



MARINE DIESEL ENGINES

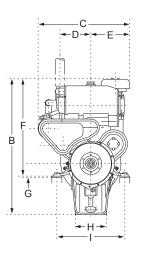
4CHE3 Series

BESTSELLING FROM 1977 | Mechanical Engine Control

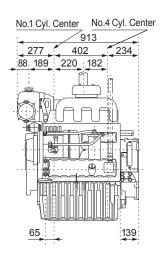
Configuration	4-cycle, Vertical, natural aspirated, wate	r cooled diesel engine		
Maximum output at crankshaft	L: 62.5 kW@2600 rpm	[85 mhp@2600 rpm]		
	M: 57.4 kW@2550 rpm	[78 mhp@2550 rpm]		
Displacement	4.330 ltr			
Bore x stroke	105 mm × 125 mm			
Cylinders	4 in-line			
Combustion system	Direct injection			
Starting system	Electric starting motor [DC 24V - 4 kW]			
Flywheel housing size	SAE #3 and 11 - 1/2 inch			
Cooling system	With Heat exchanger			
Cooling fresh water capacity	16 ltr + 0.8 ltr [Reservoir tank]			
Lubrication system	Forced lubrication with gear pump			
Lubricating oil capacity	15 ltr			
Lubricating oil grade	SAE30 or SAE40 at ambient temperature	e above 30 or above		
Direction of rotation [crankshaft]	Counterclockwise viewed from stern			
Dry weight without gear	500 kg			
Fuel consumption [at rated output]	M: 252 gr/kW hr			

DIMENSIONS [UNIT: MM]

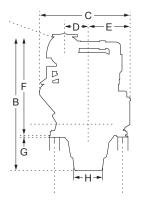
Front view, engine only



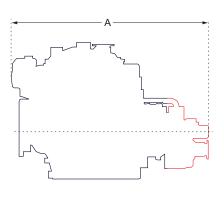
Left side view, engine only



Rear view with gearbox YX-30-2



Left side view with gearbox YX-30-2

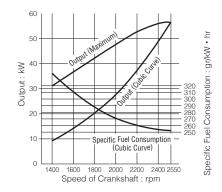


Model	Α	В	С	D	E	F	G	Н	1
4CHE3 × YX-30-2	1258	1022	688	232	292	735	9	232	510









Rating definitions: hp = 0.7355 kW Ratings are based on conditions of 100 kPa, 30% relative humidity at 25 °C.

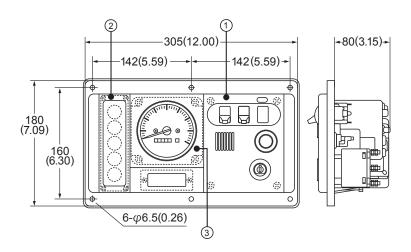
L= For applications where use of rated power is less than 2 hours continuous out of every 5 hours and operation is less than 2000 hours per year. When combined with a correctly matched propeller which allows the engine rated speed to be achieved in a fully loaded vessel state, the reduced-power operation 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 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 0.835 g/cc, low calorific value 42700 kj/kg [10200 kcal/kg], Cetane No. 45.

MARINE GEARS SPECIFICATIONS

Model		YX-30-2					
Туре		Hydraulic multi-disc clutch					
Dry Weight		70 kg					
Reduction Ratio [Ahead]	2.03	2.55	2.96	3.48			
Direction of rotation [propeller shaft]		Clockwise or counter-clockwise viewed from stern					

INSTRUMENT PANEL B-TYPE [UNIT: MM]



- 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 pressureL.O. filter clogged

- 3 Tachometer unit
- Tachometer with hour meter