

TACOTM

ANTENNA

UHF SATCOM HELICALS



Mast Mounted Helical

AM-1 Adjustable Mast Mount
NSN 5985-01-587-7470

CIRCULAR POLARIZED UFO & MUOS COMPATIBLE

TACO's circularly polarized high gain fixed UHF SATCOM antennas are designed to withstand harsh environmental conditions. Presently used by all branches of the US military and various defense contractors worldwide, TACO Helicals are an industry leader in SATCOM communications.

- Solid construction using high quality materials
- Stainless steel helix supported by dielectric rods along mast
- Control remotely with electrical pan & tilt positioners
- 2-piece ground plane assembles easily with no tools required
- Mesh design allows for reduced wind loading
- RoHS and REACH compliant

HM-5-A Tripod Mount
NSN 5940-01-664-0101



Tripod Mounted Helical

MOUNT OPTIONS

MODEL	HEIGHT in/cm	WEIGHT lbs/kg	POSITION - °		MAST OD in/cm
			Azimuth	Elevation	
AM-1 Mast Mount	N/A	48.2 / 21.9	360	15 ± 90, Fixed increments	2.875-4.5/7.3-11.4
HM-5-A Tripod	48.0/121.9	*125.0/56.7	360	-5 to 95	3.0/7.6
HM-5-B Tripod	48.0/121.9	**172.0/78.0	360	-5 to 95	3.0/7.6
HM-5-C Tripod	48.0/121.9	***219.0/99.3	360	-5 to 95	3.0/7.6

*6, **12, and ***18 counter-weights

TACO Antenna's ongoing policy of continuing development may result in specification changes to its products.

TACO ANTENNA
(A division of Wade Antenna, Inc.)

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Ask us today about our new UHF SATCOM Helical Pedestal Mount

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SPEC0010_AA01

SPECIFICATIONS

Environmental

- Operating Temp. -40° to 70°C (-40° to 158°F)
- Designed to meet MIL-STD 810G
- Color RAL 7046, Battleship Gray

Electrical

- Impedance 50 Ohms
- Cross Pol Rejection 20dB

ELECTRICAL

	Model (NSN)	Gain (dBic)	Polarization (Circular)	HPBW (°)	Axial Ratio (dB)	Front/Back Ratio	VSWR Max	Connector	Input Power Max (W)
240-320 MHz	H-084	13.1	Right Hand	46	1.2	28.8	1.5:1	N Female	500
	H-104	13.4	Right Hand	41	1.0	30.8	1.5:1	N Female	500
	H-124 (5985-01-476-0720)	15.0	Right Hand	41	0.8	29.8	1.5:1	N Female	500
225-400 MHz	H-064A	11.9	Right Hand	48	1.2	29.1	1.5:1	N Female	500
	H-084A (5985-01-587-3790)	12.8	Right Hand	52	1.1	29.0	1.5:1	N Female	500
300-520 MHz	H-065	12.3	Right Hand	43	1.1	27.9	1.5:1	N Female	500
	H-065-L	12.3	Left Hand	43	1.1	27.9	1.5:1	N Female	500
	H-085	13.2	Right Hand	40	0.9	28.7	1.5:1	N Female	500
	H-085-L	13.2	Left Hand	40	0.9	28.7	1.5:1	N Female	500
	H-105	13.5	Right Hand	37	0.8	29.7	1.5:1	N Female	500
	H-105-HN	13.5	Right Hand	37	0.8	29.7	1.5:1	HN Female	1000
	H-105-L-HN	13.5	Left Hand	37	0.8	29.7	1.5:1	HN Female	1000

MECHANICAL

	Model	Wind Area (sq. ft)		Wind Load (ft-lbs)		Survival Rating	Length (In/cm)	Helical Dia. (In/cm)	Ground Plane Dia. (In/cm)	Weight (lbs/kg)
		No Ice	½" Radial Ice	*No Ice	**1/2" Radial Ice	***No Ice (mph)				
240-320 MHz	H-084	2.5	5.6	344	223	150	112.0 / 284.5	13.4 / 34.0	35.0 / 89.0	36.0 / 16.3
	H-104	3.1	7.1	530	344	150	134.0 / 340.4	13.4 / 34.0	35.0 / 89.0	44.0 / 20.0
	H-124 (5985-01-476-0720)	3.8	8.5	755	491	150	155.0 / 393.7	13.4 / 34.0	35.0 / 89.0	49.0 / 22.2
225-400 MHz	H-064A	2.1	4.7	221	145	150	84.6 / 214.9	11.9 / 30.2	35.0 / 89.0	29.0 / 13.2
	H-084A (5985-01-587-3790)	2.2	4.9	259	169	150	102.8 / 261.1	11.9 / 30.2	35.0 / 89.0	33.0 / 15.0
300-520 MHz	H-065	1.1	2.4	73	48	150	68.0 / 172.7	9.0 / 22.9	35.0 / 89.0	25.0 / 11.3
	H-065-L	1.1	2.4	73	48	150	68.0 / 172.7	9.0 / 22.9	35.0 / 89.0	25.0 / 11.3
	H-085	1.4	3.2	128	83	150	84.0 / 213.4	9.0 / 22.9	35.0 / 89.0	27.0 / 12.3
	H-085-L	1.4	3.2	128	83	150	84.0 / 213.4	9.0 / 22.9	35.0 / 89.0	27.0 / 12.3
	H-105	1.8	4.0	199	129	150	97.0 / 246.4	9.0 / 22.9	35.0 / 89.0	33.0 / 15.0
	H-105-HN	1.8	4.0	199	129	150	97.0 / 246.4	9.0 / 22.9	35.0 / 89.0	33.0 / 15.0
	H-105-L-HN	1.8	4.0	199	129	150	97.0 / 246.4	9.0 / 22.9	35.0 / 89.0	33.0 / 15.0

* Wind speed = 100 mph at sea level with one hundred percent humidity at seventy degrees Fahrenheit
 ** Wind speed = 50 mph at sea level with one hundred percent humidity at seventy degrees Fahrenheit
 *** Maximum wind speed at sea level with one hundred percent humidity at seventy degrees Fahrenheit. Safety factor of 1.65 included.