

### Small Installation Dimensions

These engines excel in their small dimensions due to their compact, robust and well designed concept. The lay-out of the boat's interior takes on a new aspect with the widened possibilities of installation.

### Light-weight

The choice of materials, such as aluminium and cast iron, together with the small dimensions have resulted in a very light-weight engine, with a long life.

### Low vibration level

The small mass of the oscillating parts, such as the pistons and connecting rods, help to maintain the quietness and the engine's vibration to the lowest level, without the help of complicated counterweights.

### Heat Exchanger

All our engines are equipped with an inter-cooling system which guarantees an even engine temperature at the right level and therefore longer duration and complete combustion. On top of this, the inter-cooling enables you to connect a boiler or heating system.

### Indirect Injection

The swirl chamber gives an even and clean combustion, therefore a low noise level and a clean exhaust emission, so the boat will keep a clean transom! The glow plugs provide

immediate starting which does not make much demand on the starter or battery.

Contrary to small direct injected engines, our engines give immediate power when it is needed. It is not necessary to count to ten before you obtain power or can reverse!

### Alternator

The alternator has an integrated voltage regulator for superior reliability. The capacity leaves nothing to be desired but P.T.O. pulleys could be fitted to the front of the crank shaft to drive auxiliaries.

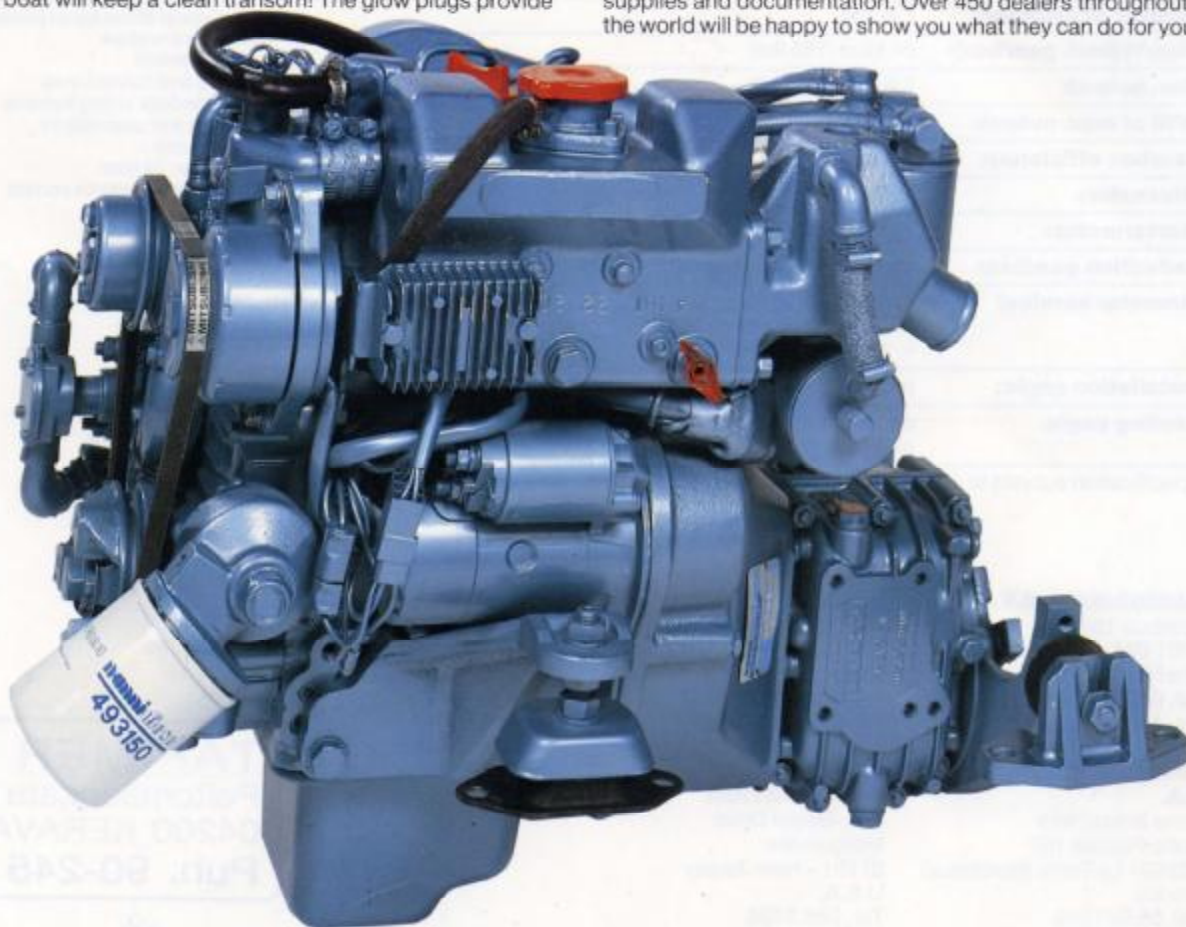
### Reverse Gearbox

The robust mechanical gearbox with disc clutch and torque limiter enables you to make emergency shifts from full ahead to full astern in only one second. Ground and treated angle gear wheels take care of high efficiency and quiet transmission of power. The remote control is made by a push-pull cable and a single lever remote control box.

The flexible mounts are equipped with a sea-worthy limitation which makes it impossible for the engine to come off its bed should the rubber fail. The specially designed mounts are capable of taking the full thrust.

### World-Wide Service

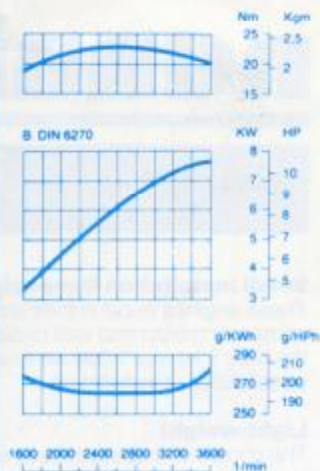
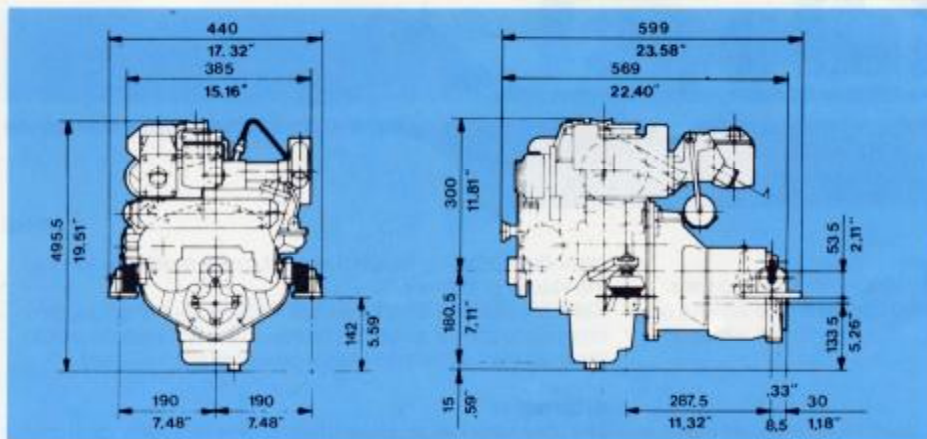
Through our twenty-one importers and five group companies we can supply full backing of our products by spare parts supplies and documentation. Over 450 dealers throughout the world will be happy to show you what they can do for you.



## 2.40 HE MARINE DIESEL ENGINE

BASIC KUBOTA 7,8 KW (10,6 HP) AT 3600 R.P.M.





## Technical specification

<b>Engine type</b>	2.40 HE 2 (cylinder) 40 (cylinder displacement) HE (heat exchanger)
<b>Basic:</b>	basis motor KUBOTA
<b>Fuel:</b>	diesel
<b>Injection:</b>	swirl chamber
<b>Principle:</b>	vertical 4-stroke
<b>Cooling:</b>	Heat exchanger, circulation pump, seawater pump, expansion tank, watercooled exhaust manifold with water injection
<b>Displacement:</b>	400 cm <sup>3</sup> (24.41 cu. inch)
<b>Bore - Stroke:</b>	64 x 62.2 mm (2.52" x 2.45")
<b>Compression ratio:</b>	23:1
<b>Number of cylinder:</b>	2 in line
<b>Weight (incl. gearbox):</b>	84 kilos (185 lbs)
<b>Max. output:</b>	7,8 KW (10,6 HP)
<b>RPM at max. output:</b>	3600 DIN 6270B
<b>Gearbox efficiency:</b>	approx. 95%
<b>Alternator:</b>	35 A - 14 V
<b>Starter motor:</b>	12 V - 0,7 KW
<b>Reduction gearbox:</b>	Hurth HBW. 50
<b>Diameter nominal</b>	- exhaust: 40 mm. - fuel pipe: 8 mm. - seawater intake: 13 mm. (1/2")
<b>Installation angle:</b>	max. 15° backwards
<b>Heeling angle</b>	continuous: 25° intermittent: 35°

Specification subject to change without notice

## Standard equipment

reduction gearbox  
set of flexible mounts  
heat exchanger  
fresh water pump  
thermostat  
sea water self-priming pump  
fresh water cooled exhaust manifold  
exhaust elbow with water injection  
sea water circuit by zinc anode protection  
stop magnet  
electric instrument panel with tachometer and pilot lights for oil pressure, water temperature, alternator and glowplugs  
acoustical alarm for oil pressure and temperature  
starterswitch  
wiring and connections  
intermediate wiring harness 4 meters with connectors  
feed pump  
fuel filter, oil filter  
brackets for remote control cables  
sump pump  
set of tools  
operator's manual  
warranty certificate

## Accessories

propellers  
remote control  
exhaust systems  
flexible couplings  
shafts and stern tubes

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