

# MITSUBISHI MARINE ENGINE

# SU SERIES

## 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
	Heavy duty kW/rpm	1007/1060	1343/1060	2014/1060
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**

- Capacity of front PTO should be judged based on torsional vibration calculation results.
- Cooling water specification: sea & fresh water
- Total kinematic chain must be finalized after doing torsional vibration calculation by person or company who take responsibility of the kinematic chain
- Flexible coupling must be adopted.
- Dimensions and weight may vary based on selected engine configuration
- Fuel consumption value at 100% rated power with g/kWh.  
Fuel consumption is based on ISO3046/1 with 5% tolerance 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.



Information contained in this catalog is as of July, 2011. Specifications and equipments of product, and its appearance may be changed for improvement without prior notice. Please refer product manual for correct usage.

In case of application, please contact the below:



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# Tough Engine - The SU Engine from Mitsubishi

## S6U



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

## S8U



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

## S12U



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



### 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

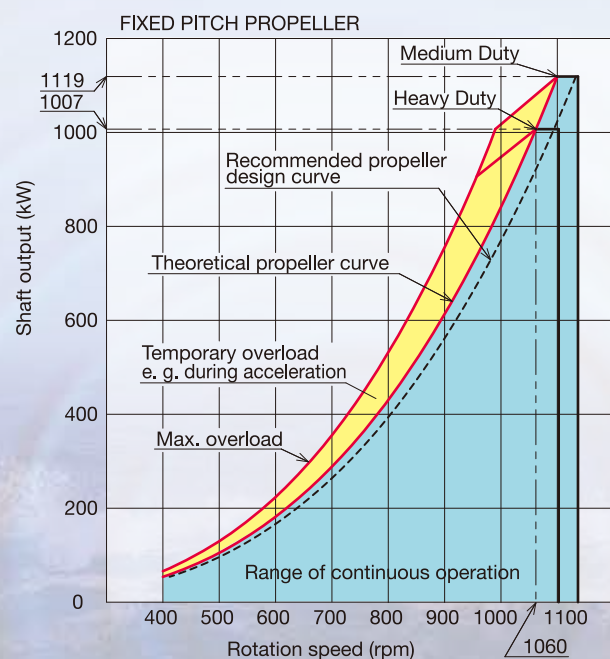
### Heavy Duty (HD)

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.

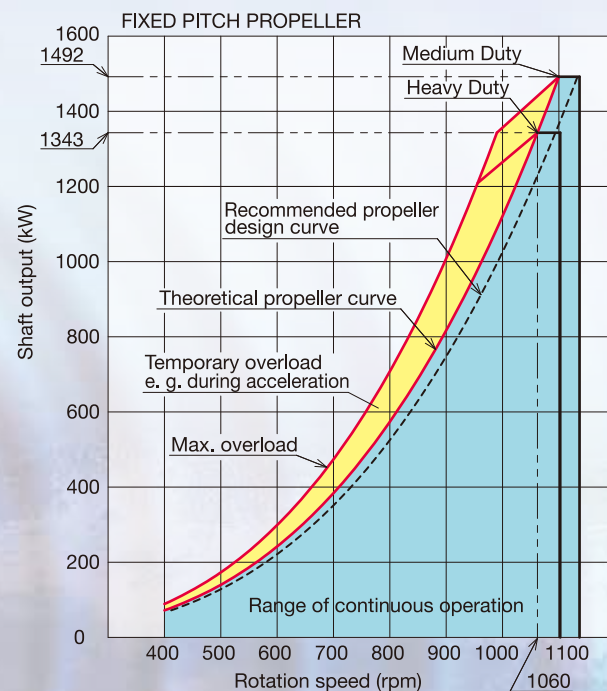
Typical Vessel Application:  
 Fishing Boats, Cargo Boats, Pusher Boats

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

### Performance Curve



### Performance Curve



### Performance Curve

