





Mechanical Engine Control



Bestselling from 1977

YANMAR

MARINE DIESEL ENGINE

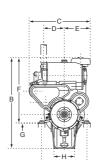
Engine Specifications							
Model	4CHE3	6CHE3	6CH-HTE3	6CH-WUTE			
Туре	4-cycle, Vertical, water cooled	natural aspirated, diesel engine	4-cycle, Vertical, Turbo-charged, water cooled diesel engine				
No. of cylinders, Bore × stroke mm	4 in-line, 105 × 125	6 in-line, 105 × 125					
Displacement lit.	4.330		6.494				
Ratedoutput kW(hp)/rpm	M:57.4(78)/2550	M:84.6(115)/2550	M:125(170)/2550	M:188 (255)/2550			
	L:62.5(85)/2600	L:95.6(130)/2600	L:140(190)/2600	L:206(280)/2600			
Emission	N/A	N/A	N/A	IMO Tier2			
Fuel consumption (Rating M) gr/kW·hr	252 at rated output	242 at rated output	232 at rated output	223 at rated output			
Direction of rotation	Counterclockwise viewed from stern (crankshaft)						
Combustion system	Direct injection						
Cooling system							
Cooling fresh water capacity lit.	16 +0.8L (Reservoir tank)	20 +0.8L (Reservoir tank)	24 +0.8L (Reservoir tank)	23 +0.8L (Reservoir tank)			
Lubricating system	Forced lubrication with gear pump						
Lubricating oil capacity lit.	15	18.5	18.5	23			
Lubricating oil grade	SAE30 or SAE40 at ambient temperature above 30 or above						
Starting system	Electric starting motor (DC 24V-4kW)						
Flywheel housing size	SAE #3 and 11-1/2 in.						
Dry weight (without marine gear) kg	500	630	675	720			
Marine Gear Specifications							
Engine Model	4CHE3	6CHE3	6CH-HTE3	6CH-WUTE			

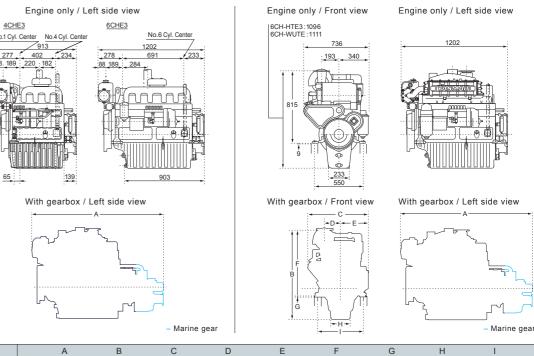
Engine Model	4CHE3		6CHE3		6CH-HTE3		6CH-WUTE	
Marine gear model	YX-30-2				YX-71			
Туре	Hydraulic multi-disc clutch							
Reduction ratio	2.03	2.55	2.96	3.48	2.07	2.58	2.91	3.53
Direction of rotation	Clockwise or counter-clockwise viewed from stern							
Dry weight kg	70			220				

Dimensions (Unit:mm)

Engine only / Front view

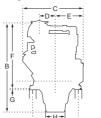
4CHE3





With gearbox / Rear view

65



Model	A	В	С	D	E	F	G	Н	I
4CHE3 × YX-30-2	1258	1022	688	232	292	735	9	232	510
6CHE3 × YX-30-2	1496	1018	690	233	300	737	9	233	550
6CH-HTE3 × YX-71	1600	1096	736	193	340	815	9	233	550
6 CH-WUTE \times YX-71	1600	1111	736	193	340	815	9	233	550

Rating definitions : hp=0.7355kW Ratings are based on conditions of 100kPa, 30% relative humidity at 25°C. L=For applications where use of rated power is less than 2 hours continuous out of every 5 hours and operation is less than 2000 hours per year. When combined with a correctly matched propeller which allows the engine rated speed to be achieved in a fully loaded vessel state, the reduced-power operation can be at or below 50 min⁻¹ of the rated speed. M=For applications where use of rated power is less than 10 hours continuous out of every 16 hours and operation is less than 3000 hours per ver. When combined with a correctly matched propelle which allows the engine rated speed to be achieved in a fully loaded vessel state, the reduced-power operation can be at or below 50 rpm of the rated speed. Fuel rates : Specific gravity 0.835g/cc, low calorific value 42700kj/kg(10200kcal/kg), Cetane No.45.

YANMAR POWER TECHNOLOGY CO., LTD.

Large Power Products Business

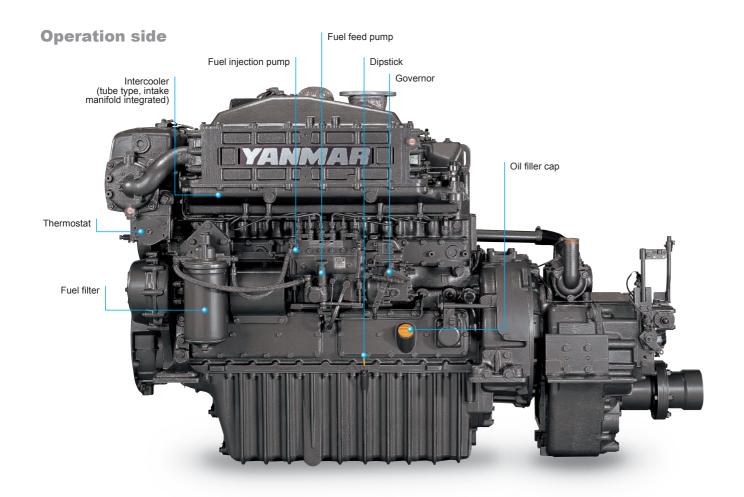
1-1-1,Nagasu-Higashidori,Amagasaki,Hyogo,Japan Tel: +81-6489-8069 Fax: +81-6489-1082 yanmar.com

Photograph may show optional equipment.



Note : All Data Subject to Change Without Notice. Please contact Yanmar or local distributor for the details of each model.

YANMAR, Providing Quality Propulsion Engine Packages for Over 60 Years.



High Torque

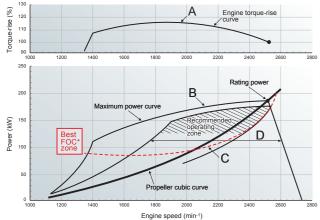
Excellent Torque-Rise Characteristics in High Speed and High Load Range Enable Stable Performance of Job Duties even at High Load

The Engine Performance Gives Following Advantages:

- 1. The engine torque-rise characteristics having much in reserve, (Line A) → Stable cruising with least speed reduction against sudden load changes.
- Wide Max. Power Range, (Line B)
 →A wide range propeller matching, from the passenger ship (light/medium duty) to tug boat (heavy duty), is possible.
- Min. Fuel Consumption Range is Wide, (Line C) Best FOC*zone
 →Economical with wide min. fuel consumption range both during cruising or performing job duties. * FOC: Fuel Oil Consumption

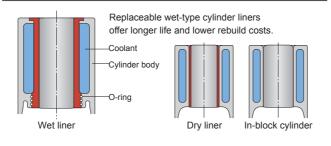
4. Wide Medium Load Range, (Line D)

 \rightarrow Produces stable engine performance even doing other job duties.



Engine speed (min⁻¹) * This figure indicates in case of 6CH-WUTE (M-Rating)

Toughness

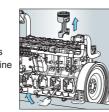


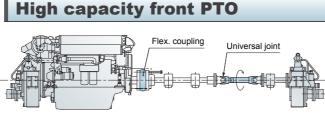
Lower Down Time

Easier Routine Inspection,

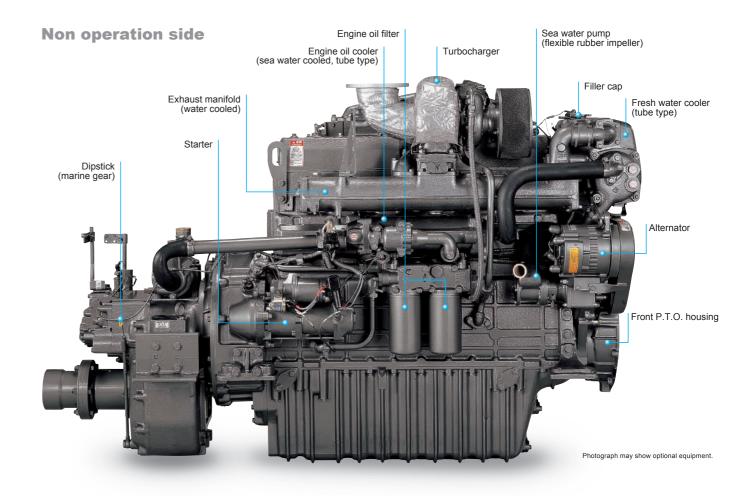
Easier Maintenance.

Large inspection windows on the side of the block allow in-site replacement of pistons. Lube Oil filter is easy-to-replace cartridge type. Full mechanical engine management avoids the chance of delicate and expensive electronics failing in hot, marine engine room conditions. 500 hours service interval.

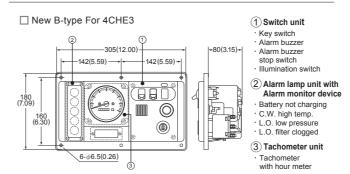




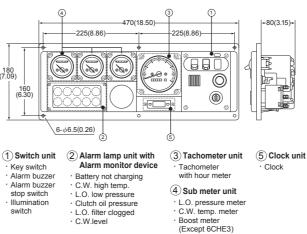
Contact your local Yanmar distributor for further information.



Instrument panel contains following items [standard] (Unit:mm)



□ New D-type For 6CHE3/6CH-HTE3/6CH-WUTE



YANMAR original marine gear that can be adapted to a wide range of applications



YANMAR provides our original gearbox, which enables us to supply total marine engineering & servicing to customers!

High-Performance Marine Gear YANMAR's original marine gear is designed to draw out best performance of YANMAR engines.

Cast Iron Gear Case For heavy duty applications.

Damping of Fluctuating Torque Proven, time tested, rubber block reduces the fluctuating torque that is input to the marine gear. It reduces rattling and prevents torsional vibration to protect the power transmission parts.

Accessories Optional Trolling Device. Propeller shaft half coupling (counter flange) supplied as standard.