

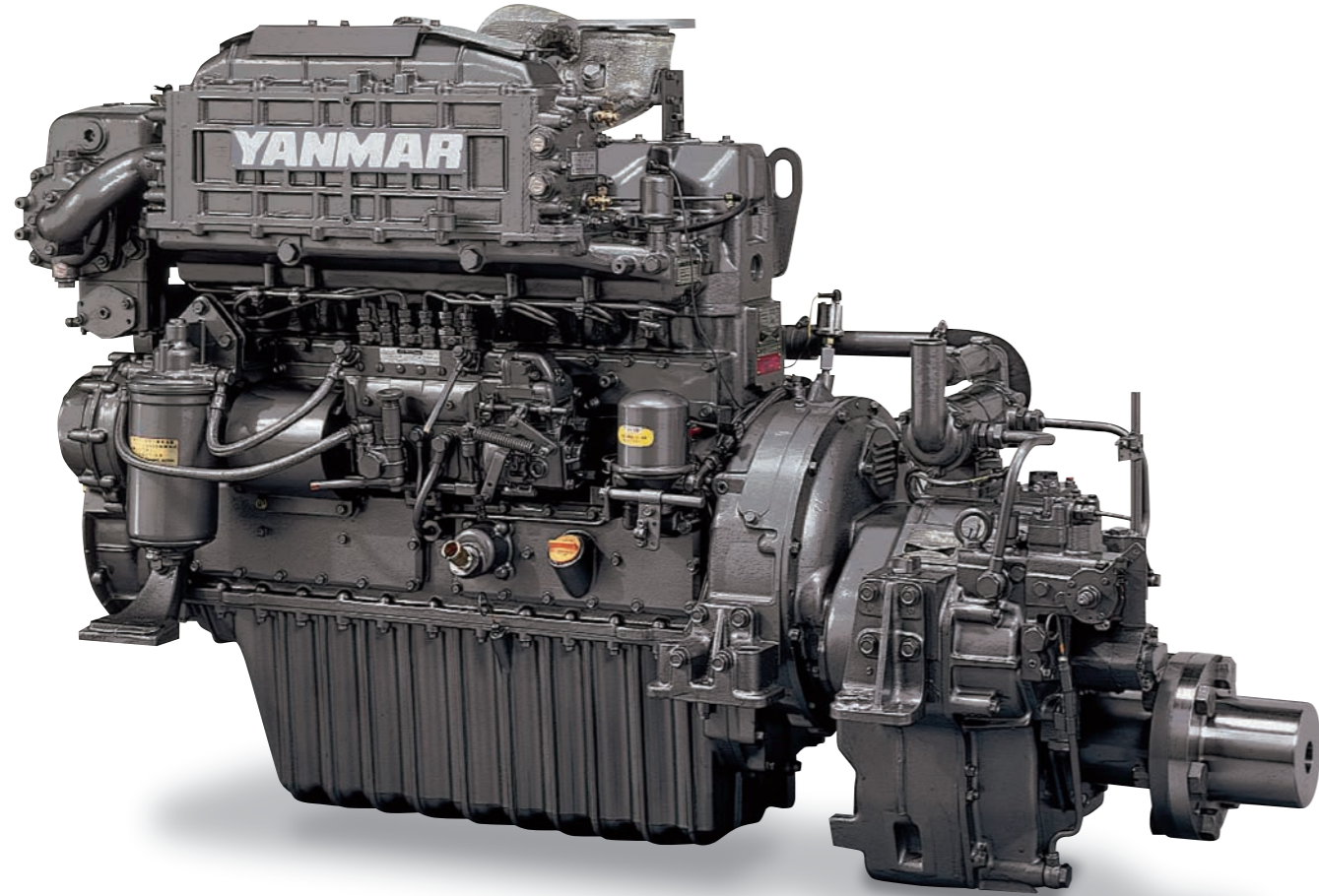


**YANMAR**

MARINE DIESEL ENGINE

# CHE Series

L•M-rating 57.4~206kW [ 78~280mhp ]



Photograph may show optional equipment.

Mechanical Engine Control

# 78mhp - 280mhp

Bestselling  
from  
1977

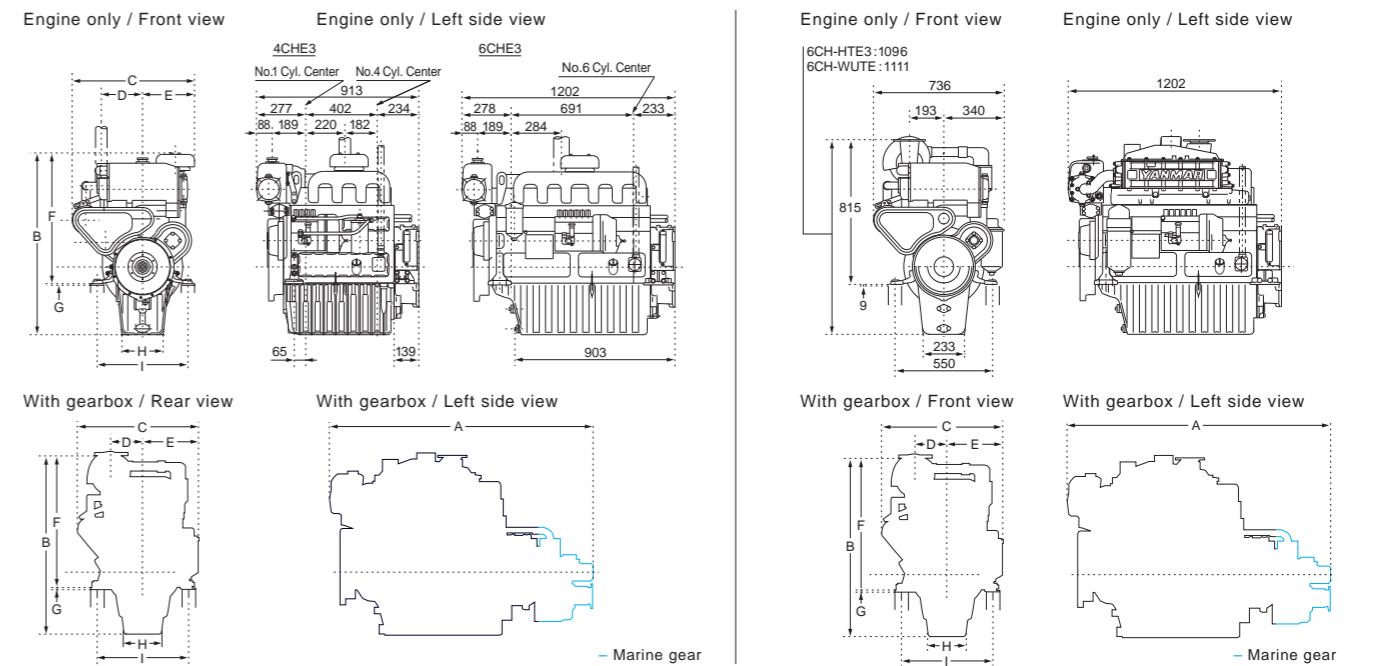
## Engine Specifications

Model	4CHE3	6CHE3	6CH-HTE3	6CH-WUTE
Type	4-cycle, Vertical, natural aspirated, water cooled diesel engine		4-cycle, Vertical, Turbo-charged, water cooled diesel engine	
No. of cylinders, Bore x stroke mm	4 in-line, 105 x 125		6 in-line, 105 x 125	
Displacement lit.	4.330		6.494	
Rated output kW(hp) / rpm	M:57.4 (78) / 2550 L:62.5 (85) / 2600	M:84.6 (115) / 2550 L:95.6 (130) / 2600	M:125 (170) / 2550 L:140 (190) / 2600	M:188 (255) / 2550 L:206 (280) / 2600
Emission	N/A		N/A	
Fuel consumption (Rating M) gr/kW·hr	252 at rated output		232 at rated output	
Direction of rotation	Counterclockwise viewed from stern (crankshaft)			
Combustion system	Direct injection			
Cooling system	With Heat exchanger			
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
Marine gear model	YX-30-2		YX-71	
Type	Hydraulic multi-disc clutch			
Reduction ratio	2.03	2.55	2.96	3.48
Direction of rotation	Clockwise or counter-clockwise viewed from stern			
Dry weight kg	70		220	

## Dimensions (Unit : mm)



Model	A	B	C	D	E	F	G	H	I
4CHE3 x YX-30-2	1258	1022	688	232	292	735	9	232	510
6CHE3 x YX-30-2	1496	1018	690	233	300	737	9	233	550
6CH-HTE3 x YX-71	1600	1096	736	193	340	815	9	233	550
6CH-WUTE x 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<sup>-1</sup> 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 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 rpm of the rated speed.  
 Fuel rates : Specific gravity 0.835g/cc, low calorific value 42700kJ/kg(10200kcal/kg), Cetane No.45.

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

