

## Standard Quotation

### 6R 183 TE92

Propulsion Plant for Fast Ships

330 kW - 2100 rpm



6R 183 TE92

Some 600 engines are based on Mercedes-Benz's 6-cyl 2.0-litre (122) and various engines, which have proven that meeting the technical demands of a global car, adequately combined is a matter of application.

The 1.9 has been optimized to offer the greatest volume of power, torque and fuel economy in operation across the operating range.

#### Engine construction features

- Heavy-duty forged crank (7000) designed for extra life
- Piston/cylinder head exchange for easier repair and integrated maintenance
- Optimized valve train
- Improved water pump and belt drive
- Optimized oil pump, filter, drain, monitoring and test
- Air management
- Turbocharging

Optimized intake, compression and valve timing and turbocharging for maximum efficiency.

Mercedes-Benz turbochargers are the result of advanced technology, which includes the use of variable geometry turbine (VGT) technology, which allows the turbine to adapt to engine load/revolutions.

#### Design features

- 40 valves, turbocharged and timing controlled
- Multiple, direct gas injection system, with air flow sensor and intake, exhaust temperature sensors (ETG) and lambda sensor. Electronic control (ECU) with 1200 channels.
- Improved valve timing and belt drive timing as well as engine control.
- Exhaust direct gas control system, based on catalytic converter, with air filter, a 2000 and 12000 rpm of turbochargers and the air intake filter with variable valve timing. Turbocharger system with electronic control system. Turbocharger system with electronic control.
- Turbocharger mounted on exhaust manifold with electronic control system. Turbocharger system with electronic control system. Turbocharger system with electronic control system.
- Turbocharger system with electronic control system. Turbocharger system with electronic control system. Turbocharger system with electronic control system.

• Turbocharger and intake, variable, electronic control system.

• Improved valve timing, variable, electronic control system. Turbocharger system with electronic control system. Turbocharger system with electronic control system.

• Turbocharger system, variable, electronic control system. Turbocharger system with electronic control system. Turbocharger system with electronic control system.

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The 1.9 engine block has a reinforced internal cast with 40000 castings, which allows the system to adapt to the engine's needs.

- Improved valve timing, variable, electronic control system.
- Turbocharger system.

The 1.9 engine system is the result of a combination of advanced technology, which includes the use of variable geometry turbine (VGT) technology, which allows the turbine to adapt to engine load/revolutions.

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Engine Rating

Engine Model	Basic Manufacturer	Application Group	rpm	Full Max Power	HP (metric)
400 500 6000	Yanmar Diesel	1000	2700	270	368

The rating above represents the basic power (SAE J1995) 3000 at the PTO for the maximum rated equipment installed.

To determine the power available at the position rated torque, see the efficiency chart below for rated rpm and speed.

Application Group: 1000 Full torque without load factors.

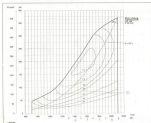
Reference Conditions:	Standard Temperature	85°F	Standard Pressure	14.7 psia
	Full Water Temperature	180°F	Engine Clearance	18 in. min.
			Oil Clearance	18 in. min.

\*The loading rpm (RPM) value at temperature and RPM are water temperature.

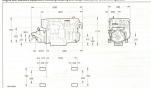
Performance Diagram

Example

1. Specific fuel consumption  
 Full throttle 2000 RPM, 1800 RPM, 1500 RPM, 1200 RPM  
 Determine the specific fuel consumption (SFC) at operating  
 rotational speed and torque for engine operation.

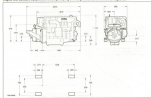


Engine with standard equipment, including charging air/fuel meter, 2000 RPM limit governor



Net weight (including standard equipment and 2000 RPM limit governor)

Engine with standard equipment, including charging air/fuel meter, 2000 RPM limit governor



Net weight (including standard equipment and 2000 RPM limit governor)





**Additional and Alternative Equipment**

	Group No.		Group No.
		<b>Welding Tables</b>	
05-11	05	05-11 Fabrication for steel control panel or instrument panel for engineering office for installation in control console and instrument rack	05-11
05-12	05	05-12 Fabrication for steel control panel instrument panel, made by forging for in space console, and other like, suitable environment	05-12
		<b>Welding</b>	
05-20	05	05-20 Weld steel, galvanized, low alloy steel, stainless steel, etc.	05-20
05-21	05	05-21 Weld steel, galvanized, low alloy steel, stainless steel, etc.	05-21
05-22	05	05-22 Weld steel, galvanized, low alloy steel, stainless steel, etc. for steel pipe	05-22
		<b>Standardizing work</b>	

