



Petticrows Evolution Mast Guide

The result of several years of development, the Evolution Mast exceeded our expectations in terms of quality and performance.

It was identified that a front weld taper at the tip of the mast would be ideal to ensure a smooth bend throughout its length.

The process is technically challenging because the selected aluminium needs to be heat-treated (tempered) after the tapering/machining process is completed. Petticrows partnered with Super Spar, the world leading 470 mast producers, who are experts in this field.

Two stiffnesses are available: Standard (eMast) and Stiff (eMast+).

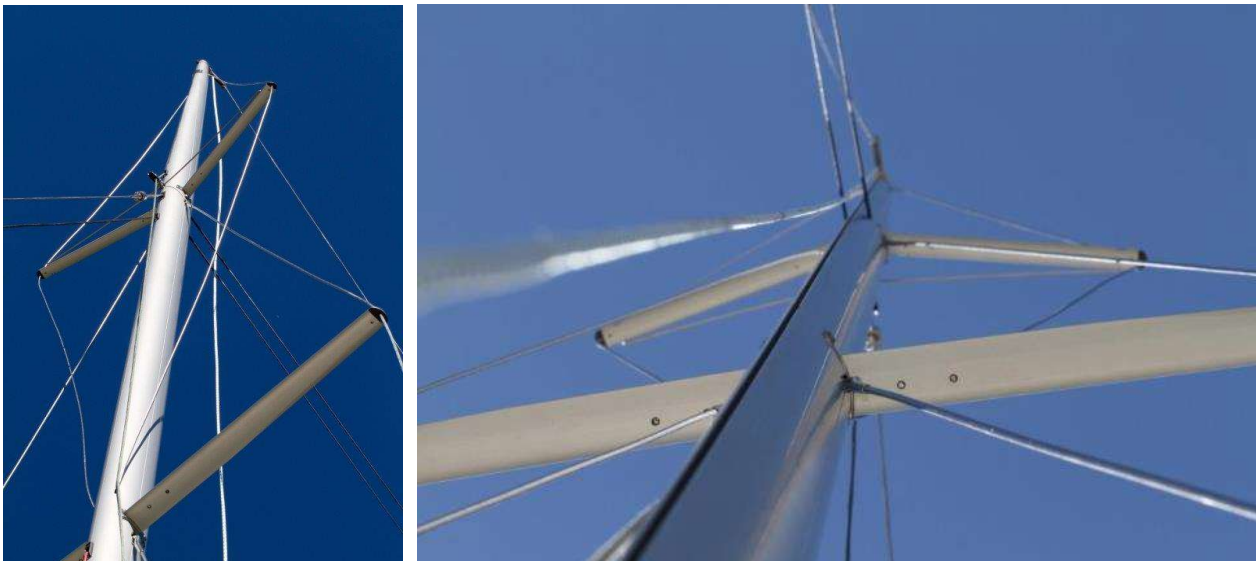
Both sections have the same external dimensions, but the eMast+ has a slightly thicker wall section, making it overall stiffer.

The mast has been modernized with a new range of light and low drag fittings designed for easy servicing.

Choice of the traditional non-rotating boom to mast connection OR rotating boom to mast connection. The rotating style decreases the forces on the mast. These are used in conjunction with a hydraulic boom lift or the fixed style boom lift.

Sailors began using the Evolution section mast in 2018 with Jurgen Schoenherr winning Helsinki Gold Cup overall and Provezza Team winning three consecutive races – both teams were using the standard eMast.

In the 2019 Worlds Fremantle Provezza Team also overall using an eMast+ section, Klaus Diederichs 3rd using a standard eMast and Peter Gilmour 4th using an eMast+.



E or E+ sections are now standard on all new boats.



Basic gooseneck and mast ram/kicker fittings on the 2019 Petticrows Evolution mast range.

Added to these fittings, the options are:

1. Non-rotating boom gooseneck connection OR
2. Rotating boom gooseneck connection

If **non-rotating boom** gooseneck connection is chosen, the kicker/boom lifter options are:

Hydraulic strut which doubles as boom lifter and kicker system

OR

Petticrows batten boom lifter WITH separate T- terminal/Dyneema kicker system

OR

No boom lifter and only T-terminal/Dyneema kicker

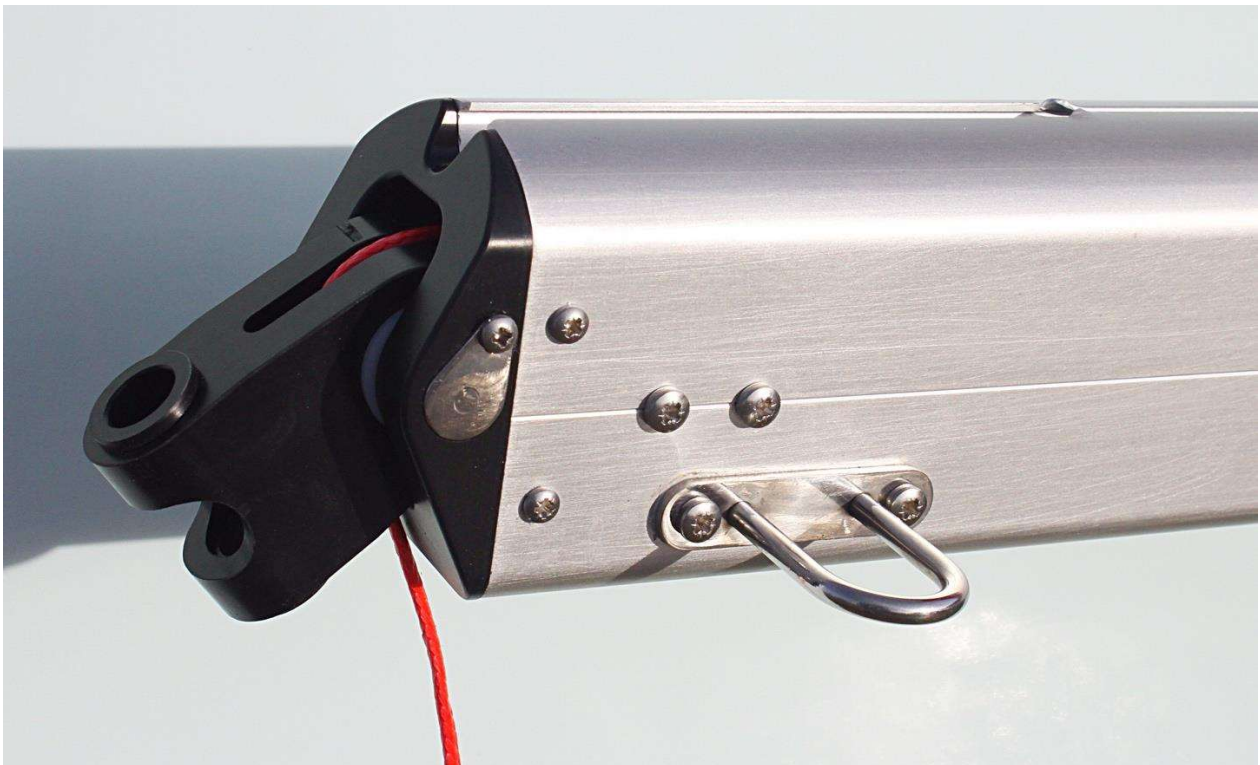
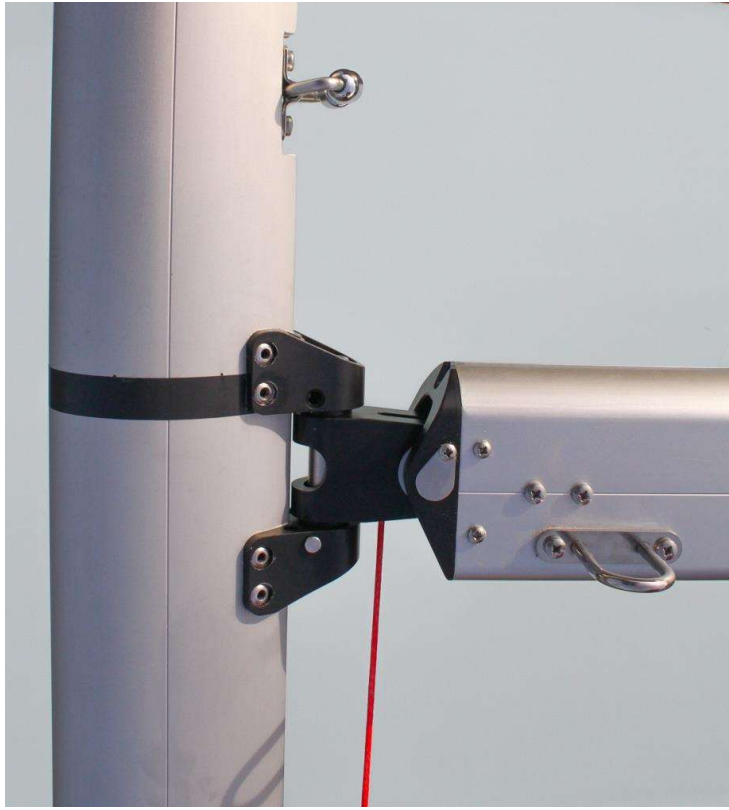
If **rotating boom gooseneck** connection is chosen, kicker/boom lifter options are:

Petticrows batten boom lifter WITH separate T- terminal/Dyneema kicker system

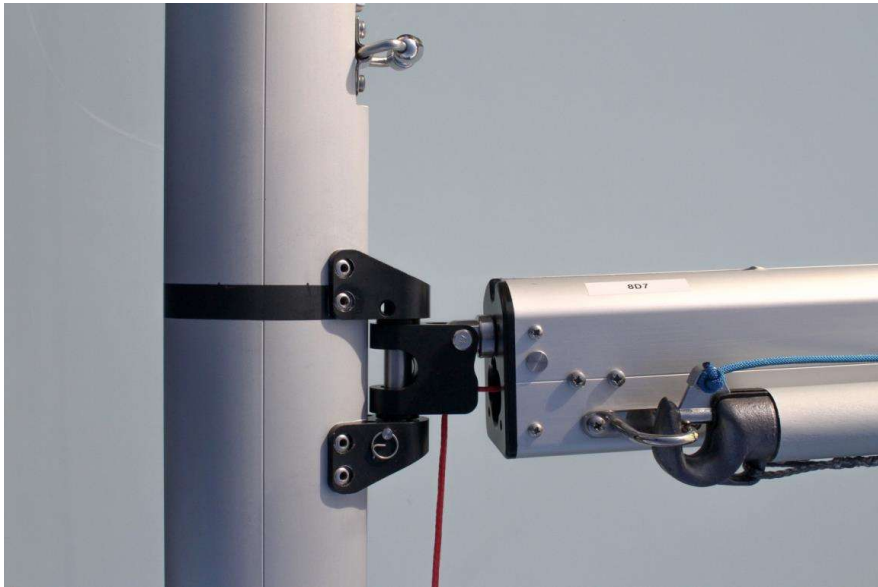
OR

No boom lifter and only T-terminal/Dyneema kicker

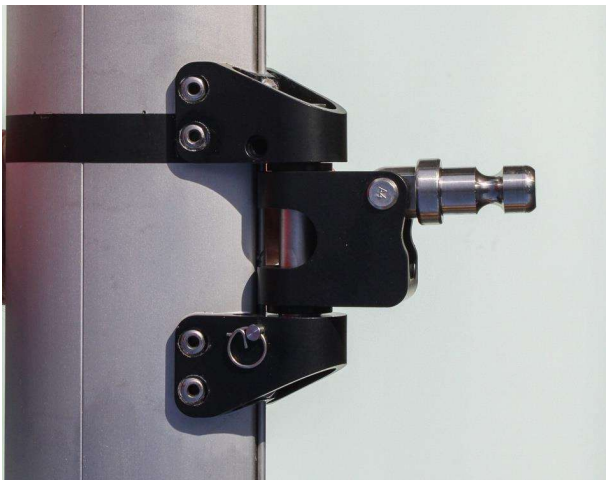
Non-rotating boom end detail



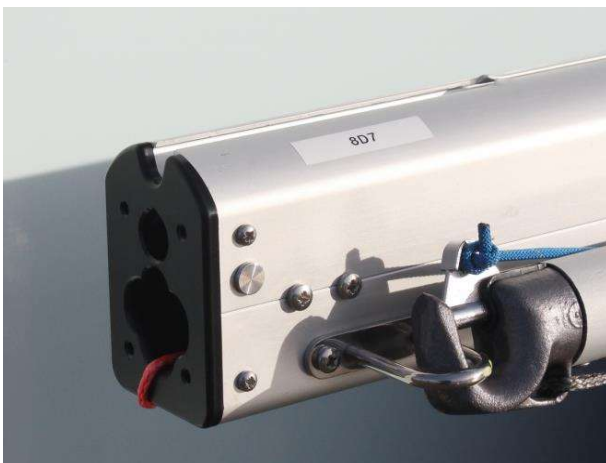
Rotating Boom gooseneck connection



Requires toggle on mast gooseneck



Rotating boom toggle

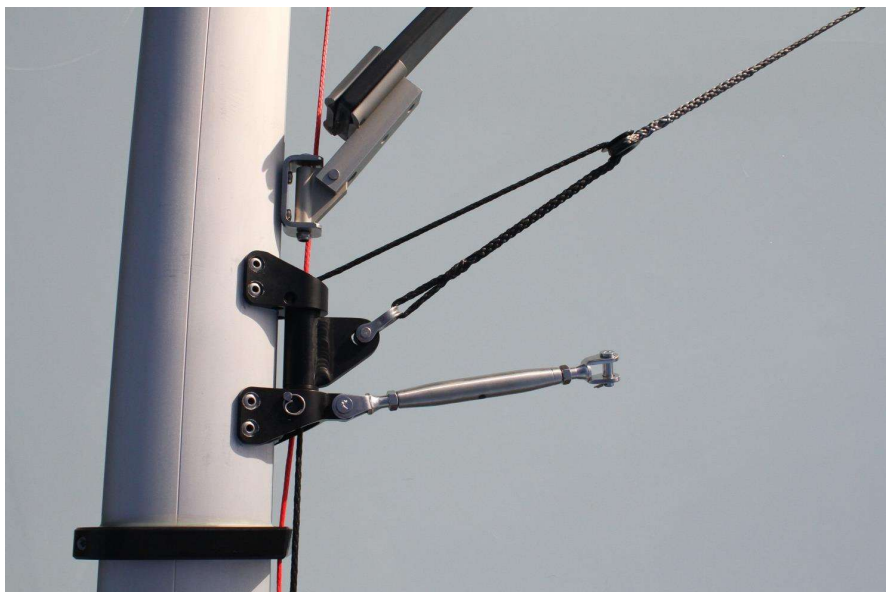


Rotating boom inboard end detail

Non-rotating boom gooseneck connection option with hydraulic boom lift/kicker



Non-rotating boom gooseneck connection option with hydraulic boom lift/kicker



Rotating boom gooseneck connection with Petticrows batten boom lifter and separate T-terminal Dyneema kicker system

