

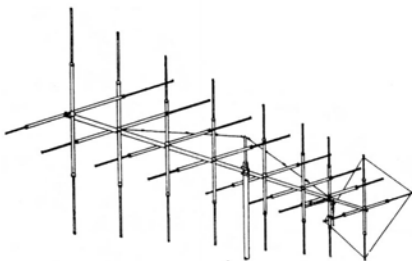


All Maco® Antennas are made of aircraft alloy 6063-T6 aluminum tubing. All elements and booms are constructed from seamless aluminum tubing featuring .050" wall thickness. To prevent fatigue failure, no holes are made in any boom or element.

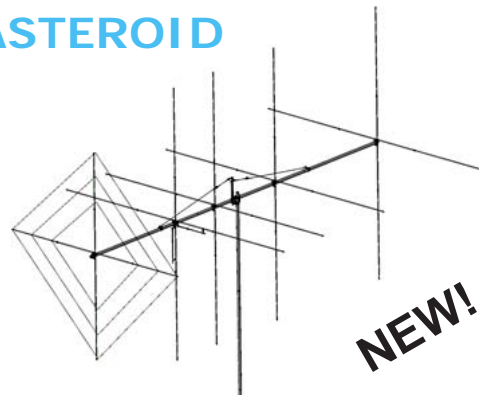
**High Performance. Superior Quality.  
Proudly Made in the USA.**

## SUPER LASER 500®

Directional dual-polarity, Yagi-Quad base station antenna with DPE, the most powerful & directive beam on the market has a gain of 18 dB and an effective multiplied power level 60 times that of your normal transmitter. With its 2kW gamma matches, combined with unparalleled directivity, it enables you to communicate with distant stations never before possible. The Super Laser 500® uses 14 Yagi-type elements, plus a Quad reflector, on a 3" OD, 40' boom. It boasts unmatched forward gain, front-to-back ratio, and side rejection.



## ASTEROID

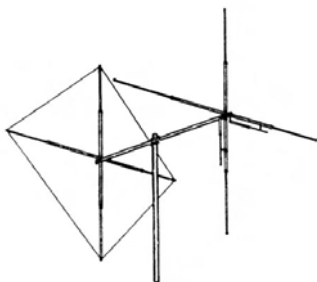


**NEW!**

Introducing the Asteroid - the newest innovation from Maco® Antennas! This is a high performing, dual polarity beam that is sure to impress. Boasting 10 elements, 5 vertical and 5 horizontal and mounted on a 26' boom with an impressive multiscreen reflector, the Asteroid is designed to give you the best combination of gain and front-to-back ratio. As always, the Maco® gamma matches are fully adjustable to obtain the lowest SWR for both vertical and horizontal polarization.

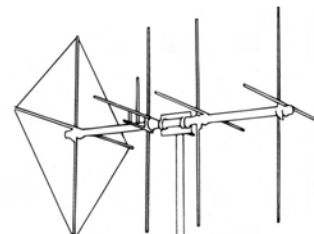
## Y-QUAD®

Using a Quad reflector with a Yagi driven element, the Y-Quad® combines the advantages of both designs to give the best performing lightweight, switchable polarity antenna available. The Quad reflector assures low angle of radiation even at low heights for exceptional long distance performance. The Y-Quad® uses a 6' long boom and has a gain of 11 dB. Can be stacked using YQSK stacking kit.



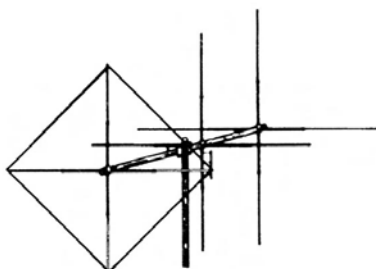
## SHOOTING STAR®

Developed to fill the need for top performance and dual polarity operation, the 8 element Shooting Star® has a gain of 14 dB. The design uses a 16' boom with 6 scientifically spaced elements, plus a Quad reflector, to obtain the best combination of gain and front-to-back ratio. It's the same design used to bounce signals off the moon! Features 2kW power handling capability. When performance and price are your main consideration, the Shooting Star® is a great option.

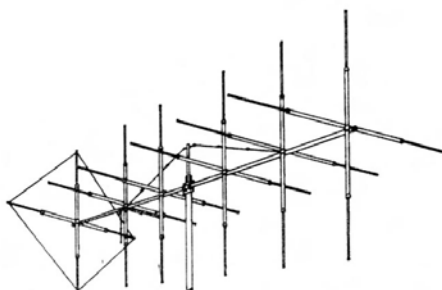


## COMET®

A long-distance 6 element base station with 12.5 dB gain and dual polarity. With an 11-1/2' long boom, the Comet® is ideal for users who want a booming base station but space is a problem. Features 2kW power handling capability, 21X power multiplication, and a Quad reflector.



## LASER 400®

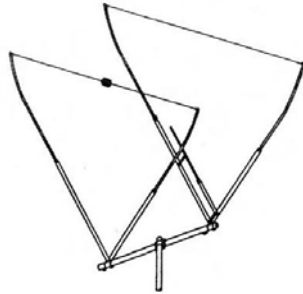


The 12 element Laser 400® is designed to achieve the maximum gain and front-to-back ratio using a Quad reflector and Yagi parasitic elements. There are 6 elements horizontal and 6 elements vertical, all scientifically spaced on a 31' boom. The Laser 400® is second only to the Super Laser 500®. It uses the same top quality design and construction as the larger Laser 500®, but uses a 2" boom.

**Maco Antennas, a Division of Charles Electronics, LLC**  
**302 S. East Street, Mount Carroll, IL 61053**  
**815-244-3500**  
**[www.macoantennas.net](http://www.macoantennas.net)**

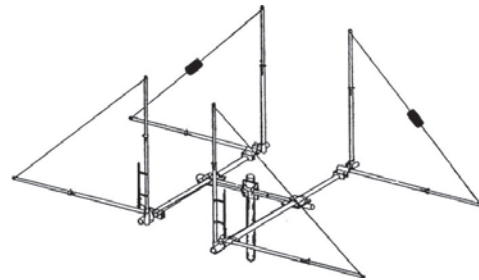
## V-QUAD®

Performance equal to the M103C in a small package. The V-Quad® is a full-wave antenna that packs a big punch. Directional combined vertical-horizontal polarization (one feed line) plus high gain of 11 dB makes this an ideal inexpensive beam for push-up mounting. Weighs just 8 pounds and the boom measures 6' long. Stack two V-Quad® beams with the VQSK Stacking Kit.



## VQSK

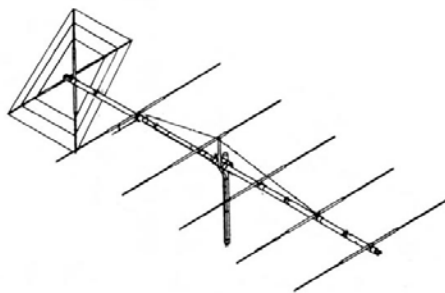
Stacking kit for V-Quad® beams. Adds 3 dB gain over a single antenna for a total of 14 dB stacked. Side rejection of 40 dB. Front-to-back ratio up to 40 dB. Stacking boom length is 10'. Coaxial stacking harness included. May be mounted on a push-up mast. Also use to stack M103 beams.



	ASTEROID	COMET	FLAT 6	FLAT 8	LASER 400	LASER 500	SHOOTING STAR	V-QUAD	Y-QUAD
BOOM LENGTH (FT)	26	11.5	31	40	31	40	16	6	6
BOOM OD (INCHES)	2	1.5	2	3	2	3	2	1.5	1.5
WEIGHT	45	21	45	76	52	70	31	8	15
NUMBER OF ELEMENTS	10	6	8	10	12	16	8	2	4
LONGEST ELEMENT (FT)	19	17.5	18	18	18	18	18	12	17.5
TURN RADIUS (FT)	15	10.5	17	21	17	21	13	7	8
SURFACE AREA (SQ FT)	11.8	5.3	11.1	18	15.7	22.3	8.9	3.3	3.9
GAIN (dB)	15.5	12.5	17	18	17	18	14	11	11
POWER MULTIPLICATION	40X	21X	50X	60X	50X	60X	28X	14X	14X
FRONT-TO-BACK SEPARATION (dB)	up to 40	34	40-44	up to 46	40-44	up to 46	38	25	25-30
TUNING (MHz)	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11
SHIP VIA	UPS	UPS	UPS	FREIGHT	UPS	FREIGHT	UPS	UPS	UPS

**All antennas are constructed using telescoping aluminum tubing.**  
**All beams come with 2kW power handling capability, unless otherwise noted.**  
**Upgraded gammas are available. 90 mph wind survival rating.**

## FLAT 6 and FLAT 8



Flat side only. Available in 6 or 8 element models, these beams can be run in either vertical or horizontal mode. Features a multiscreen reflector and a 5kW gamma match.

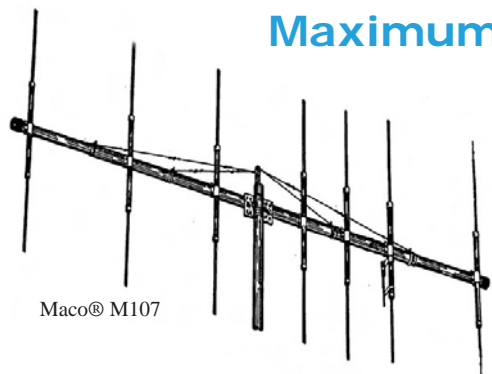
## MBSK

Stacking kit for Maximum Beams® M104-M107. Gain 3 dB over a single antenna. Cross boom length measures 13.3 feet. Heavy duty RG11 coax stacking harness included.



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## Maximum & Dual Maximum Beams®



Maco® M107

In the classic directional Yagi design, the Maximum Beams® line of base station antennas can be mounted either vertically or horizontally. Choose from the smaller M103 all the way up to the monster M108. Our Maximum Beams® are the most economical antenna of their type on the market today. All Maximum Beams® feature the Maco® adjustable gamma match for high performance. Ruggedly built with swaged, slotted tubing for maximum strength with minimum wind loading. Stack with MBSK for an extra 3dB gain.

For dual polarity, choose from 3,4,6, or 8 element versions. One side may be tuned for 10 meters and the other for 11 meters, if desired. The same outstanding performance as the Maximum Beam®, but with vertical and horizontal capabilities.

	M103	M104	M105	M106	M107	M108	M103HV	M105HV	M106HV	M108HV
BOOM LENGTH (FT)	11.5	16	26	31	37.5	40	11.5	26	31	40
BOOM OD (INCHES)	1.5	2	2	2	2	3	1.5	2	2	3
WEIGHT	14	25	35	39	44	70	21	40	52	85
NUMBER OF ELEMENTS	3	4	5	6	7	8	6	10	12	16
LONGEST ELEMENT (FT)	19	19	19	19	19	19	19	19	19	19
TURN RADIUS (FT)	10	13	15	17	22	24	10	15	17	24
SURFACE AREA (SQ FT)	4.0	6.4	8.5	10.3	11	17.1	6.2	11.0	14.1	23.2
GAIN (dB)	11	14	15.5	17	17.5	18	11	15.5	17	18
POWER MULTIPLICATION	20X	28X	40X	50X	55X	60X	20X	40X	50X	60X
FRONT-TO-BACK SEPARATION (dB)	25	29	31	31	36	38	25	31	31	38
TUNING (MHz)	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11
SHIP VIA	UPS	UPS	UPS	UPS	UPS	FREIGHT	UPS	UPS	UPS	FREIGHT

## ALPHA V58 & V5000

The Maco® V58 & V5000 are highly efficient 5/8 wave commercial antennas. They offer outstanding base station performance and are field tunable to cover from 26-33 MHz. Choose from the V58 with 1200 watt power handling or the V5000 with 5000 watt power handling. 5 dB gain. 2.56 square foot surface area.



## BA1 BALCONY ANTENNA

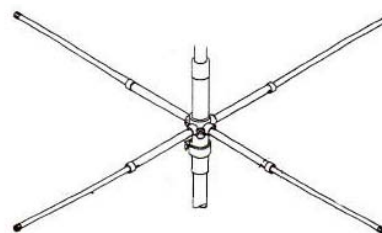
**NEW!**



The new Maco® BA1 Balcony Antenna can be run on 10 or 11 meters. It can be used in either vertical or horizontal mode and mounted on a wrought iron or wood balcony using the supplied mounting bracket. It uses the same tried and true Maco® gamma match system that comes standard on our beams. Ideal for the user who has limited space or cannot have a permanent installation.

## GPRK

The GPRK "Boomer" is the fix for fiberglass base antennas. Makes Antron 99, Shakespeare Big Sticks, and other fiberglass base antennas perform like an all metal base antenna by adding an aluminum ground plane radial kit. Each radial is 7 feet long when assembled. Weighs 6 pounds.



# ACCESSORIES



## CORONA BALLS

Eliminate the appearance of fire shooting off your antenna with our solid machined aluminum corona balls. Available for 1/2" or 5/8" tubing.

## 2600

5,000 watt gamma match for all Maco antennas. Uses standard hardware. Order 2600V for V-Quad.

## 4600

10,000 watt gamma match for use on all Maco beams, except the V-Quad. Mounting hardware included.

## 6600

30,000 watt gamma match for use on all Maco beams, except the V-Quad. Mounting hardware included.

*All Maco® Products are Proudly Made in the USA*

## CABLE ASSEMBLIES

High quality Maco®-made cable assemblies with hand-soldered connectors. Standard 3'-20' assemblies use Mini 8 cable. Other lengths and cable available upon request.

## CPH-1

Circularly polarize your dual polarity antenna with the Maco® CPH-1 Circular Polarization Harness. Designed to allow the user to run vertical & horizontal at the same time. High quality coaxial cable and connectors. All hand-soldered connections.



## STACKING HARNESSSES

Maco® coaxial harnesses for stacked beams. High quality coaxial cable and connectors with all hand-soldered connections. All harnesses include Silver/Teflon PL-259 connectors, T connector, and sealant tape.



WH2P - 18' Stacking Harness with RG59 Cable for close stacks (VQSK)

WH2HDP - 18' Stacking Harness with RG11 Cable for close stacks (YQSK, MBSK)

WH2HDM - 24' Stacking Harness for specific antennas & stack kits.



## MACO® 91

Match box corrects high SWR between radio and antenna. 300 watts maximum.



## MACO® 45

3 position coaxial switchbox with space age linear rotary switch. 1.5kW power limit.



## MACO® 2400

Wattmeter. 20-200-2000-4000 watt scales. Read watts forward & reverse. A most accurate CB meter. Works like professional meters. Shows modulation. Graph for reading SWR included.



## MACO® 150

Receive amplifier with dual gate Mosfet for high gain and low noise. Gain is adjustable from -20 dB to +27 dB (5 S units) with exclusive noise eliminator circuit. For SSB or AM base stations. 110V AC operation.