

(D4C 使用的天线)

意大利 MomoBeam 短波八木天线性能参数

## TRI 10 – 101520 三波段八木天线



TRI 10 101520	Bands	10 m	15 m	20 m
Gain dBi: (20 meters above the ground)		15.06	13.36	12.60
Gain dBd free space:		7.3	5.7	5.2
F/B:		25	25	20
Active elements:		4	3	3
Bandwidth kHz S.W.R. ≤ 1.5:1		800	450	350
Boom Length:		650 cm/21.30 ft		
Turning radius:		640 cm/21 ft		
Feed line required:		1 x 50 Ohm		
Max tower lift side:		70 cm/2.29 ft		

Longest element: 1090 cm/35.76 ft

Power handling: 10 KW

Wind area: 0.97 m<sup>2</sup>/10.44 sq ft

Wind load 130Km/h: 772 N

Wind survival\*: 130 Km/h – 80 MPH

Tower Leg/Mast diameter: 40/60 mm – 1.57/2.36 inch  
(larger on request – specify on order form)

RF Choke: 3 KW rated included

Weight (excluding packaging): 34 Kg/69 lb

### MATERIALS USED

Tubes and plates: aluminum alloy 6060T6

Hardware: stainless steel

Insulating clamps: Polypropylene UV resistant

# PENTA 10 – 1012151720 五波段八木天线



PENTA10 1012151720 Bands	10 m	12 m	15 m	17 m	20 m
Gain dBi: (at 20m from the ground)	12.3	12.5	11.50	11.60	12.00
Gain dBd free space:	4.9	4.7	4.0	4.1	4.5
F/B:	25	15	15	15	15
Active elements:	2	2	2	2	2
Bandwidth kHz SWR ≤ 1.5:1	700	100	450	100	350
Boom length:	390 cm/12.80 ft				
Turning radius:	590 cm/19.35 ft				
Feed line:	1 x 50 Ohm				
Max tower lift/ side mount:	50 cm/1.64 ft				

Max element length: 1100 cm/36 ft

Power handling: 10 KW

Wind area: 0.795 m<sup>2</sup>/8.6 sq ft

Wind load 130Km/h: 635 N

Wind survival\*: 130 Kmh – 80 MPH

Tower Leg/Mast diameter: 40/60 mm – 1.57/2.36 inch  
(larger on request – specify on order form)

RF Choke: 3 KW rated included

Weight (excluding packaging): 27 Kg/60 lb

#### MATERIALS USED

Tubes and plates: aluminum alloy, 6060T6

Hardware: stainless steel

Insulating clamps: UV resistant polypropylene

Manual: English

\*Wind survival is the maximum wind speed at which there is no permanent deformation of the antenna (calculated in the absence of ice)

# TETRA 17 – 10152040 四波段八木天线



TETRA 17 10152/40 Bands	10m	15m	20m	40m
Gain dBi: (20 meters above the ground)	16.0	15.2	14.6	12.7
Gain dBd free space:	8.1	7.6	7.3	4.98
F/B:	20	25	20	20
Active elements:	6	4	4	3
Bandwidth kHz S.W.R. ≤ 1.5:1	800	450	350	200
Boom Length:	1210 cm/39.70 ft			
Turning radius:	1270 cm/41.70 ft			
Feed line required:	1 X 50 Ohm			
Max tower lift side:	90 cm/2.95 ft			

Longest element: 2220 cm/72.80 ft

Power handling: 10 KW

Wind area: 2,54 m<sup>2</sup>/27.34 sq ft

Wind load 130Km/h: 2072 N

Wind survival\*: 130 Km/h – 80 MPH

Tower Leg/Mast diameter: 40/60 mm – 1.57/2.36 inch  
(larger on request – specify on order form)

RF Choke: 3 KW rated included

Weight (excluding packaging): 140 Kg/310 lb

## MATERIALS USED

Tubes and plates: aluminum alloy 6060T6

Hardware: stainless steel

Insulating clamps: Polypropylene UV resistant

Manual: English

\*Wind survival is the maximum wind speed to which the antenna can be subjected without incurring permanent deformation (calculated in the absence of ice)

# TRI 7 – 101520 三波段八木天线



TRI7 101520	Bands	10 m	15 m	20 m
Gain dBi: (20 meters above the ground)		13.8	12.0	11.5
Gain dBd free space:		6.1	4.3	4.2
F/B:		18	15	15
Active elements:		3	2	2
Bandwidth kHz S.W.R. $\leq$ 1.5:1		800	450	350
Boom Length:		420 cm/13.75 ft		
Turning radius:		600 cm/19.68 ft		
Feed line required:		1 x 50 Ohm		
Max tower lift side:		130 cm/4.26 ft		

Longest element: 1110 cm/36.45 ft

Power handling: 10 KW

Wind area: 0.68 m<sup>2</sup>/7.30 sq ft

Wind load 130Km/h: 558 N

Wind survival\*: 130 Kmh – 80 MPH

Tower Leg/Mast diameter: 40/60 mm – 1.57/2.36 inch  
(larger on request – specify on order form)

RF Choke: 3 KW rated included

Weight (excluding packaging): 27 Kg/59 lb

#### MATERIALS USED

Tubes and plates: aluminum alloy 6060T6

Hardware: stainless steel

Insulating clamps: Polypropylene UV resistant

Manual: English

# DUO5 30 40T SF 30/40 两波段



DUO5 30 40 SF	Bands	30 m	40 m	
Gain dBi: (20 meters above the ground)		12.0	11.0	Longest element: 1820 cm/59.70 ft
Gain dBd free space:		4.85	4.2	Power handling: 10 KW
F/B:		25	15	Wind area: 0.9 m <sup>2</sup> /9.68 sq ft
Active elements:		3	2	Wind load 130Km/h: 730 N
Bandwidth kHz S.W.R. ≤ 1.5:1		700	300	Wind survival*: 130 Km/h - 80 MPH
Boom Length:		700 cm/23 ft		Tower Leg/Mast diameter: 40/60 mm - 1.57/2.36 inch (larger on request - specify on order form)
Turning radius:		975 cm/32 ft		Balun: 2x 3 KW included
Feed lines required:		2 X 50 Ohm		Weight (excluding packaging): 70 Kg/155 lb
Max tower lift side:		70 cm/2.29 ft		Materials used Tubes and plates: aluminum alloy 6060T6 Hardware: stainless steel Insulating clamps: Polypropylene UV resistant

# TRI9 121730 WARC 三波段



TRI9 121730	Bands	12 m	17 m	30 m
Gain dBi: (20 meters above the ground)		15.0	12.0	11.1
Gain dBd free space:		7.0	5.2	3.8
F/B:		20	20	15
Active elements:		4	3	2
Bandwidth kHz S.W.R. $\leq$ 1.5:1		150	150	100
Boom Length:		690 cm/22.63 ft		
Turning radius:		850 cm/27.88 ft		
Feed line required:		1 x 50 Ohm		
Max tower lift side:		70 cm/2.30 ft		

Longest element: 1600 cm/52.50 ft  
 Power handling: 10 KW  
 Wind area: 1.26 m<sup>2</sup>/13.56 sq ft  
 Wind load 130Km/h: 1028 N  
 Wind survival\*: 130 Km/h – 80 MPH  
 Tower Leg/Mast diameter: 40/60 mm – 1.57/2.36 inch  
 (larger on request – specify on order form)  
 RF Choke: 3 KW rated included  
 Weight (excluding packaging): 60 Kg/133 lb

#### MATERIALS USED

Tubes and plates: aluminum alloy 6060T6  
 Hardware: stainless steel  
 Insulating clamps: Polypropylene UV resistant