

"Miniature Steam" Twin Cylinder Slide Valve Vertical Steam Engine "Mildura"



The **Mildura** is the most popular engine in our range of slide valve engines. The crank throws are at 90° giving the engine self starting characteristics at any position of the crankshaft.

Mildura is available in **five** versions:

- 1 - Fully assembled engine with RC control linkage for reversing and speed control and a low profile stainless steel flywheel that minimises space requirements in the boat
- 2 - Fully assembled standard engine with manually controlled linkage for reversing & speed control
- 3 - Fully assembled engine with no reversing
- 4 - Casting kit for standard reversing engine for those with advanced machining skills.
- 5 - Casting kit for standard non reversing engine for those with advanced machining skills.

Each option is supported with comprehensive documentation appropriate to the task.

Note: Manual operation of the reversing linkage is standard. .



1. Fully Assembled Reversing Engine with RC Reversing Control for Marine Applications



2. Fully Assembled Engine with Manually Operated Reversing



3. Fully Assembled Non Reversing Engine

"Miniature Steam" Mildura Facts Sheet



**4. Reversing Casting Kit
for Machining**



**5. Non Reversing Casting Kit
for Machining**

Specifications:

19 mm bore x 19 mm stroke,
80 mm dia x 15 mm wide flywheel—standard
50 mm dia x 16 mm wide **optional** low profile marine flywheel
Maximum length—approx 163 mm
Width without displacement lubricator approx 95 mm
Width including displacement lubricator approx 130 mm
Height with standard flywheel—approx 153 mm
Height with marine flywheel—approx 135 mm
Weight

Marine RC Model—1990 gms
Reversing Model—2020 gms
Non reversing Model—1900 gms

A displacement lubricator is included in each assembled engine package.

Suitable for boats up to 2.1 M (7') long.

Matched to "Miniature Steam" 4" Boiler operating at 80psi (see image below and separate facts sheet)

Replacement parts are available for all engine components.



"Miniature Steam" 4 Inch Horizontal Boiler

Materials:

The "Miniature Steam" Mildura steam engine is made from highest quality materials. The cast components are made from a combination of bronze and copper based marine grade alloy using the lost wax (investment) casting process. This casting process produces a super fine surface finish in combination with accuracy of detail and dimension. The fully balanced crankshaft is made from Spheroidal Graphite (S G) cast iron to achieve optimum mechanical properties. The remainder of the machined components are made from brass and stainless steel. This combination of alloys provides maximum protection from corrosion and durability during service life of the steam engine.

Miniature Steam Pty Ltd.
Bringing the Highest Quality Standards to Model Engineering

Machining Plans
"Miniature Steam" "Mildura"
Twin Cylinder Vertical Engine



3/4-inch (19mm) bore/stroke
Reversing and Non-reversing Models

Manufacturer:
Distributed:
Miniature Steam Pty Ltd
Factory 4
Warehouse
65 Canterbury Rd
Montrose Victoria 3765
Australia

Europe:
JETTIA Ltd
Model Marine
Hazelet
Dordrecht
England WR9-7DS

**Machining, & Operating Manuals
Supplied With Casting Kits**

Manufacturer:

Miniature Steam Pty Ltd
Factory 4
65 Canterbury Rd
Montrose Victoria 3765
Australia
Phone +61 3 9728 6281
Fax +61 3 9728 6285
Email: info@miniaturesteammodels.com
Web: www.miniaturesteammodels.com