, Pusher Boats

※Standard Conditions (ISO 3046)
Fuel: ASTM D975 No. 2-D
※Output (kW) Shows Engine Flywheel End.

Engine Specification

Model			S6U-MPTK	S8U-MPTK	S12U-MPTK	S16U-MPTK
Type			4 stroke cycle, water cooled, diesel engine turbocharged with air-cooler (inter-cooler type)			
Combustion type			Direct injection			
Cylinder numbers			In-line 6	In-line 8	V-12	V-16
Piston bore × stroke		mm	240 × 260			
Total displacement		liter	70.6	94.1	141.2	188.2
Continuous rating output	Medium duty	kW/rpm	1119/1100	1492/1100	2238/1100	2984/1100
	Heavy duty	kW/rpm	1007/1060	1343/1060	2014/1060	2686/1060
Piston speed			9.5 m/s/1100 rpm			
Fuel oil			Diesel fuel oil (ASTM No. 2-D)			
Engine starting			Compressed air starting			
Lubricating system			Forced lubrication by gear pump			
Fuel consumption		g/kWh	200	204	200	204
Lubricating oil			API service grade CF class			
Turbocharger			MHI Original			
Governer			Woodward UG25+ (Electric) / UG8L (Hydraulic)			
Front PTO			<850 kW		<1000 kW	
Rotation direction			Counter-clockwise viewed from flywheel side			
L × W × H		mm	3211 × 1403 × 2104	4065 × 1539 × 2192	3562 × 1910 × 2374	4628 × 1833 × 2473
Dry weight		kg	8350	11000	15500	20500

Noted
1. Capacity of front PTO should be judged based on torsional vibration calculation results.
2. Cooling water specification: sea & fresh water
3. Total kinematic chain must be finalized after doing torsional vibration calculation by person or company who take responsibility of the kinematic chain
4. Flexible coupling must be adopted.
5. Dimensions and weight may vary based on selected engine configuration
6. Fuel consumption value at 100% rated power with g/kWh.
   Fuel consumption is based on ISO3046/1 with 5% torelance at rated power, weighing 836 g/liter based on the regulation of JIS (Japanese Industrial Standards) and a LHV of 42780 kJ/kg, exclude pumps.

DNV MGMT. SYS. RvA C 024 ISO 9001 REGISTERED FIRM DNV Certification B.V., THE NETHERLANDS

DNV MGMT. SYS. RvA C 425 ISO 14001 REGISTERED FIRM DNV Certification B.V., THE NETHERLANDS

XMH

YOUR CONNECTION TO THE RIGHT MACHINE

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Please refer product manual for correct usage.

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