



yagi antenna

11MOX

Artikel nr: 17824.11

Thank you for choosing EAntenna.

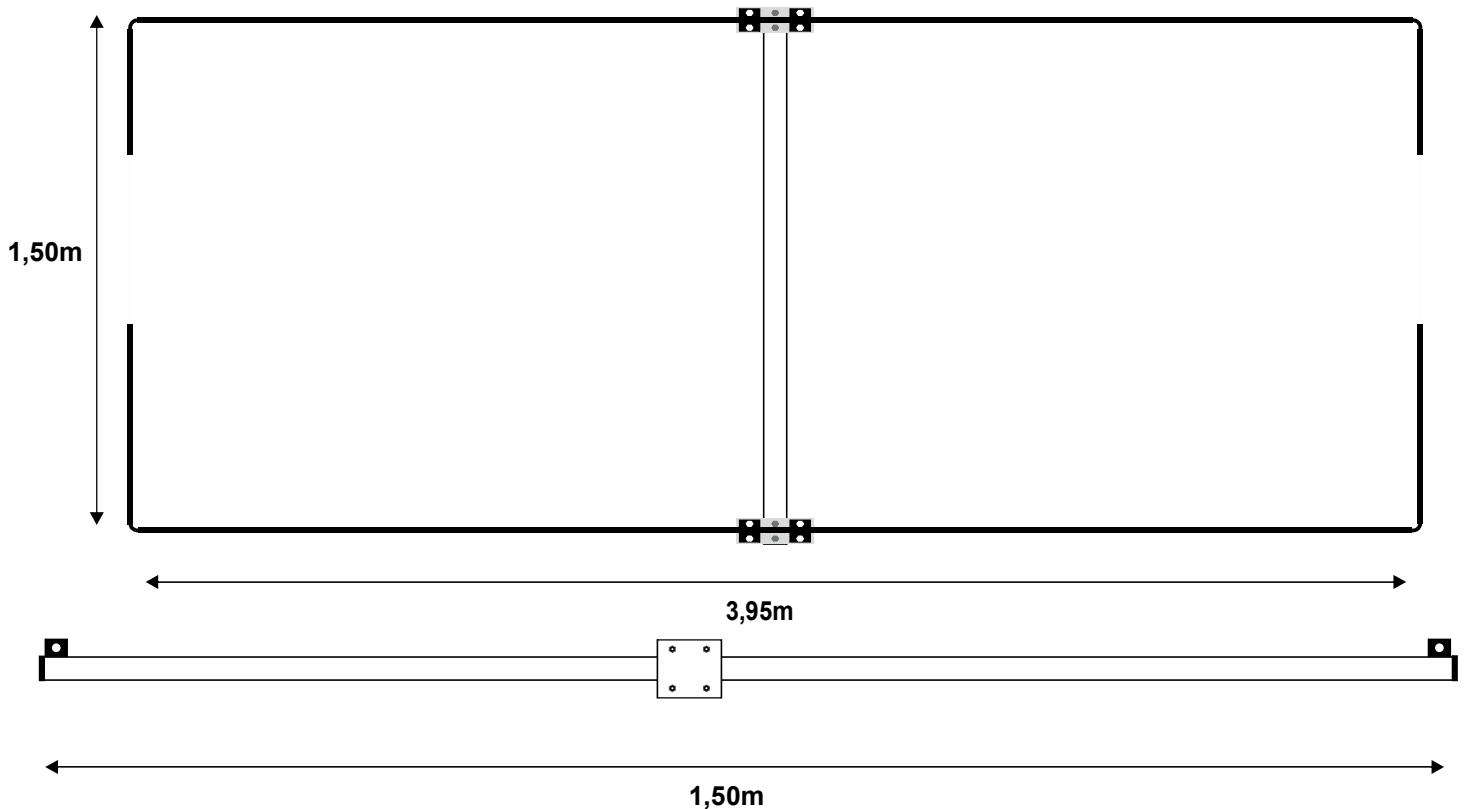
All our products are manufactured and developed with the best materials on the market, to offer the best qualities and guarantees to our customers.

The Yagi type MOXON antennas were developed by Leslie A. Moxon, to be used in communications in HF during the 2nd half of the 20th century, quite successfully. Its cost, profit and ease of construction make it an option very convenient. As it is a specific antenna according to the bands in which we want to operate. The address of the maximum Gain is obtained in the opposite direction to the reflector and perpendicular to the radiating element. According to the position with respect to ground, horizontal or vertical, will be its polarization. It is very important that this coincides with the polarization used in the antenna of the equipment to which you connect with this antenna.

Like any antenna manufactured by EAntenna, we do not include a connector, to have the minimum losses. We include 3KW balun in all HF yagis.

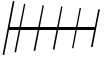
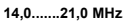


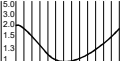
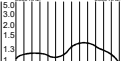


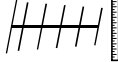
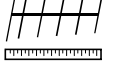


We detail the materials used, for their best use and assembly. All the fittings are made of stainless steel and the Aluminum is made of T6061 or T6063 alloy, known as Aeronautical Aluminium, which offers the best conditions to withstand the most extreme climates, the force of the wind and the best conductivity. The plastics used, is Polyamide or Polypropylene, which offer the best hardness and durability for the passage of time. We offer guarantee in the operation, and guarantee in the ironworks, delivering the kit of hardware some extra pieces, for possible losses or forced breakages.

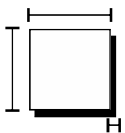
In the following pages we detail the exploded view with its graphics.



Peso: 4,5Kg.
Max. Potencia: 3,0 kW

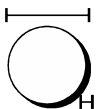


	SPECIFICATIONS	EAntenna 11MOX
	Elements:	2
	Frequency Range:	26,0 ~ 27,995 MHz.
	Gain:	6,03 dBi
	F/B:	43,93 dB
	Bandwidth:	1600 KHz.
	SWR:	1,0:1~2,0:1
	Impedance	50 Ohms
	Max. Power:	10 kW.*
	Max. Element Length:	3,95m. / 13'
	Boom Length:	1,50m / 5'
	Wind Survival	200 kmh / 120 mph
	Weight:	4,5 Kg. / 10 Pounds



Boom size:

30x30x2mm

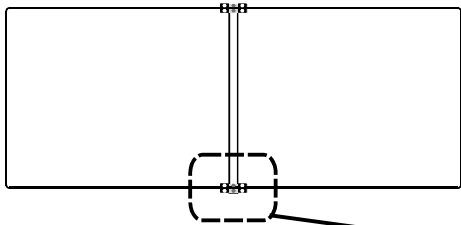


Element Diameter:

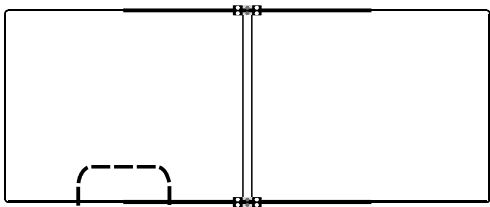
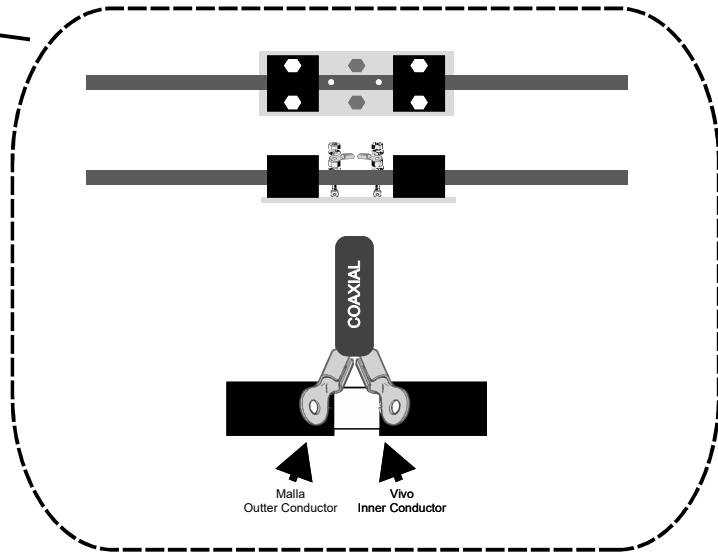
16x1mm ~ 13x1mm



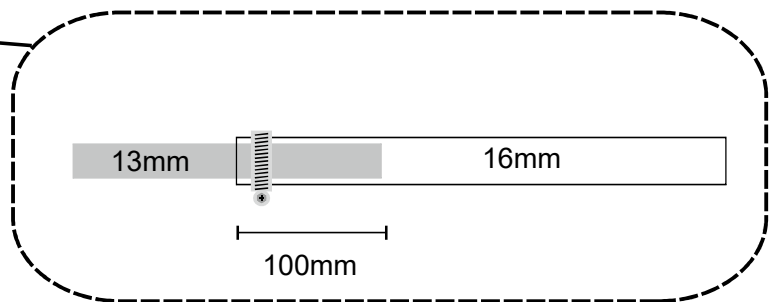
***Balun: 3kW Balun included**



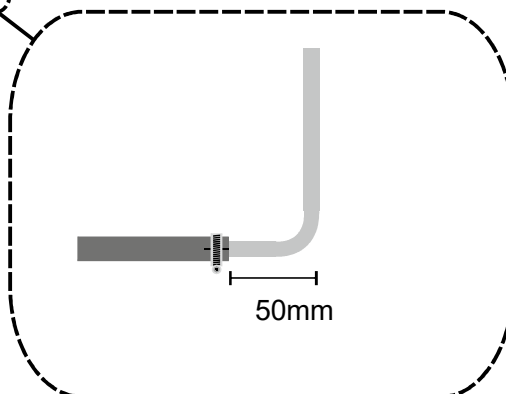
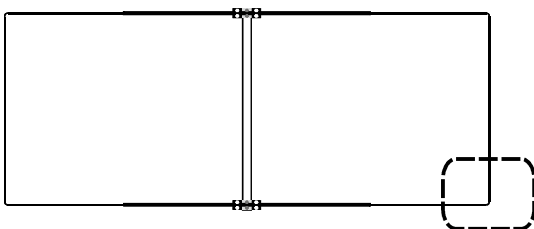
Alimentación/Feed



Unión 16/13mm Element Joint

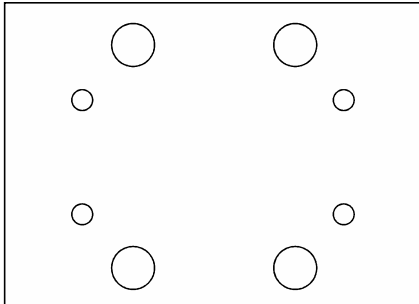


Unión de Loop - Loop joint

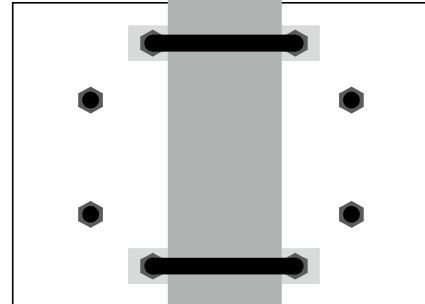


La placa de sujeción **BOOM/MÁSTIL (EA013018)** de 100X100X6mm consta de **8 agujeros**; **4 gruesos** para los **abarcos redondos** y **4 para los abarcos cuadrados** que sujetan el **BOOM**. Los **4 agujeros de mayor grosor** tienen la función de que hagan la mayor fuerza sobre el mástil, mediante **abarcos redondos de M8**. Los **abarcos redondos de M8 (A-0163)**, van fijados mediante arandela **DIN 9021 M8** y tuerca **DIN 934 M8** proporcionadas en el mismo abarcón, y fijada al mástil con la **Mordaza (23035.50)**.
 Detallamos dibujos para una mayor ilustración:

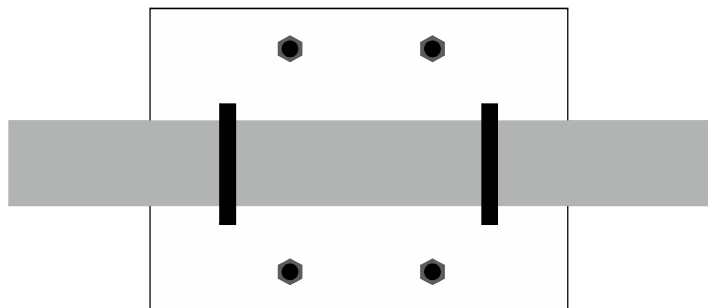
(EA013018)



(EA013018)

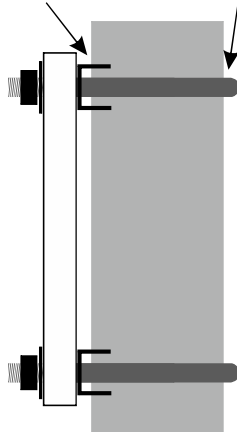


Front view from Mast



Front view from BOOM

(23035.50) (A-0163)

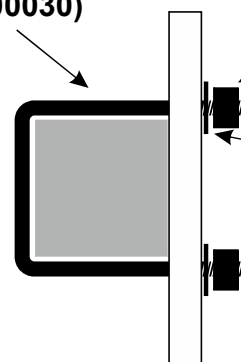


Vista lateral desde el mástil

(P0500030)

(S934-96)

(S9021-96)



Vista lateral desde el BOOM

MAST TO BOOM PLATE ASSEMBLY

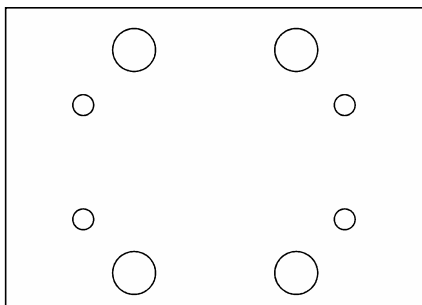
ENGLISH

The clamping plate **BOOM / MAST (EA013018)** 100X100X6mm consists of **8 holes**; **4 thick for round U-bolts** and **4 square U-bolts for securing the BOOM**.

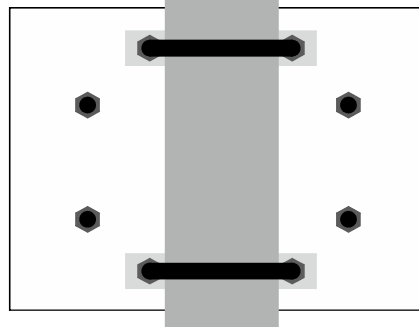
The **4 holes are thicker** function that make the greatest force on the mast by means of M8 round U-bolts. **Round U-bolts M8 (A-0163)**, are secured by washer **DIN 9021 M8** and nut **DIN 934 M8** provided in the same bag, and fixed to the mast with clamp **(23035.50)**.

Detailed drawings for further illustration:

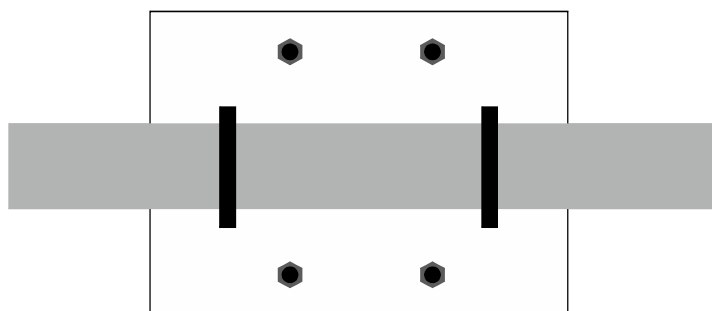
(EA013018)



(EA013018)

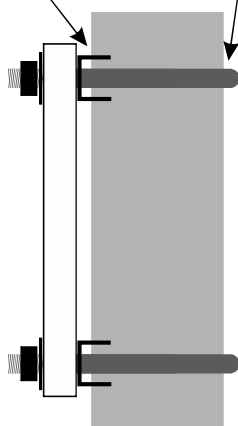


Front view from Mast



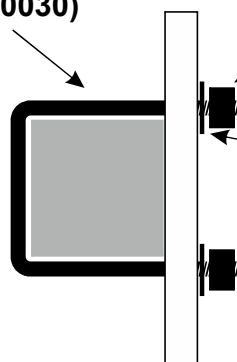
Front view from BOOM

(23035.50) (A-0163)



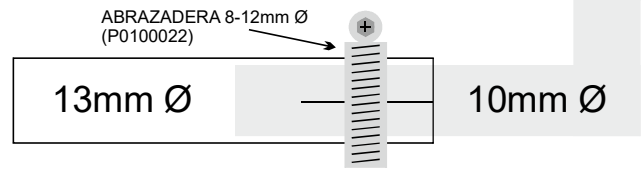
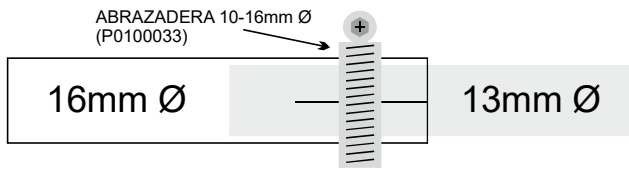
Side view from Mast

(P0500030) (S934-96) (S9021-96)



Side view from BOOM

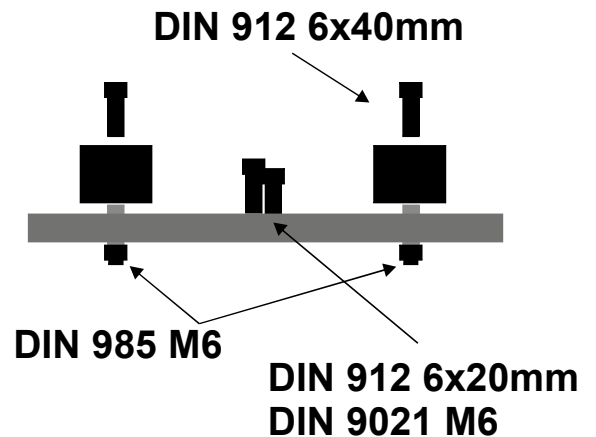
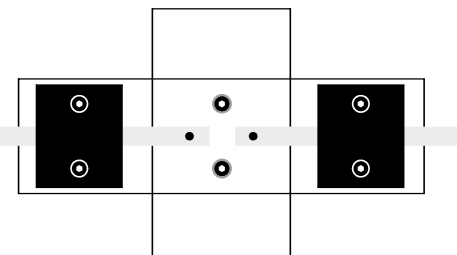
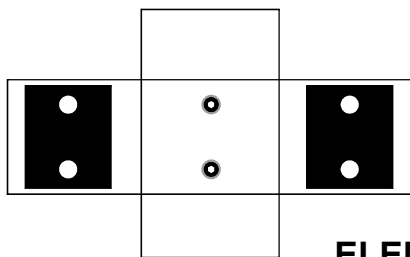
La fijación de los elementos del Rectángulo DE, es mediante abrazadera **Sin/Fin 10-16mm (P0100033)** de los elementos de 16 a 13mm y la **Sin/Fin 8-12mm (P0100022)** de 13 a 10 mm.



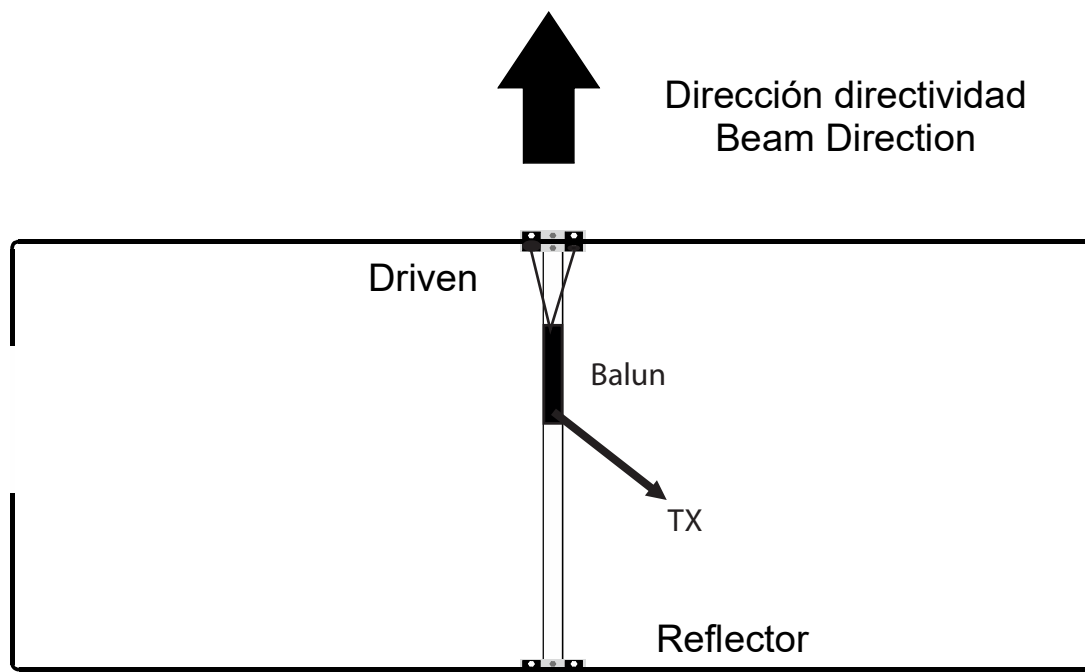
Las medidas de la pagina 2 están expresadas en medidas exteriores, o sea, midiendo desde cada extremo del tubo. Una vez que los elementos estén ensamblados correctamente, se procede a poner cada elemento en la placa al boom, con lo que sería el ultimo paso de montaje. Unir las placas al boom como se especifica debajo.

Una vez que tiene los elementos ensamblados, y el boom, es momento de **montar** los las placas al boom y después los elementos a la placa. Lo que **aconsejamos** es que se **empiece por el las placas al boom, si montara la antena de una pieza. Si lo que quiere** es subir los elementos, una vez el **boom puesto en el mástil**, aconsejamos poner los elementos a las placas para su mejor unión del conjunto "placa/elemento" al boom.

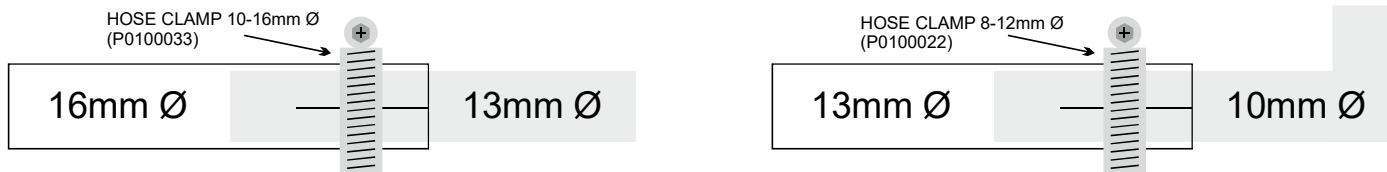
Para poner los elementos a la placa, tendría que introducir los **EAHYP016** por cada extremo en cada extremo del elemento de 16mm Ø, y con la ayuda de una cinta métrica marcar a la mitad (60cm), y una vez centrado, fijar con la otra parte del (**EAHYP016**) con los tornillos **DIN 912 M6X40**, como aparece en el dibujo inferior.



Para colocar cada placa al boom, se fija mediante los tornillos **DIN 912 M6X20** y arandela **DIN 9021 M6**. Esta placa debe de quedar bien firme para la colocación del elemento. El paso siguiente sería igual que los demás elementos, **pero teniendo en cuenta que los tornillos que utilizaremos son DIN 912 M6X40 y tuercas autoblocante DIN 985 M6** una vez que esté ensamblada toda la antena.



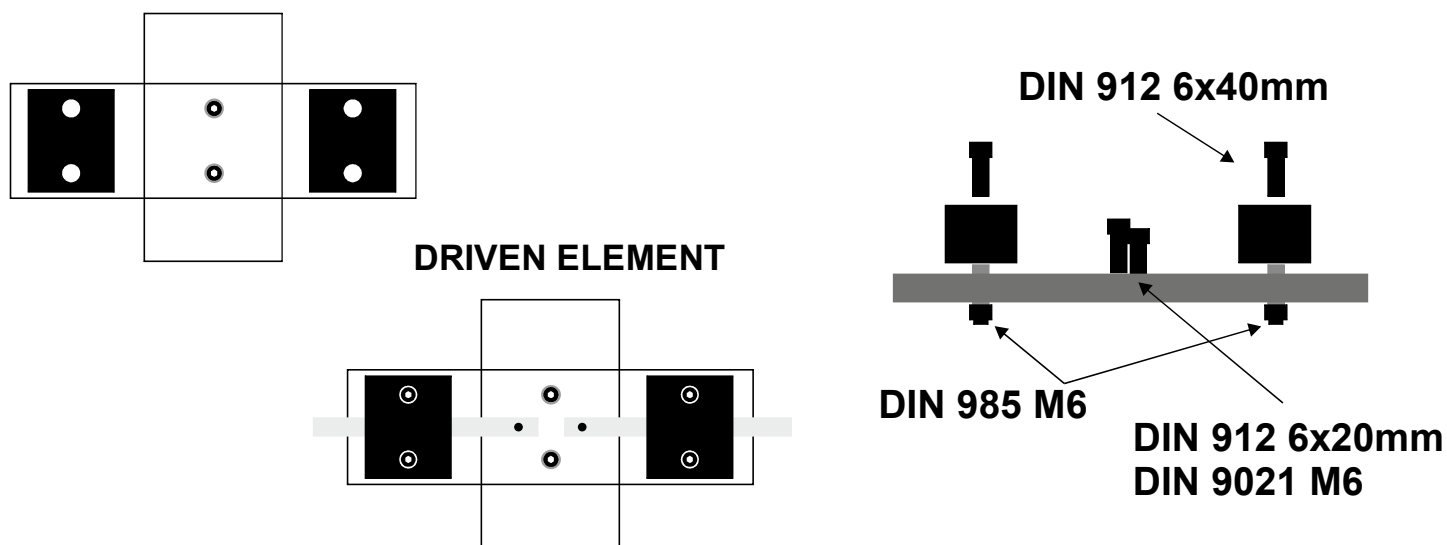
The fixing of the LOOP element, each element is using a Hose Clamp 8-12mm (P0100022) the 13 to 10mm diameter.



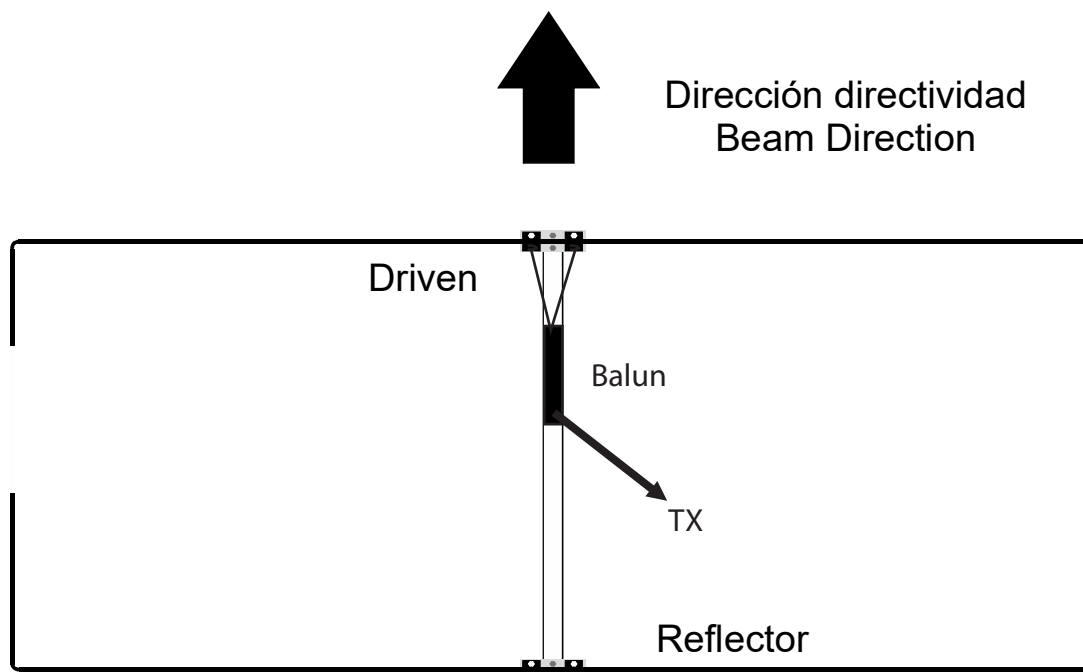
Measures page 2 are expressed in external length, ie, measuring from each end of the tube. Once elements are assembled correctly, proceed to put each item on the plate to the boom, which would be the last step assembly. Attach plates to boom as specified below.

Once you have the elements assembled, it's time to mount the plates to the boom and then the elements to the plate. What we advise is to start with the plates to the boom, if you rise up the antenna in one piece. If you want to raise the elements once the boom is placed on the mast, we recommend putting the elements to the plates for their best way of the "plate / element" assembly to the boom.

To add the elements to the plate would have to focus with the help of a tape measure, each element of Ø 13mm, mark in the half with a edding, and a once centered fix to the plate with the green plastic blocks (EAHYP016) with screws DIN 912 M6X40, as shown in the drawing below.

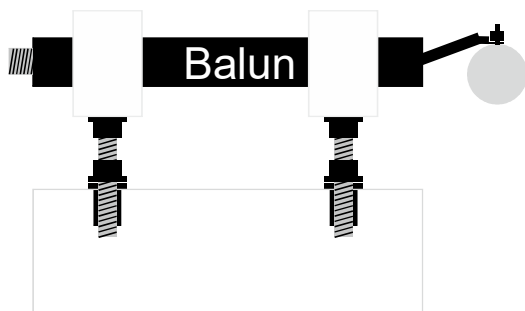


To place each plate to the boom, are fixed by screws DIN 912 M6X20 and DIN 9021 M6 washer. This plate must be very firm for positioning the element. The next step would be like the other elements, but considering that the screws use are DIN 912 M6X40 and DIN 985 M6 self-locking nuts once it is all assembled antenna.

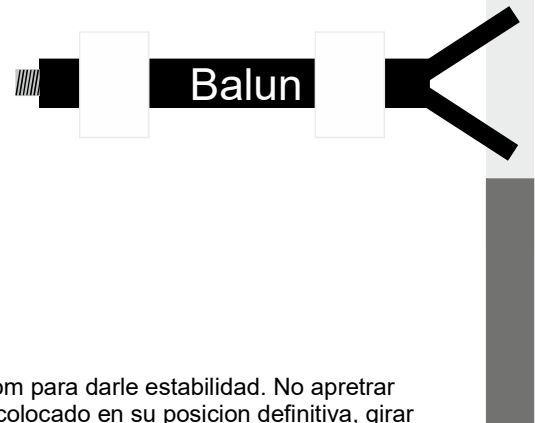


Alimentación Feeding

BB3 Balun Kit



BB3 Balun Kit

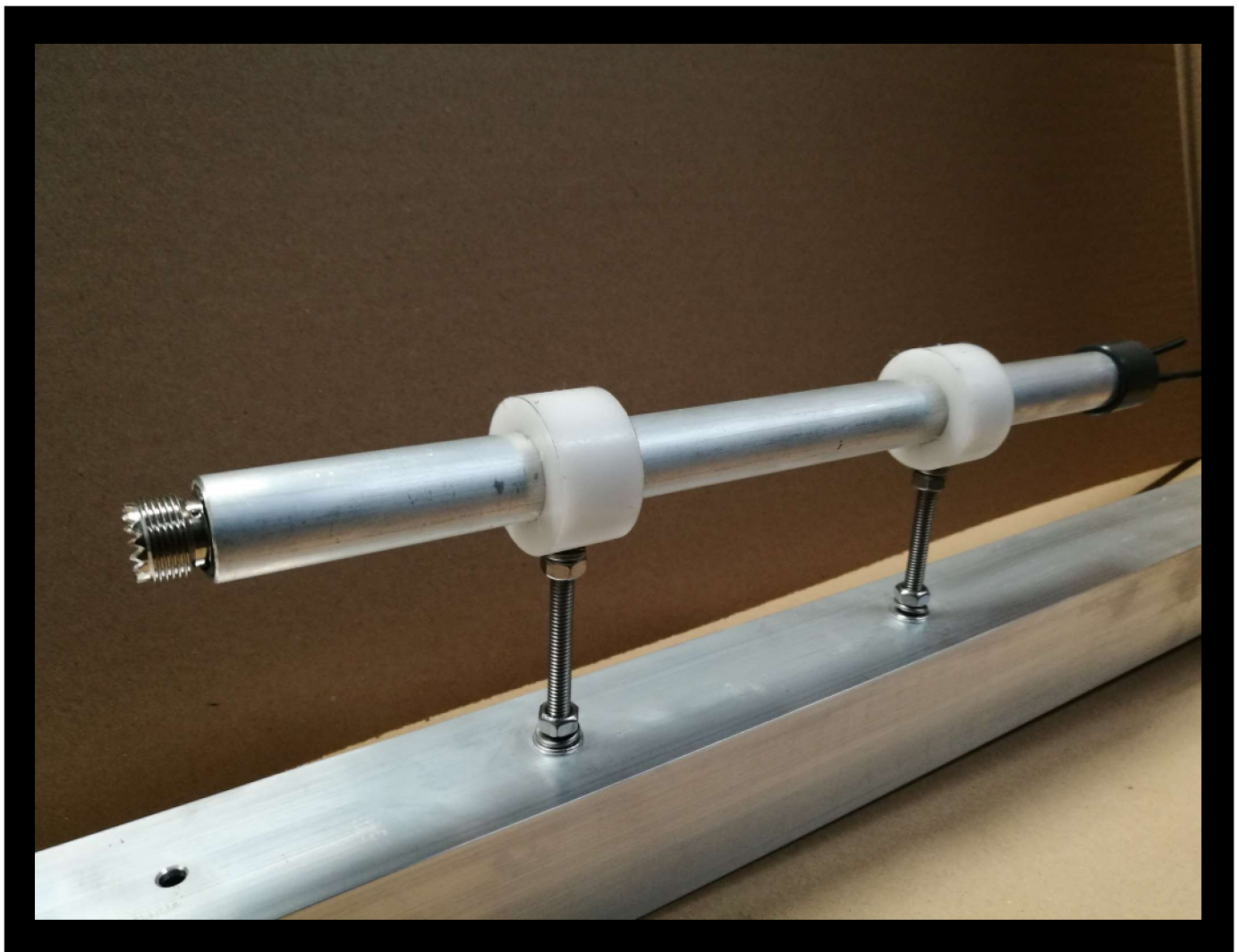


ESPAÑOL











El primer paso de colocar el balun es roscar el tornillo sobre las roscas de boom para darle estabilidad. No apretar hasta que no este posicionado el balun correctamente. Cuando el balun este colocado en su posicion definitiva, girar el tornillo con los dedos hasta que el tornillo presione el balun y lo fije a la anilla plastica blanca. Apretar la tuerca con algo de fuerza con la llave fija y acto seguido, apretar las tuercas de la parte que da al boom para fijar completamente este sistema.

ENGLISH

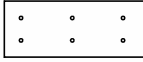







The first step of placing the balun is screwing the screw threads on the boom for stability it. Don't tightening until the balun not positioned correctly. When the balun is placed in its final position, rotate the screw with your fingers until the screw press the balun and fix it to the white plastic ring. Tighten the nut some strength with a wrench and then, tightening nuts on boom to completely fix this system.








ESPAÑOL**ENGLISH**PACKING LIST
LISTA DE PIEZAS**BOLSA 1 - BAG #1**

PART # PIEZA N°	IMAGEN PART IMAGE	DESCRIPCION DESCRIPTION	MEDIDAS SIZES	CANTIDAD QUANTITY
EA013018		Placa Mástil/Boom Mast and Boom plate	100 x 100 x 6mm	1
A-0163		Abarcon U-Bolt.	50mm, M8	2
23035.50		Mordaza Tube Clamp	50mm	2
S127-98		DIN 127 WASHER	M8	4
S934-98		DIN 934 NUT	M8	4
P0500030		Abarcon Cuadrado Square Clamp	30mm	2
S9021-96		DIN 9021	M6	4
S934-96		DIN 934	M6	4
P1300001		Llave Allen	5mm	1
P1300003		Llave Fija	M10	1

BOLSA 2 - BAG #2

PART # PIEZA N°	IMAGEN PART IMAGE	DESCRIPCION DESCRIPTION	MEDIDAS SIZES	CANTIDAD QUANTITY
EA010026		Placa para Elementos Elements plates	150x50x6mm	2
S912-9620		Tornillo Allen DIN 912 Allen DIN 912 Screw	M6x20mm	4
S9021-96		DIN 9021	M6	4
EAHYP016		Plásticos Plastic Blocks	16mm Ø	4
S912-9640		Tornillo Allen DIN 912 Allen DIN 912 Screw	M6x40mm	8
S985-906		Tuerca Autoblocante DIN 985 DIN 985 NUT	M6	8
P0100022		Abrazadera Sin-Fin Hose clamp	8-12mm	4
P0100033		Abrazadera Sin-Fin Hose clamp	10-16mm	4

PART # PIEZA N°	IMAGEN PART IMAGE	DESCRIPCION DESCRIPTION	MEDIDAS SIZES	CANTIDAD QUANTITY
11MOX A-A			1500mm x 30mm	1
		Parte Central Reflector Reflector Middle tube	1800mm x 16mm Ø	1
		Parte Central Driven Driven Middle tube	1800mm x 16mm Ø	1
		Sección Tubo 13mm 13mm Tube section	1125mm x 13mm Ø	4
		Sección Tubo 10mm 10mm Tube section	1451,2mm x 10mm Ø	2
EA01BALKI		BALUN + KIT	3kW BALUN	1