

# 'Meteorite'

Developing 40-50hp/30hp at 1800/1500rpm



# Mermaid



# Marine Diesel Engine



The Mermaid 'Meteorite' marine diesel engine is a development of the Mermaid 'Mermaid' and based on the 40hp 1800 and 50hp engine which comprises aluminium casing and a cast iron cylinder block design of low weight and compact size.

- 1. The standard 40hp/1800rpm incorporates a cast aluminium crankcase for fuel economy but a cast aluminium crankcase is also available.
- 2. Oil and fuel tanks and other accessories are mounted on the standard cast iron engine mounting.
- 3. A complete maintenance package includes an oil filter, fuel filter, water separator and automatic pressure regulator.
- 4. The 50hp 1500 rpm engine incorporates a cast iron cylinder block and cast aluminium crankcase, aluminium crankcase and cast iron engine mounting.

The 'Mermaid' has been developed in a low cost and compact design with high quality marine equipment including fuel, water and oil filters, a water separator, fuel pressure regulator, cooling water separator engine and speed controller unit.



# Mermaid Marine Engines Ltd

# Mermaid 'Meteorite' Marine Diesel Engine



## Dimensions in millimetres/inches



Approximate weight 160 kg/350 lbs. Maximum operating speed 2700 RPM

### Specification

#### ME 10000000 10

Size 1000 x 600 x 600

Weight 160 kg

Maximum RPM 2700

Maximum torque 100 Nm

Maximum power 100 kW

Installation: Can be installed vertically or horizontally (subject to 12VDC battery system of the engine)

#### Quality

Mermaid Marine has a complete ISO 9001 certification and ISO 14001 environmental management system. Mermaid Marine has a proven track record in providing reliable and efficient solutions for our customers.

#### Fuel System

Mermaid Marine has a proven track record in providing reliable and efficient solutions for our customers. Mermaid Marine has a proven track record in providing reliable and efficient solutions for our customers.

#### Material

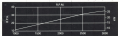
Mermaid Marine has a proven track record in providing reliable and efficient solutions for our customers. Mermaid Marine has a proven track record in providing reliable and efficient solutions for our customers.

#### Price

Mermaid Marine has a proven track record in providing reliable and efficient solutions for our customers. Mermaid Marine has a proven track record in providing reliable and efficient solutions for our customers.

## Performance Details & Power Curve

**Operating**  
Maximum torque  
100 Nm  
Maximum power  
100 kW  
Maximum RPM  
2700



**Mermaid Marine Engines Limited**  
1000 Highway Road  
P.O. Box 1000000  
Mermaid  
Mermaid Marine Engines Limited  
Mermaid Marine Engines Limited  
Mermaid Marine Engines Limited

**Mermaid**  
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Mermaid Marine Engines Limited  
Mermaid Marine Engines Limited

# Mermaid



## Marine Diesel Engine

### 'Meteor'



Developing 400hp (294 bhp) at 4,200 rev/min



The Mermaid 'Meteor' marine diesel engine is based on the Fiat 4000 D with a marine water pump driven by the engine and offers both mechanical and electric starting facilities for ease of extremely rugged use.

- 1. High torque output at low revs for excellent starting characteristics.
- 2. Excellent economy at cruising speeds.
- 3. High speed fuel injection for maximum performance.
- 4. Remote control operation for ease of engine starting.
- 5. Wide range of marine accessories for installation and operation.

A wide range of marine accessories are available for installation. For more information contact our sales office or distributor. For more details contact our technical department.



Mermaid Marine Engines Ltd



Dimensions of the engine (mm)



Dimensions of engine (mm) (Front view and Side view)

Specification

Model No. 54

Year: 2000-2001

Capacity: 1000 cc (1000 cc)

Configuration: I 4

Fuel System: Diesel

Comments: This engine is used in various marine applications.

Capacity: 1000 cc (1000 cc)

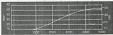
Configuration: I 4

Fuel System: Diesel

Comments: This engine is used in various marine applications.

Performance Details & Power Curve

Parameter	Value
Rated Power	1000 W
Rated RPM	1000
Rated Torque	1000 Nm
Rated Fuel Consumption	1000 g/h
Rated Efficiency	1000 %



Model 54 Marine Diesel Engine  
 Capacity: 1000 cc  
 Configuration: I 4  
 Fuel System: Diesel  
 Comments: This engine is used in various marine applications.

Capacity: 1000 cc  
 Configuration: I 4  
 Fuel System: Diesel  
 Comments: This engine is used in various marine applications.



## METEOR MK2-Ford 1800cc

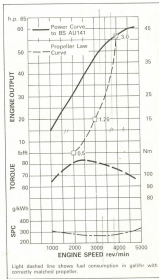
# Marinisation of 1.8 litre Ford engine

Ford have introduced a light weight 1.8 litre indirect injection diesel engine replacing their 1.6L XLD. This industrial base unit, XLD 418, offers about 10% more power than the earlier engine and Mermaid Marine Engines are producing a marinised version, first seen at Southampton Boat Show.

The Mermaid engine is titled the Meteor Mark II. The original Meteor based on the 1600cc engine has proved quite successful; the Mark II offers a useful boost in power to 58hp at 4000rpm while a 75hp turbocharged version is under development and should be available early in 1989.

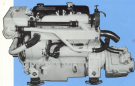
Features include glow plugs for cold starting, self bleeding fuel system and raw water circulation pump driven from the nose of the crankshaft. The recommended transmission is a PRM Delta gearbox with options of 1.52 and 2.8:1 reductions, alternatives include a Hirth HPW 150 gearbox or V-drive. Mermaid will also supply the engine as a package with a transdrive or direct coupled jet unit. The engine weighs in at 180kg dry and the maximum operating angle with standard pump is 10°.

Power, torque and consumption curves for the Meteor MK2, the marinised version of the Ford 1800cc diesel offered by Mermaid.





# Mermaid Marine Diesel Engine 'MELODY'



Developing  
Output of  
2400 h.p.m.



The Mermaid 'MELODY' is a 6 cylinder, naturally aspirated heavy duty marine diesel engine and is fitted with a fully automatic fuel injection pump system. The engine is suitable for all commercial marine service applications for motorcruising, yachts and other craft of all types. The long life expectancy of this engine is due to appropriate V-type bearing design (but joint) where the joint is frequently operating for both sailing and gas propulsion. To meet the requirements of these varied applications the design incorporates the very latest fuel pump technology, including turbochargers and exhaust silencing, demonstrating an exceptionally low fuel consumption.

For example the 'MELODY' can be fitted with a standard or a special 4 speed gear box and a special 4 speed or 5 speed propeller shaft system, variable pitch propellers and automatic systems frequently associated with this engine, and a 4 inch 1/2" ball valve for the raw water cooling system. The philosophy of the design is to provide a high standard of specification and finish to ensure the best equipment with a long life span for the engine throughout its life.



Mermaid Marine Diesel Engines Ltd  
100, The Mermaid, Southampton, England



As supplied in 1988

Mermaid Marine Diesel Engine - 1988 model



Mermaid Marine Diesel Engine - 1988 model

Mermaid

### Specification

**No. of Cylinders:** 4  
**Size:** 2.0 litre (2000 cc)  
**Stroke:** 100 mm (3.937 in)  
**Weight:** 150 kg (330 lb)  
**Compression Ratio:** 18.5:1

**Construction:** The engine is built in a cast iron block with a cast iron cylinder head. The block and head are cast in a single piece. The block is cast in a single piece with the cylinder head. The block is cast in a single piece with the cylinder head.

**Injection:** The engine is equipped with a common rail injection system. The injection system is a common rail system. The injection system is a common rail system.

**Timing:** The engine is equipped with a timing belt. The timing belt is made of a high strength material. The timing belt is made of a high strength material. The timing belt is made of a high strength material.

**Engine Output:** The engine is capable of producing a maximum power output of 100 kW (136 hp) at 2000 rpm. The engine is capable of producing a maximum power output of 100 kW (136 hp) at 2000 rpm. The engine is capable of producing a maximum power output of 100 kW (136 hp) at 2000 rpm.

**Construction:** The engine is built in a cast iron block with a cast iron cylinder head. The block and head are cast in a single piece. The block is cast in a single piece with the cylinder head. The block is cast in a single piece with the cylinder head.

**Injection:** The engine is equipped with a common rail injection system. The injection system is a common rail system. The injection system is a common rail system. The injection system is a common rail system.

**Weight:** 150 kg (330 lb)  
**Dimensions:** 1000 mm (width) x 1000 mm (height) x 1000 mm (depth)



# Mermaid Marina Diesel Engine *'MELODY II'*



Developed  
in 1994 at  
1500 rpm.

The Mermaid 'Melody II' is a completely newly designed heavy duty marine diesel engine and is based on the highly successful Mercedes-Benz 'OM602' industrial engine. The engine's combination of common-rail and Turbo-Diesel technology, water-cooled turbochargers and other, the engine's expertise in the engine also makes it appropriate to the following (especially fuel) power when the engine is used for both sailing and power boats. To meet the requirements of these varied applications the design incorporates the very latest diesel engine technology, variable valve timing and exhaust emissions and incorporating an exceptionally quiet operation.

Each cylinder 'floats' on its own pistons, standard and incorporates a piston-tilted common fuel injection without nozzle and a water-cooled turbocharger. The engine's operating temperature is 100°C. A self-cleaning system is built into the fuel water circulating pump and is suitable for the only velocity for which standard engine components. The assembly using engine is constructed using a proven 3-part construction and fully is capable of being in either forward or reverse operation without the engine through the life.



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Mermaid Marina Diesel Engine Ltd



# Mermaid Marine Diesel Engine 'MELODY II'

Top View (Including 400 cc 2000 cc  
Removal/Installation Guide) (mm)



Developed in line with the 2000 cc engine

Reference

## Specification

<b>No. of cylinders</b>	4
<b>Max. Power</b>	10000 W (13.6 HP)
<b>Max. Torque</b>	10000 W (13.6 HP)
<b>Capacity</b>	10000 W (13.6 HP)
<b>Displacement</b>	10000 W (13.6 HP)
<b>Weight</b>	10000 W (13.6 HP)
<b>Dimensions</b>	10000 W (13.6 HP)
<b>Performance</b>	10000 W (13.6 HP)
<b>Reliability</b>	10000 W (13.6 HP)
<b>Efficiency</b>	10000 W (13.6 HP)
<b>Noise</b>	10000 W (13.6 HP)
<b>Start</b>	10000 W (13.6 HP)
<b>Idle</b>	10000 W (13.6 HP)
<b>Max. RPM</b>	10000 W (13.6 HP)
<b>Max. Torque</b>	10000 W (13.6 HP)
<b>Max. Power</b>	10000 W (13.6 HP)

## Mermaid Marine Engines Ltd

10-12 Colman Road  
 Parkview Industrial Estate  
 Singapore 629555  
 Tel: Singapore 6752 8888 Fax: 6752 8888



# Mermaid Marine Diesel Engine 'TURBO-MELODY II'



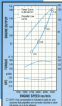
Developing  
100 bhp to 20  
bhp/rev.

Photograph shows engine with optional alternator and

The Mermaid 'Turbo-Melody II' is a 4 cylinder turbo-charged, indirect injection-diesel engine and is based on the highly successful Fiat four cylinder 'Mermaid' industrial engine. The engine is suitable for most commercial duties with a particular advantage being economy and small maintenance charges. Offering the expertise of the engine manufacturer it is available to the following pressure-rated marine applications and is particularly suitable for power systems.

It meets the requirements of those vessel applications the design incorporates for any latest diesel engine technology. It features noise levels and exhaust emissions which meet the requirements of the fuel consumption.

Each engine is 'hard hat' built through a quality standard and incorporates a purpose designed exhaust/coolant exchange and exhaust manifold and a freshwater cooler of choice to maintain optimum temperature. It offers a long service life through the high water flow design and the alternative the reliability for which Mermaid engines are renowned. After assembly every engine is dynamometer tested to ensure compliance to specifications and finally a specially formulated Mermaid wheel oil is used to lubricate the engine to protect the engine throughout its life.







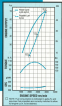
Mermaid Marine Diesel Engine

**'MERLIN'**



Developing  
7000 hp and  
20000 hp etc.

The Mermaid 'Merlin' is a 4-cylinder, vertically arranged, turbo-charged engine and a completely high performance four-stroke with water-cooling. The engine offers an excellent power-to-weight ratio as well as compact size and these features make the engine appropriate for mounting both vertically and horizontally. However, the high durability of the engine enables it to be equally suitable as commercial applications including vessel lifting cranes. To meet the requirements of various marine applications the design encompasses the very latest diesel engine technology combined with Mermaid's marine expertise. Each engine is 'Ward Built' in the highest quality standards and incorporates a custom designed reinforced bed-plate and strengthened construction of cast iron for the ease of servicing. After assembly every engine is thoroughly tested to ensure reliability and performance. Mermaid's standard warranty covers the engine throughout its life.



2014 10000 1000

Mermaid Marine Engines Ltd





# Mermaid Marine Diesel Engine 'MERLIN'

By design developed 270 to 200 HP  
Maximum shaft speed 2000 RPM (3000 rev/min)



Dimensions in millimetres (in inches)

Options:

## Mermaid Marine Engines Ltd

10, Millbrook Road  
Farnborough Industrial Estate,  
Farnborough, Southampton SO14 7TH, England  
Tel: 0703 60300 (01253 60300) Fax: 0703 60300

## Specification

<b>No. of cylinders</b>	4
<b>Bore</b>	100 x 100 mm
<b>Stroke</b>	100 x 100 mm
<b>Speed</b>	2000 RPM (3000 rev/min)
<b>Compression ratio</b>	16:1
<b>Performance</b>	Maximum power 270 HP (200 kW) at 2000 RPM Maximum torque 1000 Nm (736 ft lbs) at 1800 RPM Maximum fuel consumption 200 l/h (55 US gal/h) at 2000 RPM Maximum oil consumption 10 l/h (2.6 US gal/h) at 2000 RPM
<b>Weight</b>	1000 kg (2200 lbs)
<b>Dimensions</b>	1000 mm (39.4 in) x 1000 mm (39.4 in) x 1000 mm (39.4 in)
<b>Starting system</b>	12V electric starting system with 24V battery
<b>Accessories</b>	Water pump, alternator, glow plug, etc.
<b>Options</b>	12V electric starting system, 24V battery, etc.
<b>Notes</b>	The engine is designed to operate at 2000 RPM. It is suitable for use in a wide range of applications. It is a high performance engine with a long life span.
<b>More information</b>	For more information, contact Mermaid Marine Engines Ltd. Tel: 0703 60300 (01253 60300) Fax: 0703 60300



# Mermaid 'Turbo-Merlin' Marine Diesel Engine

Mermaid Marine Engines Ltd  
 100, The Esplanade, Southampton, SO9 4AA, UK  
 Tel: 01703 523333 Fax: 01703 523334  
 Email: [enquiries@mermaidmarine.co.uk](mailto:enquiries@mermaidmarine.co.uk)

Dimensions in millimetres (inches)



Approximate dry weight 400 kg (882 lbs) Net Power 40 kW (54 hp) Max. Torque 120 Nm (88.5 lb ft) Max. RPM 2400

## Specification

<b>No. cylinders</b>	4
<b>Bore</b>	90.0 mm (3.543 inches)
<b>Stroke</b>	90.0 mm (3.543 inches)
<b>Capacity</b>	200.0 litres (55.06 US gal)
<b>Compression ratio</b>	16.1
<b>Fuel injection</b>	Direct
<b>Water pump</b>	1000 rpm (water pump)
<b>Lubrication</b>	Wet sump with oil separator. Oil filter. Oil level indicator. Oil pressure indicator. Oil pressure warning lamp.

**Water** The cooling fan uses a centrifugal fan, driven by a 12V DC motor. The fan is mounted on a separate shaft, which is driven by the engine. The fan is mounted on a separate shaft, which is driven by the engine. The fan is mounted on a separate shaft, which is driven by the engine.

**Water pump** The water pump is driven by the engine. The water pump is driven by the engine. The water pump is driven by the engine.

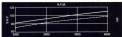
**Oil pump** The oil pump is driven by the engine. The oil pump is driven by the engine. The oil pump is driven by the engine.

**Water separator** The water separator is located in the oil sump. The water separator is located in the oil sump. The water separator is located in the oil sump.

## Performance Details & Power Curve

Standard engine configuration  
 Maximum Continuous Rating

<b>Power</b>	40 kW (54 hp)
<b>Max. Torque</b>	120 Nm (88.5 lb ft)
<b>Max. RPM</b>	2400
<b>Water pump</b>	1000 rpm (water pump)



For full specification and details, please refer to the Mermaid 'Turbo-Merlin' Marine Diesel Engine specification sheet.

## Mermaid Marine Engine Limited

100, The Esplanade, Southampton, SO9 4AA, UK  
 Tel: 01703 523333 Fax: 01703 523334  
 Email: [enquiries@mermaidmarine.co.uk](mailto:enquiries@mermaidmarine.co.uk)

## Mermaid





Mermaid Marine Diesel Engine

**'MARINER'**



Maximum  
130 h.p.  
at 2000 r.p.m.

The Mermaid "Mariner" is a 4-cylinder, naturally aspirated, air-cooled diesel engine and is built on the heavy-duty Ford "Cobra" block industrial engine. The engine is capable of continuous duty and is perfect for marine fishing vessels and other commercial or pleasure. The long experience of the engine also makes it appropriate for the demanding pleasure boat owner since this unit is frequently specified for both racing and power cruising. To meet the requirements of these varied applications the design incorporates the very latest diesel engine technology in electrical, fuel, turbo and exhaust systems while maintaining an exceptionally low fuel consumption.

Each engine is "load built" to the highest possible standards and incorporates a special oil-spray lubrication system, special manifolds, water separator, vibration absorbers, frequency absorbers with the variable frequency, and a low "T" fuel line for the high water absorbing pump and alternate fuel/air ratio controls for high speed operation.

After assembly every engine is dynamically tested to ensure it performs to specification and meets specific standards in demand demand to protect the engine throughout its life.



Mermaid Marine Diesel Engine Co. Ltd.  
10000 100th Street, Richmond, B.C. V6V 1G1, Canada



# Mermaid Marine Diesel Engine

## 'MARINER'

1000 Series (Mermaid) Diesel Engines  
Mermaid Marine Diesel Engines



Mermaid Marine Diesel Engines

Mermaid

### Specification

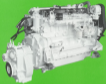
<b>Model</b>	1000 Series (Mermaid)
<b>Year</b>	2000 Series (Mermaid)
<b>Capacity</b>	1000mm (Mermaid)
<b>Dimensions</b>	1000mm
<b>Features</b>	Mermaid 1000 Series Diesel Engines are designed to provide a reliable and efficient power source for your boat. They are available in a range of sizes and configurations to suit your needs.
<b>Labels</b>	Mermaid 1000 Series Diesel Engines are designed to provide a reliable and efficient power source for your boat. They are available in a range of sizes and configurations to suit your needs.
<b>Color</b>	Mermaid 1000 Series Diesel Engines are designed to provide a reliable and efficient power source for your boat. They are available in a range of sizes and configurations to suit your needs.
<b>Materials</b>	Mermaid 1000 Series Diesel Engines are designed to provide a reliable and efficient power source for your boat. They are available in a range of sizes and configurations to suit your needs.
<b>Accessories</b>	Mermaid 1000 Series Diesel Engines are designed to provide a reliable and efficient power source for your boat. They are available in a range of sizes and configurations to suit your needs.
<b>Warranty</b>	Mermaid 1000 Series Diesel Engines are designed to provide a reliable and efficient power source for your boat. They are available in a range of sizes and configurations to suit your needs.
<b>Price</b>	Mermaid 1000 Series Diesel Engines are designed to provide a reliable and efficient power source for your boat. They are available in a range of sizes and configurations to suit your needs.
<b>Availability</b>	Mermaid 1000 Series Diesel Engines are designed to provide a reliable and efficient power source for your boat. They are available in a range of sizes and configurations to suit your needs.

### Mermaid Marine Engines Ltd

1000 Series (Mermaid) Diesel Engines  
Mermaid Marine Diesel Engines  
1000 Series (Mermaid) Diesel Engines  
Mermaid Marine Diesel Engines  
1000 Series (Mermaid) Diesel Engines  
Mermaid Marine Diesel Engines



## Mermaid Marine Diesel Engine 'MANTA IP'



Developing  
torque up to  
2000 hp-h

or

developing  
power up to  
2000 hp-h

The Mermaid 'Manta IP' is a 6-cylinder naturally aspirated 7.2 litre heavy duty marine diesel engine and is manufactured using state-of-the-art 'Mermaid' technology. The engine is most suitable for heavy duty commercial applications and is suitable for displacement fishing vessels and workboats of all types. The range of accessories of this engine includes an air separator, oil separator and seawater pump and its completely re-engineered and servicing bases is designed to suit operating in the warm water zone of the world. The engine is available in a number of different power and speed options and is available in a number of different configurations.

To meet the requirements of these varied applications the design incorporates the very latest engine technology, advanced valve timing and exhaust systems which maintaining an exceptionally low fuel consumption.

Each engine is 'tuned built' to the highest possible standards and incorporates a 'pop-over' design, variable fuel injection and advanced electronic fuel injection control system. A comprehensive set of test stands, the Mermaid 'Manta IP' engine is available for the world's leading test stands. Mermaid engines are designed after extensive marine engine development testing to ensure a performance standard which is unrivalled in other 7.2 litre marine diesel engines. The engine's design ensures perfect through flow through the 60



Over 1000 hours of operation in a year and  
up to 1000 hours of operation in a year  
depending on application.



**NEW MODEL**

Developing 180 to 2200W at 2400 rev/min  
180 to 2200 cc displacement

**NOW AVAILABLE**

# 'Turbo-Four'

Developing 180 to 2200W at 2400 rev/min



# Mermaid



## Marine Diesel Engine



The Mermaid Turbo-Four has been developed as a high quality propulsion engine, and its particular offer of very high power to weight ratio, also making the engine most suitable for pleasure boat applications, and incorporating many advanced electronic technical features.

The cooling system incorporates a full capacity gear driven seawater pump with a built-in strainer and pump drive shaft, for low torque resistance, has been described as the 'Turbo-Four' cooling system.

The exhaust system changes to full flow exhaust/intermediate design and incorporates an expanded burner, aluminium burner tubes.

Each cylinder individually fuelled and electronically controlled, designed/developed system which give the engine its unique characteristics of high fuel economy coupled with low engine noise.

A specially designed water cooled turbo-charger is fitted to the engine and the feature, coupled with the sophisticated air intake, gives the engine its superb performance.

A continuously rated output of 180 to 2200W at 2400RPM is available developed specifically for high reliability pleasure boat applications. This engine incorporates many special features and the approvals required for such applications, awarded extensively by the officers of industry and the Royal Navy.



## Mermaid Marine Engines Ltd





# 'Mistral'

Developing 130 (kW) (175 hp) at 2300 rpm (rev/min)



# Mermaid



## Marine Diesel Engine



The Mermaid 'Mistral' is a light-weight turbo-charged marine diesel engine to meet the demand for 130 kW (175 hp) marine diesel engines, and has been developed to be equally suitable for both pleasure craft applications and for commercial duties. The latest design applications are engine installations for the following typical Mermaid features:

- The engine water-cooling system is a high capacity and efficient one with cooling water pumped directly from the sea through a stainless steel pump and a stainless steel water-cooler.
- The exhaust discharge leads to an advanced thermal noise attenuation arrangement to give extremely quiet noise.
- A specially designed water-cooled after-cooler is fitted to the engine, cooling feature coupled with turbo-charging and stainless steel gives the engine its superb performance.
- A wide range of marine accessories are fitted around the main application of the engine.

Each engine is individually hand built under strict quality control conditions and inspected at every stage of assembly. Finally each engine is thoroughly dynamometer tested to ensure total reliability in service.



## Mermaid Marine Engines Ltd



# 'Mermaid' Merma Diesel Engine

Dimensions in millimetres (inches)



Approximate dry weight 400 kg (882 lbs) Maximum operating speed 3000 rev/min with 1000 mm stroke

## Specification

No. of cylinders 4

Max. 100 mm (3.94 in)

Stroke 170 mm (6.69 in)

Capacity 3000 cc (183 cu in)

Compression ratio 17:1

Performance  
 Fuel/air 14.5:1  
 Fuel consumption 200 g/kWh  
 Maximum torque 100 Nm  
 Max. 1000 mm (3.94 in)

Stroke 170 mm (6.69 in)

**Features:** The Mermaid Merma Diesel Engine is a four-cylinder, four-stroke, water-cooled, turbocharged diesel engine.

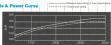
**Construction:** The Mermaid Merma Diesel Engine is constructed from cast iron and steel. The cylinder block and head are cast as one piece. The crankshaft is made of forged steel. The pistons are made of aluminum alloy.

**Operation:** The Mermaid Merma Diesel Engine is designed for operation at 3000 rev/min. The maximum torque is 100 Nm. The maximum power is 100 kW.

**Applications:** The Mermaid Merma Diesel Engine is suitable for use in a wide range of applications, including power generation, marine propulsion, and industrial machinery.

## Performance Details & Power Curve

Power (kW)	Power (hp)	Speed (rev/min)	Stroke (mm)
100	134	3000	170
100	134	3000	170
100	134	3000	170
100	134	3000	170



Note: For complete details on the Mermaid Merma Diesel Engine, please contact your local distributor.

## Mermaid Marine Engines Limited

1000, Victoria Road  
 Port of Spain, Trinidad  
 Telephone: (868) 622-2222  
 Fax: (868) 622-2222

Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_  
 Zip: \_\_\_\_\_  
 Country: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_





**NEW**  
NEW DEVELOPMENTS  
FROM 2000cc to  
2000 cc per min.  
**'Monarch'**

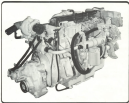


# Mermaid



## Marine Diesel Engine

Developing 900w (1200W) to 2000w (2700W)



©

The Mermaid Monarch 2000cc water-cooled and fuel-injected marine diesel engine is based on the Fiat 2000cc base engine and has been developed as a high performance diesel engine particularly for pleasure craft but a continuously rated engine suitable for full commercial work. To meet these objectives the engine incorporates the following specifications:

1. Water-cooled, turbo-charged, fuel injection system.
2. An oil sump with cooling system incorporated to maintain lower temperatures.
3. An exhaust design which allows a high flow velocity, thereby eliminating the need for a silencer to be fitted.
4. Access to all major service points including propeller clearance incorporated for easy operation.
5. A complete fuel injection system incorporating a high speed fuel injection and a variable rate electronic fuel control system.
6. Specialised rubber boots which help protect the engine from water damage.



# Mermaid Marine Engines Ltd



Advantages of Diesel Engines in Boatboard



For more information, visit our website [www.manifold.com](http://www.manifold.com) or call us at 1-800-555-1234.

Specifications

<b>Model</b>	M-1000	<b>Weight</b>	1500 lbs (680 kg)
<b>Dimensions</b>	48" x 36" x 42"	<b>Max. RPM</b>	2400
<b>Power Output</b>	100 HP (75 kW)	<b>Max. Torque</b>	120 lb-ft (163 Nm)
<b>Engine Type</b>	4-Cylinder Diesel	<b>Max. Fuel Consumption</b>	25 GPH (95 LPH)
<b>Starting System</b>	12V DC	<b>Oil Capacity</b>	10 Quarts (9.5 L)
<b>Accessories</b>	Includes alternator, water pump, and cooling fan.	<b>Warranty</b>	3 years / 3000 hours

Performance Details & Power Curve

Engine Speed (RPM)	Power (HP)	Torque (lb-ft)	Fuel Consumption (GPH)
1800	75	100	18
2100	85	110	20
2400	100	120	25



Note: Performance may vary based on operating conditions. All specifications are subject to change without notice.

**Manifold Marine Engines Limited**  
 123 Ocean Blvd.  
 San Francisco, CA 94101  
 Phone: (415) 555-1234  
 Email: [sales@manifold.com](mailto:sales@manifold.com)  
 Website: [www.manifold.com](http://www.manifold.com)

**Notes:**



Mermaid Marine Diesel Engine

## 'TURBO-FOUR II'



Developed  
specifically for  
1800 hp use

The Mermaid Turbo-Four II is a cylinder turbo, charge-cooled, indirect injection diesel engine and is based on the highly successful four-cylinder Mermaid "General" industrial engine. Through its engineering it has a great inherent capability for operation in both commercial applications, and is suitable for high-speed, fast and slow-speed use in all forms.

To meet the requirements of these various applications the engine incorporates the very latest diesel engine technology techniques, turbo-charged exhaust systems with water-cooled air-to-air inter-coolers, and a host of other advanced features.

Each engine is fitted with high-strength materials and incorporates a unique design of overhead heat exchanger and exhaust manifold and a freshwater-cooled air filter to maintain optimum air temperature. It also incorporates built-in sea water cooling pumps and the ability for the sea water to which Mermaid engines are designed.

Mermaid's turbo engine is dynamically tested to ensure a performance specification equivalent to that of the best industrial diesel while in commercial duty. It's proven under the engine throughout its life.



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# Mermaid



## Marine Diesel Engine

### 'Turbo-Plus'

Developing 200kw (270bhp) at 2300rpm



The Mermaid 'Turbo-Plus' 4 cylinder turbocharged in-line diesel engine has been designed to give you maximum performance and is particularly suitable for high speed pleasure craft. Due to its compact size it integrates the engine, alternator, fuel injection and cooling components.

- 1. A seawater cooling/charge and fuel supply system with filtered cooling passages for complete and trouble free operation.
- 2. A full service fuel water cooling water temperature hot and hot-charger switches, thermostat, timing and 100% electric starter facilities including glow-plugs for cold starting.
- 3. Proven technology design allows trouble free operation at all speeds, including water skiers, low speed operation for cruise operation under sustained high speeds.
- 4. Full protection, built-in, overload, safety, anti-cavitation, Reverse-Overhaul, low speed, timing, and fuel injection, and cooling systems.

A 200kw (270bhp) is available for sport/cruiser applications with applications as to a continuously rated motor which can be adapted over to 2.7 tonnage and is fully approved for inland boat and other commercial applications.



## Mermaid Marine Engines Ltd

# Mermaid Turbo-Plus<sup>®</sup> Marine Diesel Engine



Dimensions in millimetres/inches



Approximate dry weight/200 kg (440 lbs) Maximum operating weight 207

## Specifications

<b>Displacement</b>	4	<b>Model</b>	400
<b>Year</b>	1996 to 2000		
<b>Make</b>	Yanmar		
<b>Capacity</b>	2000 cc/121 cu in		
<b>Displacement/HP</b>	100		
<b>Performance</b>	<p>1. 1000 RPM/2000 cc/121 cu in                      2. 1000 RPM/1000 cc/60.5 cu in                      3. 1000 RPM/500 cc/30.25 cu in                      4. 1000 RPM/250 cc/15.125 cu in                      5. 1000 RPM/125 cc/7.5625 cu in                      6. 1000 RPM/62.5 cc/3.78125 cu in</p>	<b>HP/2000 cc</b>	<p>1. 1000 RPM/2000 cc/121 cu in                      2. 1000 RPM/1000 cc/60.5 cu in                      3. 1000 RPM/500 cc/30.25 cu in                      4. 1000 RPM/250 cc/15.125 cu in                      5. 1000 RPM/125 cc/7.5625 cu in                      6. 1000 RPM/62.5 cc/3.78125 cu in</p>
<b>Performance</b>	1000 RPM/1000 cc	<b>HP/1000 cc</b>	1000 RPM/1000 cc
<b>Additional</b>	<p>1. 1000 RPM/1000 cc                      2. 1000 RPM/500 cc                      3. 1000 RPM/250 cc                      4. 1000 RPM/125 cc</p>	<b>HP/500 cc</b>	1000 RPM/500 cc
	<p>1. 1000 RPM/500 cc                      2. 1000 RPM/250 cc                      3. 1000 RPM/125 cc</p>	<b>HP/250 cc</b>	1000 RPM/250 cc
	<p>1. 1000 RPM/250 cc                      2. 1000 RPM/125 cc</p>	<b>HP/125 cc</b>	1000 RPM/125 cc

## Performance Details and Power Curve

1000 RPM/1000 cc/60.5 cu in  
 1000 RPM/500 cc/30.25 cu in  
 1000 RPM/250 cc/15.125 cu in  
 1000 RPM/125 cc/7.5625 cu in

1000 RPM/2000 cc/121 cu in	1000 RPM/1000 cc/60.5 cu in	1000 RPM/500 cc/30.25 cu in	1000 RPM/250 cc/15.125 cu in	1000 RPM/125 cc/7.5625 cu in
1000 RPM/1000 cc/60.5 cu in	1000 RPM/500 cc/30.25 cu in	1000 RPM/250 cc/15.125 cu in	1000 RPM/125 cc/7.5625 cu in	
1000 RPM/500 cc/30.25 cu in	1000 RPM/250 cc/15.125 cu in	1000 RPM/125 cc/7.5625 cu in		
1000 RPM/250 cc/15.125 cu in	1000 RPM/125 cc/7.5625 cu in			
1000 RPM/125 cc/7.5625 cu in				



Note: For more engine information, visit our website at [www.yanmar.com](http://www.yanmar.com) or contact your distributor.

## Mermaid Marine Engines Limited

1000 RPM/1000 cc  
 1000 RPM/500 cc  
 1000 RPM/250 cc  
 1000 RPM/125 cc

## Options





Mermaid Marine Diesel Engine

# 'MIRAGE II'

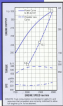


Developing  
200 b.h.p. at  
2000 r.p.m.

120 000

The Mermaid 'Mirage II' is a 4-cylinder, turbocharged and air-to-air cooled marine diesel engine and is based on the highly reliable/efficient 'Mirage' industrial engine. The engineering solution for intensive commercial applications and in particular for displacement fishing vessels and motorboats of all sizes. The complete engineering of the engine (based on the concept of design and building) makes it possible to work according to the requirements of the world. The engine may also be specified by the operating station and cover over a large range of development in power.

Below the requirements of these special applications the design incorporates the advanced-level engine technology to minimise water intake and exhaust emissions while maintaining an exceptionally low fuel-consumption level engine & fuel-cell. In the typical marine standard configuration, a purpose-designed exhaust gas purifier and air-to-air heat exchanger ensure maximum protection against contamination of the engine oil and the water surrounding the engine. In any event, when the fuel-water separating system and the alternative for the water velocity for which Mermaid engines are designed. The secondary air intake is continuously tested to ensure it conforms to specifications. A fully automatic water alarm and a reference that enables to protect the engine throughout its life.



Mermaid Marine Engines Ltd





# Mermaid Marine Diesel Engine



## MAGNUM 17

Engine modelled for application  
on motorboats, fishing boats, etc.



### Specifications

No. of cylinders: 4  
Bore: 4.41 in (112 mm)  
Stroke: 4.86 in (123 mm)  
Capacity: 40 l (10.7 US gal)  
Compression Ratio: 17.5:1  
Fuel System: Bosch electronic injection pump with variable speed governor, and automatic starting and stop controls. Afloat fuel water pump for stoppage time as standard.

### Construction

Lubrication: Pressure lubricated through fuel pump, gear oil filter and fuel water separator.

### Cooling

An indirect cooling system is standard incorporating a high capacity heat exchanger and plate cooler for water pump. The freshwater cooling circuit is closed and thermostatically controlled and includes a variable speed water pump. Standard 4 speed fan.

### Electrical system

The standard 12 volt electrical equipment includes a 15 amp alternator and a 12 volt water pump. Optional extra equipment includes 24 volt electrical system and fuel or high speed alternator as required. A 10 ampere fuse is provided per 1000 W of electrical equipment.

### Temperature

Temperature: The engine is fitted with an automatic fan belt drive temperature and low oil pressure is provided with a 10 ampere fuse per 1000 W of electrical equipment.

### Accessories

The following equipment is provided as standard with every engine. For available marine engine mounting, marine water pump for speed engine control, marine water pump equipped for 1" hose and 1/2" hoses. A very comprehensive range of optional equipment is available to provide a complete installation (package) for your motor.

### Warranty

Transmission

The standard transmission is the heavy duty Free Flow Model 18, but other transmissions can be fitted to suit customer requirements and alternative models include P110. Reducer ratio from 1.1 to 2.1 are available. [www.mermaid.com](http://www.mermaid.com)



Mermaid Marine Engines (UK) Limited

**Mermaid Marine Engines Limited**  
10-12 Tipton Road  
Farnborough, Hampshire  
Wokingham, Dorset Street, Wey, England  
Tel: 01962 85111 Fax: 01962 85111