TET-EMTRON®

ANTENNA SYSTEMS

PHASED DUAL DRIVE HI-GAIN MULTI-BAND ANTENNAE

About 10 years ago, TET of Japan were the first to successfully combine the high performance characteristics of the "Dual Drive" concept with the multi-band convenience of modern beams. The dual drive system as employed by TET used a special feed arrangement which feeds both the reflector and radiator elements. This method resulted in a wider band width than conventional multi-band designs. The antennae produced by TET of Japan were widely recognised as the leading performers over the past decade.

Now "TET-EMTRON ANTENNA SYSTEMS", a division of Emona Electronics of Sydney, Australia, have combined a considerably improved phase feed matching system with a complete mechanical redesign to make these new antennae not only equally outstanding in performance but also the most rugged antennae on the market today.

The new matching system provides an increase in gain roughly comparable to adding another element to the antenna while significantly improving the front-to-back ratio. The performance of this new system exceeds even conventional YAGI-UDA designs and these new multi-band beams exhibit extremely flat VSWR over a very wide frequency range. Such broad band width permits use of modern solid state transceivers on both the PHONE and CW sub-bands without the necessity of an external antenna tuner.

This unique feature has made TET-EMTRON antennae extremely simple to assemble, as no tuning to a particular sub-band (phone or CW) is required an all assembly holes are pre-drilled. ALL YOU NEED IS A SCREWDRIVER!

The innovative designs featured in the quad band beams have proven their cost-effectiveness by providing fully operable performance by employing all elements to provide gain. This improvement results in performance on the 40 metre band above the conventinal add-on dipoles normally featured on other tri-banders.

Six new models employing this basic concept are featured in the introduction of this new TET-EMTRON line of antennae. The HB33DX and the HB43DX are derived directly from the proven successful HB33SP and HB43SP models. The HB443DX quad-band beam is also derived and improved from earlier predecessors. The HB464DX is a new higher-performance quad-bander produced for the discriminating HF-DXer who seeks the ultimate in performance with multi-band capability. The new line rounds out with the HB33MDX and HB23MDX mini-beams for those with space or other restricted installation limitions.

All TET-EMTRON antennae are made of the finest materials available, such as high grade aluminium and stainless steel.

Purchasing this unique new antenna is sure to give you many years of satisfaction and successful DX-ing!

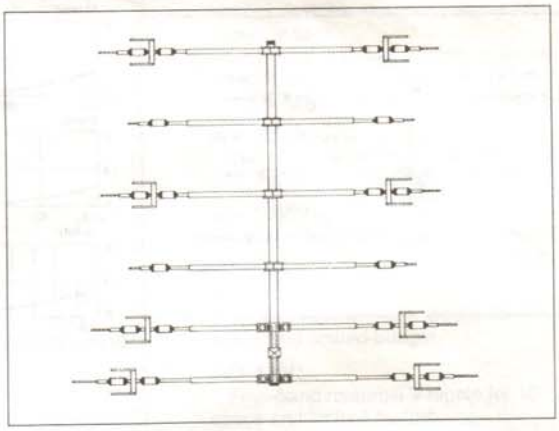
In addition, TET-EMTRON is about to produce a unique new vertical broadband half-wave Triband antenna with fully automatic bandswitching. Radials are not required, nor is a DC power source required to drive any antenna tuning devices.

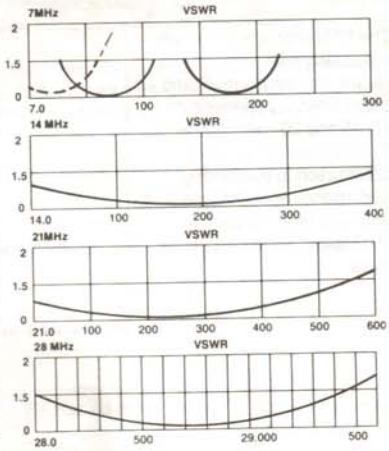
	HB464DX	HB443DX	HB43DX	HB33DX	HB33MDX	HB23MDX
FREQUENCY	7-14-21-28	7-14-21-28	14-21-28	14-21-28	14-21-28	14-21-28
ELEMENT	4-6-6-6	3-4-4-4	4-4-4	3-3-3	3-3-3	2-2-2
GAIN	5.8-10.5-10.8-10.2	4.2-9.1-9.5-9.8	9.4-9.5-9.8	8.5-8.7-8.3	6.1-6.5-6.9	4.1-5.5-5.9
F/B RATIO	15-23-23.9-21.8	12.7-23.-24.5-22	24.0-24.7-22	22-24-21.5	15.4-22.5-22.0	15-21.5-20.7
V.S.W.R.	1.5 or better	1.5 or better	1.5 or better	1.5 or better	1.5 or better	1.5 or better
POWER RATING	2 KW	2 KW	2 KW	2 KW	2 KW	2 KW
IMPEDANCE	50 OHM	50 OHM	50 OHM	50 OHM	50 OHM	50 OHM
ELEMENT LENGTH	10.8 M 35.6 FT	10.8 M 35.6 FT	8.25 M 27.2 FT	8.25 M 27.2 FT	5.0 M 16.5 FT	5.0 M 16.5 FT
BOOM LENGTH	10.0 M 33.0 FT	6.0 M 19.8 FT	6.0 M 19.8 FT	4.0 M 13.2 FT	3.0 M 9.9 FT	2.0 M 6.6 FT
TURNING RADIUS	7.35 M 24.28 FT	6.17 M 20.4 FT	5.1 M 16.8 FT	4.54 M 14.98 FT	2.92 M 9.64 FT	2.69 M 8.88 FT
WIND SURFACE AREA	1.47 M^2 15.84 FT^2	1.18 M^2 10.96 FT^2	0.74 M^2 8.02 FT^2	0.58 M^2 6.24 FT^2	0.44 M^2 4.74 FT^2	0.35 M^2 3.73 FT^2
WIND LOAD (EIA STD 80 MPH)	143.75 KG 316.9 LB	92.7 KG 204.4 LB	72.7 KG 160.1 LB	56.7 KG 124.8 LB	43.0 KG 94.8 LB	33.8 KG 74.6 LB
WEIGHT	33.0 KG 72.6 LB	22.5 KG 49.5 LB	19.2 KG 42.3 LB	15.0 KG 33.0 LB	11.0 KG 24.2 LB	7.9 KG 17.4 LB

HB464DX — SKYMASTER

The six element, four band Skymaster is TET-EMTRON's top of the line broadband antenna. With its innovative design, featured in the quad band beams, this antenna gives outstanding performance on the 40 metre band compared to that found on the add-on dipoles of conventional tribanders. Here all elements provide gain.

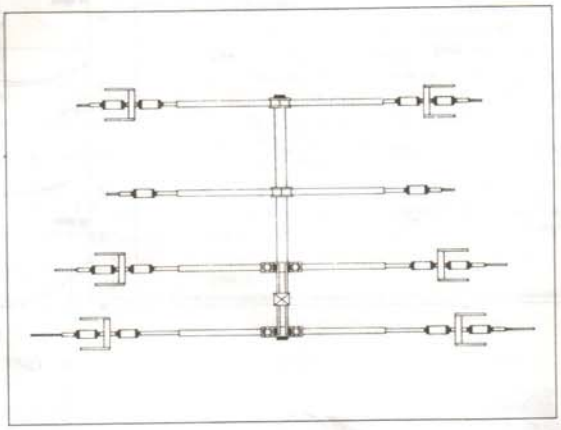
Work DXCC on 40 metres barefoot; see what a difference 4 elements on 40 metres and 6 elements on 10, 15 and 20 metres can make.

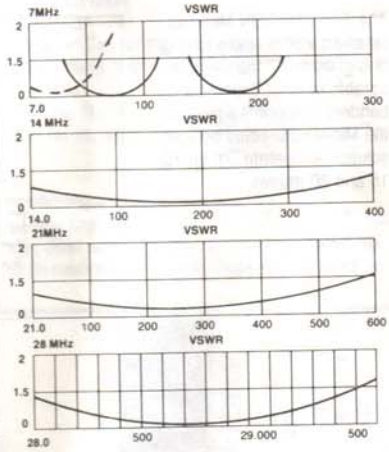




HB443DX — QUADMASTER

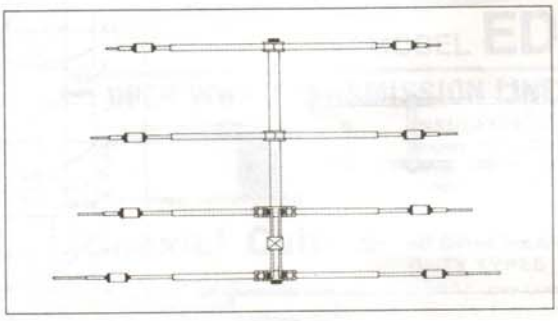
The original TET Quadbander was the most popular 4 band antenna in the world, recognised especially for its performance and broadband features. The New Quadmaster incorporates unique new electrical and mechanical design features that are sure to give you full satisfaction when DX-ragchewing using 3 elements on 40 metres and 4 elements on 10, 15 and 20 metres.

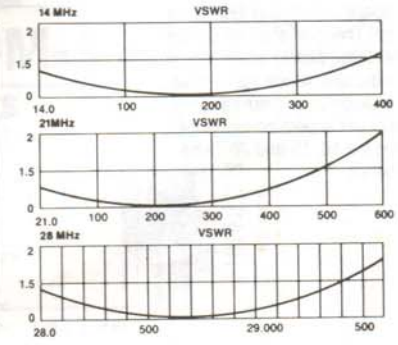




HB43DX — GRANDMASTER

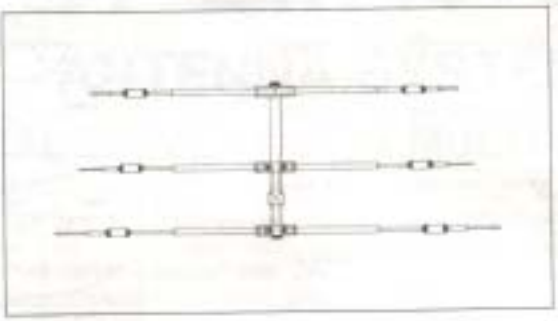
Due to its unique design this 3 band broadband "Grandmaster" is comparable in performance to 5 and 6 element multiband beams. Four active elements on 10, 15 and 20 metres with its broadband feature and maxim F/B ratio assures top performance across the entire band.

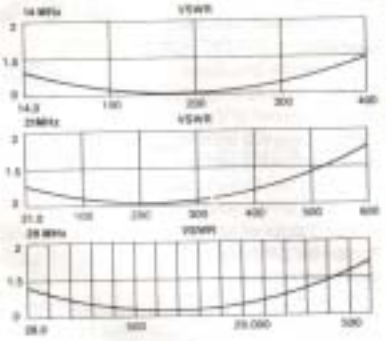




HB33DX — DXMASTER

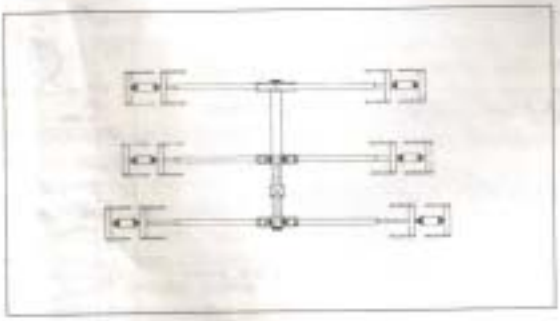
The DXMaster is a 3 element broadband Tribander that has set the standard in multiband beam antennas operating on 10, 15 and 20 metre bands. From lightweight, yet solid construction to outstanding performance specifications and ease of assembly the "DXMaster" is the leader in its class.

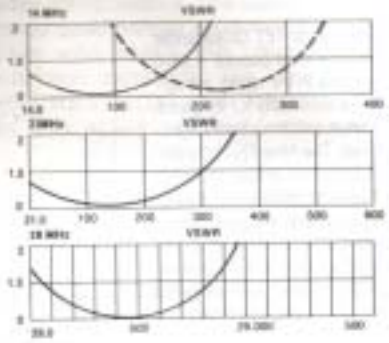




HB33MDX — MINIMASTER

The TET-EMTRON Minimaster offers a 30% space saving and gives performance comparable to most 3 element 3 banders. If space is a problem the Minimaster could be your solution to operate DX on 10, 15 and 20 metres.





HB23MDX — CITYSLICKER

Space a problem? Don't give up! This mini antenna can be installed almost anywhere, especially where space is at an absolute premium and you still get superb performance on the 10, 15 and 20 metre bands.