MOUNTING INSTRUCTIONS

Standard Mounting Bracket



Spare parts: p/n SA197

Materials: extruded aluminum Hardware: stainless & zinc plated steel Dimensions: 80 x 76 x 65 mm

Weight: 460 gr

Part List		
Q.ty	Description	
1	Extruded aluminium bracket	
2	Steel bracket	
2	M8x200 U-bolt	
4	M8 Grower washer	
4	M8 Hexagonal nut	
2	M6x20 Hexagonal head screw	
2	M6 Grower washer	
2	M6 Hexagonal nut	

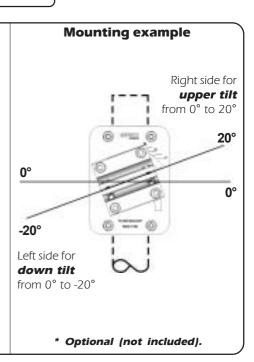
Tilting Bracket*

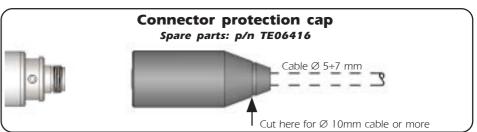
Order p/n: 2519803.00

Materials & Hardware: zinc plated steel Dimensions: 110 x 150 x 6 mm.

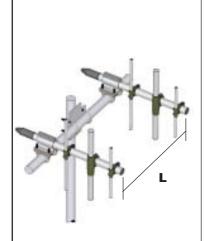
Weight: 800 gr

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	Part List
O.ty	Description
1	110x150x6 Tilting bracket
4	M8x25 Spheric head screw
4	M8 Grower washer
4	M8 Hexagonal nut









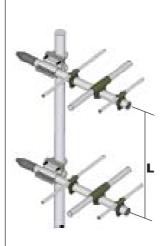
Vertical polarization (Bayed)

L= 370 mm



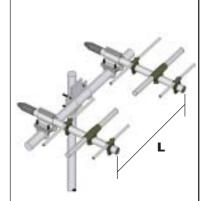
Vertical polarization (Stacked)

L= 530 mm



Horizontal polarization (Stacked)

L= 370 mm



Horizontal polarization (Bayed)

L= 530 mm



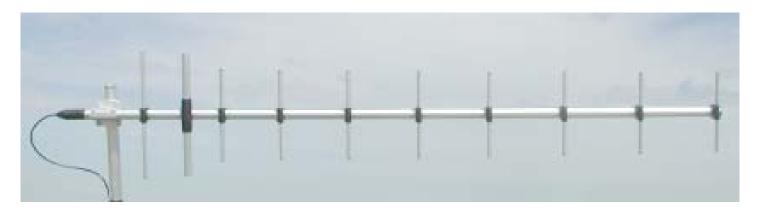
HI-QUALITY ANTENNAS MADE IN ITALY

WY380-ION

380-440 MHz Base Station IO Element Yagi Antenna

DESCRIPTION

Base station antenna 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 stacked or bayed array. **Patent pending applied**.



TECHNICAL DATA

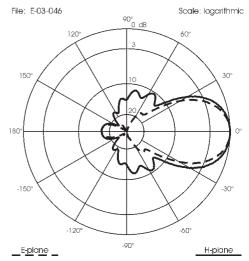
Electrical Data

Туре	10 element Yagi
Frequency range	380 - 440 MHz
Impedance	50 Ω Unbalanced
Polarization	Linear Vertical or Horizontal
Radiation (H-plane)	beamwidth at -3 dB= 50° at 410 MHz
Radiation (E-plane)	beamwidth at -3 dB= 45° at 410 MHz
Max Gain	14 dBi
Front to Back ratio	≥ 18 dB
S.W.R. in bandwidth	≤ 1.5:1
Max Power	150 Watts (CW) at 30°C
Feed system / Position	RG303 Teflon coax with balun / inside boom
Lightning protection	DC-ground
Connector	N-female with rubber protection cap

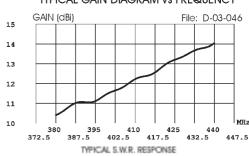
Mechanical Data

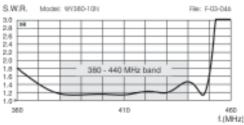
Wiccilailicai Data	
Materials	Anodized 6063-T5 Aluminium,
	Thermoplastic UV stabilized, Chromed Brass
Wind load / resistance	150 N at 150 Km/h / 120 Km/h
Wind surface	0.120 m ²
Dimensions (approx.)	2125 x 400 mm
Weigth (approx.)	2120 gr
Turning radius	1990 mm
Operating temperature	-40° C to +60° C
Mounting Mast	Ø 35-52 mm

TYPICAL RADIATION PATTERN at 410 MHz



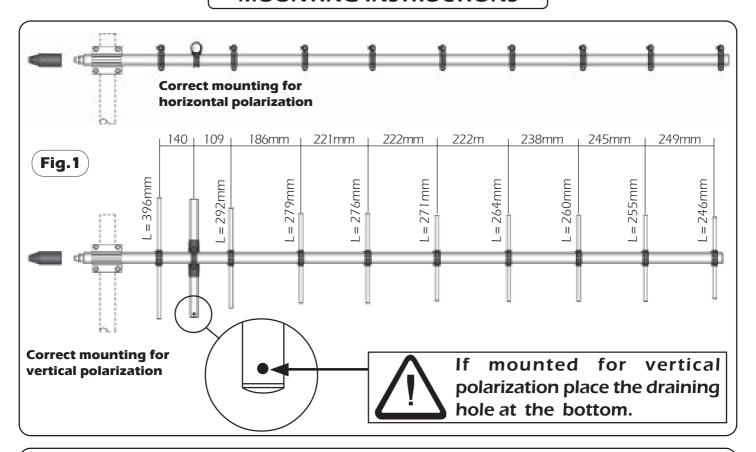
TYPICAL GAIN DIAGRAM VS FREQUENCY







MOUNTING INSTRUCTIONS



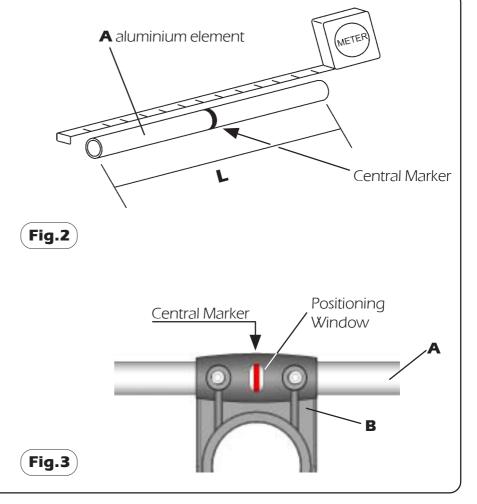
Element Mounting

- 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	
9	A) Aluminium tubes (9 different length)	
18	C) M5x6 Hexagon socket set screw	
1	D) 2.5mm Hexagonal key	
18	E) Plastic cap	





MOUNTING INSTRUCTIONS

