WY 380-10N

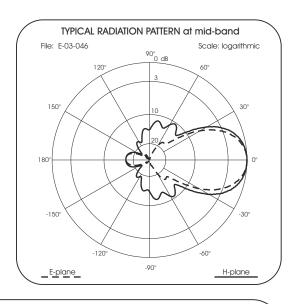
WY 400-10N

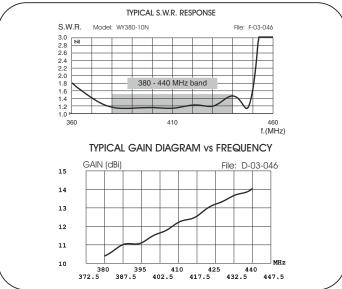
UHF Base Station 10 Elements Yagi Antennas 380-470 MHz

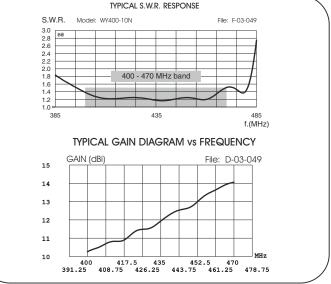
DESCRIPTION: Base station antennas conceived by using an innovative feed system studied and applied to have highly symmetrical radiation pattern in both planes (E and H). It's completely computer designed to get high performances of gain and front-to-back in the working band. All aluminium parts are protected by anodized treatment, hardware are of Stainless steel or zinc plated steel, mounting bracket is of extruded aluminium for the best strength and the connector is placed in rear position for an easily access. To increase the antenna gain please install it in vertical stacked array. **These products are Patented.**



Electrical Data	WY 380-10N	WY 400-10N	
Туре	10 elements Yagi		
Frequency Range @ SWR ≤ 1.5	380 - 440 MHz	400 - 470 Mhz	
Impedance	50 Ω		
Radiation (H-plane) beamwidth @ -3 dB	50° - HCM code = 025EB00		
Radiation (E-plane) beamwidth @ -3 dB	45° - HCM code = 022EA12		
Front to back ratio	≥ 18 dB		
Polarization	Linear Vertical or Horizontal		
Gain	11.85 dBd - 14 dBi		
Max Power (CW) @ 30°C	150 Watts		
Grounding Protection	All metal parts are DC-grounded, the inner conductor shows a DC		
	sh	ort	
Connector	N-female with rubber protection cap		
Mechanical Data			
Materials	Anodized 6063-T5 Aluminium,	EPDM rubber, thermoplastic UV	
	stabilized, Chromed Brass		
Wind Load @ 150 km/h	150 N	142 N	
Wind Resistance	130 Km/h; 80 mi/h	130 Km/h; 80 mi/h	
Wind Surface	0.121 m ² ; 1.3 ft ²	0.115 m ² ; .23 ft ²	
Dimensions W x H (approx.)	2125 x 400 mm; 7.0 x 1.3 ft	2000 x 375 mm; 6.6 x 1.2 ft	
Turning radius (approx.)	1990 mm; 6.5 ft	1860 mm; 6.1 ft	
Weight (approx.)	2140 gr; 4.7 lb	2060 gr; 4.5 lb	
Operating temperature	-40° C to +60° C		
Mounting Mast	Ø 35 - 60 mm; 1.4 - 2.4 in		
Boom / Dipole / Element Diameter	Ø 32 mm; 1.3 in / Ø 24 mm; 0.95 in / Ø 12 mm; 0.5 in		

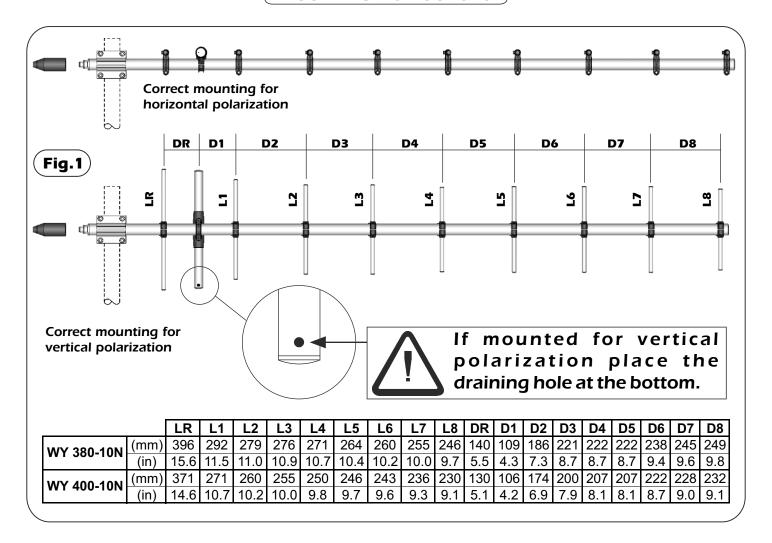








MOUNTING INSTRUCTIONS



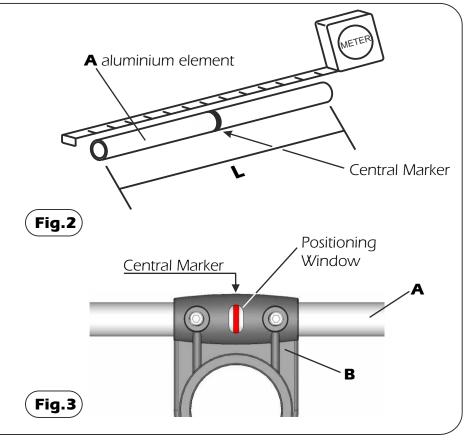
Element Mounting

- 1) By means of a meter measure the aluminium elements **A** and position them in the plastic support **B** of the boom according to **fig.1**.
- **2**) Place the reference marker of the aluminium element **A** in the centre of the plastic support **B** (see **fig. 3**) and lock the screws **C** by the supplied key **D** (**fig. 4**). When the screws touch the aluminium tubes you can finally lock them turning for 1.5 turns.

Warning: do not exceed 1.5 turns. The plastic support threads could be damaged.

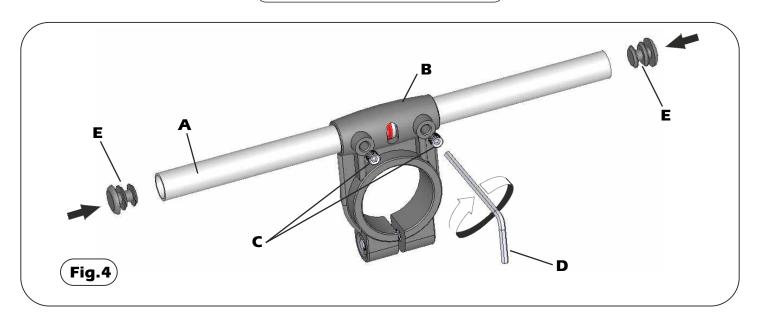
3) Insert the plastic caps **E** on the aluminium elements **A** (see **fig. 4**)

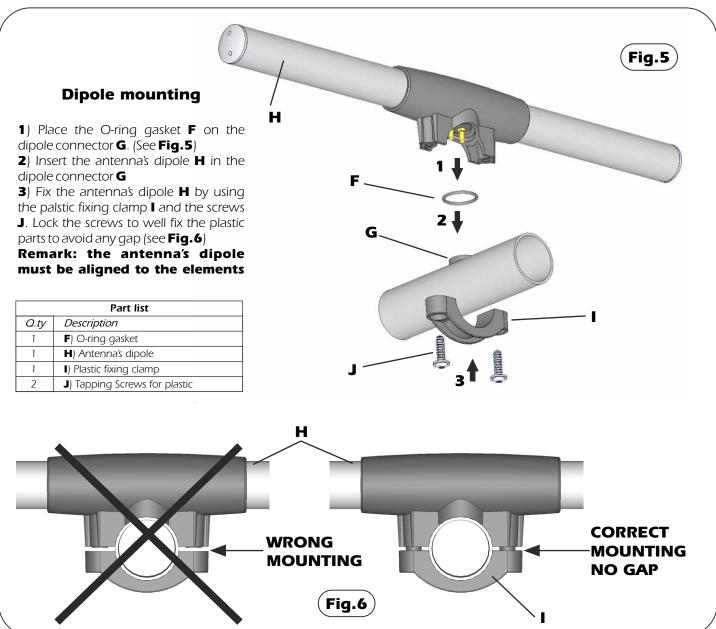
Part list		
Q.ty	Description	
1	A) Aluminum tubes	
2	C) M5x6 Hexagon socket set screw	
1	D) 2.5mm Hexagonal key	
2	E) Plastic cap	





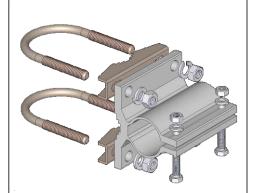
MOUNTING INSTRUCTIONS





MOUNTING INSTRUCTIONS

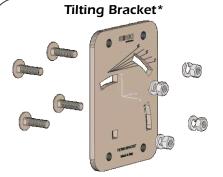
Standard FT-6 Mounting Bracket



Spare parts: p/n 2519913.00

Materials: extruded aluminum Hardware: stainless steel Dimensions: 90 x 85 x 65 mm Weight: 550 gr

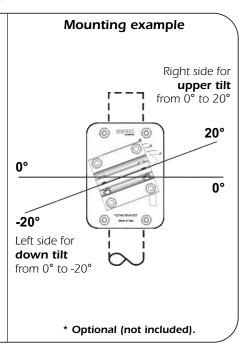
Part list		
Q.ty	Description	
1	Extruded aluminium bracket	
2	Steel bracket	
2	M8x216 U-bolt	
4	M8 Grower washer	
4	M8 Hexagonal nut	
2	M6x20 Hexagonal head screw	
2	M6 Grower washer	
2	M6 Hexagonal nut	

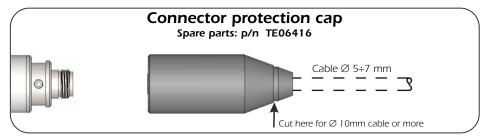


Order p/n: 2519803.00

Materials & Hardware: zinc plated steel Dimensions: 115 x 155 x 6 mm. Weight: 870 gr

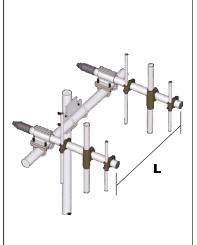
Part list		
O.ty	Description	
1	115x155x6 Tilting bracket	
4	M8x25 Spheric head screw	
4	M8 Grower washer	
4	M8 Hexagonal nut	



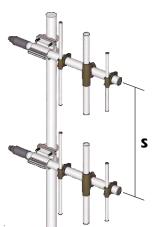




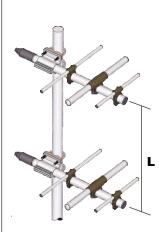
WY380-10N: **L**=370mm;14.5in. **S**=530mm;20.8in WY400-10N: **L**=350mm;13.8in. **S**=500mm;19.7in



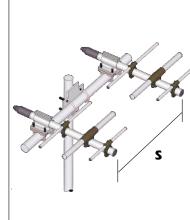
Vertical polarization (Bayed)



Vertical polarization (Stacked)



Horizontal polarization (Stacked)



Horizontal polarization (Bayed)

