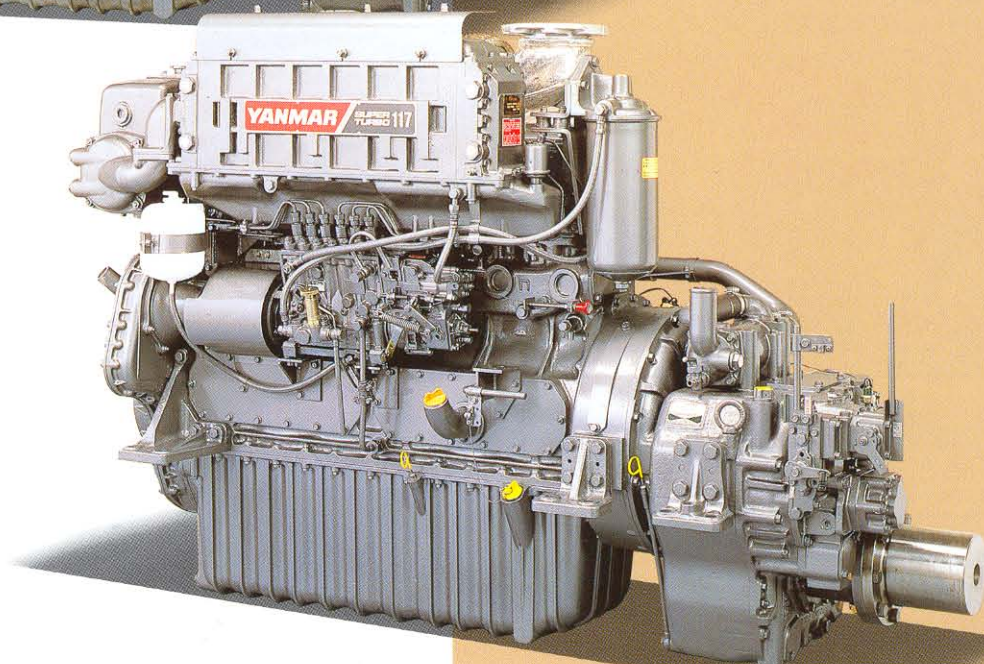
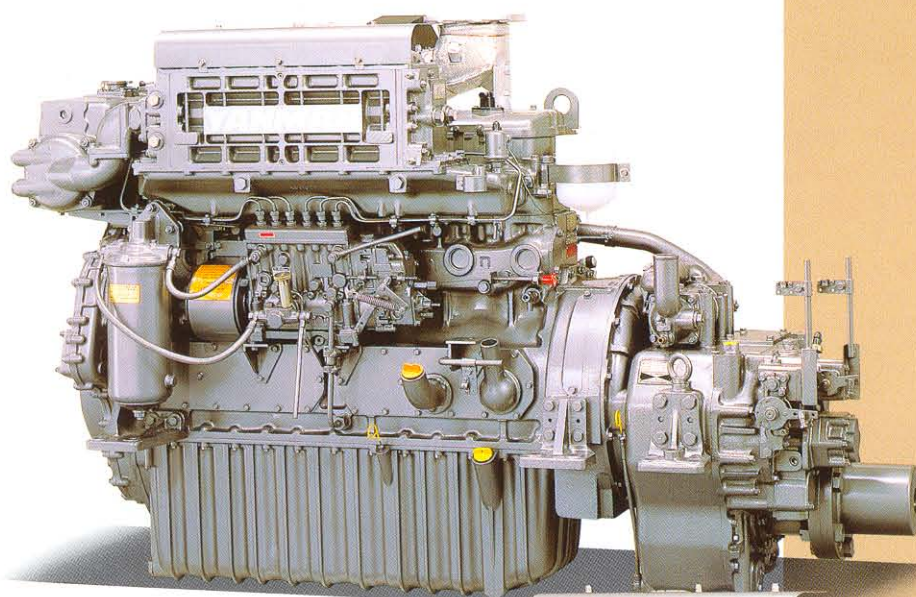


# MARINE DIESEL ENGINES

**6GH series**  
243~333kW(330~453hp)

# YANMAR



Photograph may show optional equipment.

# The Price of Workboat Power

Triumphs in the technology of diesel engineering make this popular engine a better-than-ever worker.

Without taking any more of your hard-earned money it gives you a bundle more work. It accumulates decades of developments and tops them off with the cream of modern systems to cut down on size, weight and price. Several important features help the 6GH series to achieve this:

- A new fuel pump increases pressure and timing accuracy to a remarkable degree, resulting in super-combustion with every stroke. This creates a significant power increase.
- With four valves in each cylinder it makes sure you get totally efficient air feed and gas exhaust.
- Advanced materials in critical parts smoothly handle the higher performance of the 6GH series.
- A turbocharger and intercooler give an extra boost to efficiency levels.
- Innovations proven in the past, such as constant temperature cooling, quick inspection hatches and other special Yanmar features help the owner keep his engine in tip-top, cost-cutting condition.

## ENGINE SPECIFICATIONS

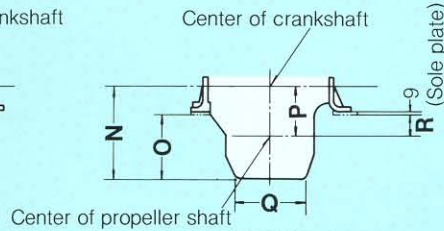
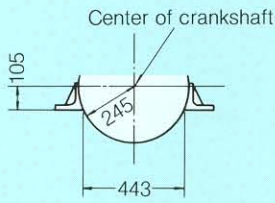
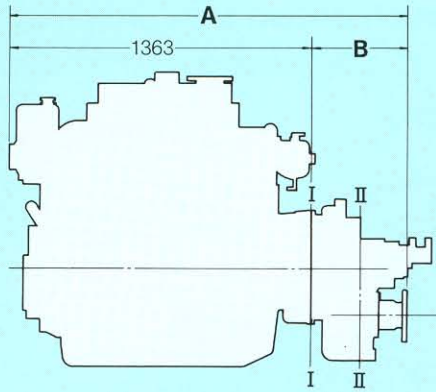
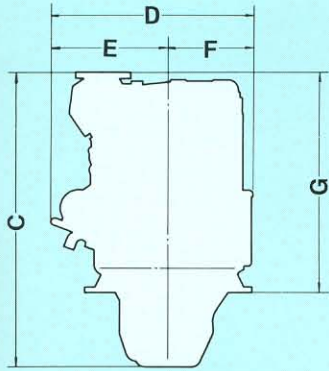
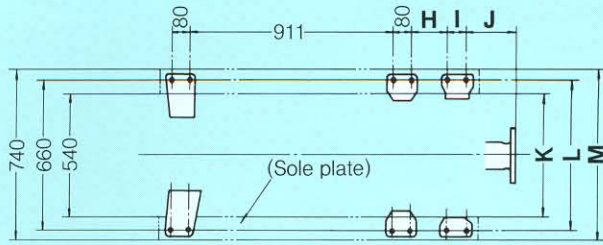
Model		6GH-UTE (with marine gear)	6GHM-UTE (without marine gear)	6GHA-STE (with marine gear)	6GHAM-STE (without marine gear)
Type		4-cycle, vertical, turbo-charged, diesel engine			
Number of cylinders		6 in-line			
Bore × stroke		mm(in.) 117.9 × 140 (4.64 × 5.51)			
Displacement		ℓ (cu.in.) 9.171(559.7)			
Output kW(hp)/rpm	Rated	243(330)/2250	250(340)/2250	283(385)/2250	294(400)/2250
	Max.	276(375)/2350	284(386)/2350	324(440)/2350	333(453)/2350
Fuel consumption		gr/kW•hr 217	210	217	210
Direction of rotation (crankshaft)		Counterclockwise viewed from stern			
Combustion system		Direct injection			
Cooling system		Fresh water cooling with sea water & fresh water pumps			
Lubricating system		Forced lubrication with gear pump			
Starting system		Electric starting motor (DC 24V)			
Dry weight		kg(lbs) 1380(3042)[with YX-120]	1060(2337)	1400(3086)[with YX-120]	1080(2381)

## MARINE GEAR SPECIFICATIONS

Model	YX-120				YX-120L	
Type	Hydraulic multi-disc clutch, wet type					
Reduction ratio (forward)	2.03	2.57	3.04	3.55	4.00	4.59
Propeller shaft speed (at rated) rpm	1108	875	740	634	563	490
Direction of rotation (prop. shaft)	Clockwise viewed from stern					
Dry weight	kg(lbs) 320(705)				400(882)	

# Gets More Appealing

## DIMENSIONS



SECTION I-I

SECTION II-II

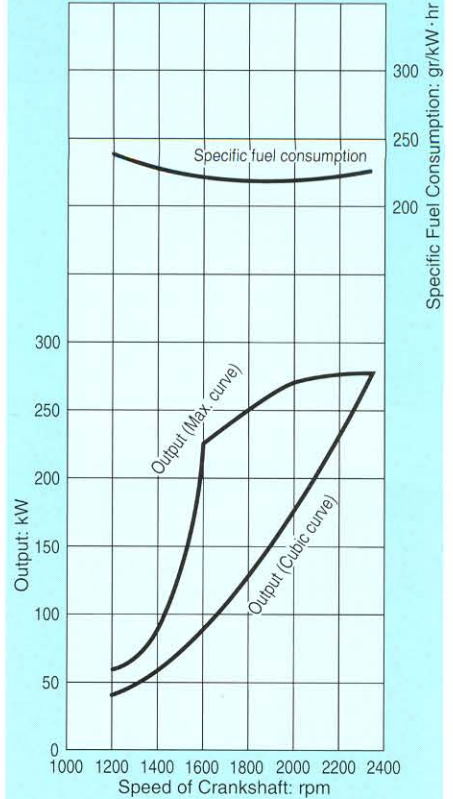
Unit = mm

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
6GHM-UTE	1363	—	1247.5	898.5	485	413.5	921.5	—	—	—	—	—	—	—	—	—	—	—
6GH-UTE × YX120	1762	420	1247.5	898.5	485	413.5	921.5	158	90	152	540	660	740	398	293	208	317	103
6GH-UTE × YX120L	1796	454	1326.5	898.5	485	413.5	921.5	154	120	210	570	690	770	510	405	258	350	135

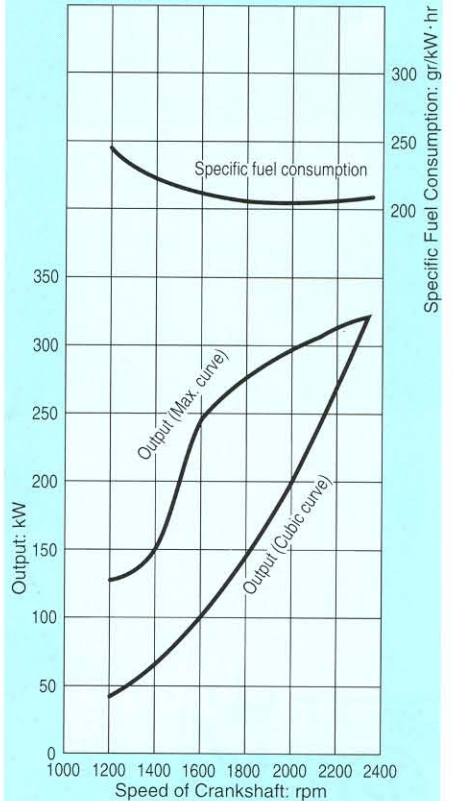
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
6GHAM-STE	1363	—	1409	927.5	514	413.5	1083	—	—	—	—	—	—	—	—	—	—	
6GHA-STE × YX120	1863	500	1409	927.3	514	413.5	1083	158	90	202	540	660	710	398	277	208	317	94
6GHA-STE × YX120L	1808	445	1409	927.5	514	413.5	1083	154	120	210	590	690	740	510	396	258	350	144

## PERFORMANCE CURVES

6GH-UTE



6GHA-STE



# ACCESSORIES

Remarks: ● Standard △ Optional

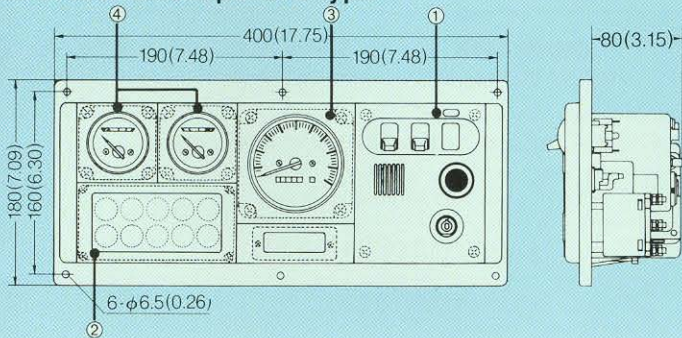
Item	Name of accessories	Q'ty	6GH-UTE	6GHA-STE
Installation	Installation plate for wooden boat	2	△	△
	Adjusting shim for engine	1 set	△	△
	Adjusting shim for marine gear	1 set	△	△
	Installation bolt kit	1 set	△	△
	Jack bolt	1 set	△	△
	Chock liner, bolt & nut for steel boat	1 set	△	△
	B-type V-pully for front P.T.O	1 set	△	△
Air	Exhaust gas pipe	1	△	△
	Breather hose with fittings	1 set	●	●
	Exh. flexible joint (T/C out)	1	●	●
	Exh. thermometer (T/C inlet)	2	△	△
	Intake air filter	1	●	●
	Exh. gas silencer	1	△	△
	Engine room ventilator	1 set	△	△
Fuel oil	Drain separator	1	●	●
	Fuel sedimentary filter	1	△	△
	Fuel oil pipe	1	△	△
Lubrication oil	Evacuation hand pump	1	●	●
	Duplex type oil filter (mounted on eng.)	1	△	△
Cooling system	Kingston cock	1	△	△
	Kingston valve	1	△	△
	Raw water filter (simplex)	1	△	△
	Bilge pump (electric type)	1	△	△
	Fresh water sub-tank	1	●	●
	Raw water pipe	1	△	△

Item	Name of accessories	Q'ty	6GH-UTE	6GHA-STE
Electric device	Battery switch	1	△	△
	Charging Alternator	1	●	●
	Starting motor (1-pole type)	1 set	●	●
	Starting motor w/harness (2-pole type)	1 set	△	△
	Battery	1 set	△	△
	Remote control	Control head (2-handle type)	1	△
Control head (1-handle type)		1	△	△
Push-pull cable (~ 10m)		2	△	△
Push-pull cable (12m ~ 20m)		2	△	△
Wireharness (4m x Q'ty)			△	△
Instrument panel for wheel house (D-type)		1	●	●
Dual type instrument panel (C-type)		1	△	△
Connection wireharness for dual panel		1		
Engine panel (mounted on eng.)		1	△	△
Emergency stop push button with solenoid		1	△	△
Others	Over speed relay	1	△	△
	Half coupling (rough bore type)	1	●	●
	Standard spare parts	1	●	●
	Standard tool kit	1	●	●
	Operation manual	1	●	●
	Parts book for engine	1	△	△
	Service manual	1	△	△

## INSTRUMENT PANEL CONTAINS FOLLOWING ITEMS

Unit: mm (in.)

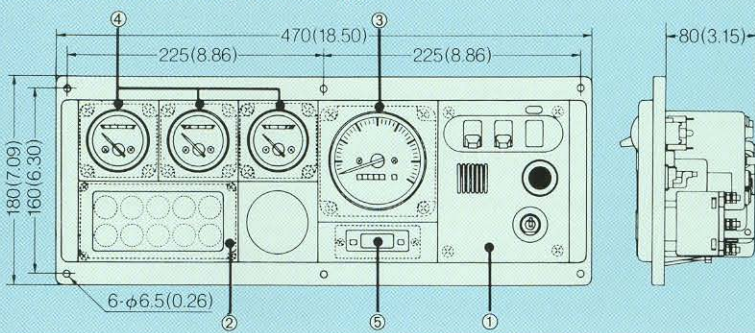
### Detail of instrument panel C-type



- ① **Switch unit**
  - Key switch
  - Alarm buzzer
  - Alarm buzzer stop switch
  - Illumination switch
- ② **Alarm lamp unit with Alarm monitor device**
  - Battery not charging
  - C.W. high temp.
  - L.O. low pressure
  - Clutch oil pressure
  - L.O. filter clogged
  - C.W. level

- ③ **Tachometer unit**
  - Tachometer with hour meter
- ④ **Sub meter unit**
  - L.O. pressure meter
  - C.W. temp. meter

### Detail of instrument panel D-type



- ① **Switch unit**
  - Key switch
  - Alarm buzzer
  - Alarm buzzer stop switch
  - Illumination switch
- ② **Alarm lamp unit with Alarm monitor device**
  - Battery not charging
  - C.W. high temp.
  - L.O. low pressure
  - Clutch oil pressure
  - L.O. filter clogged
  - C.W. level

- ③ **Tachometer unit**
  - Tachometer with hour meter
- ④ **Sub meter unit**
  - L.O. pressure meter
  - C.W. temp. meter
  - Boost meter (Turbo)
- ⑤ **Clock unit**
  - Clock

Note: All data subject to alteration without notice.

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