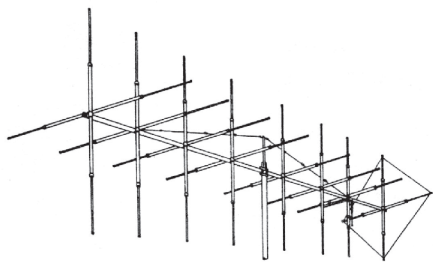
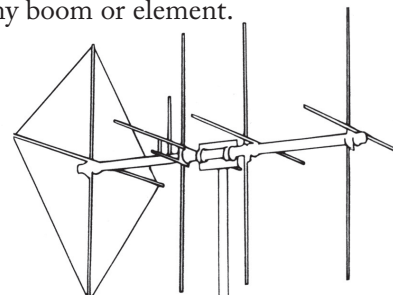


High Performance and made in USA

ALL MACo BASE STATION ANTENNAS are made of aircraft alloy 6063-T5 aluminum tubing—with .050" wall thickness. Note! To prevent fatigue failure, no holes are made in any boom or element.



- Antennas
- Receive Amps
- Wattmeters
- Coaxial Switches
- Antenna Match Boxes
- Cable Assemblies



MACo - Super Laser 500[®]

Directional Dual Polarity, YAGI-Quad CB Base Station Antenna with DPE, the most powerful and directive CB beam antenna on the market has a gain of 18dB and develops an effective multiplied power level 60 times that of your normal transmitter! It will handle up to 2kW. This, combined with unparalleled directivity, enables you to communicate with distant stations never before possible.

Mounted on a 40-foot boom, the Super Laser 500 uses 14 Yagi-type elements plus Quad reflector. Electrically this provides you with four more parasitic elements for a cumulative total of 18 elements! Adjustable gamma matches obtain the lowest SWR for both vertical and horizontal polarization. Forward gain, front-to-back ratio, and side rejection are the highest in the industry.

MACo Shooting Star[®]

When performance and price are your main consideration, look at the 8-element Shooting Star. Developed to fill the need for top performance, dual polarity operation, the Shooting Star has a gain of 14dB. That's like transmitting with 28 times your normal power! The design uses a 16-foot boom with six scientifically-spaced elements and 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! And, it has the MACO 2kW power handling capability!

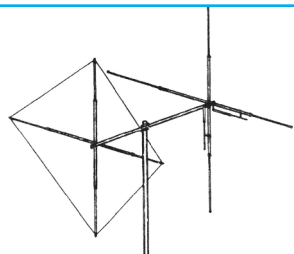
Specifications: Vertical/Horizontal Beams for CB (11 Meter)

Construction: Telescoping aluminum tubing
Element Clamps: Quality Aluminum, full compression, no holes
drilled in elements or boom means longer life.

Boom-to-Element Mount: Heavy extruded aluminum
SWR Adjustment: Gamma match, 52 ohms

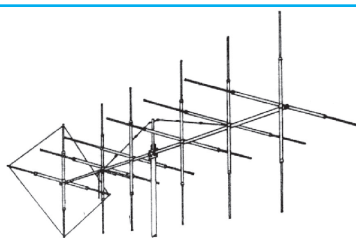
Power Handling Capability: 2 kW - **Optional 5 kW, 10 kW and 30 kW Gamma Matches available**

Mechanical	Y-Quad	Comet	Shooting Star	Laser 400	Flat 6	Laser 500	Flat 8
Boom Length (feet):	6	11.5	16	31	31	40	40
Boom OD (inches):	1.5	1.5	2	2	2	3	3
Number of Elements:	4	6	8	12	8	14	10
Longest Radius (feet):	17.5	17.5	18	18	18	18	18
Turn Radius (feet):	8	10.5	13	17	17	21	21
Surface Area (sq. ft.):	2.7 sq. ft.	4 sq. ft.	6 sq. ft.	10.5 sq. ft.	9 sq. ft.	15 sq. ft.	10.5 sq. ft.
Wind Survival (mph):	90	90	90	90	90	90	90
Tuning (MHz):	11 meters	11 meters	11 meters	11 meters	11 meters	11 meters	11 meters
Gain (dB):	11 dB	12.5 dB	14 dB	17 dB	17 dB	18 dB	18 dB
Power Multiplication:	14X	21X	28X	50X	50X	60X	60X
Front-to-Back Separation:	25-30 dB	34 dB	38 dB	40-44 dB	40-44 dB	up to 46 dB	up to 46 dB
VSWR (Adjustable):	1.1 to 1	1.1 to 1	1.1 to 1	1.1 to 1	1.1 to 1	1.1 to 1	1.1 to 1
Weight:	15 pounds	21 pounds	31 pounds	52 pounds	45 pounds	70 pounds	55 pounds
Ship by:	UPS	UPS	UPS	UPS	UPS	Truck	Truck



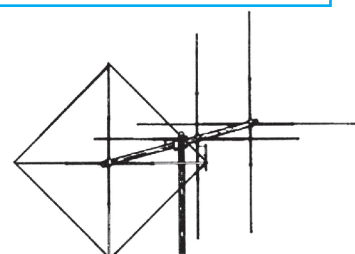
MACo-Y-QUAD[®]
Switchable Polarity - Y-Quad Beam

Using a Quad reflector with a Yagi driven element, the Y-Quad combines the advantages of both designs to give the best performing lightweight antenna available, with switchable polarity. The Quad reflector assures low angle of radiation even at low heights for real long distance performance.



MACo-LASER 400
Switchable Polarity 12 Element Laser Beam

The 12 Element Laser is designed to achieve the maximum gain and front to back ratio using a Quad Reflector and Yagi parasitic elements. There are six elements horizontal and six elements vertical, scientifically spaced on a 31 ft. boom. The 12 Element Laser is second only to the Super Laser 500. It uses the same top quality aircraft aluminum the larger Laser 500 uses, except uses a 2" boom.



THE MACo COMET[®]

A long-distance 6-element base station with 12.5 dB gain and dual polarity. This antenna is designed for CB'ers who want a booming base station but space is a problem. And, it has the MACO 2 kW power handling capability!

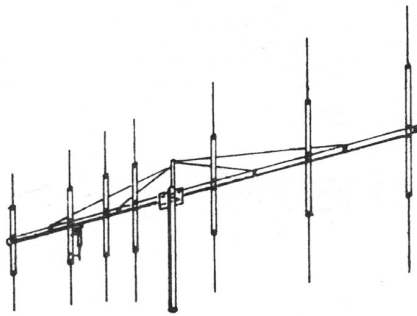
Specifications: Maximum Beams and Dual Maximum Beam®

Element Construction: Telescoping aluminum tubing
 Element Clamps: Quality Aluminum, full compression, no holes drilled in elements or boom means longer life.

Boom-to-Element Mount: Heavy extruded aluminum
 SWR Adjustment: Gamma match, 52 ohms
 Power Handling Capability: 2 kW

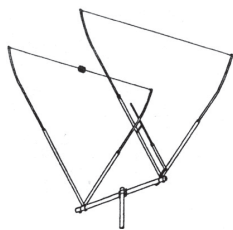
Optional 5 kW, 10 kW and 30 kW Gamma Matches available

Mechanical	M108C	M107C	M106C	M105C	M104C	M103C	V-QUAD	M108HV	M106HV	M105HV	M103HV
Boom Length (feet):	40	37.5	31	26	16	11.5	6	40	31	26	11.5
Boom OD (inches):	3	2	2	2	2	1.5	1.5	3	2	2	1.5
Number of Elements:	8	7	6	5	4	3	2	16	12	10	6
Longest Element (feet):	19	19	19	19	19	19	12	19	19	19	19
Turn Radius (feet):	24	22	17	15	13	10	7	24	17	15	10
Surface Area (sq. ft.):	15	13.2	10.21	8.47	6.33	4.5	3.2	15	10.21	8.47	4.5
Wind Survival (mph):	90	90	90	90	90	90	90	90	90	90	90
Gain (dB):	18	17.5	17	15.5	14	11	11	18	17	15.5	11
Front-to-Back Separation (db):	38	36	31	31	29	25	25	38	31	31	25
VSWR:	1.5	1.5	1.5	1.5	1.5	1.5	1.1 - 1	1.5	1.5	1.5	1.5
	or Less	or Less	or Less	or Less	or Less	or Less	or Less	or Less	or Less	or Less	or Less
Power Multiplication:	60X	55X	50X	40X	28X	20X	14X	60X	50X	40X	20X
Weight:	60 pounds	44 pounds	39 pounds	35 pounds	25 pounds	14 pounds	8 pounds	70 pounds	52 pounds	40 pounds	21 pounds
Ship By:	Truck	UPS	UPS	UPS	UPS	UPS	UPS	Truck	UPS	UPS	UPS
Stacking Kit:	N/A	MBSK	MBSK	MBSK	MBSK	MBSK	VQSK				



MAco M107C

7 Element Maximum Beam®



MAco V-Quad Beam®

Performance equal to M103C
 in a small package for pushup mounting.
 Stacking Kit available

Directional-Combined Vertical-horizontal polarization plus high gain of 11dB (14 dB stacked) makes the V-Quad and ideal inexpensive beam for push-up mounting (stacks too). Weighs only 8 pounds (stacked complete 24 pounds). Instructions also included for 10 meters.

VQSK

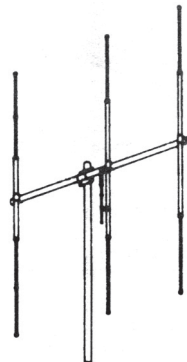
Stacking Kit for V-Quad
 May be mounted on pushup mast.
 V-Quad Stacking Kit Specifications

Gain 14 dB
 Size Rejection: 40 dB
 Front to Back Ratio: Up to 40 dB
 Boom Length: 10 feet
 Weight: 8 pounds with Harness

Maximum Beams
 Directional, Single Polarity, Yagi CB
 Base Station Antenna

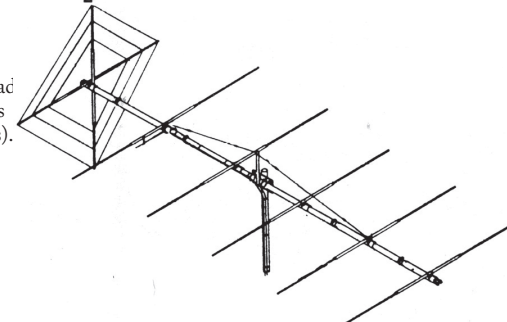
In the classic directional Yagi design, the Maximum Beams line of base station antennas can be mounted either vertically or horizontally for best base to mobile or base to base communications. Choose from the basic three-element M103C model up to the sophisticated M108C.

Most economical antenna of its type on the market today, all Maximum Beams feature MAco adjustable gamma match for high performance. Ruggedly built, swaged slotted tubing for maximum strength with minimum wind loading.



MAco M103C

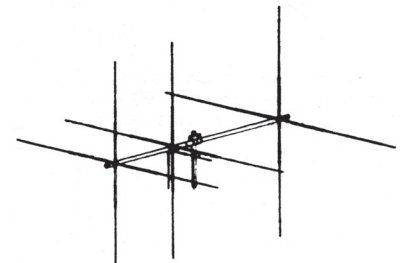
3 Element
 Maximum Beam
 Stack with MBSK3 for
 an extra 3 dB gain



FLAT 6 OR 8

A laser 400 or 500 with Flat Side only,
 plus a 5 kW Gamma match

M103HV



Dual Maximum Beam®
 2 Beams on 1 Boom

10-11 Meter Vertical/Horizontal Beams
 available in 3, 5, 6 and 8-element versions.

One part may be tuned for 10 meters
 and the other for 11 meters.

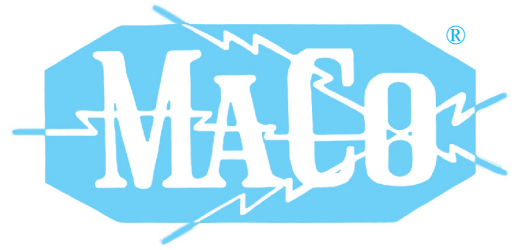


MBSK

Maximum Beam®
 Stacking Kit
 for M104C to M107C

Gain: 3 dB over single antenna
 Boom length: 13.3 ft.
 Weight: 24 pounds with Harness

MAcO Accessories



MAcO 2600

5000 watt gamma available for all MAcO antennas. Uses standard hardware. (V-Quad is special order.)

MAcO 4600

10,000 watt gamma match works on all MAcO antennas except the V-Quad. Includes mounting hardware.

MAcO 6600

30,000 watt gamma match works on all MAcO antennas except the V-Quad. Includes mounting hardware.



All Cable Assemblies use US made PL connectors and Mini-8 cables which are HAND SOLDERED.

MAcO CB CABLE ASSEMBLIES WITH HAND SOLDERED CONNECTORS

203M	3 FOOT MINI 8 WITH 2 PL-259 CONNECTORS
206M	6 FOOT MINI 8 WITH 2 PL-259 CONNECTORS
209M	9-FOOT MINI 8 WITH 2 PL-259 CONNECTORS
212M	12 FOOT MINI 8 WITH 2 PL-259 CONNECTORS
218M	18 FOOT MINI 8 WITH 2 PL-259 CONNECTORS
220M	20 FOOT MINI 8 WITH 2 PL-259 CONNECTORS
112M	12 FOOT MINI 8 WITH 1 PL-259 CONNECTOR
113M	18 FOOT MINI 8 WITH 1 PL-259 CONNECTOR



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.



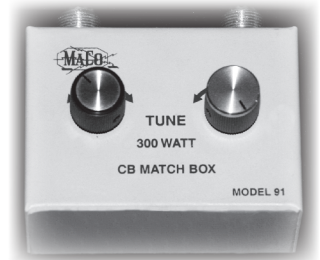
MAcO 2400

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



MAcO 45

Coaxial 3 position switchbox uses space age linear rotary switch 1.5 kW power limit.



MAcO 91 Match Box

Correct high SWR between radio and antenna handles 300 watts maximum power.

MAcO CB Harnesses for STACKED BEAMS

WH1P (VQSK)	12 ft. Stacking Harness for Close (9 ft.) Stacks (RG59)
WH2P	18 ft. Stacking Harness (RG59) (14 ft.) Stacks (MBSK) as above
WH2HDP	18 ft. Stacking Harness (RG11) as above
WH2HDM	Heavy Duty (RG11) High Power Mosley Type Harness. Order for specific antennas and stack kits. For high power.

All MAcO products are 100% Manufactured in the USA



MaCo Commercial Products

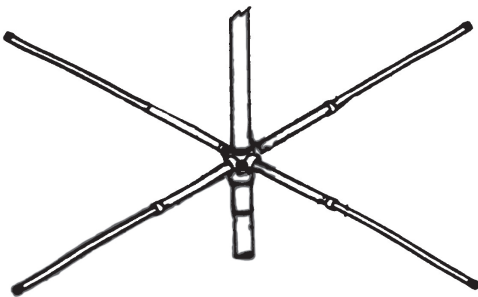
Manufactured by Charles Electronics LLC • Mount Carroll, IL

Alpha V $\frac{5}{8}$ and V-5000

Alpha V $\frac{5}{8}$ - A highly efficient $\frac{5}{8}$ wave commercial Antenna. It offers outstanding base station performance. Field Tunable to cover from 26-33 MHZ in 1 of 9 settings at 1200 watts. Available also is our 5000 watt V-5000 antenna.

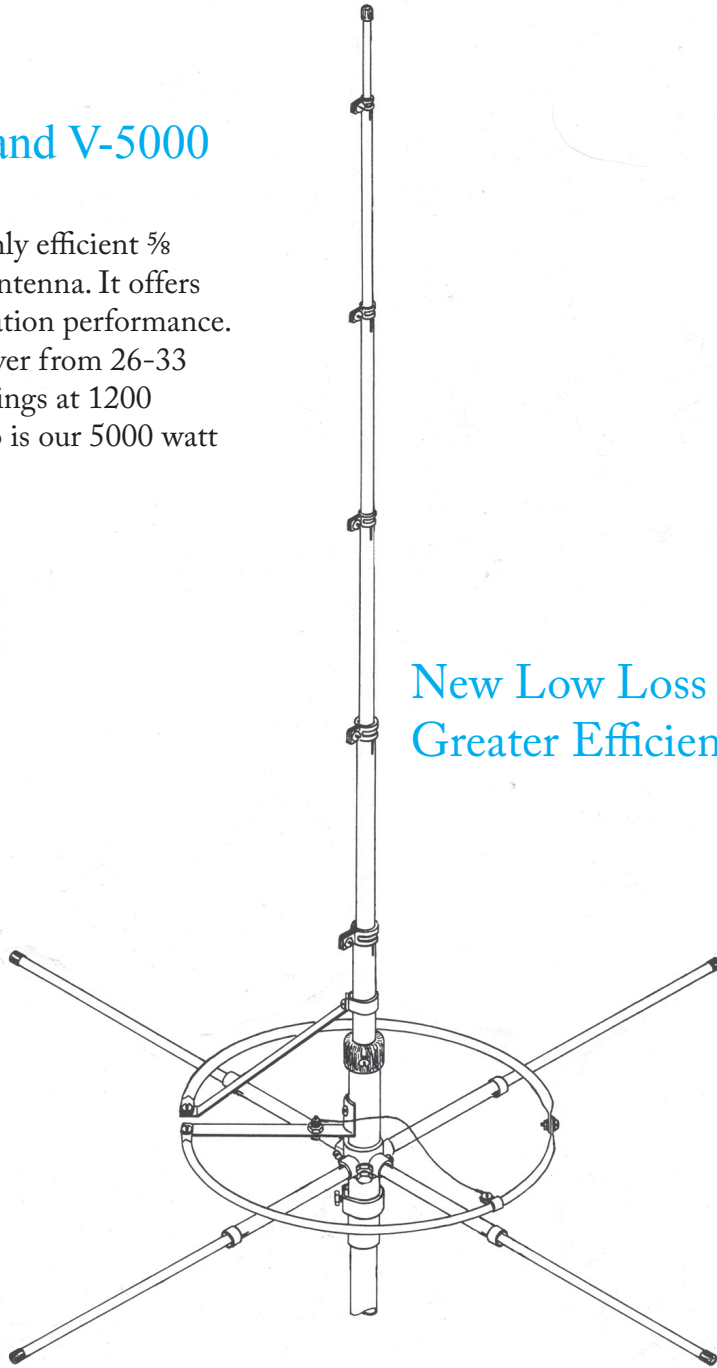
The Boomer

Part # GPRK



THE FIX FOR FIBERGLASS BASE ANTENNAS. The Boomer is an aluminum Ground Plane Radial Kit for the Antron 99, Shakespeare Big Stick, and other fiberglass base antennas. It makes them perform like an all metal base antenna. Weight - 6 lbs. Element Length 7 ft.

New Low Loss Design
Greater Efficiency!



**All MaCo products are 100%
Manufactured in the USA**

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