High Quality 24MHz / 12m Moxon rectangle redesigned by G0KSC

48 h

Description

Available through WiMo Germany and DX Engineering in the USA - for Direct factory supply, Email us for pricing and time lines.

www.dxengineering.com - www.wimo.com

A Moxon Rectangle (Yagi) for 24MHz - 12m

The Moxon Rectangle was first introduced by Les Moxon, G6XN during the 1950's. Since then it has been a very popular limited space Yagi do to its very compact size.

The Moxon Rectangle comprises of 2 elements, a driven element and a reflector element. The tips of each element are bent towards the other with the ga being filled by an insulator to help support the ends of both elements. This results in a rectangluar shaped antenna with directional properties and very good F/B ratio.

G0KSC has taken the original design and applied modern computer optimisation techniques to talior performance to suit specific bands (these are not simply scaled from one band to another) whcih results in exceptional, band-specific performance.

Marine Construction - Built to last

Our antennas are constructed with the best quality materials in order that the best mechanical construction can be achieved, not the cheapest and most profitable! Even a digital caliper is used (with an accuracy of 1mm) to measure the elements during production to ensure they are within 1mm of what they should be, this ensures performance is delivered.

- **Marine grade Stainless Steel Fittings**
- **Original Stauff Insulation clamps**
- **Mill finished boom and elements for highest levels of accuracy**

Customer review (WA2TD on Eham: https://www.eham.net/reviews/view-product?id=14496)

WA2TDE's comments about his 20m Moxon:

"Hello Mr. Johnson,

I am writing to tell you how pleased I am with both the mechanics and electrical performance of the Mox 14, two element beam antenna. The quality of the parts is outstanding with no burrs and everything fit together as it should. I am particularly impressed with the robust mechanical design of the element-to-boom attachment using threaded plates as well as lock nuts. I noticed the boom was bit bigger than in the specifications on line and the antenna bit heavier but that will make it hold up even better against snow and wind here on the eastern end of Lake Erie.

The antenna has been operational for the last three weeks and is mounted on a 35 foot, Penninger aluminum mast which allows me to raise and lower the mast and antenna with a hand winch. I would love to have it up 60 or more feet but the presence of power mains along the rear of my yard and certain building codes limit the height I can use. Still, the antenna outperforms my doublet array (3 non-resonant, selectable 55' doublets at the same height.) The 4 dBd gain helps a bit but it is the great front-to-back ratio that really improves my receive capabilities due to the improvement in signal to noise ratio. The antenna has a very low VSWR across the whole 20 meter band and the front-to-back ratio is still about 18-20 dB at the band edges and appears to exceed 30 dB near the band center Unlike other manufacturer's antennas, this model meets its published specifications. I did not want to compromise gain or front-to-back since I already had to compromise on antenna height and also wanted a very light weight and rugged antenna that would really improve my 20 meter performance. The MOX 14 exceeds my expectations in this regard.

Attached are a few pictures of the installation.

Thanks for the nice product,

Dennis Hohman WA2TDE"

For more information This email address is being protected from spambots. You need JavaScript enabled to view it.

Performance

Gain: 6.13dBi Typical

F/B: 29.91dB @ 24.98MHz

Peak Gain: 6.15dBi

Gain 9m above ground: 11.13dBi

Peak F/B: 30dB

Power Rating: 7kw

SWR: Below 1.2.1 from 24.8MHz to 25MHz

Boom Length: 160cms

Antenna Width: 4.45m

Weight: 6Kilos / 13Lbs

Vertical Stacking: 4m apart

Safe Wind Speed: 100MPH+/160KPH

Specification

This antenna is made with tapered element sections starting at 3/4'' tube and finishing at 1/2'' tube. It also has fully insulated elements which will ensure continuous, high performance and ensures corrosion will not impact performance. Marine grade stainless steel is used throughout. M4 terminal coaxial termination is provided on this antenna. The boom is 1.25'' inch square 16SWG aluminium to ensure strength and rigidity and has a **safe wind speed handling of well over 100MPH.**

No figures are made up here as they are in some Ham Radio adverts, all performance figures are verified in the very latest software simulation packages with some antennas being professionally confirmed on an antenna range.

Manufactured the right way, not the cheapest way!

Trade Enquiries Welcome
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