



"Miniature Steam" Oscillating Steam Engines Avon, Tyne & Clyde



Avon Fully Assembled Engine

Avon - a twin cylinder 8 x 11mm bore/stroke oscillating engine. Designed using a 3D CAD design system and machined using the latest CNC lathe and machining centre technology, provides the basis for this unique engine to perform well above any engine with comparable dimensions. Suitable for powering boats up to 750 mm (30") length and 150 mm (6") beam and requiring steam power for authenticity.

Dimensions:

Weight - 450 g (16 oz)

Total length 90 mm (3.54") including output shaft

Length not including output shaft 80 mm (3.15")

Height 85 mm (3.35")

Width including displacement lubricator 65 mm (2.56")

Available as fully assembled engine or self assembly kit as shown

Matched to "*Miniature Steam*" 2" Boilers.



Avon Self Assembly Kit



Tyne Fully Assembled Engine

Tyne - a single cylinder 11 x 11 mm bore/stroke oscillating steam engine - primarily developed as an engine suitable for the education of engineering students in the basics of steam powered devices. It is a subset of the Clyde engine below. Ideal for entry level into steam driven model boats up to 750 mm length where the reversing function is not required.

Dimensions:

Weight 270 g

Length 70 mm

Height 70 mm

Width including displacement lubricator 80 mm

Available as self assembled kit only, as shown.

Matched to "*Miniature Steam*" 2" Boilers"



Tyne Self Assembly Kit



Clyde Fully Assembled Engine

Clyde - a twin cylinder 11 x 11 mm bore/stroke, very powerful twin cylinder oscillating engine that will operate comfortably with steam pressures up to 60 psi. Suitable to power boats up to 1.1 meters long. (Caldercraft Imara, Marie Felling & Resolve)

Dimensions:

Weight - 390 gms.

Length - 90 mm

Height - 85 mm

Width including displacement lubricator - 80 mm.

Available as fully assembled engine or self assembly kit shown.

Matched to a "*Miniature Steam*" 3" Boilers"



Clyde Self Assembly Kit

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Castings (made by the lost wax process) for both the **Tyne** and **Clyde** are made from a corrosion resistant copper based marine grade alloy. Non cast components for all three engines are made from copper, high grade corrosion resistant brass and stainless steel alloys as appropriate. All machining is done using state of the art CNC lathe and machining centre technology.

Replacement parts are available for all components as supplied in the kits.

Manufacturer:

Miniature Steam Pty Ltd

PO Box 16

Montrose Victoria 3765

Australia

Phone +61 3 9728 6281

Fax +61 3 9728 6285

Email: info@miniaturesteammodels.com

Web: www.miniaturesteammodels.com