

Petticrows E - mast

The Petticrows Evolution (E) mast has been several years in development.

We identified that ideally we would like front weld taper at the tip of the mast to ensure that masts have a smooth bend throughout.

This process is technically quite difficult as the aluminium selected needs heat treating (tempered) after the tapering/machining process is completed. We have worked together with Super Spar the world leading 470 mast producer who are experts in this field.

Two stiffnesses available. Standard - E mast and the Stiff - E + mast

Both sections have the same external dimensions but the E+ has slightly thicker wall section therefore overall stiffer.

We have modernised the mast with a new range of light, low drag fittings which have been designed to allow 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 E mast.

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

E or E+ sections will come as 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:

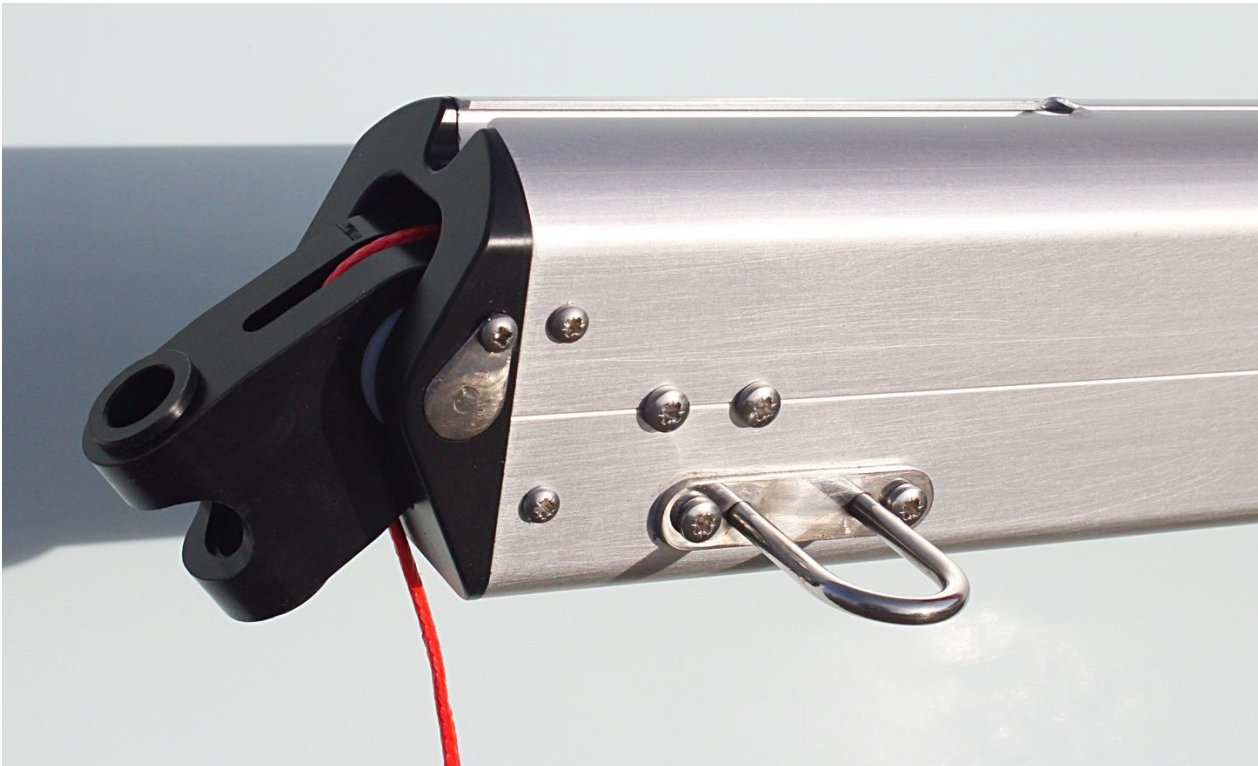
Petticrows batten boom lifter WITH separate T-terminal/Dyneema kicker system

OR

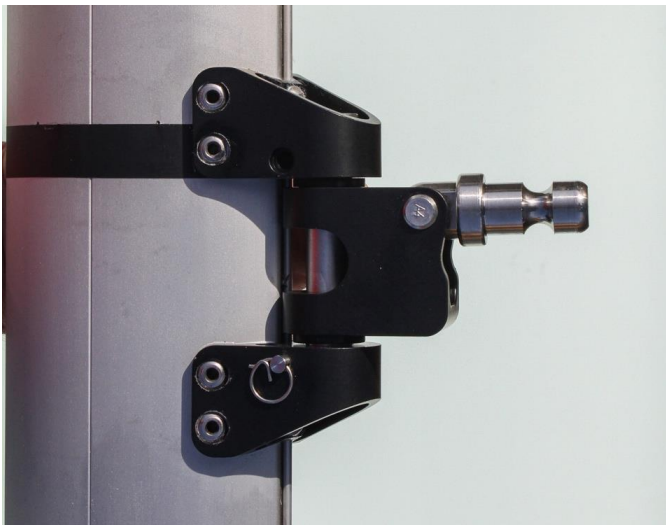
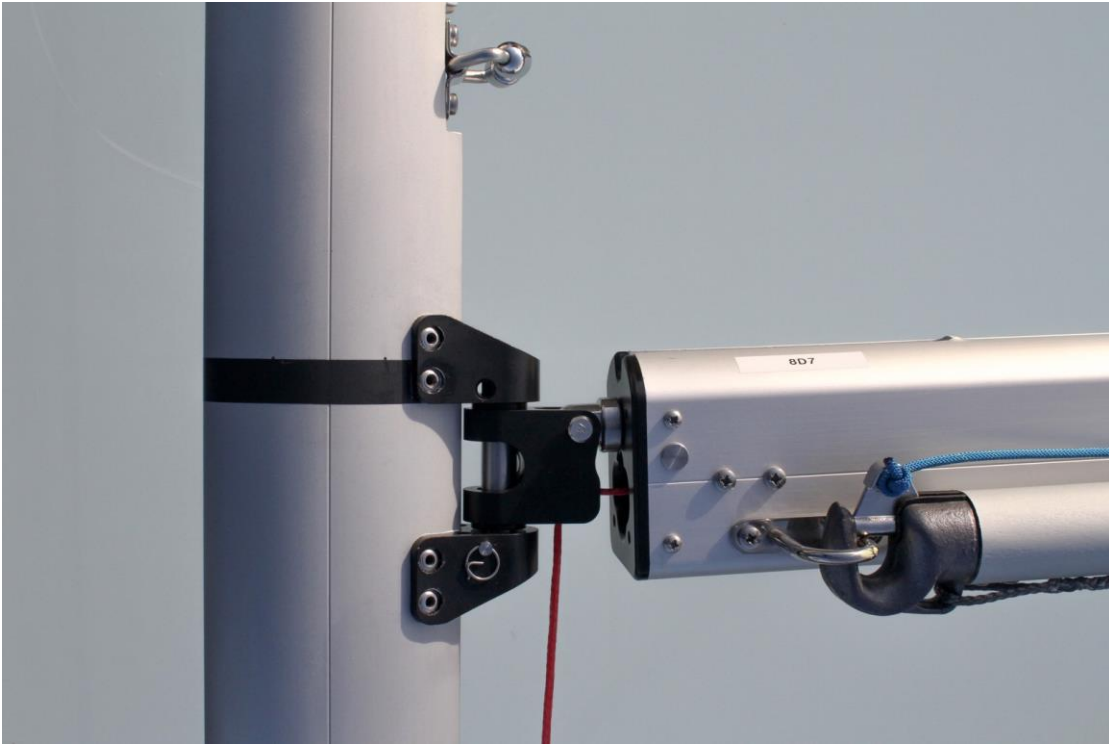
No boom lifter and only T-terminal/Dyneema kicker



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 connection option with Petticrows batten boom lifter and T-terminal Dyneema kicker



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

