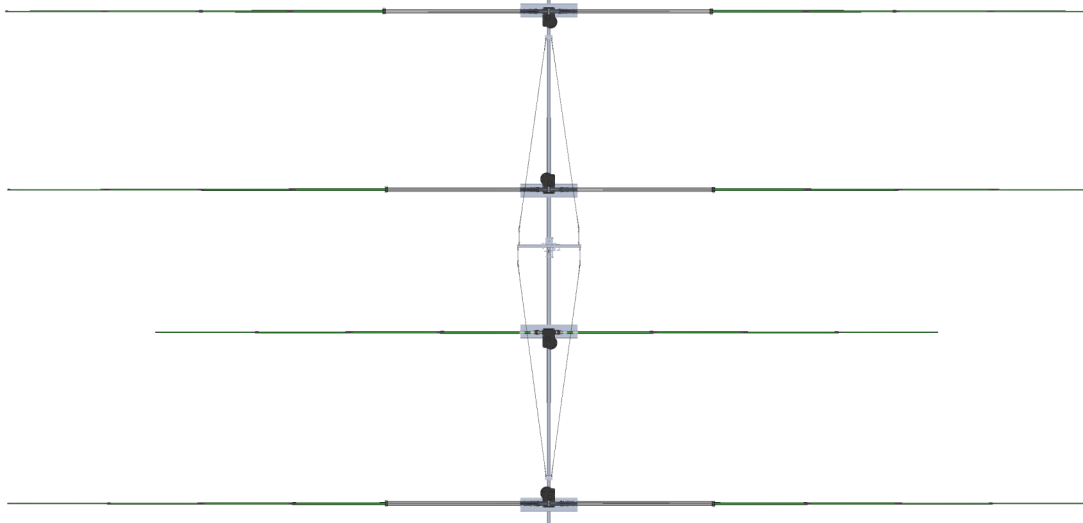
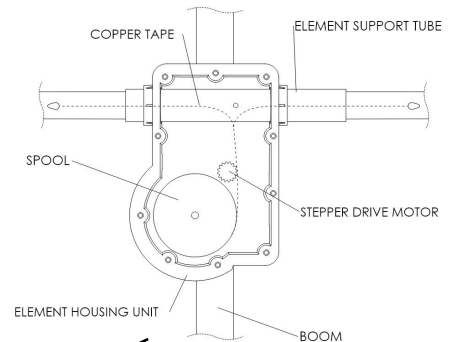


HFT423C Yagi Data Sheet



Description

The HFT series Yagis are an industrial grade antenna solution that can be customized to meet the specific requirements of the user. The HFT series antennas are designed to be heavy-duty in order to withstand difficult conditions, while still offering the utmost in reliability and performance that SteppIR products are well known for.

Our patented system utilizes an electronic controller which remotely adjusts each stepper motor driven antenna element to the exact length required on every frequency within its range— providing optimal performance with none of the compromises that all fixed length antennas require.

HFT423C Yagi Data Sheet



HFT423C Specifications	
Frequency coverage	10—30 MHz—continuous
Active elements	3 elements 10.0—13.5 MHz; 4 elements 13.5—30 MHz
Element length	Three @ 50 ft [15.72 m] one @ 37 ft [11.30m]
Boom type/length	Aluminum round tube, 23 ft [] telescoping. 2.25" - 2.0" Outside Diameter
Antenna weight	336 lb [152 kg] ; does not include boom to mast assembly;
Truss system	Double truss boom; dual top truss on 51.5 ft elements
Antenna system	Single feed line, Single driven element, no relays
Projected Wind Area	35.16 sq ft [3.27 sq m]
Wind Rating	110 MPH [178 KPH]
Turning Radius	27.92 ft [8.51 m]
Power Rating	3KW [50% duty cycle] 1.5 KW [90% duty cycle] -HP High-power version available
Mast Hardware	3" [7.62 cm] Aluminum saddles; Mast OD must be 3.00 in / 7.62 cm
Cable Requirements	16 wire 22 ga shielded; Lightning/voltage suppressor recommended

HFT423C-HP Gain/ Front-to-rear at 130 ft height

Frequency (MHz)	Gain dBi (over ground)	Front-to-rear dB	Frequency (MHz)	Gain dBi (over ground)	Front-to-rear dB
10.0	12.89	25.56	21.0	13.16	28.15
11.0	13.02	28.01	22.0	13.27	24.92
12.0	13.12	26.0	23.0	13.37	22.34
13.0	13.20	28.42	24.0	14.68	21.00
14.0	13,22	28.06	25.0	14.86	21.50
15.0	13.20	28.35	26.0	15.02	22.11
16.0	13.21	28.39	27.0	15.19	22.85
17.0	13.24	28.32	28.0	15.32	23.40
18.0	13.22	28.12	29.0	15.52	23.55
19.0	13.26	28.12	30.0	15.64	24.01
20.0	13.25	27.32			