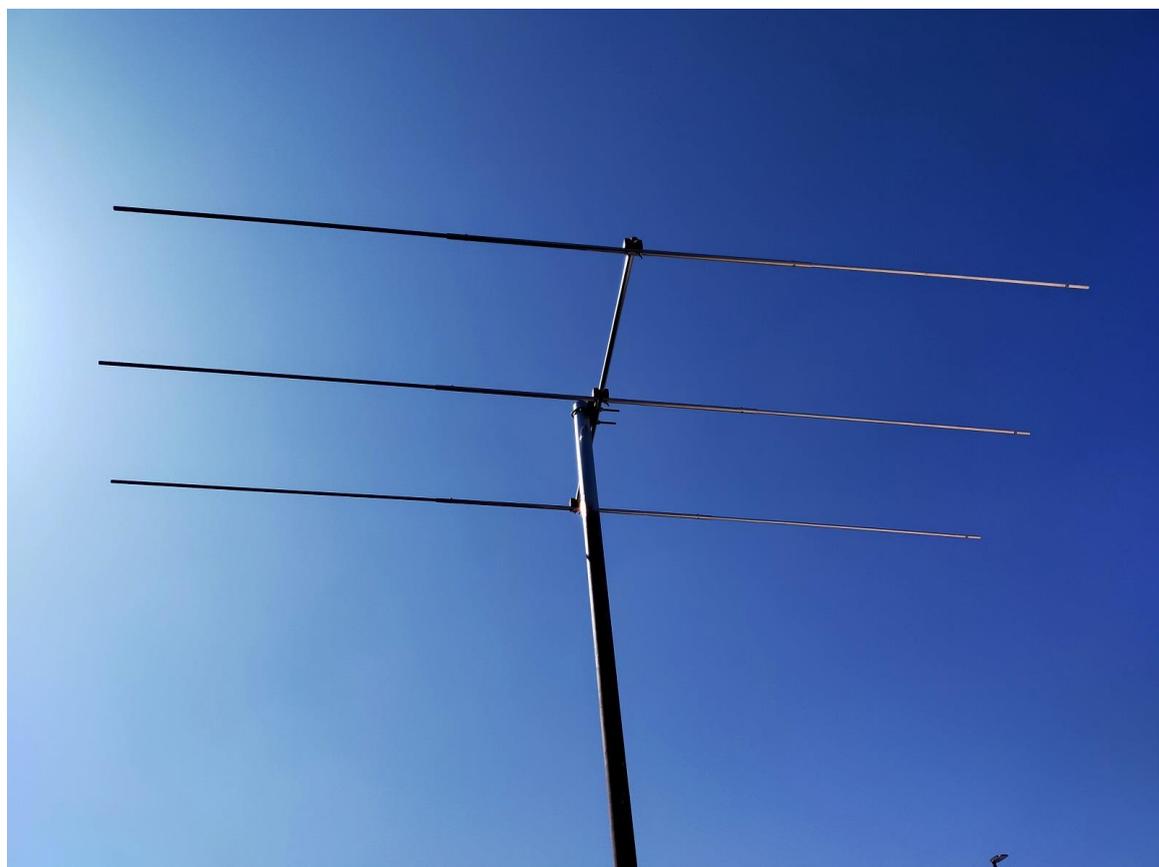




MONO3 6P

Monoband portable Yagi Antenna
50MHz



ASSEMBLY MANUAL

Momobeam

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Please, carefully read this assembly manual before starting to assemble the antenna.

Thank you for purchasing a Momobeam antenna! This manual will guide you to the correct assembly and mounting of your new antenna. Momobeam designs are based on the latest versions of computerized simulations and confirmed by field tests. Momobeam antennas are very easy to assemble thanks to the grouping and labeling of components. Please be considerate your environment by disposing of all waste in proper, climate safe locations, if you can, recycle the packaging.

Momobeam Limited Warranty and Liability

Momobeam warrants to the original purchaser that this product will be free from defects in material and workmanship for a period of two (2) years from the date of purchase. Momobeam will solely determine whether a part will be covered by this limited warranty and whether a part will be repaired or replaced. Such determination will be made following the evaluation of alleged defect. Momobeam will evaluate if misuse, abuse, unauthorized modifications, extreme weather conditions or improper installation occurred. This warranty does not cover delivery, transportation, installation or any other cost that may be incurred from any defect. Shipping costs for any repairs, replacements or returns will be paid by the buyer and must be prepaid. Before proceeding with the evaluation, Momobeam will have to receive appropriate documentation that helps identify any defect. The purchaser, final customer, installer and user of Momobeam products acknowledge that these products can cause injury or death and accept full responsibility and liability for any and all damage to persons and to property (direct, indirect and punitive) caused during installation and subsequent use.

Warning

Do not install this antenna where there is any possibility that the antenna or any part of the supporting structure could come in contact with power lines or any electric circuit. If the antenna comes in contact with electric circuits, this could result in electric shock or loss of life. Also ensure that no people or pets can come in any contact with the antenna after it is installed. Dangerous voltages can exist on the antenna when it is in operation and no part of the system is insulated to prevent electric shock. Momobeam antennas are not designed to be used as support structures. Persons or objects should never be supported by or suspended from the antenna structure. It must be taken into account that falling parts may cause a hazard to people, animals and property on the ground below.

Disputes For any dispute, only the Marsala - Italy headquarters is your point of contact and has the final authority.
Momobeam antennas are designed and manufactured in Italy

Contact If you have any questions regarding the assembly or operation of this antenna, please contact Momobeam:

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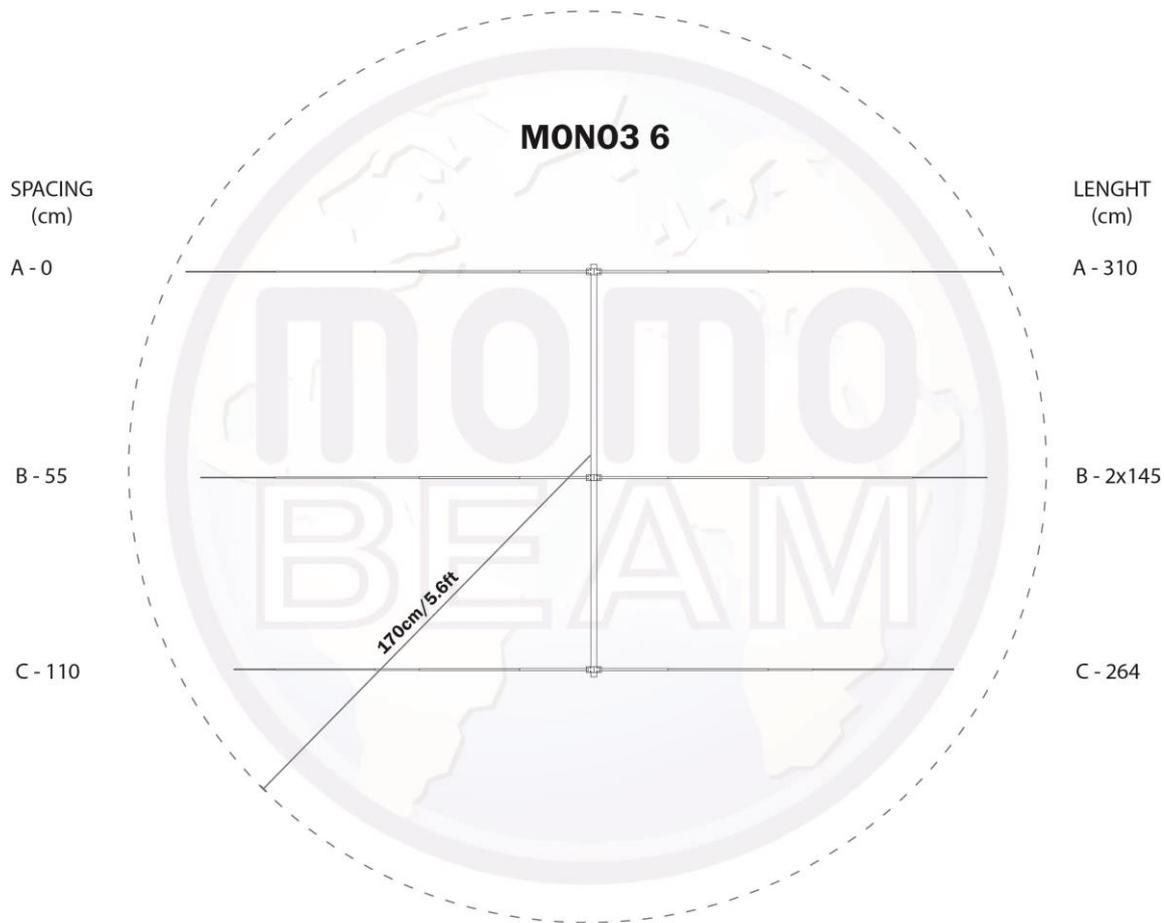
ASSEMBLY ADVICE

The Momobeam Yagi **MONO3 6P** antenna is robust and light and well suited for portable use.
All parts are labelled to make assembly quick and easy.
All elements are pre-drilled at the factory and no measuring or calibration is required.

It is made of aluminium tubes, galvanized steel hardware, UV-resistant POM-C driver insulators and polypropylene clamps.

We recommend tightening the hardware by hand.

Please, do not over-tight. Extreme force is not required! Once hardware begins to seat firmly, you only need a few more turns to properly secure parts.



SPECIFICATIONS

BAND	6 meters (50 MHz)				
Gain (dBi)*	11.22				
Gain free space (dBI)	6,5 (4,36 dBd)				
Front/back ratio (dB)	17				
Elements	3				
SWR <1.5:1	50 to 51 MHz				

Longest element: 310cm / 10.17 ft.

Boom length: 110cm / 3.6 ft

Turning radius: 170cm / 5,6 ft

Feed: 50 Ohm balanced – single coaxial cable

Mast diameter: 50mm / 2 inches (larger on request)

Wind area: 0,1 m²/1.1 sq ft

Wind survival:** 100 Km/h – 60 MPH

PLUG: SO239

Weight (excluding packaging): 1,9kg / 4.19 lbs.

* gain at 20m height on real ground

** maximum wind speed at which there is no permanent deformation of the antenna

STEP1 - BOOM ASSEMBLY

The boom of the **MONO3 6P** is supplied in one piece, no assembly is required

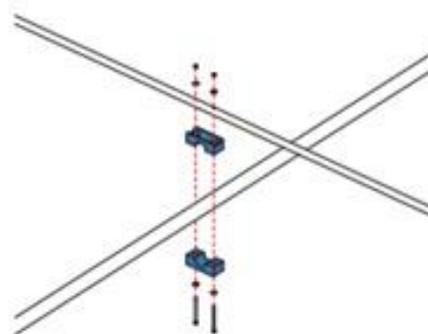
STEP2 - BOOM TO MAST U-Bolt ASSEMBLY

The **MONO3 6P** boom comes pre-drilled and ready to accept the U-Bolt that you will need to secure the antenna to the mast.
Please note: The supplied U-Bolt accepts a Mast with 30 to 50mm range



STEP3 - ELEMENTS ASSEMBLY

The elements of **MONO3 6P** are made of two sizes of aluminum tubes, larger for the central section and smaller for the terminal parts, ranging from 12mm to 16mm diameter. Each elements is labelled. Elements central sections comes preassembled with the boom to element clamp.



STEP 4 - ELEMENTS TERMINAL PARTS ASSEMBLY

You need to locate the terminal parts for each element by checking the labels. Slide the element terminal part into the correspondent central part until holes align. Please note that the central element part has two size holes. Secure the elements sections with one bolt, one washer and one butterfly locking nut. **The head of the bolt must be inserted into the larger diameter hole**, thru the smaller diameter tube and it must exit thru the small hole in the bigger diameter tube on the oppside side. This creates a mechanical and electrical strong joint.



Material List

Cod.	Amount	Description	Placement
ALU.R.TUBE.20.2.115	1	Aluminum round tube Ø 20mm 1,5mm thick - lenght 115cm	Boom
	1	U-Bolt galvanized stel for fixing Boom to mast	Boom to mast U-Bolt
ALU.TUBE.16.48.25C	2	Round tube Ø 16mm - lenght 100cm - 1,5mm thick (preassembled with polypropilene clamp Ø20mm, 2 stainless steel M6 50mm bolts, 2 M6 stainless steel washers, 2 M6 stainless steel butterfly nuts)	Element A/C
ALU.TUBE.16.51.25DR	1	Round tube Ø 16mm - lenght 103cm - 1,5mm thick (preassembled driver element with POM-C UV-Resistant insulator and clamps Ø20mm) 2 stainless steel M6 50mm bolts, 2 M6 stainless steel washers, 2 M6 steel butterfly nuts)	Element B
ALU.TUBE.12.115T	2	Round tube Ø 12mm - lenght 115cm - 1mm thick	Terminal element A
ALU.TUBE.12.105T	2	Round tube Ø 12mm - lenght 105cm - 1mm thick	Terminal element B
ALU.TUBE.12.92T	2	Round tube Ø 12mm - lenght 92cm - 1mm thick	Terminal element C
SS.EL.BOLTKIT.6	3	50 MHz "element junction hardware bag" galvanyzed steel: 2 bolts M4x20mm, 2 M4 washers, 2 M4 butterfly nuts	