

MARINE DIESEL ENGINES



6AYM-ETE 555~610kW(755~829mhp)

To even further satisfy the expectation of workboat owners, Yanmar, with its long history as a supplier of high speed marine workboat engines, focused on the following:

Good Economy

Why? To achieve the desired workboat level of operating economy.
Result. Maximum fuel efficiency with low fuel consumption across a previously unheard of range of use conditions.

Lower Emissions

Why? To minimize adverse effect on the environment.
Result. Lower NO_x, SO_x, CO, less particulates, significantly less black smoke, particularly at idle or during hard acceleration.

High Torque

Why? To achieve the desired workboat responsiveness.
Result. Stable high torque in middle and high speed ranges for reliable work performance.

Excellent Reliability and Durability

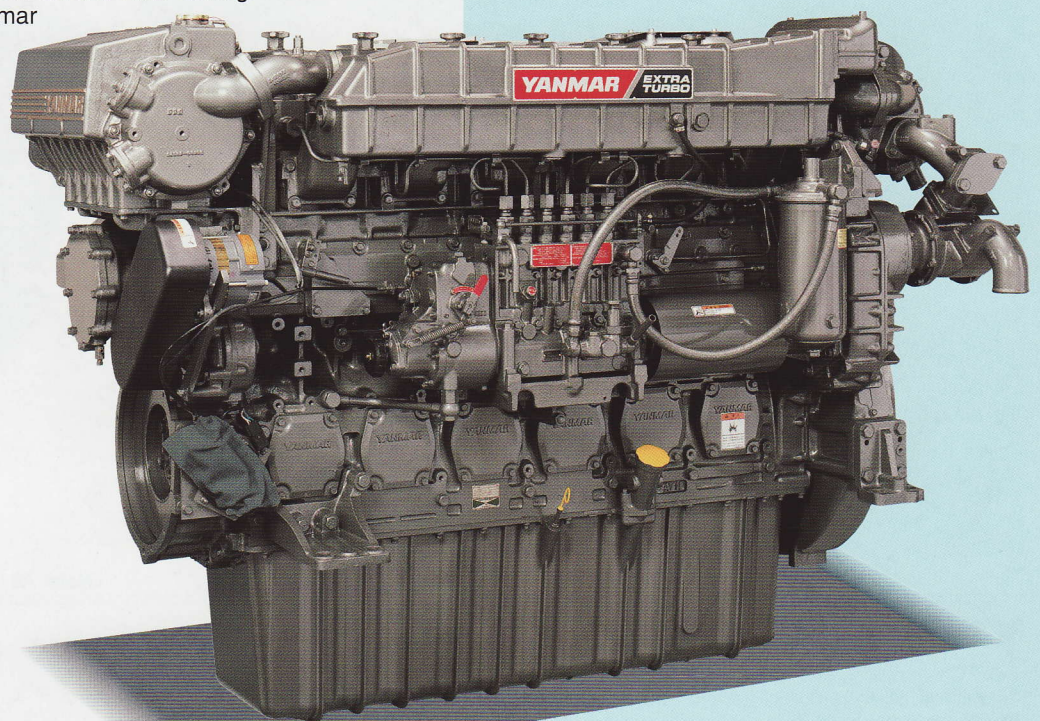
Why? To create a tough engine requiring minimum downtime.
Result. Outstanding engine durability made possible by extra-stable lube oil consumption and long life fuel valves at the tip of each injector.

Easy to Maintain

Why? Because it's a Yanmar
Result. The same compactness and ease of maintenance as ever

Outstanding Work Functions PLUS Cost & Time Saving:

The NEW LOOK 6-cylinder Yanmar
610 kW marine diesel Engine



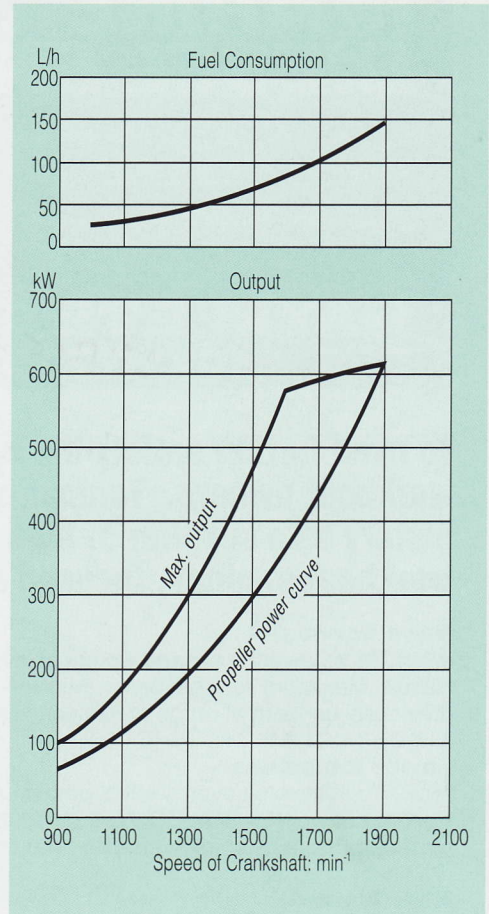
Photograph may show optional equipment.

ENGINE SPECIFICATIONS

Model	6AYM-ETE		
Type	4-cycle, vertical, turbo-charged diesel engine		
Number of cylinders	6 in-line		
Bore x stroke	mm	155 x 180	
Displacement	lit.	20.379	
Rated output	kW(hp)/min ⁻¹	M:610 (829)/1900 at flywheel	H:555(755)/1840 at flywheel
Fuel consumption	g/kW-h	202 (at rated output)	200 (at rated output)
Direction of rotation	Counter-clockwise viewed from stern		
Combustion system	Direct injection		
Governor	Mechanical		
Cooling system	Constant high temperature cooling system		
Volume of cooling fresh water	lit.	68 (coolers & jacket)	
Lubricating system	Wet sump system, forced lubrication by gear pump		
Volume of lubricating oil (in engine piping line : 20)	lit.	max.:91 min. : 48 (Standard oilpan) max.:53 min. : 31 (Shallow oilpan)	
Dry mass	kg	2365 (without marine gear)	
Starting motor	DC24V-7.0kW		
Alternator	DC24V-600W or 1000W		
Dimensions	Overall length mm	2000	
	Overall width mm	1305	
	Overall height mm	1430.5 (Standard oilpan)	1330.5 (Shallow oilpan)

Note: $1\text{hp} \approx 0.7355\text{kW}$ Rating are based on condition of 100 kPa, 30% relative humidity at 25°. Fuel rates: Specific gravity 0.835g/cc, Low calorific value 42700kJ/kg (10200 kcal/kg), Centane No.45, Fuel consumption has a tolerance of +3%

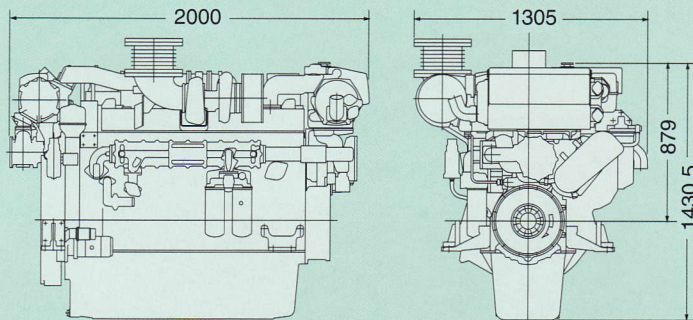
PERFORMANCE CURVES



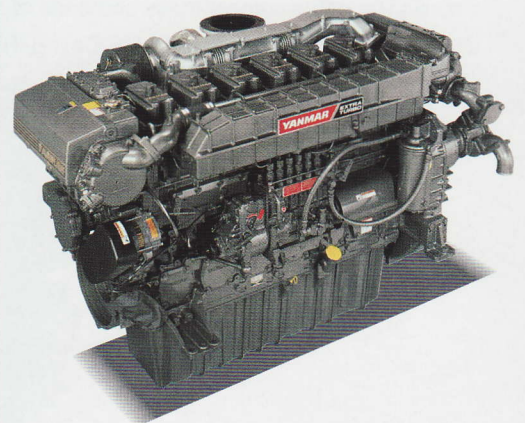
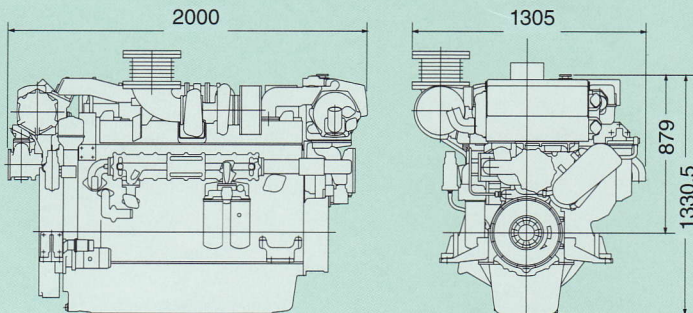
DIMENSIONS

Standard oilpan type

Unit: mm



Shallow oilpan type



Note: All data subject to alteration without notice.

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