



## FM HIGH POWER BROADCAST ANTENNA "THE BRUTE"

The JAMPRO JHCP FM sidemount antenna has been nicknamed "The Brute" because of the ultra-high power handling of the antenna. Capable of handling up to 80 KW of input power, the JHCP antenna is a favorite of broadcasters with high power applications but needing to keep weight and windload to a minimum. The JHCP is constructed with heavy duty brass and copper.

**Highest power handling available in a side-mounted antenna**

**True circular polarization**

**VSWR 1.1:1 ± 200 KHz.**

**Optional deicers available**

**Ideal for multi-channel/frequency applications**

**Made with marine brass and copper for long life and durability**

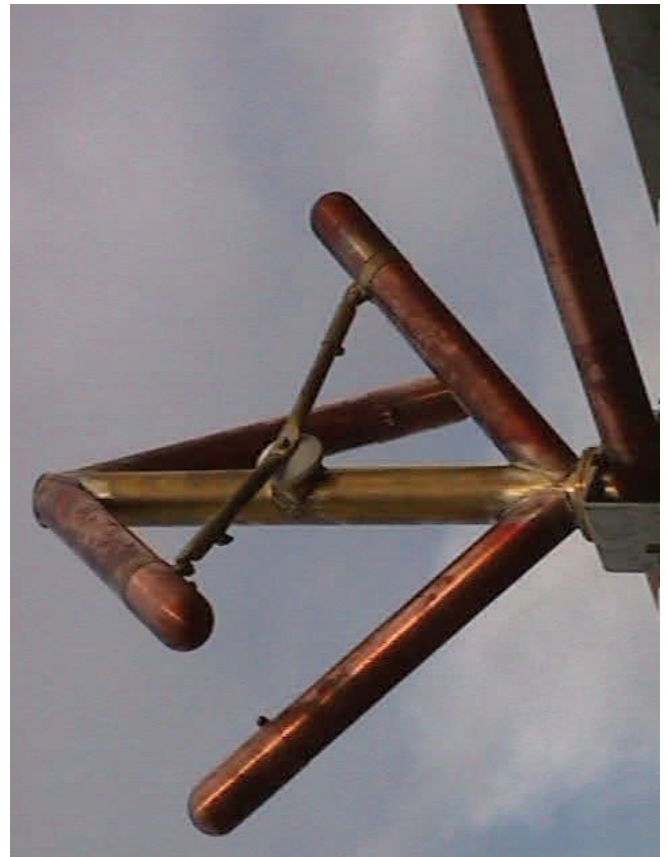
**Beam tilt and null fill available**

**Custom directional patterns available**

**DC Grounded at every bay for maximum lightning protection**

**HD Radio / IBOC Ready.**

**Reduced element spacing for minimizing RF levels**



Each radiating element consists of four 3" diameter quarter wave arms attached to a 3-1/4" brass boom. Pressurized 6-1/8" interbay lines feed the system. This antenna is designed with the same principles as JAMPRO's patented PENETRATOR series of FM antennas, which set the industry standard for FM sidemount antennas.



Number of Bays	Power Gain	dB Gain	SH-Power Rating (KW)	H-POWER Rating (KW) 3-1/8" Input	Net Weight (lbs)	Windload (lbs)
<b>1</b> Deicers	0.46	-3.37	20	15	212 222	269 270
<b>2</b> Deicers	1.00	0.00	40	30	425 445	540 560
<b>3</b> Deicers	1.50	1.76	60	40	634 664	806 836
<b>4</b> Deicers	2.10	3.22	80	40	1077 1117	1254 1294
<b>5</b> Deicers	2.70	4.31	80	40	1167 1217	1460 1510
<b>6</b> Deicers	3.20	5.05	80	40	1320 1380	1662 1722
<b>8</b> Deicers	4.30	6.34	80	40	1758 1838	2330 2410
<b>10</b> Deicers	5.50	7.40	80	40	2202 2202	2827 2827
<b>12</b> Deicers	6.60	8.20	80	40	2640 2760	3410 3530

**NOTES:**

- Weights and windloads shown include standard leg brackets and feed lines.
- Windloads based on 50/33 PSF (98 MHz midband).
- 1-bay through 6-bay configurations are end-fed, standard. Center feeding is available. 7-bay through 12-bay configurations are center-fed, standard.
- Feed points: 3 ft. below bottom bay when end-fed, 104 in. below center when center fed.
- All inputs EIA flange, female.
- Power derating occurs above 2,000 ft. elevation. Contact factory for details.

- Power and dB gains are typical for horizontal and vertical components.
- Custom mounting brackets available.
- Other combinations of EIA inputs and power rating available.
- Free space azimuth circularity is +/- 2 dB.
- Polarization is right hand, clockwise, circular.
- Power gain is based on half wave dipole in free space.

**OPTIONS:**

Options available include FCC Directionalization, Pattern Measurement Service, Beam tilt and Null fill, Special mounting brackets. Broadband multi-channel/frequency applications.

**Non-ionizing Radiation:**

Since many factors contribute to a station's compliance with the FCC exposure guidelines for radio frequency radiation, JAMPRO ANTENNAS, INC. cannot accept any responsibility in this matter. The station must examine and determine its status based on each individual situation.

\*All specifications are subject to change without notice.