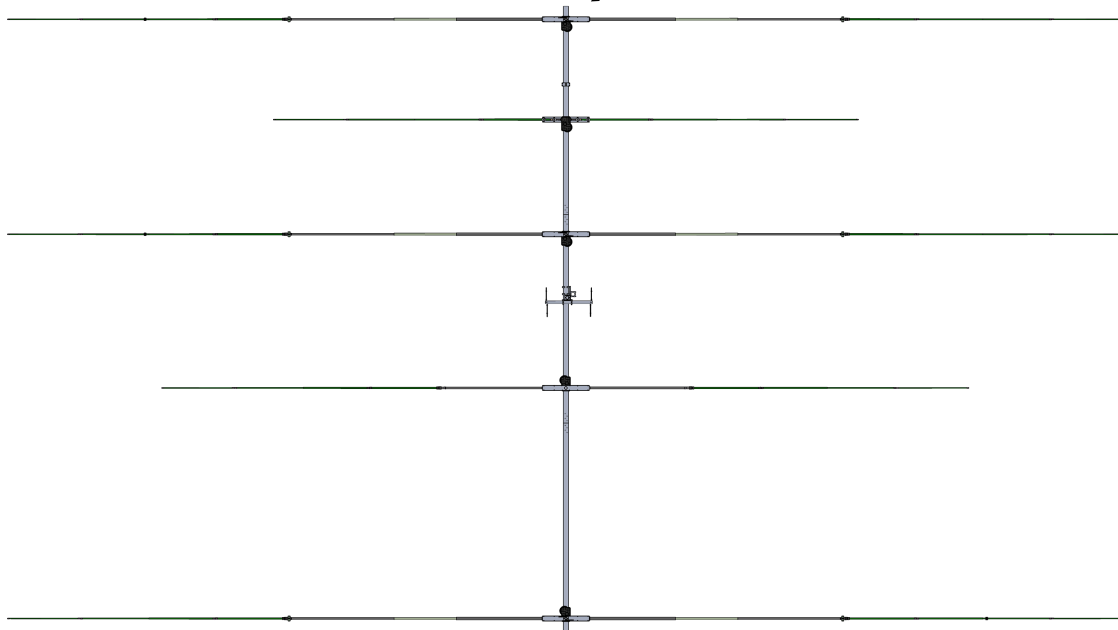
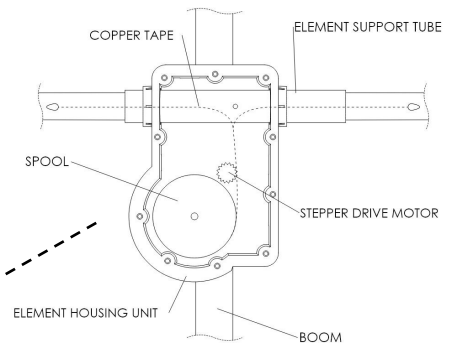


HFT540C Yagi Data Sheet



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.

HFT540C Yagi Data Sheet



HFT540C Specifications

Frequency coverage	6.8—30 MHz—continuous
Active elements	3 elements 6.8—8.225 MHz; 4 elements 8.225—13.315 MHz; 5 elements 13.315—30 MHz
Element length	Three @ 71.5 ft [21.79 m] one @ 51.5 ft [15.69 m] one @ 37.2 ft [11.33m]
Boom type/length	Aluminum square tube, 4" [10.16 cm]; 40 ft [12.19 m] length;
Antenna weight	495 lb [224 kg] ; does not include boom to mast assembly;
Truss system	Double truss boom; dual top truss on 71.5 ft / 51.5 ft elements
Antenna system	Automatic remote coax switching system; single feed line, relay switched
Wind Load	5.01 m ² [54.11 ft ²]
Wind Rating	110 MPH [178 KPH]
Turning Radius	41.75 ft [12.73 m]
Power Rating	3KW [50% duty cycle] 1.5 KW [90% duty cycle] High-power version available
Mast Hardware	3" [7.62 cm] Aluminum saddles; Mast OD must be 3.00 in / 7.62 cm
Cable Requirements	24 wire 22 ga shielded; Lightning/voltage suppressor recommended

Gain / Front-to-Rear / Beamwidth at 130 ft height

Frequency (KHz)	Gain (dBi)	Front to Rear (dB)	Frequency (KHz)	Gain (dBi)	Front to Rear (dB)
6800	13.45	25.44	16215	16.05	25.11
7275	13.68	25.34	16940	16.22	25.35
7750	13.97	25.21	17665	16.18	26.19
8225	14.03	25.04	18390	16.48	25.26
8700	14.19	25.15	19115	16.31	25.66
9195	14.30	25.34	19840	15.93	25.60
9690	14.29	25.33	20565	15.74	25.23
10415	14.21	25.21	21290	15.61	25.21
11140	14.14	25.29	22015	16.54	25.52
11865	14.18	25.18	22740	16.42	25.40
12590	14.37	25.40	23465	16.6	25.49
13315	14.48	25.35	24915	16.93	25.48
14040	15.41	25.29	26365	17.13	25.36
14765	15.71	25.09	27815	17.11	25.40
15490	16.03	25.49	29265	17.18	25.49