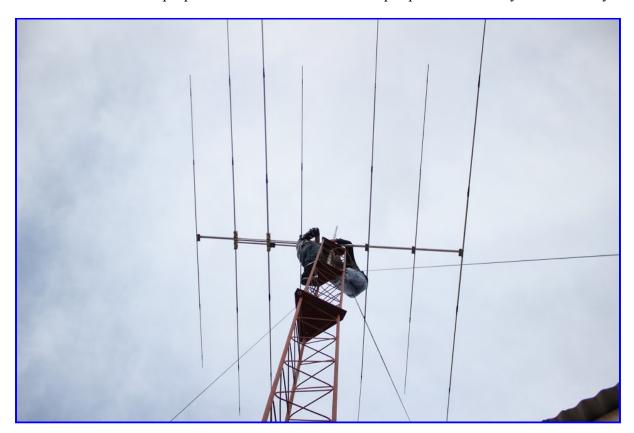
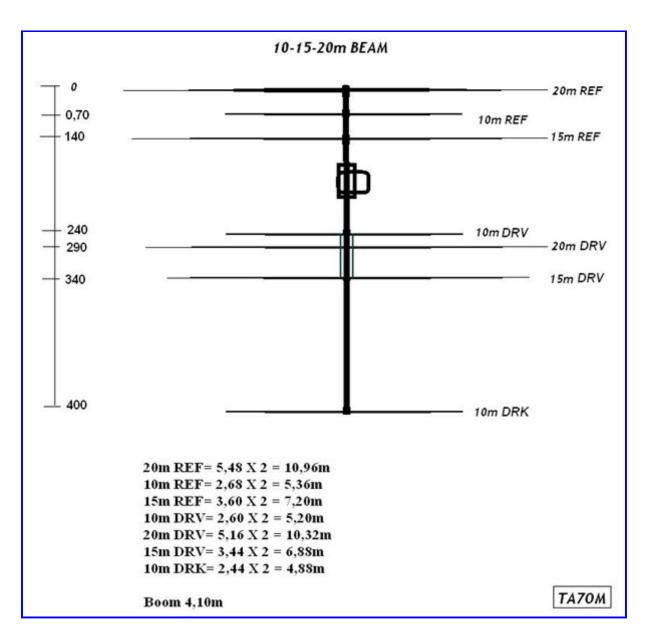
10m-15m-20m Tribander Yagi

Yazar: TA7OM http://www.ta7om.com

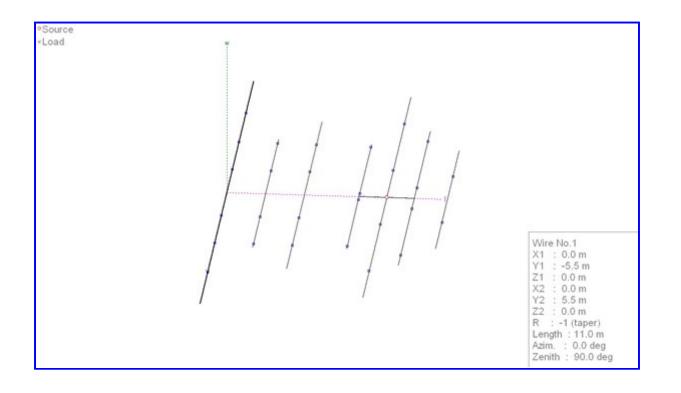
10m/15m/20m home mode 7 element tribander HF Super-compact yagi antenna. 20m band 2 el, 15m band 2 el. 10m band 3 elements. Very high gain, wideband operation antenna, low SWR, excellent F/B. Excellent mechanical properties. Direct 50 Ohm feed. Input power limited by feed line only.



Ready assamble my Home mode full size 10m/15m/20m Yagi



TA7OM 10m/15m/20m Yagi



Band

Gain(dbi)

SWR; 14,0 – 14,20 – 14,35

10m / 15m / 20m

13,1 / 12,0/ 11,5

$$1,3-1,0-1,4$$

Impedance

50 Ohm

Number of Elements 7

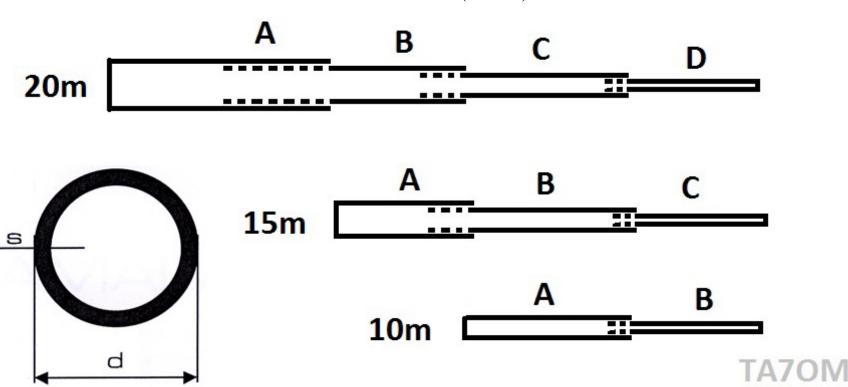
Active Elements 10m:3 EL / 15m: 2 EL / 20m:2 EL

Longest element. 10,96m

Boom length. 4,10m

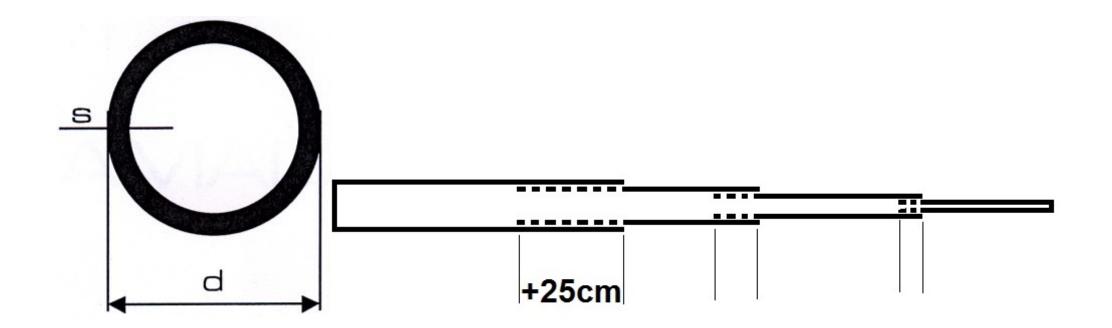
Weight. (kg) 20kg

ASSEMBLED SIZE (1 WING)



BANDS	A D: 25 mm S: 2 mm	B D: 20 mm S: 1,5 mm	C D: 16 mm S:1,5 mm	<u>D</u> D:12mm S: 1 mm	One wing length	NOTES
20m REF	100cm	150cm	150cm	148cm	548	
20m DRV	100cm	150cm	150cm	116cm	516	
		<u>A</u>	<u>B</u>	<u>C</u>		
		D: 20 mm	D: 16 mm	D:12mm		
		S: 1,5 mm	S:1,5 mm	S: 1 mm		
15m REF		125cm.	115cm	120cm	360	. 35
15m DRV		125cm.	115cm	104cm	344	+25 cm will be added.
			A	<u>B</u>		aggeg.
			D: 16 mm	D:12mm		
			S:1,5 mm	S: 1 mm	,	
10m REF			125cm	143cm	268	
10m DRV			125cm	135cm	260	
10m DRK			250cm	119cm	244	

ALUMINUM CUTING LENGTHS (+25cm addet)



	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	
BANDS	D: 25 mm	D: 20 mm	D: 16 mm	D:12mm	NOTLAR
	S: 2 mm	S: 1,5 mm	S:1,5 mm	S: 1 mm	
20m REF	200cm X 1piece	175cm X 2piece	175cm X 2piece	170cm X 2 piece	
20m DRV	100cm X 2piece	175cm X 2piece	175cm X 2 piece.	141cm X 2 piece.	
		<u>A</u>	<u>B</u>	<u>C</u>	
		D: 20 mm	D: 16 mm	D:12mm	
		S: 1,5 mm	S:1,5 mm	S: 1 mm	
15m REF		250cm X	140cm X	145cm X 2	
IOIII KEI		1piece	2piece	piece.	will you cutting
15m DRV		125cm X 2piece	140cm X 2 piece	130cm X 2 piece.	aluminum according to this
			A	<u>B</u>	measure!
			D: 16 mm	D:12mm	
			S:1,5 mm	S: 1 mm	
10m REF			250cm X 1 piece	168cm X 2 piece	
10m DRV			125cm X 2 piece	160cm X 2 piece	
10m DRK			250cm X 1 piece	145cm X 2piece	

THE TOTAL LENGHT LIST

25x2mm	20x1,5m m	16x1,5m m	12x1mm 21,66 meter	
4 meter	12meter	20,10 meter		
L Bracket A – A: 4 cr S.:.4mm	Total:	x 4 _	a s	
SHEET 30cmx6cn (thickness B: 6 mm		x 3	8	
BOX Total: cn A-A:20 mm S: 1mm 102cr pie		x 2	→ s a	
BOOM D: 40 mm S: 2,5mm	cm		0	

OTHER MATERIALS

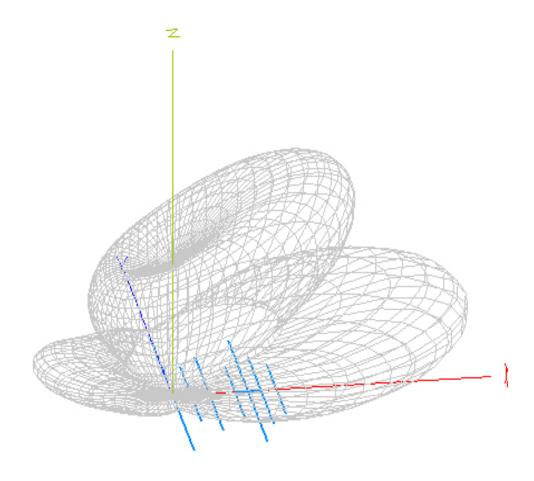


1 PCS ANTENNA CUTTING LENGTHS

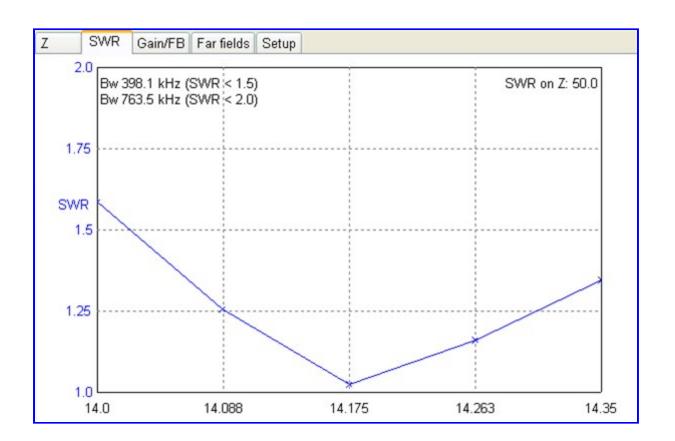
6063 Aluminium Allox	Cutting Lenght
40x2,5mm(<u>Boom</u>)	410cm X 1 pcs
25x2mm	200cm X 1 pcs 100cm X 2 pcs
20x1,5mm	175 cm X 4 pcs 250 x 1 pcs 125 x 2 pcs
16X1,5mm	175cm x 4 pcs 140 cm x 4 pcs 250cm x 2 pcs 125 cm x 2 pcs
12X1mm	170 cm x 2 pcs 141 cm x 2 pcs 145 cm x 4 pcs 130cm x 2 pcs
	168 cm x 2 pcs

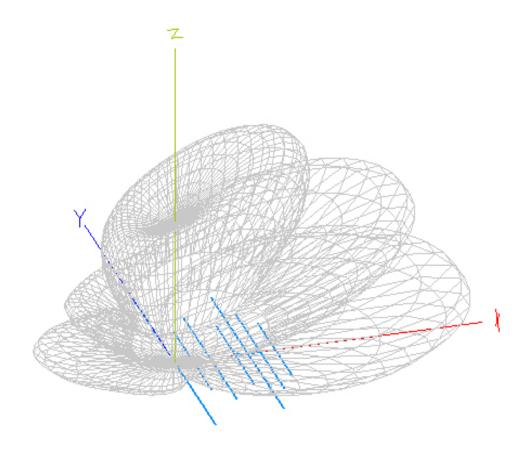
Technical Notes;

20m Pattern;



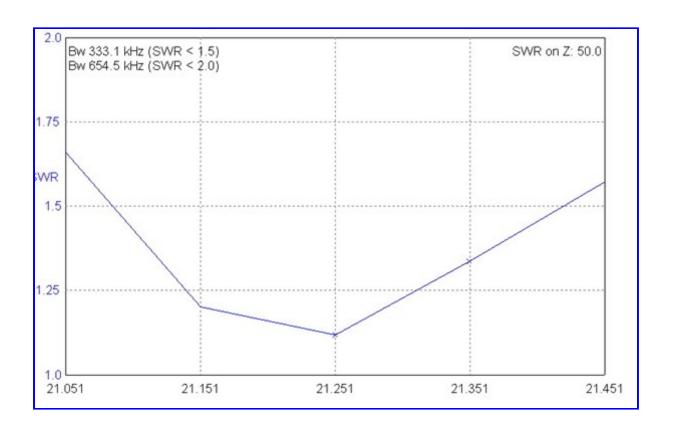
20m 3D 20m SWR; Bandwidth 398 Khz. (<1.5)



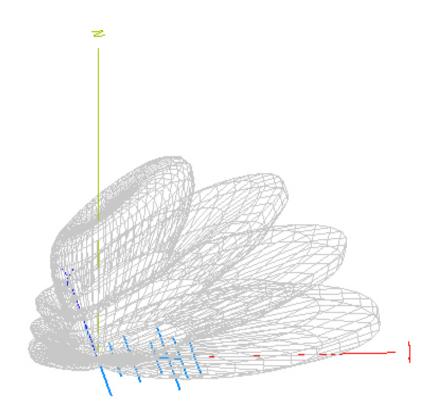


15m Patern;

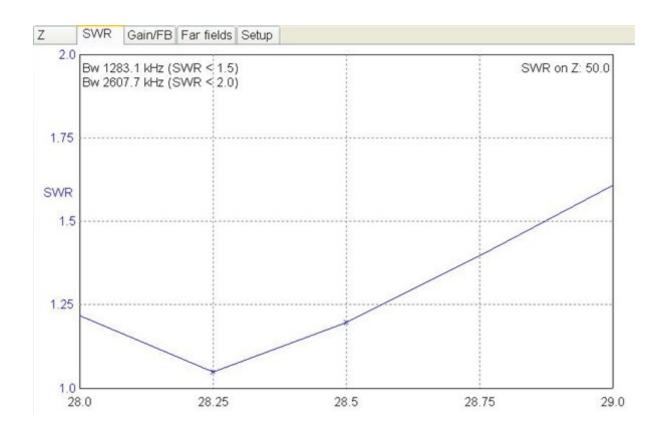
15m 3D 15m SWR; Bandwidth 333Khz (< 1.5)



10m Patern;



10m 3D 10m SWR; Bandwidth 1283 Khz (<1.5)



L-Bracket; (13cm length)





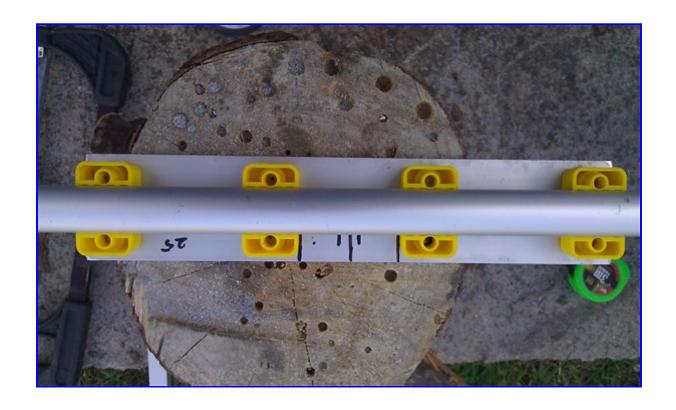


U Bolt Clamp (for the elements 47mm. and the Tower mounting pipe 54 or 60mm)



Hydraulic Pipe Clamps; (good material for the construction of the antenna).





Driver Elements insulator; (Hart plastic)

According to the internal diameter of the pipe will be made. Pipes should be 25 cm. internal node spacing of 2.5 cm.



(This photo shows the plastics made for 4 antennas.) you need one for each band.)

Pipe insertion method;

it should be noted in the screwing method. Aluminum pipes are drilled according to proper opening of the element chrome bolt hole opened up, but to go through the head of a screw on the top side of the aluminum supplied complete and tightly tightening. Otherwise it is not possible to make a complete and powerful compression. you need to use washers under the screw and relaxation for chromium to prevent corrosion.





Driving element montage; (Lama 6X30cm)





Phase Line; 102cm X 2 piece, (2cm x 2cm)





