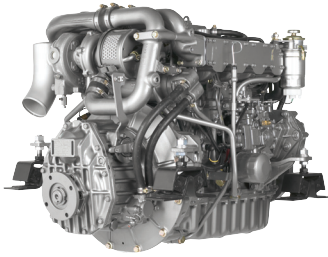


# Yanmar type 4JH3-DTE

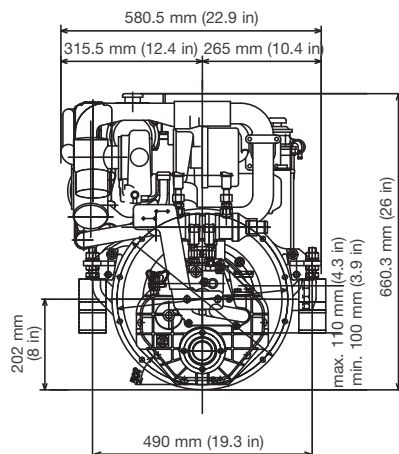


<b>Configuration</b>	4-stroke, vertical, water cooled diesel engine
<b>Maximum output at crankshaft</b>	* 89.1 kW (121 mhp) / 3800 rpm
<b>Continuous rating output at crankshaft</b>	85.3 kW (116 mhp) / 3700 rpm
<b>Displacement</b>	1.995 L (122 cu in)
<b>Bore x stroke</b>	84 mm x 90 mm (3.31 in x 3.54 in)
<b>Cylinders</b>	4
<b>Combustion system</b>	Direct injection
<b>Aspiration</b>	Turbocharged with intercooler
<b>Starting system</b>	Electric starting 12 V - 1.4 kW
<b>Alternator</b>	12 V - 80 A
<b>Cooling system</b>	Fresh water cooling by centrifugal fresh water pump and rubber impeller sea water pump
<b>Lubrication system</b>	Enclosed, forced lubricating system
<b>Direction of rotation (crankshaft)</b>	Counter clockwise viewed from stern
<b>Dry weight without gear</b>	229 kg (504.8 lbs)
<b>Environmental</b>	EU RCD, US EPA Tier 2, BSO II & EMC, BSO II, SAV, EMC compliant and meet the 2003/44/EC emission requirements effective from 2006
<b>Engine mounting</b>	Rubber type flexible mounting

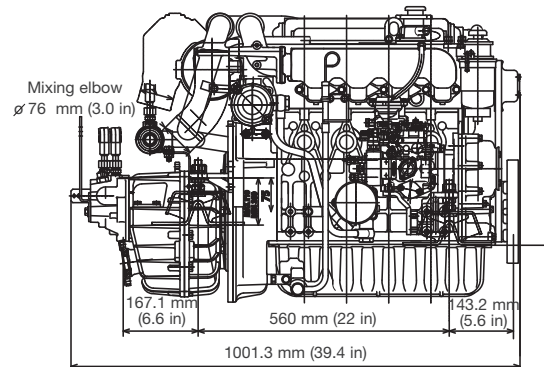
NOTE: Fuel condition: Density at 15°C = 0.84 g/cm<sup>3</sup>; 1kW = 1.3596 mhp = 1.3410 HP  
 \* Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665 : 2006)

**Dimensions** (For detailed line-drawings, please refer to our web-site: [www.yanmarmarine.com](http://www.yanmarmarine.com))

## Rear view

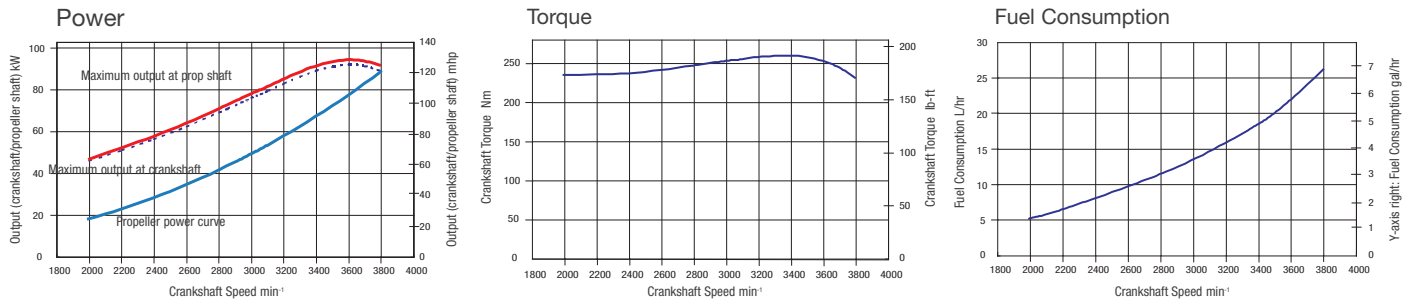


## Right side view



4JH3-DTE with ZF25A marine gear

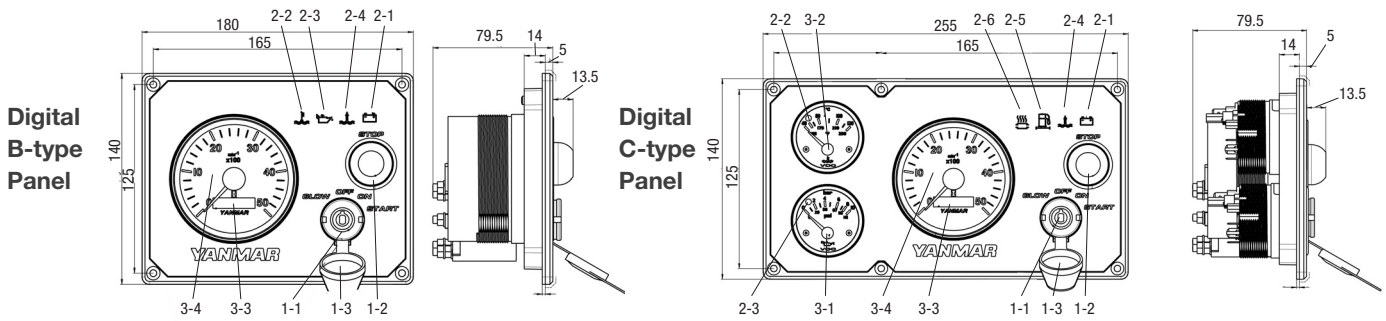
Performance Curves (Output is according ISO 8665)



Marine Gears/Drive

Model	KM4A1 (down angle: 8)		ZF25A	
Type	Hydraulic clutch		Hydraulic clutch	
Dry weight	31 kg (68 lbs)		30 kg (66 lbs)	
Reduction ratio (fwd/asn)	2.04/2.04	2.45/2.45	1.93/1.93	2.48/2.48
Propeller speed(fwd/asn)	1814/1814	1507/1507	1917/1917	1492/1492
Direction of rotation (propeller shaft - fwd)	Clockwise & counter clockwise viewed from stern		Clockwise & counter clockwise viewed from stern	
Dry weight engine and gear/drive	260 kg (573 lbs)		259 kg (571 lbs)	
Length engine and gear/drive	886 mm (35 in)		1001 mm (39 in)	

Instrument Panels



Function	Type of instrument panel	
	Digital B-type Panel	Digital C-type Panel
<b>① Switch unit</b>		
1-1 Key switch for GLOW/OFF/ON/START (4-position switch)	O	O
1-2 Push button switch for engine stop	O	O
1-3 Moisture cap for key switch	O	O
<b>② Alarm lamp unit</b>		
2-1 Battery low charge alarm	O	O
2-2 Coolant high temperature alarm	O	O
2-3 Lubricating oil low pressure	O	O
2-4 Water in sail drive seal alarm	O	O
2-5 Water in fuel filter alarm	X	O
2-6 Sea water insufficient flow alarm	X	O
<b>③ Meters</b>		
3-1 Lubricating oil pressure meter	X	O
3-2 Coolant temperature meter	X	O
3-3 Hour meter	O	O
3-4 Tachometer	O	O
<b>④ Audible alarm buzzer</b>	O	O

Note: O = Equipped on panel X = Not equipped on panel

Accessories

Standard Package

- Set of flexible mounts
- Exhaust mixing elbow (L-type)
- Expansion tank for fresh water cooling system
- Alternator 12 V - 80 A
- Electric stop solenoid

Optional

- Digital B-type instrument panel
- Digital C-type instrument panel
- Exhaust mixing elbow, U-type (high riser)
- Various extension wire harnesses
- Hot water fitting
- Secondary 80 A alternator

Texts and illustrations are not binding. Yanmar Marine reserves the right to introduce adaptations without prior notification.

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