

INNERFORESTAY

Cariboni offers two main kind of inner forestay cylinders designed for racer and cruiser yachts.

For the racer VOR70 yachts, which requests to have a powerful control of the storm jib stay with a self-alignment, Cariboni has designed a dedicated ram with integrated head sphere to avoid any dangerous overload. A rubber cap protects the spherical system from water and salt keeping waterproof the deck. This kind of system is powerful but it needs a lot maintenance and it impacts a lot on the deck layout.

For fast cruiser sailing yachts, Cariboni offers a different solution based on standard single acting cylinder which is full installed under the deck for a flush design.

The system is made up by three mains parts:

- A single acting cylinder
- A manual turbuckle
- An upper guide tube

The hydraulic ram, place on the lower part of the system, is fixed by a chainplate inside the boat and pull down the stay by the hydraulic power; a gas spring help the system when easing.

The upper cylinder works as a guide for the piston where is fixed the lashing hook (have a look to the picture on the left side) where the stay is fixed.

To easy match together these two parts, a turnbuckle is place between the two rods to trim the distance between the hydraulic cylinder and the upper guide.

Both inner forestay models are available in many sizes and strokes to copy designers requirements.

The lashing hook is supplied with the forestay cylinder and it is made on Dyneema®.



Cariboni's inner forestay ram with lashing arrangement

MODEL	Max pull load		Stroke		L min (pin to pin)		Weight		Working pressure		Oil vol.
	kg	lb	mm	in	mm	in	kg	lb	bar	psi	litres
PT 055 S 0250	7072	15.389	250	9,8	1401	55,15	8,5	18,67	350	5000	0,58
PT 055 S 0400	7072	15.389	400	15,7	1123	44,21	6,8	14,9	500	7145	0,82
PT 070 S 0260	11.983	26.418	260	10,2	1497	58,93	12,2	26,8	350	5000	0,7
PT 070 S 0270	11.983	26.418	270	10,6	1528	60,15	12,8	28,2	350	5000	0,9
PT 070 S 0300	11.983	26.418	300	11,8	1621	63,82	14	30,8	350	5000	1,1
PT 100 S 0500	25.197	55.550	500	19,7	2430	95,70	40.4	88,8	350	5000	3,5

NEW!

(1) From pin to tube end (for PT 055 model) (2) Design for 500 bar working pressure



Swan 82' design by Frers. With the under deck inner forestay hydraulic tensioners, a full flush and clean design of the bow comes true. On the right, the Cariboni's innerforestay cylinders.