

Photograph may show optional equipment.

Mechanical Engine Control



Bestselling from 1977

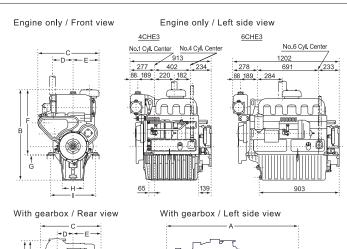
Engine Specifications

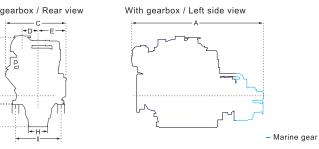
| Model | 4CHE3 | 6CHE3 | 6CH-HTE3 | 6CH-WUTE | | |
|-------------------------------------|---|-------------------------------------|--|---------------------------|--|--|
| Туре | | natural aspirated, diesel engine | 4-cycle, Vertical, Turbo-charged, water cooled diesel engine | | | |
| No. of cylinders, Bore × stroke mr | 4 in-line, 105 × 125 | | | | | |
| Displacement li | 4.330 | 6.494 | | | | |
| Ratedoutput kW(hp)/rpr | 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·h | 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 | . 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) k | 500 | 630 | 675 | 720 | | |

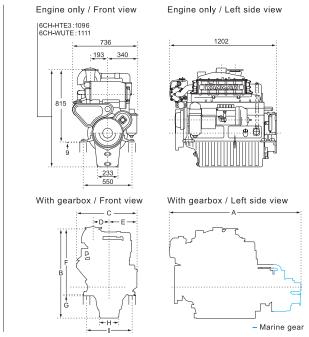
Marine Gear Specifications

| manno ocar opcomoducióno | | | | | | | | |
|--------------------------|--|------|-------|------|----------|------|----------|------|
| 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)







| Model | А | В | С | D | Е | 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 |
| 6CH-WUTE × 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 300 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 42700k//kg(10200kcal/kg), Cetane No.45.

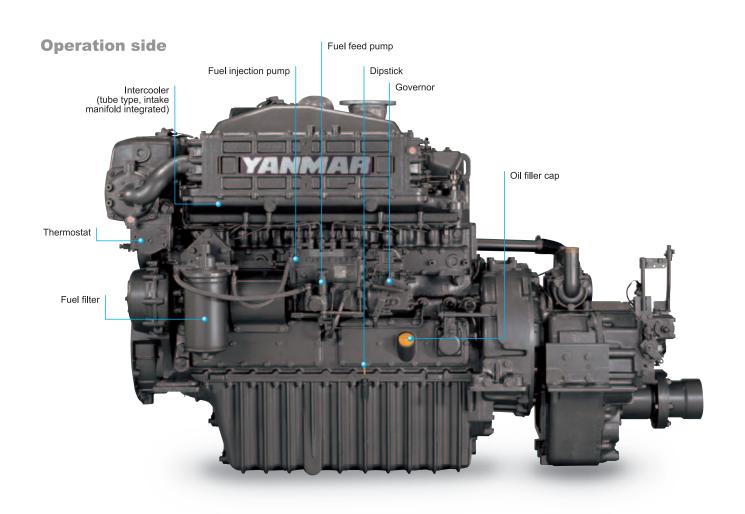
YANMAR CO., LTD.

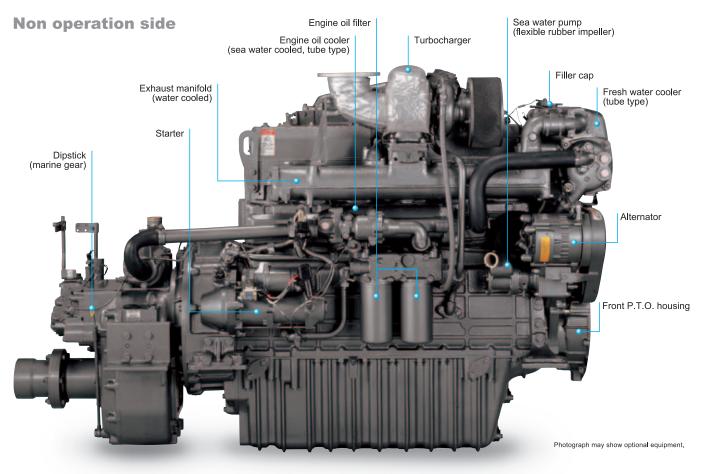
Marine Operations Division.

5-3-1,Tsukaguchi Honmachi Amagasaki, Hyogo, Japan Tel: +81-6-6428-3261 Fax: +81-6-6421-3171 yanmar.com

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.



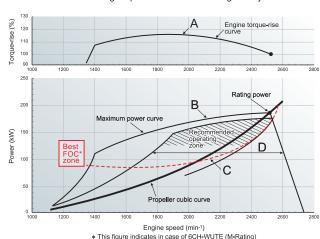


High Torque

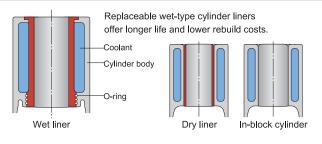
Excellent Torque-Rise Characteristics in High Speed and High Load Range Enable Stable Performance of Job Duties even at High Load

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.
- 2. 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.
- 3. 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) →Produces stable engine performance even doing other job duties.



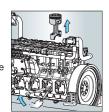
Toughness



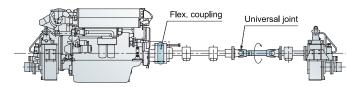
Lower Down Time

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.



High capacity front PTO



Contact your local Yanmar distributor for further information.

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

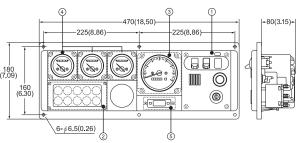
☐ New B-type For 4CHE3 · Alarm buzzer · Alarm buzzer 6-66.5(0.26)

1 Switch unit Key switch

- stop switch Illumination switch
- 2 Alarm lamp unit with Alarm monitor device Battery not charging
- C.W. high temp.
 L.O. low pressure
 L.O. filter clogged
- 3 Tachometer unit Tachometer

(5) Clock unit

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



(1) Switch unit Kev switch

Illumination

- (2) Alarm lamp unit with Alarm monitor device
- · Alarm buzzer · Alarm buzzer Battery not charging C.W. high temp. stop switch

· C.W.level

- L.O. low pressure · Clutch oil pressure · L.O. filter clogged
- (3) Tachometer unit Tachometer

4 Sub meter unit

· L.O. pressure meter · C.W. temp. meter

Boost meter (Except 6CHE3)

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.