

When planning the installation of a large Yagi antenna, the need for a Strut Kit to properly support the boom long term is a vital consideration. The main factors which determine the need for a Yagi Strut Kit are :

- The antenna boom length, weight and wall thickness.
- Wind loading and potential for side-to-side flutter of the boom, particularly in coastal and alpine regions.
- The usual weather conditions at the site, especially if snow is likely during the winter months.
- Birds perching on the antenna boom.



All of the large Yagi **Y100**, **Y200** and **Y300** series antennas will most definitely require a support strut kit due to their sheer size and weight. The right-angle mast clamp alone will certainly not be sufficient.

Yagi 15 element models **Y415**, **Y615TV**, **Y815** and **Y815-20RL** with a boom 1.85 metres and longer should also receive consideration as candidates for support struts, particularly the heavier stainless steel models.

ZCG Scalar construct Yagi Strut Kits from fibreglass rod with stainless steel end lugs. Our strut kits will therefore **not interfere** with either the tuning or radiation pattern of the Yagi.

Kits include all the clamps necessary for mounting the struts to a mast up to 50 mm in diameter. A right-angle clamp to mount the Yagi to the mast is available separately.

A Single Strut Kit is for situations requiring extra support for the length and weight of a Yagi boom not properly supported by a mounting clamp alone.



The 2-Way Strut Kit includes an aluminium boom which mounts to the mast above the Yagi.

The two fibreglass struts support the Yagi boom from above.

This arrangement provides additional stability against side-to-side wind flutter.



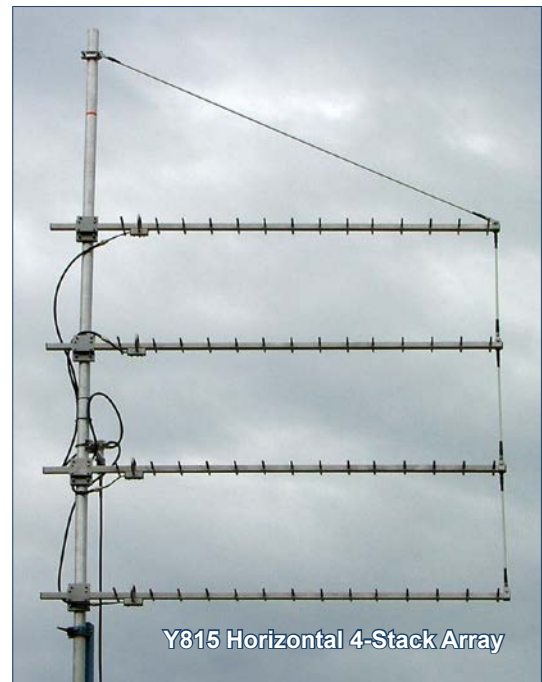
Where there is insufficient mast space available above the Yagi, then the alternative is a **“Compression” Strut Kit** which supports the Yagi boom from underneath.



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For Yagi's mounted in a stack array formation, ZCG Scalar can manufacture **Custom Design Kits** which include joining struts to maintain precise spacing between antennas according to frequency.

Pricing for custom design strut kits will depend upon requirements.



Order Code	Single Strut Kit Description
YS1-100	Single Strut Kit to suit any Y100 series Yagi mounted Horizontal . Support from above. Includes clamps.
YS1-23	Single Strut Kit to suit any Y200 or Y300 series Yagi mounted Horizontal . Support from above. Includes clamps.
YS1-23VP	Single Strut Kit to suit any Y200 or Y300 series Yagi mounted Vertical . Support from above. Includes clamps.
YS1-48	Single Strut Kit to suit 15 element models Y415 , Y615TV , Y815 or Y815-20RL Yagi mounted Horizontal . Support from above. Includes clamps.

Order Code	2-Way Strut Kit Description
YS2-100	2-Way Strut Kit to suit any Y100 series Yagi mounted Horizontal . Support from above. Includes aluminium boom and clamps.
YS2-23	2-Way Strut Kit to suit any Y200 or Y300 series Yagi mounted Horizontal . Support from above. Includes aluminium boom and clamps.
YS2-23/SS	2-Way Strut Kit to suit any Y200SS or Y300SS series Yagi mounted Horizontal . Support from above. Includes stainless steel boom and stainless steel clamps.
YS2-48	2-Way Strut Kit to suit 15 element models Y415 , Y615TV , Y815 or Y815-20RL Yagi mounted Horizontal . Support from above. Includes aluminium boom and clamps.

Order Code	Compression Strut Kit Description
YS2-C28	2-Way Compression Strut Kit to suit any Y200 or Y300 series Yagi mounted Horizontal . Support from underneath. Includes aluminium boom and clamps.
YS2-23C/SS	2-Way Compression Strut Kit to suit any stainless steel Y200SS or Y300SS series Yagi mounted either Horizontal or Vertical . Support from underneath. Includes stainless steel boom and stainless steel clamps.
YS1-C48	Single Compression Strut Kit to suit 15 element models Y415 , Y615TV , Y815 or Y815-20RL Yagi mounted either Horizontal or Vertical . Support from underneath. Includes clamps.
YS2-C48F	2-Way Fibreglass Compression Strut Kit to suit any Y200 , Y300 , Y400 , Y615TV , Y815 or Y815-20RL series Yagi mounted Vertical . Support from underneath. Includes clamps.