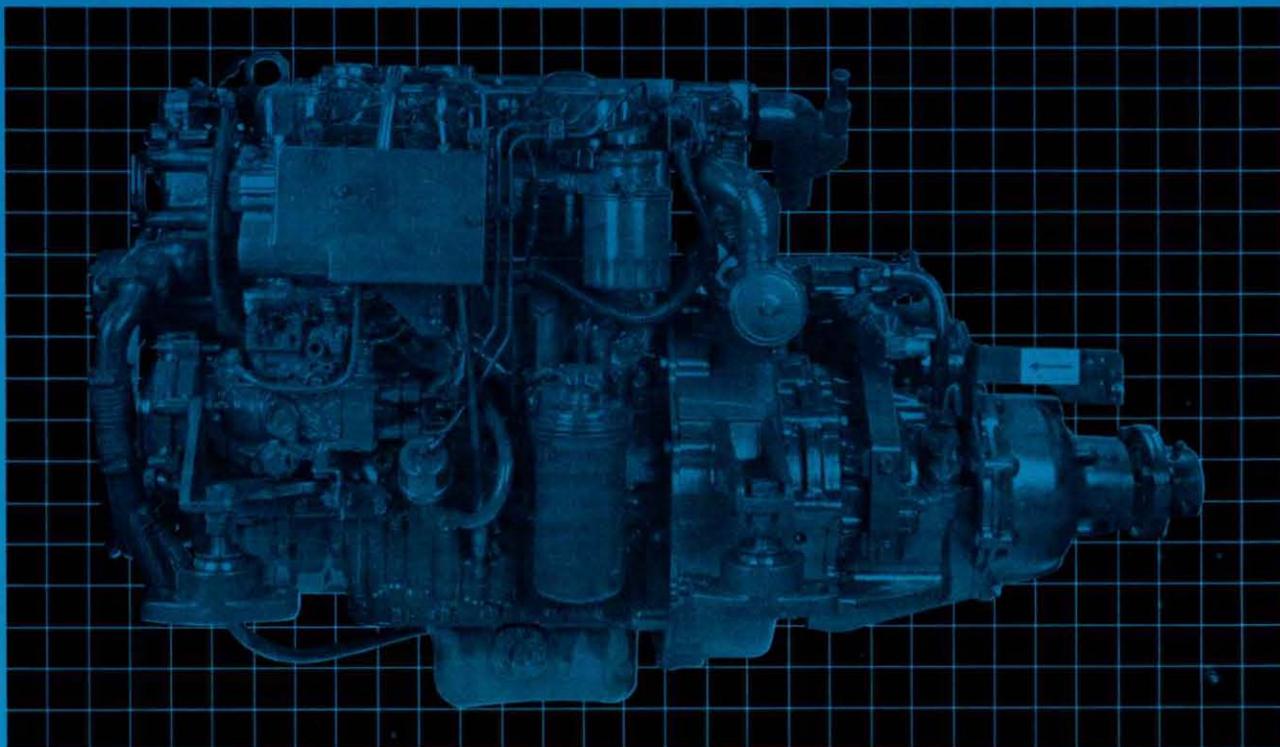


# **WESTERBEKE 70**

**smooth quiet efficient  
power in a compact 70 hp  
marine diesel**



The Westerbeke 70 provides 4 cylinder four cycle smoothness in a well balanced marine engine. It's lightweight, yet tough — a product of Westerbeke's state-of-the-art technology and high precision tooling.

A swirl type precombustion chamber gives outstanding performance in power output and fuel economy. A cross-drilled coolant passage directs jets of coolant around the combustion chamber. This, together with oil that is fresh-water cooled and maintained at engine temperature by an en bloc oil cooler, enables the engine to withstand continued operation under heavy loads.

Additional diesel engines are available from 10 to 120 hp. All models are fresh water cooled and built for performance, durability and economical operation — a true family of marine engines, with standardized features and commonized parts for higher quality at lower costs.

A few of the many standard features are:

- Fresh water cooling
- 12 volt, 51 amp alternator
- Pre-wired electrical harness
- Self-priming fuel system with electrical shut-off
- Convenient oil drain system
- Water injected exhaust elbow
- Five main crankshaft bearings

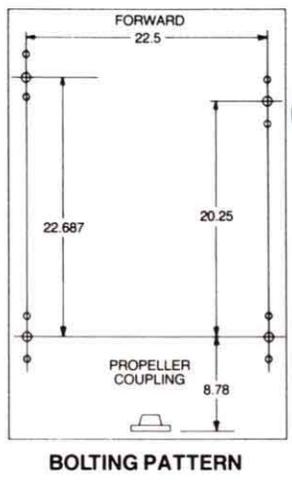
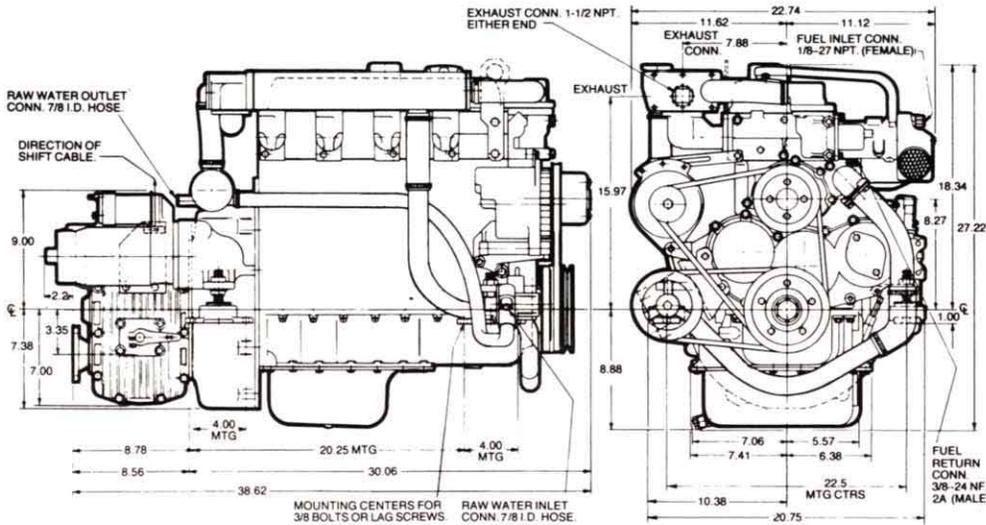
**Your enjoyment and pride of ownership is assured with a Westerbeke 70 in your boat**



**ENGINES: 10, 13, 18, 21, 27, 33, 46, 52, 58, 70, 80, 100, 120**

**Fresh Water Cooled Diesels from Westerbeke**

# WESTERBEKE 70



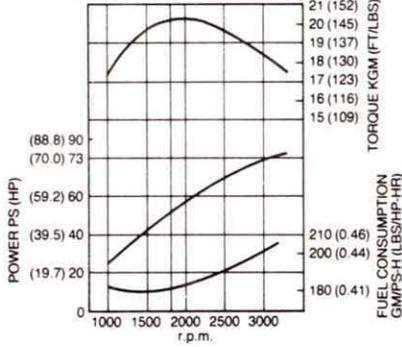
### Features

- Cylinder Head:** Special cast iron cylinder head precision-cast under the shell moulding process and soft-gas-nitrided for increased durability. The intake and exhaust ports are arranged for crossflow to raise intake and exhaust efficiency. The swirl type precombustion chamber is used.
- Cylinder Block:** Weight reduction achieved by technologies of thin wall ductile cast iron and half skirt. The water rail is designed to provide uniform distribution of coolant to the cylinder head. The cylinder liner is of the dry type of high-phosphorus cast iron, which is given special honing to provide quick seating, good oil retention, thus increasing wear resistance.
- Crank Mechanism:** The crankshaft is of the 5 bearings type. The piston is of Lo-Ex alloy with oval skirt and is equipped with 3 compressed rings and 2 oil rings. The piston pin is offset by 1.5 mm for quiet operation.
- Valve Mechanism:** OHV with both the intake and exhaust valves designed to rotate to provide a longer lasting seal between valve and valve seat.
- Intake and Exhaust System:** The independent branch type intake manifold is used to increase intake efficiency.

### Performance Data

Maximum Torque . . . . . 20.5 Kg. m (148.3 lb. ft.)/1800 r.p.m.  
 One hour Rated Power Output . . . 57.5 PS/2000 r.p.m. 69 PS/2500 r.p.m. 73 PS/3000 r.p.m.  
 Continuous Rated Power Output . . . . 49 PS/2000 r.p.m. 59 PS/2500 r.p.m. 62 PS/3000 r.p.m.  
 Maximum Power Output . . . . . 78 PS/3800 r.p.m.  
 Specific Fuel Consumption . . . . . 180 gr/PS-hr (0.403 lb/HP-hr)  
 Typical fuel consumption at 2500 r.p.m. when wheeled for 3000 r.p.m. . . . . 3 G.P.H.  
 Capacity of Lubricant . . . . . 6.5 qt  
 Capacity of Coolant (engine only) . . . . . 8 qt

### PERFORMANCE CURVE



Performance is based on JIS standard atmospheric condition (atmospheric pressure 760 mm Hg. temp 20°C, humidity 65%) without cooling fan. Conversion to BHP is to be made at 1 HP = 0.9859 PS

### Specifications

Number of Cylinders & Arrangement . . . . . 4 In-Line  
 Cylinder Bore & Stroke . . . . . 95 mm x 105 mm (3.74" x 4.13")  
 Displacement . . . . . 2.977 (182 in<sup>3</sup>)  
 Compression Ratio . . . . . 21.0  
 Combustion Chamber . . . . . Swirl Type  
 Firing Order . . . . . 1 3 4 2  
 Rotating Direction . . . . . Clockwise viewed from Fan  
 Valve Arrangement . . . . . Overhead Valve  
 Injection Pump . . . . . Bosch distributor type  
 Governor . . . . . mechanical (Built in Pump)  
 Lubrication Method . . . . . Pressure feed type  
 Cooling Method . . . . . Fresh water by heat exchanger  
 Auxiliary Starter . . . . . Glow Plug  
 Electrical System Voltage . . . . . 12 Volts  
 Dry Weight of engine . . . . . 625 lbs.

### Standard Equipment

Manual or hydraulic transmission (see price list)  
 Adjustable flex isolator engine mounts (22.5" centers only)  
 Fresh water cooling system  
 Coolant Recovery Tank  
 12 volt 51 ampere alternator  
 Throttle, and shift control brackets  
 Glow plug cold weather starting aid  
 Engine pre-wired at the factory with a single 8 pin connector  
 Operators manual

### Optional Equipment

Various accessory front pulleys  
 Water Injected Exhaust Elbow  
 Sea Water Strainer  
 Alternator Output Splitter  
 Five Function Electric Instrument Panel including Hour Meter and Tachometer  
 A wide variety of Manual and Hydraulic Transmissions are available in various Reduction Gears and Vee Drives.



New Hydro-Hush B long-lived neoprene body — various adapting connectors available

Call your Westerbeke representative

or contact the . . .



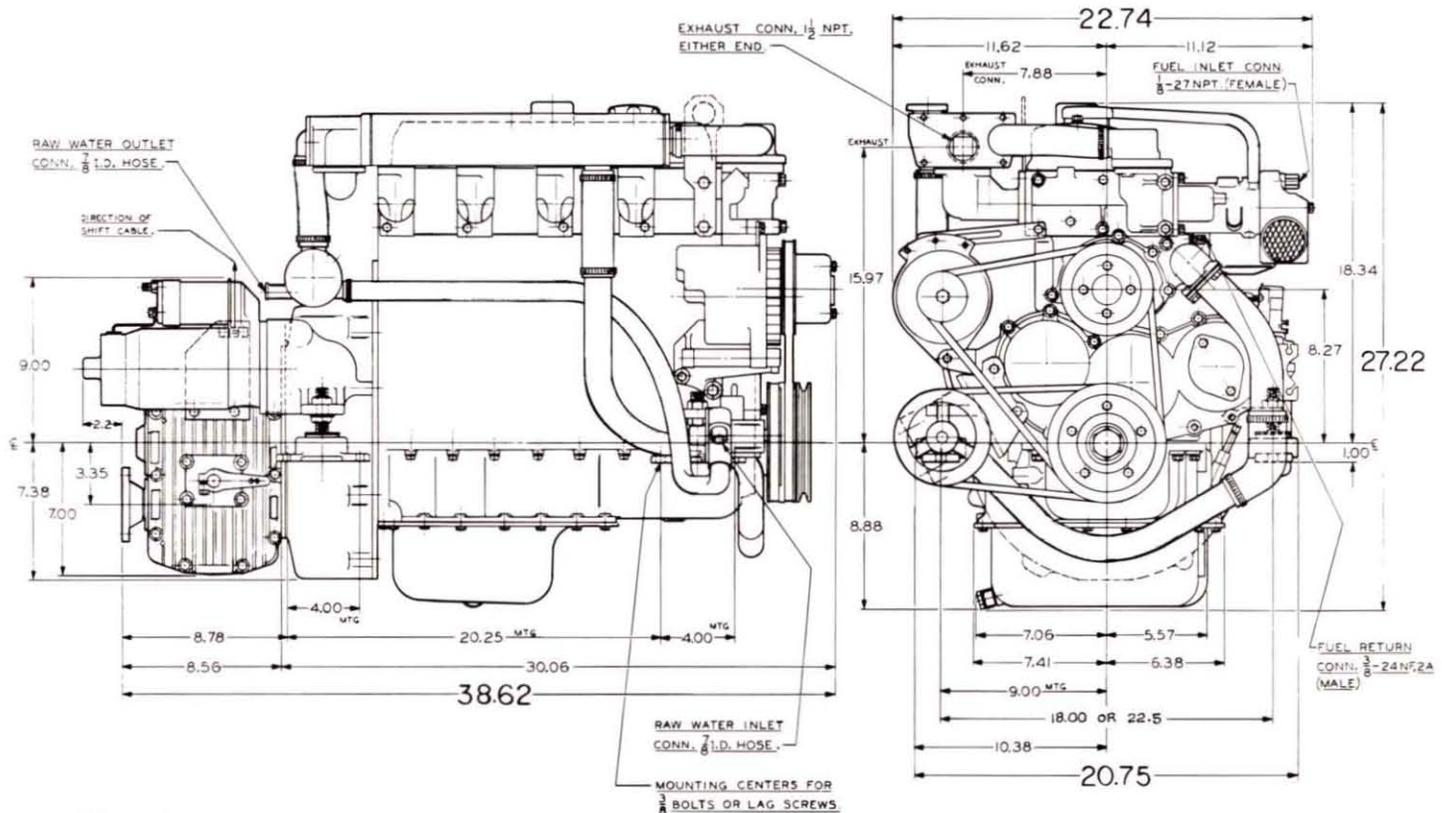
## J. H. WESTERBEKE CORP.

AVON INDUSTRIAL PARK, AVON, MASS. 02322 • (617) 588-7700  
 CABLE: WESTCORP. AVON • TELEX: 92-4444

# WESTERBEKE

smooth quiet efficient power  
in a 70 hp marine diesel

# 70



## Features

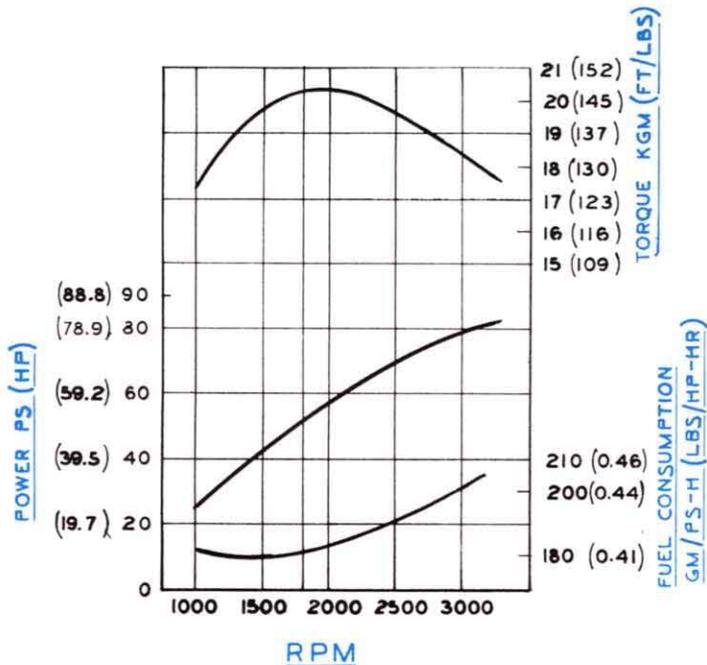
1. Thin-walled, lightweight, yet tough and high-performance diesel engine realized by high-precision casting technique
2. The swirl type precombustion chamber aids for complete combustion in all engine speed ranges and assures outstanding performance in power output and fuel economy
3. The cross-drilled coolant passage directs jets of coolant around the combustion chamber; this, coupled with the oil cooling by oil cooler, enables the engine to withstand continued operation under heavy load
4. Since it is a well balanced 4 cylinder engine, there's very little vibration and noise
5. The glow plug together with the swirl type precombustion chamber gives outstanding starting-up performance
6. Fresh water cooling of both jacket water and lube oil.
7. Self-priming fuel system

INCREASE ENJOYMENT AND PRIDE OF OWNERSHIP  
WITH A WESTERBEKE 70 IN YOUR BOAT.



ENGINES: 13, 21, 27, 33, 40, 50, 52, 58, 70, 80, 100, 120

Fresh Water Cooled Diesels from Westerbeke.



**NOTES**

1. Cylinder Head: Special cast iron cylinder head precision-cast under the shell moulding process and soft-gas-nitrided for increased durability. The intake and exhaust ports are arranged for crossflow to raise intake and exhaust efficiency. The swirl type precombustion chamber is used.
2. Cylinder Block: Weight reduction achieved by technologies of thin wall ductile cast iron and half skirt. The water rail is designed to provide uniform distribution of coolant to the cylinder head. The cylinder liner is of the dry type of high-phosphorus cast iron, which is given special honing to provide quick seating, good oil retention, thus increasing wear resistance.
3. Crank Mechanism: The crankshaft is of the 7 bearings type. The piston is of Lo-Ex alloy with oval skirt and is equipped with 3 compressed rings and 2 oil rings. The piston pin is offset by 1.5 mm for quiet operation.
4. Valve Mechanism: OHV with both the intake and exhaust valves designed to rotate to provide a longer lasting seal between valve and valve seat.
5. Intake and Exhaust System: The independent branch type intake manifold is used to increase intake efficiency.

**Main Specifications**

Number of Cylinders & Arrangement	4 In-Line
Cylinder Bore & Stroke	95 mm x 105 mm (3.74" x 4.13")
Displacement	2.977 (182 in <sup>3</sup> )
Compression Ratio	21.0
Combustion Chamber	Swirl Type
Firing Order	1 3 4 2
Rotating Direction	Clockwise viewed from Fan
Valve Arrangement	Overhead Valve
Injection Pump	Bosch distributor type
Governor	mechanical (Built in Pump)
Lubrication Method	Pressure feed type
Cooling Method	Fresh water by heat exchanger
Auxiliary Starter	Glow Plug
Electrical System Voltage	12 Volts
Dry Weight of engine	(625 lbs.)

**Performance**

Maximum Torque	20.5 Kg. m (148.3 lb. ft.)/1800 r.p.m.
One hour Rated Power Output	57.5 PS/2000 r.p.m. 69 PS/2500 r.p.m. 73 PS/3000 r.p.m.
Continuous Rated Power Output	49 PS/2000 r.p.m. 59 PS/2500 r.p.m. 62 PS/3000 r.p.m.
Maximum Power Output	78 PS/3800 r.p.m.
Specific Fuel Consumption	180 gr/PS-hr (0.403 lb/HP-hr)
Capacity of Lubricant	(6.5 qt)
Capacity of Coolant (engine only)	(8 qt)

\*Performance is based on JIS standard atmospheric condition (atmospheric pressure 760 mm Hg. temp 20°C, humidity 65%) without cooling fan. Conversion to BHP is to be made at 1 HP = 0.9859 PS

**STANDARD EQUIPMENT**

- Direct drive hydraulic transmission
- Adjustable flex isolator engine mounts (18" or 22.5" centers)
- Fresh water cooling system
- Coolant Recovery Tank
- 12 volt 55 ampere alternator
- Throttle, and shift control brackets
- Glow plug cold weather starting aid
- Engine pre-wired at the factory with a single 8 pin connector
- Operators manual

**OPTIONAL EQUIPMENT**

- Various accessory front pulleys
  - Water Injected Exhaust Elbow
  - Hydro-Hush Muffler
  - Sea Water Strainer
  - Alternator Output Splitter
  - Five Function Electric Instrument Panel including Hour Meter and Tachometer
- A wide variety of Manual and Hydraulic Transmissions are available in various Reduction Gears and Vee Drives.



**CALL YOUR WESTERBEKE REPRESENTATIVE**



**OR CONTACT THE ...**



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