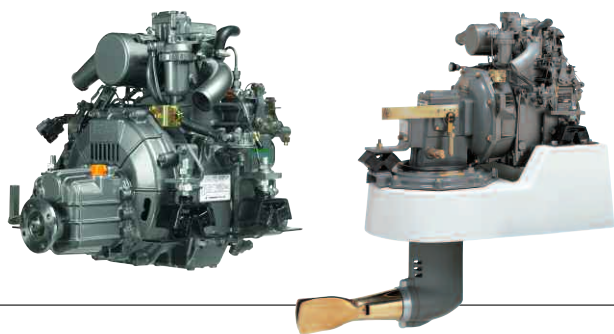


# Yanmar type 1GM10

## The Powerful Gem

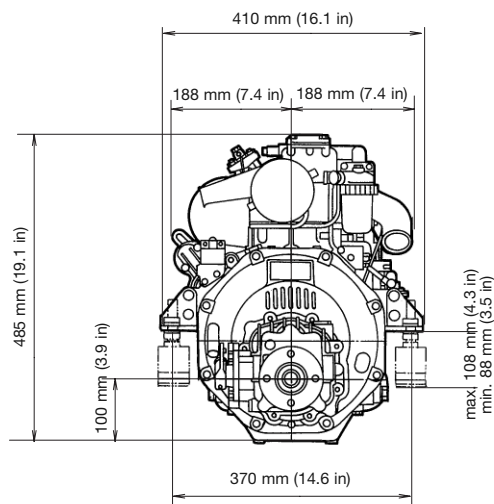


|   |  |
|---|--|
| <b>Configuration</b>                          | 4-stroke, vertical, raw water cooled diesel engine             |
| <b>Maximum output at crankshaft</b>           | * 6.7 kW (9 hp) / 3600 rpm<br>** 6.6 kW (9 hp) / 3600 rpm      |
| <b>Continuous rating output at crankshaft</b> | 5.9 kW (8 hp) / 3400 rpm                                       |
| <b>Displacement</b>                           | 0.318 L (19.41 cu in)  |
| <b>Bore x stroke</b>                          | 75 mm x 72 mm (2.95 in x 2.83 in)                              |
| <b>Cylinders</b>                              | 1  |
| <b>Combustion system</b>                      | Indirect injection (special swirl type pre-combustion chamber) |
| <b>Aspiration</b>                             | Natural aspiration   |
| <b>Starting system</b>                        | Electric starting 12 V - 1.0 kW with manual combination        |
| <b>Alternator</b>                             | 12 V – 35 A  |
| <b>Cooling system</b>                         | Direct seawater cooling by rubber impeller seawater 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>                | 71 kg (156.5 lbs)  |
| <b>Environmental</b>                          | EPA II, BSO II and SAV compliant                               |
| <b>Engine mounting</b>                        | Rubber type flexible mounting                                  |

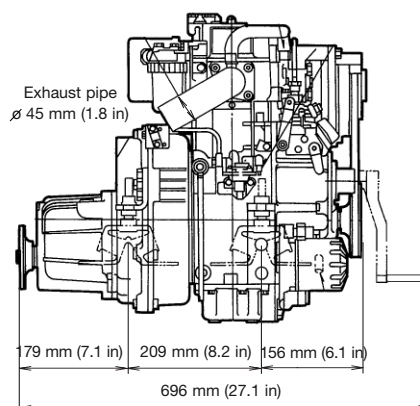
NOTE: Fuel condition: Density at 15°C = 0.842 g/cm<sup>3</sup>; 1 hp = 0.7355 kW  
 \* Fuel temperature 25°C at the inlet of the fuel injection pump (ISO 3046-1)  
 \*\* Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665)

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

**Rear view**

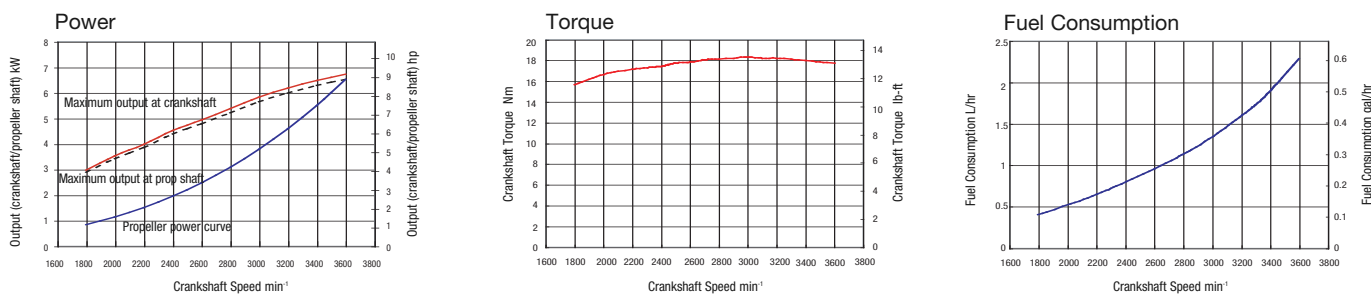


**Right side view**



1GM10 w/  
KM2P-1 marine gear

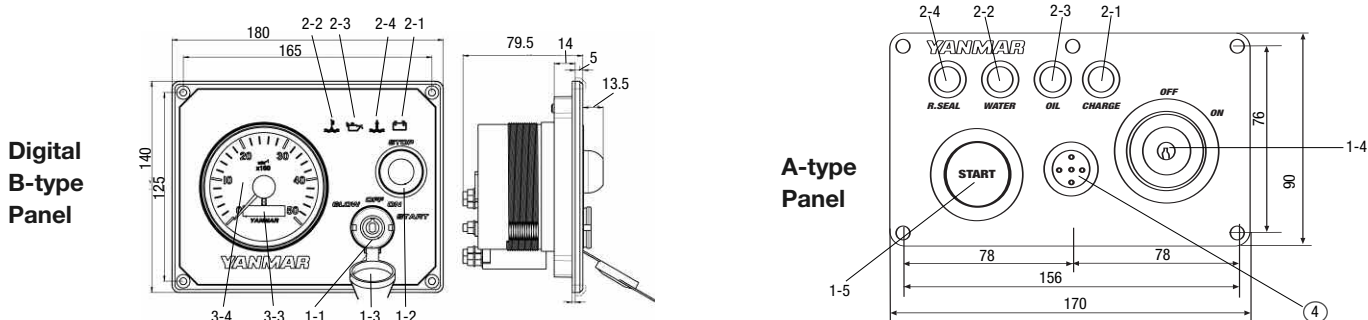
## Performance Curves (Output is according ISO 8665 - Output includes +/- 3% tolerance)



## Marine Gears/Drive

| Model   | KM2P-1                                    |           |           | KM3V (V-drive)                            |           |           | Saildrive (SD20)                    |
|---|---|-----------|-----------|---|-----------|-----------|-------------------------------------|
| Type  | Constant mesh gear with servo-cone clutch |           |           | Constant mesh gear with servo-cone clutch |           |           | Constant mesh gear with dog clutch  |
| Dry weight                                    | 10 kg (24 lbs)                            |           |           | 19 kg (42 lbs)                            |           |           | 30 kg (66 lbs)                      |
| Reduction ratio (fwd/asn)                     | 2.21/3.06                                 | 2.62/3.06 | 3.22/3.06 | 2.36/3.16                                 | 2.61/3.16 | 3.20/3.16 | 2.64/2.64                           |
| Propeller speed (fwd/asn)                     | 1540                                      | 1298      | 1055      | 1441                                      | 1303      | 1063      | 1321                                |
| Direction of rotation (propeller shaft - fwd) | Clockwise viewed from stern               |           |           | Clockwise viewed from stern               |           |           | Counter clockwise viewed from stern |
| Dry weight engine and gear/drive              | 81 kg (179 lbs)                           |           |           | 90 kg (198 lbs)                           |           |           | 104 kg (229 lbs)                    |
| Length engine and gear/drive                  | 554 mm (22 in)                            |           |           | 680 mm (27 in)                            |           |           | 723 mm (29 in)                      |

## Instrument Panels



| Function   | Type of instrument panel |              |
|--|--------------------------|--------------|
|  | Digital B-type Panel     | A-type Panel |
| <b>① Switch unit</b>                                     |                          |              |
| 1-1 Key switch for GLOW/OFF/ON/START (4-position switch) | O                        | X            |
| 1-2 Push button switch for engine stop                   | O                        | X            |
| 1-3 Moisture cap for key switch                          | O                        | X            |
| 1-4 Key switch for ON/OFF (2-position switch)            | X                        | O            |
| 1-5 Push button switch for engine start                  | X                        | 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                        | X            |
| 2-6 Sea water insufficient flow alarm                    | X                        | X            |
| <b>③ Meters</b>  |                          |              |
| 3-1 Lubricating oil pressure meter                       | X                        | X            |
| 3-2 Coolant temperature meter                            | X                        | X            |
| 3-3 Hour meter   | O                        | X            |
| 3-4 Tachometer   | O                        | X            |
| <b>④ Audible alarm buzzer</b>                            | O                        | O            |

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

## Accessories

### Standard Package

- Sensor for instrument panel
- Rubber type flexible mounting
- Exhaust/water mixing elbow (L-type)
- Alternator 35 A

### Optional

- A-panel
- B-panel
- New B-panel
- Digital B-panel
- Various extension wire harnesses
- Various couplings (straights, tapers, slits)

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