



# 4JH4-HTE

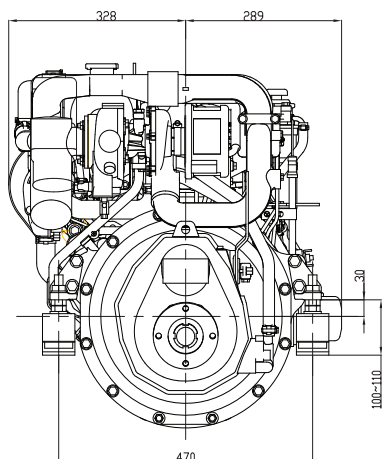
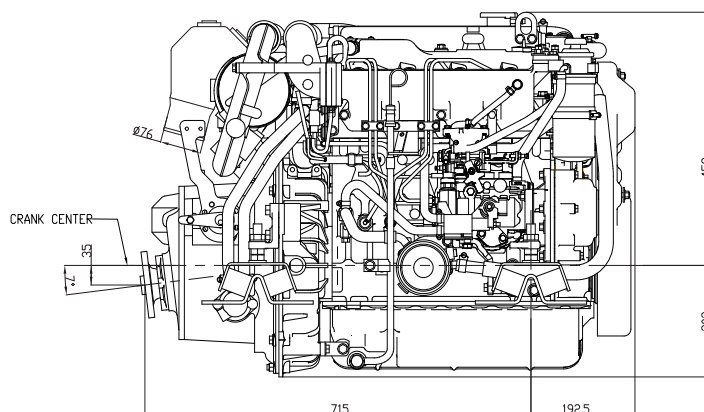
|                                     |                                                         |                     |
|-------------------------------------|---------------------------------------------------------|---------------------|
| Configuration                       | In-line, 4-stroke, vertical, water-cooled diesel engine |                     |
| Max. output at crankshaft*          | 80.9 kW@3200 rpm                                        | [110 mhp@3200 rpm]  |
| No. of cylinders                    | 4 cylinder                                              |                     |
| Displacement                        | 1.995 L                                                 | [121.7 cu in]       |
| Bore x stroke                       | 84 mm x 90 mm                                           | [3.31 in x 3.54 in] |
| Aspiration                          | Turbocharged & intercooled                              |                     |
| Combustion system                   | Direct injection, Bosch distributor type VE pump        |                     |
| Starting system                     | Electric starting 12V - 1.4 kW                          |                     |
| Engine management                   | Mechanical                                              |                     |
| Cooling system                      | Fresh water cooling by centrifugal fresh water pump     |                     |
|                                     | Seawater cooling by rubber impeller seawater pump       |                     |
| Alternator                          | 12V - 125A                                              |                     |
| Lubrication system                  | Enclosed, forced lubricating system                     |                     |
| Engine lube oil specifications      | API class: CD or higher, SAE grade: 10W-30 or 15W-40    |                     |
| Direction of rotation at crankshaft | Counterclockwise (CCW) viewed from stern                |                     |
| Dry weight without gear             | 217 kg                                                  | [478 lbs]           |
| Engine dimensions† L x W x H        | 933 x 661 x 659 mm                                      |                     |
| Emission compliance                 | EU: RCD 2, BSO II, EMC                                  | US: EPA Tier 2      |
| Flywheel housing size               | SAE #4                                                  |                     |
| Controls                            | Mechanical                                              |                     |

**NOTE:**Fuel condition: Density at 15°C = 0.84 g/cm<sup>3</sup>; 1 kW = 1.3596 mhp = 1.3410 HP

Technical data is according to ISO 8665: 2006/3046-1

\* Fuel temperature 40°C at the inlet of the fuel injection pump [ISO 8665]

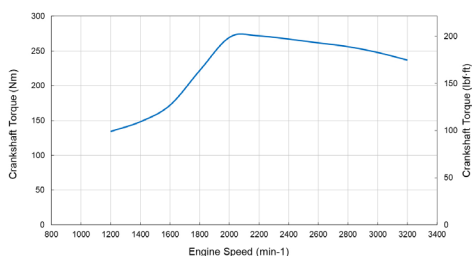
†Length includes KM4A2 marine gear (Dimensions may vary with other gears/elbow)

**DIMENSIONS****Rear view****Right side view**4JH4-HTE with KM4A2 marine gear  
(Not to be used for engine installation)

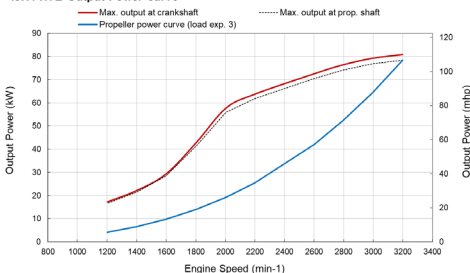


## PERFORMANCE CURVES

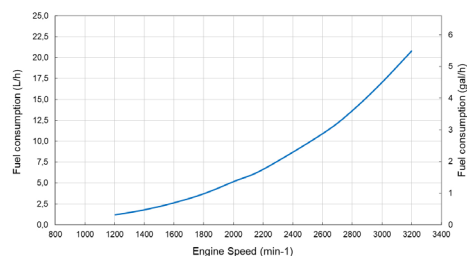
4JH4-HTE Torque curve



4JH4-HTE Output Power curve



4JH4-HTE Fuel consumption (propload exp 3.0)

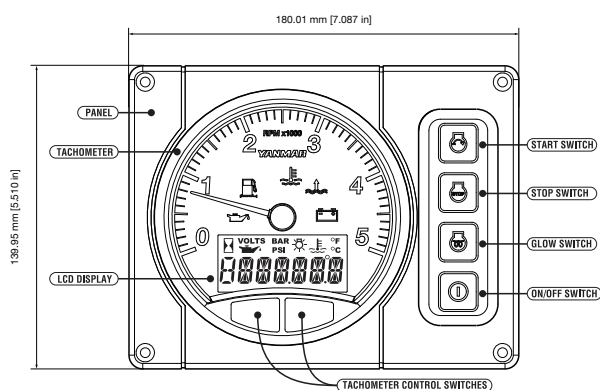


## MARINE GEAR\*

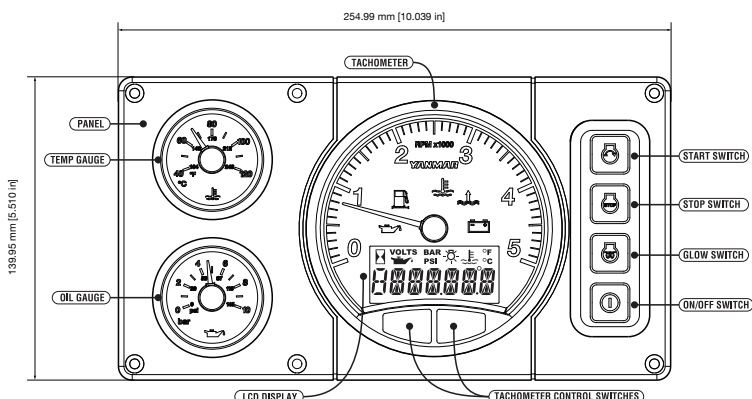
| Model                                     | ZF30M [parallel]      | KM4A2 [down angle: 7°]                         | KMH4A [down angle: 8°]       | ZF25A [down angle: 8°]        |
|-------------------------------------------|-----------------------|------------------------------------------------|------------------------------|-------------------------------|
| Clutch type                               | Mechanical multi-disc | Mechanical cone                                | Hydraulic multi-disc         | Hydraulic multi-disc          |
| Dry weight                                | 28 kg [61 lbs]        | 28.5 kg [63 lbs]                               | 30 kg [66 lbs]               | 30 kg [66 lbs]                |
| Reduction ratio [fwd/asn]                 | 2.15/2.64 2.70/2.64   | 1.47/1.47 2.14/2.14 2.63/2.63                  | 2.04/2.04 2.45/2.45          | 1.93/1.93 2.48/2.48           |
| Direction of rotation [viewed from stern] | Clockwise             | Clockwise & counterclockwise                   | Clockwise & Counterclockwise | Clockwise & counter clockwise |
| Lubrication system                        | Splash lubrication    | Splash lubrication                             | Trochoid pump                | Trochoid pump                 |
| Lube oil specifications                   | ATF                   | API class: CD or higher, SAE grade: #20 or #30 |                              | ATF                           |
| Max. lube oil capacity                    | 1.1 L                 | 2.0 L                                          | 2.0 L                        | 1.8 L                         |
| Dry weight - engine & gear                | 245 kg [540 lbs]      | 245.5 kg [541 lbs]                             | 247 kg [545 lbs]             | 247 kg [545 lbs]              |

\* Other marine gearboxes and configurations available upon request. Contact your local supplier for more information.

## INSTRUMENT PANELS



B20 panel



C30 panel

## ACCESSORIES

### Standard engine package

- Exhaust mixing elbow [L-type]
- Alternator 12V - 125A
- B20 panel
- Flexible mounts
- Expansion tank for fresh water cooling system
- Electric stop solenoid
- Belt safety cover

### Optional accessories

- High-riser mixing elbow [instead of L-elbow]
- Secondary alternator 12V - 130A or 24V - 75A including smart regulator
- C30 panel
- Extension wire harness [4m, 6m 10m]
- Dual harness [for 2nd station]
- TFX Sidemount control head

- SOLAS including Certificate [factory fit only]
- Hot water kit with cocks
- Extension saildrive leg [75 mm]
- Propeller cone nut kit SD60
- Air heater [glow]
- Trolling valve [only for KMH4A]

NOTE: All data subject to change without notice. Text and illustrations are not binding.