

DIRECTIONALS • ROTATORS • VERTICALS • BEAMS • OSCAR LINK • DOUBLETS • ACCESSORIES • TOWERS

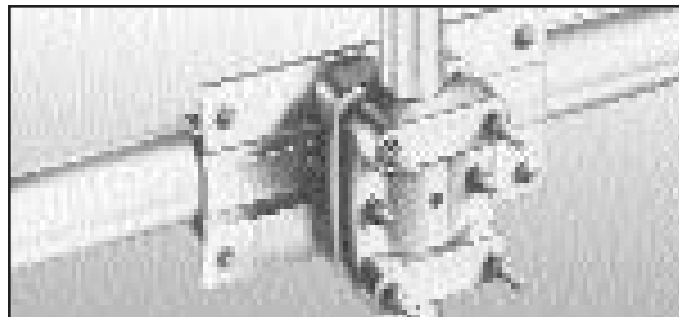
hy-gain®

Ham Radio Catalog

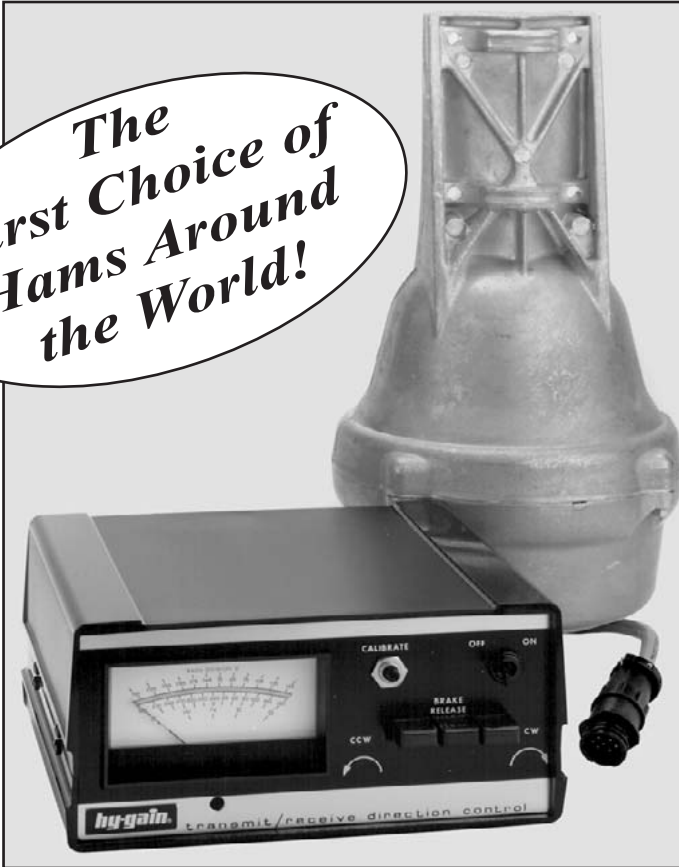
ANTENNAS, ROTATORS & TOWERS For Amateur Radio **WORLDWIDE!**

• LOG PERIODICS • DIRECTIONALS • ROTATORS • VERTICALS • BEAMS • OSCAR LINK • DOUBLETS • ACCESSORIES • TOWERS •

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*The
First Choice of
Hams Around
the World!*



DIRECTIONALS • ROTATORS • VERTICALS • BEAMS • OSCAR LINK • DOUBLETS • ACCESSORIES • TOWERS

hy-gain. ROTATORS

... the first choice of hams around the world!

HAM-IV

The most popular rotator in the world!

For medium communications arrays up to 15 square feet wind load area. *New* 5-second brake delay! *New* Test/Calibrate function. *New* low temperature grease permits normal operation down to -30 degrees F. *New* alloy ring gear gives extra strength up to 100,000 PSI for maximum reliability. *New* indicator potentiometer. *New* ferrite beads reduce RF susceptibility. *New* Cinch plug plus 8-pin plug at control box. Dual 98 ball bearing race for load bearing strength and electric locking steel wedge brake prevents wind induced antenna movement. North or South center of rotation scale on meter, low voltage control, max mast size of 2¹/₁₆ inches.

HAM-IV
\$559⁹⁵



HAM IV and HAM V Rotator Specifications	
Wind Load capacity (inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power	800 in.-lbs.
Brake Power	5000 in.-lbs.
Brake Construction	Electric Wedge
Bearing Assembly	dual race/96 ball bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8
Shipping Weight	26 lbs.
Effective Moment (in tower)	2800 ft.-lbs.

TAILTWISTER SERIES II

For large medium antenna arrays up to 20 sq. ft. wind load. Available with DCU-1 *Pathfinder* digital control (T2XD) or standard analog control box (T2X) with *new* 5-second brake delay and *new* Test/Calibrate function. Low temperature grease, alloy ring gear, indicator potentiometer, ferrite beads on potentiometer wires, *new* weather-proof AMP connectors plus 8-pin plug at control box, triple bearing race with 138 ball bearings for large load bearing strength, electric locking steel wedge brake, North or South center of rotation scale on meter, low voltage control, 2¹/₁₆ inch max. mast.



T-2X
\$649⁹⁵

T-2XD
\$1029⁹⁵
with DCU-1

TAILTWISTER Rotator Specifications	
Wind load capacity (inside tower)	20 square feet
Wind Load (w/ mast adapter)	10 square feet
Turning Power	1000 in.-lbs.
Brake Power	9000 in.-lbs.
Brake Construction	Electric Wedge
Bearing Assembly	Triple race/138 ball brngs
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8
Shipping Weight	31 lbs.
Effective Moment (in tower)	3400 ft.-lbs.

CD-45II

For antenna arrays up to 8.5 sq. feet mounted inside tower or 5 sq. ft. with mast adapter. Low temperature grease good to -30 F degrees. *New* Test/Calibrate function. Bell rotator design gives total weather protection, dual 58 ball bearing race gives proven support. Die-cast ring gear, stamped steel gear drive, heavy duty, trouble free gear train, North center scale, lighted directional indicator, 8-pin plug/socket on control unit, snap-action control switches, low voltage control, safe operation, takes maximum mast size to 2¹/₁₆ inches. MSLD light duty lower mast support included.

CD-45II
\$389⁹⁵



CD-45II Rotator Specifications	
Wind load capacity (inside tower)	8.5 square feet
Wind Load (w/ mast adapter)	5.0 square feet
Turning Power	600 in.-lbs.
Brake Power	800 in.-lbs.
Brake Construction	Disc Brake
Bearing Assembly	Dual race/48 ball brngs
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8
Shipping Weight	22 lbs.
Effective Moment (in tower)	1200 ft.-lbs.

HAM-V

For medium antenna arrays up to 15 square feet wind load area. Similar to the HAM IV, but includes DCU-1 *Pathfinder* digital control unit with gas plasma display. Provides automatic operation of brake and rotor, compatible with many logging/contest programs, 6 presets for beam headings, 1 degree accuracy, auto 8-second brake delay, 360 degree choice for center location, *more!*

HAM-V
\$949⁹⁵
with DCU-1



ROTATOR OPTIONS
MSHD, \$99.95. Heavy duty mast support for T2X, HAM-IV and HAM-V.
MSLD, \$39.95. Light duty mast support for CD-45II and AR-40.
TSP-1, \$34.95. Lower spacer plate for HAM-IV and HAM-V.

ROTATOR CABLE

879-1608, \$0.49 per foot. 8 conductors PVC cable, 6-18 AWG + 2 -16 AWG, 200V for Hy-Gain[®] rotators.

ROTATOR POTENTIOMETER

RPM-1, \$34.95. Rotator replacement pot for HAM II, III, IV, V, T2X. 500 Ohm. Same as p/n 5023100.



AR-35 Rotator/Controller

The AR-35 is designed for the use of small UHF, VHF, 6-Meter, TV and FM antennas. Includes automatic controller, rotator, mounting clamps and mounting hardware. Use 110 VAC.

AR-35
\$69⁹⁵



AR-40

For compact antenna arrays and large FM/TV up to 3.0 square feet wind load area. Dual 12 ball bearing race. Automatic position sensor never needs resetting. Fully automatic control -- just dial and touch for any desired location. Solid state, low voltage control, safe and silent operation. 2¹/₁₆ inch max mast size. MSLD light duty lower mast support included.

AR-40
\$289⁹⁵



AR-40 Rotator Specifications	
Wind load capacity (inside tower)	3.0 square feet
Wind Load (w/ mast adapter)	1.5 square feet
Turning Power	350 in.-lbs.
Brake Power	450 in.-lbs.
Brake Construction	Disc Brake
Bearing Assembly	Dual race/12 ball bearings
Mounting Hardware	Clamp plate/steel bolts
Control Cable Conductors	5
Shipping Weight	14 lbs.
Effective Moment (in tower)	300 ft.-lbs.

HDR-300A

For king-sized antenna arrays up to 25 sq.ft. wind load area. Control cable connector, *new* hardened stainless steel output shaft, *new* North or South centered calibration, *new* ferrite beads on potentiometer wires reduce RF susceptibility, *new* longer output shaft keyway adds reliability. Self-centering steel clamp/hardware. Display accurate to 1°. Machined steel output.

HDR-300A
\$1379⁹⁵



HDR-300A Rotator Specifications	
Wind load capacity (inside tower)	25 square feet
Wind Load (w/ mast adapter)	not applicable
Turning Power	5000 in.-lbs.
Brake Power	7500 in.-lbs.
Brake Construction	solenoid operated locking
Bearing Assembly	bronze sleeve w/rollers
Mounting Hardware	stainless steel bolts
Control Cable Conductors	7
Shipping Weight	61 lbs.
Effective Moment (in tower)	5000 ft.-lbs.

Digital Automatic Controller

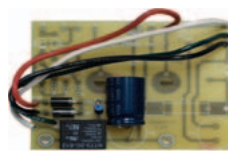


DCU-1
\$649⁹⁵

Controls T2X, HAM IV and HAM V. Auto operation

of brake/ rotor, computer control with RS232 pass-through, compatible with many logging/contest programs, 6 presets for favorite beam headings, 1 degree heading accuracy, Auto 8-sec. brake delay, 360 degree choice for center of rotation!

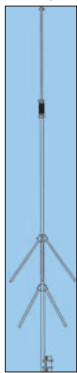
Rotator Auto Brake Delay



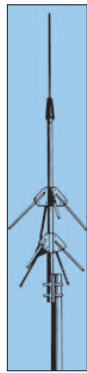
NEW!
RBD-5
\$29⁹⁵

allows a automatic 5 second brake delay for your Hy-Gain rotator. This delay insures that the rotator is fully stopped before the brake is engaged. No more accidentally engaging brake while the rotator is in movement. Use with HAM II, III, IV, V, T2Xs. Easy-to-install. Includes pre-assembled PCB and hardware.

Hy-Gain VHF Vertical Antennas



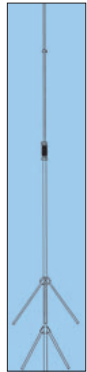
V-2R 2 Meter
\$109⁹⁵ vertical with 5.2 dBi gain derived from the famous extended double zepp antenna design. Radiating elements are two collinear $\frac{5}{8}$ waves fed in phase. 2 sets of $\frac{1}{4}$ wave radials properly decouple lower radiator from the mast. SO-239, handles 500 Watts. 9 ft.



V-4R UHF vertical with 5.2 dBi gain derived from double zepp antenna design. Type N, handles 500 Watts, 4 foot.
V-3R
\$119⁹⁵ Covers 216-225 MHz. **1 $\frac{1}{4}$ Meter** vertical w/5.2 dBi gain, double zepp design. SO-239, handles 500 Watts. 6ft., 9 in.



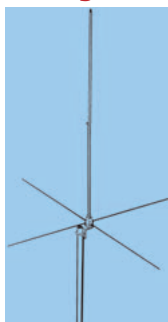
V-42R V-42R is independently tunable at 143-153, and 436-455 MHz. Fed through one coax cable, it has sets of $\frac{1}{4}$ wave radials which properly decouple $\frac{5}{8}$ wave radiators from the mast. Gives 5 dBd gain UHF and 3 dBd gain on VHF. Type N, handles 200 Watts. 9 ft.



V-6R V-6R antenna is based on 2 collinear $\frac{5}{8}$ wave radiators. 500 Watt enclosed coil and 2 sets of $\frac{1}{4}$ wave radials provide complete mast decoupling and optimum pattern and gain. Rugged design for severe weather, also DC ground lightning protector. 25 ft., 3 in., UHF female connect, handles 500 Watts.

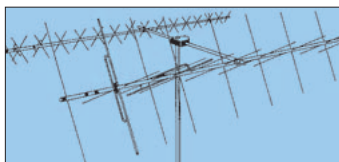
Model#	Frequenc	Gain dBi	Pwr Input	Wind	Max Mast	Height	Weight
V-2R	138-175	5.2 dBi	500 Watts	105 mph	2 in. OD	9 foot	6 pounds
V-42R	143-153, 436-455	7.2 UHF, 5.2 VHF	200 Watts continuous	100 mph	2 in. OD	9 foot	6 pounds
V-4R	400-475	5.2 dBi	500 Watts	230 mph	2 in. OD	4 foot	4 pounds
V-3R	216-225	5.2 dBi	500 Watts	100 mph	2 in. OD	6 ft. 9 in.	5 pounds
V-6R	51-54	5.2 dBi	500 Watts	80 mph	1.5-2.25	25 ft. 3 in.	15 pounds

Hy-Gain VHF Ground Planes



GPG-2B
\$49⁹⁵ GPG-2B is a $\frac{5}{8}$ Wavelength Ground Plane for two meters is omni-directional and tunable from 142-185 MHz. It delivers an omni-directional gain of 3.2 dBi. Handles 100 Watts. Measures 4 feet, max mast mount accepted is 1.625 in O.D. Wind area is .30 sq. ft.
GPG-1B
\$39⁹⁵ GPG-1B is a $\frac{1}{4}$ Wavelength ground plane similar to the GPG-2B. It has unity gain, covers 144-148 MHz.
GPG-1, \$39.95, is similar to GPG-

Oscar Link 435 MHz • 145.9 MHz



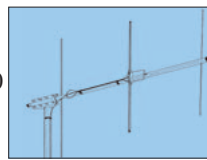
VB-216SAT **\$229⁹⁵** Covers 144-148 MHz
UB-7030SAT **\$229⁹⁵** Covers 432-438 MHz
FB-217SAT **\$119⁹⁵** Crossboom Assembly only

Hy-Gain's *Oscar Link* antennas are complete with the necessary phasing lines, relays and hardware. Left and right circularity switching reduces fading. True RF switching elements are rated at 200 Watts and improved VSWR for higher efficiency. Feed points are encapsulated, weather protected for long life. The fiberglass crossboom maintains the integrity of the circularity pattern. **DB-218SAT**, \$559.95. The complete 2 Meter/ 440 MHz *Oscar Link* antenna system with crossboom assembly with necessary phasing lines, relays and hardware.

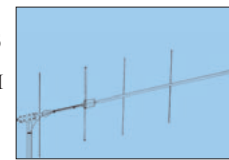
Model#	F/B ratio	Gain dBi	Pwr Input	# Element	Boom	Wind	Weight
VB-216SAT	25 dB	13.7 dBi	200 W PEP	16	168.75 in.	1.1 sq. ft.	7 lbs.
VB-7030SAT	25 dB	16.2 dBi	200 W PEP	30	134 inches	.7 sq. ft.	4 lbs.

VHF-FM Beam Antennas

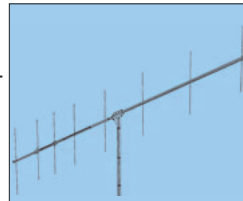
These 2 Meter FM beam antennas include Hy-Gain's exclusive *Beta Match™* to provide exceptional Front-to-Back ratio and maximum obtainable gains. The VB-23FM (8.3 dBi gain), VB-25FM (11.2 dBi gain), VB-28FM (14 dBi gain), and the VB-214FM (15.2 dBi gain) gives you a wide choice of 2 Meter Beam performance from which to choose. Accepts up to 2 inch mast.



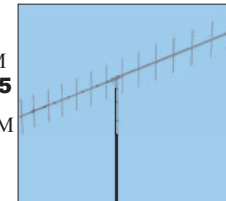
VB-23FM
\$49⁹⁵ 2 Meter FM Beam



VB-25FM
\$59⁹⁵ 2 Meter FM Beam



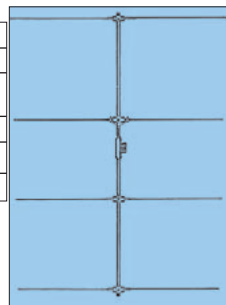
VB-28FM
\$79⁹⁵ 2 Meter FM Beam



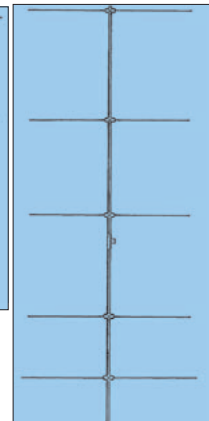
VB-214FM
\$89⁹⁵ 2 Meter FM Beam

Model#	F/B MAX	Gain dBi	Pwr Input	Long el	Boom	Mast dia.	Weight
VB-23FM	20 dB	8.3 dBi	500 Watts	40.25 in.	43.5 in.	2.0 in	2 pounds
VB-25FM	20 dB	11.2 dBi	500 Watts	39.625 in.	75 in.	2.0 in	3 pounds
VB-28FM	20 dB	14 dBi	500 Watts	40.25 in.	148.75 in.	2.0 in	4 pounds
VB-214FM	20 dB	15.2 dBi	500 Watts	39.5 in.	15 ft. 6 in.	2.0 in	6 pounds

6-Meter DX Beam Antennas



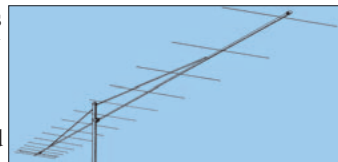
VB-64DX
\$144⁹⁵ Covers 50-54 MHz



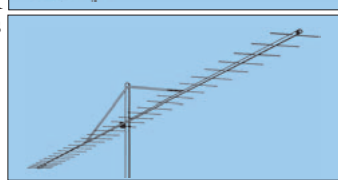
VB-66DX The VB-64DX and VB-66DX covers 50-54 MHz feature a concept in beam construction that provides actual delivered performance equalling maximum theoretical gain. The 4-element VB-64DX generates an impressive 10.4 dBi gain and the 6-element VB-66DX increases the gain to an unprecedented 12.5 dBi.

Model#	Frequenc	Gain dBi	Pwr Input	wind area	#Element	Boom	Weight
UB-7031DX	420-438	19.8 dBi	2 kW PEP	1.9 sq. ft.	31	24.06 ft.	9.25 lbs.
VB-215DX	144-146	16.4 dBi	2 kW PEP	2.75 sq. ft.	15	27.88 ft.	13.56 lbs.
VB-64DX	50-54	10.4 dBi	500 Watts	1.1 sq. ft.	4	12 ft.	10 lbs.
VB-66DX	50-54	12.5 dBi	1.5kWPEP	1.8 sq. ft.	6	24.575 ft.	17 lbs.

VHF/UHF DX Beam Antennas



UB-7031DX Hy-Gain's DX-Series VHF/UHF Beams are based on the DL6WU element length and spacing and were further refined on Hy-Gain's antenna test range and by computer modeling. Both beams feature encapsulated weatherproof feedpoints with type N connectors for excellent VSWR and power handling.



VB-215DX
\$229⁹⁵ Covers 144-146 MHz

High quality mechanical construction is assured by heavy wall booms and boom supports made of 6063-T832 aluminum tubing, stainless steel hardware, UV stabilized thick-shoulder element insulators and PTFE coaxial baluns.

Hy-Gain Long Johns HF Monobanders

LJ-105CA, \$289.95. 10 Meters, 5 elements, Exclusive 50 Ohm *BetaMatch*[™]. Excellent DC Ground. Stainless steel hardware and clamps. BN-4000 Balun recommended.

LJ-155CA, \$429.95. 15/12 Meters, Five Elements, Exclusive 50 Ohm *BetaMatch*[™]. Excellent DC Ground. Stainless steel hardware and clamps. Includes 12 Meter setting. BN-4000 Balun recommended.

LJ-205CA, \$769.95. 20/17 Meters, Five Elements. Exclusive 50 Ohm *BetaMatch*[™]. Excellent DC Ground. Stainless steel hardware and clamps. BN-4000 Balun recommended. Manual has setting for both bands.

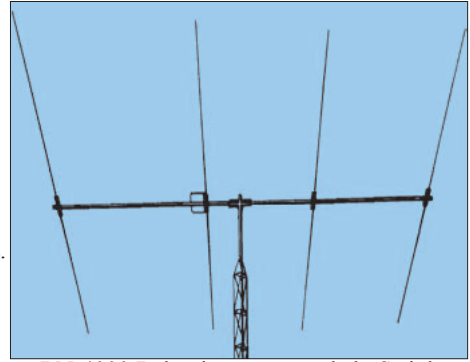
LJ-204BA, \$539.95. 20/17 Meters, Four Elements. Exclusive 50 Ohm *BetaMatch*[™]. The LJ-204BA has a tiltable cast aluminum boom-to-mast clamp, heavy gauge

machine-formed element-to-boom brackets and stainless steel hardware and clamps. BN-4000 Balun is recommended. Manual has setting for both bands.

LJ-103BA, \$159.95. 10 Meters, Three Elements. Feeds with 50 Ohm coax, comes factory pre-tuned with Hy-Gain's exclusive *BetaMatch*[™]. BN-86 balun recommended. Includes stainless steel hardware and clamps.

LJ-153BA, \$209.95. 15 Meters, 3 elements. Feeds with 50 Ohm coax, *BetaMatch*[™], 5.7 dBd gain. BN-4000 Balun recommended. Stainless steel hardware and clamps.

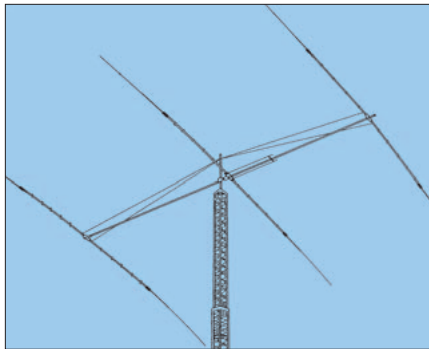
LJ-203BA, \$329.95. 20 Meters, Three elements on a 16 foot boom. The LJ-203BA feeds with 50 Ohm coax, factory pre-tuned with Hy-Gain's exclusive *BetaMatch*[™].



BN-4000 Balun is recommended. Stainless steel hardware and clamps. Tilttable, cast aluminum boom-to-mast bracket.

Model #	Gain (dBi)	F/B Max	Max Power	Boom Size	element size	turn Radius	Mast diam.	Surface	Wind
LJ-105CA	10.8 dBi	36 dB	1500 W PEP	24 feet	18 feet	15 feet	1.9-2.5 in.	3.9 sq. feet	100 m.p.h.
LJ-155CA	9.8 dBi	25 dB	1500 W PEP	26 feet	25 feet	17 feet, 6 in.	1.9-2.5 in.	5.2 sq. feet	88 m.p.h.
LJ-205CA	8.7 dBi	30 dB	1500 W PEP	34 feet	36 feet	25 feet	1.9-2.5 in.	9.0 sq. feet	99 m.p.h.
LJ-204BA	8.2 dBi	28 dB	1500 W PEP	26 feet	36 feet, 6 in.	22 feet, 6 in.	1.9-2.5 in.	7.3 sq. feet	100 m.p.h.
LJ-103BA	7.9 dBi	24 dB	1500 W PEP	8 feet	18 feet, 7 in.	10 feet, 2 in.	1.625-2.0 in.	2 sq. feet	107 m.p.h.
LJ-153BA	7.9 dBi	25 dB	1500 W PEP	12 feet	24 feet, 11"	14 feet, 3 in.	1.9-2.5 in.	3 sq. feet	80 m.p.h.
LJ-203BA	7.3 dBi	23 dB	1500 W PEP	16 feet, 6 in.	37 feet	20 feet	1.9-2.5 in.	5.4 sq. feet	80 m.p.h.

Hy-Gain Discoverer Series Antennas



DISCOVERER 71, \$289.95.
Covers 30/40 Meters.

This rotatable dipole of low weight and wind surface area so easily fits most existing beam installations. Tuned to either 30 or 40 Meters with a front-to-side ratio of 30 dB for a fast, expansion of band capability. Feeds with 50 Ohm coax. Pre-formed mast clamp.

DISCOVERER 72, \$649.95.
Covers 30/40 Meters.

This two-element 40 Meter beam has a unique hairpin loading system. It delivers superior performance. Feeds with 50 Ohm coax and comes factory pre-tuned with Hy-

Gain's exclusive *BetaMatch*[™]. Tilttable boom-to-mast bracket and stainless steel hardware is included. Hy-Gain high power BN-4000 balun is recommended.

DIR-73K, \$409.95.

Add-On 30/40 Meter Director Kit

Converts the Discoverer 72 into a three-element beam. Amazingly, it's all on a 35 foot boom, outperforming the other brands that are much larger. Discoverer 72 with director Kit fits on medium duty towers such as HG-52SS, saving both cost and space. HyGain offers wide bandwidth and Hy-Q efficiency without coils. Handle legal power limits.

Model #	Gain (dBi)	F/B Max	Max Power	Boom size	element size	turn Radius	Mast diam.	Surface	Wind
DIS-71	6.5 dBi	35 dB	1500 W PEP	2.7 feet	45 feet	22.5 feet	1.9-2.5 in.	2.7 sq. feet	100 m.p.h.
DIS-72	6.5 dBi	15 dB	1500 W PEP	22.6 feet	44.8 feet	25 feet	1.9-2.5 in.	6.0 sq. feet	80 m.p.h.
DIR-73K	7.5 dBi	26 dB	1500 W PEP	35 feet	45.7 feet	28.9 feet	1.9-2.5 in.	9.0 sq. feet	80 m.p.h.

Hy-Gain HF Log Periodic Antennas

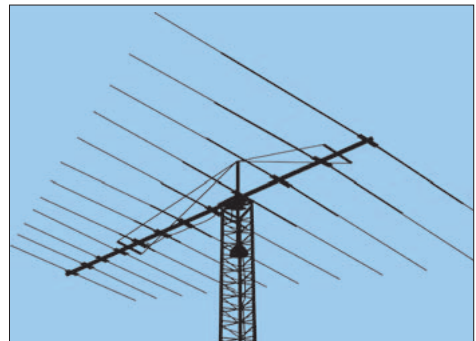
LP-1009A, \$1429.95. LP-1009A for UHF connector. LP-1009AN for "N" connector. Covers 10/12/15/17/20 Meters

Covers the complete 13-30 MHz HF spectrum under a 2:1 VSWR. Built to commercial specifications, it is used by MARS, monitoring stations, marine and government radio stations around the world and now it's available to Hy-Gain amateur customers. The discerning ham operator will appreciate its performance and ease of use. Just imagine all that spectrum coverage and only one feedline. Exclusive 2KW BN-4000 current type

balun included. Use T2X Tailtwister or HDR-300A rotators.

LP-1010A, \$1799.95. LP-1010A for UHF connector. LP-1010AN for "N" connector. Covers 10-30 MHz (10, 12, 15, 17, 20, and 30 Meters)

There are only a few antennas that offer as much HF frequency coverage as the LP-1010A. Like the LP-1009A, this antenna is built to commercial standards using stainless steel hardware and having a wind survivability of 93 mph. Rotatable with use of T2X or HDR-300A rotators.



Model #	Gain (dBi)	F/B Max	Max Power	Boom size	element	turn Radius	Mast diam.	Surface	Wind
LP-1009A/N	7.3 dBi	22 dB	1500 W PEP	27 feet	39 feet	22.5 feet	1.9-2.5 in.	12.5 sq. feet	103 m.p.h.
LP-1010A/N	7.0 dBi	22 dB	1500 W PEP	36 feet	48 feet	28.5	1.9-2.5 in.	16 sq. feet	93 m.p.h.

hy-gain HF BEAMS...

... are stronger, lighter, have less wind surface and last years longer.



TH-11DX
\$1159⁹⁵
11-Elements, 4.0 kW PEP,
10, 12, 15, 17, 20 Meters

TH-11DX, \$1159.95. 11-element, 4.0 kW PEP, 10,12,15,17,20M

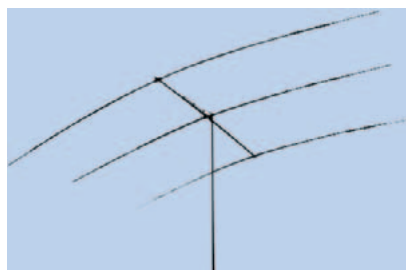
The choice of top DXers. With 11-elements, excellent gain and 5-bands, the super rugged TH-11DX is the "Big Daddy" of all HF beams! Handles 2000 Watts continuous, 4000 Watts PEP.

Every part is selected for durability and ruggedness for years of trouble-free service. Features a low loss log-periodic driven array on all bands with monoband reflectors, BN-4000 high power balun, corrosion resistant wire boom support, hot dipped gal-vanized and stainless steel parts.

Stainless steel hardware and clamps are used on all electrical connections.

Compact 3-element 10, 15, 20 Meter Tri-Bander

For limited space... Installs anywhere... 14.75 ft turning radius... weighs 21 lbs... Rotate with CD-45II, HAM-IV



Fits on light tower, suitable guyed TV pole, or roof tri-pod.

TH-3JRS, \$359.95.

Hy-Gain's most popular 3-element 10, 15, 20 Meter tri-bander fits on most lots!

Same top performance as the full power TH3MK4 in a compact 600 watt PEP design.

Excellent gain and F/B ratio let you compete with the "big guns".

Tooled manufacturing gives you Hy-Gain durability with 80 MPH wind survival.

TH-7DX, \$869.95.

7-element, 1.5 kW PEP, 10,15,20 Meters

7-Elements gives you the highest average gain of any Hy-Gain tri-bander! Dual driven for broadband operation without compromising gain. SWR less than 2:1 on all bands. Combined monoband and trapped parasitic elements give you an excellent F/B ratio. Hy-Gain's diecast aluminum, rugged boom-to-mast clamp, heavy gauge element-to-boom brackets, BN-86 balun. For high power, use BN-4000.

TH-5MK2, \$759.95.

5-element, 1.5 kW PEP, 10,15,20 Meters

The broadband five element TH5-MK2 gives you outstanding gain. Separate air dielectric Hy-Q traps let you adjust for maximum F/B ratio on each band. Has Hy-Gain's exclusive BetaMATCH™, stainless steel hardware and compression clamps and BN-86 balun.

TH-3MK4, \$469.95.

3-element, 1.5 kW PEP, 10,15,20 Meters

The super popular TH-3MK4 gives you the most gain for your money in a full-power, full-size durable Hy-Gain tri-bander! Impressive average gain and whopping average front-to-back ratio. Handles 1.5 kW PEP. 95 MPH wind survival. Fits on average lot -- turning radius is just 15.3 feet. 4-piece boom is ideal for DXpeditions. Choose CD-45II or HAM-IV rotator. Hy-Gain BetaMatch™ for DC ground, full power Hy-Q™ traps, rugged boom-to-mast bracket and mounts on standard 2" O.D. mast. Stainless steel hardware. BN-86 balun recommended.

TH-2MK3, \$369.95.

2-element, 1.5 kW PEP, 10,15,20 Meters

The 2-element TH-2MK3 is Hy-Gain's most economical full power (1.5kW PEP) full size tri-bander. Increase your effective radiated power and hear far better! Ruggedly constructed, top-performing, compact 6 foot boom, tight 14.3 foot turning radius. Installs almost anywhere. Rotate with CD-45II or HAM-IV. Use BN-86 balun.

EXP-14, \$599.95.

4-element, 1.5 kW PEP, 10,15,20 Meters

Revolutionary 4-element compact tri-bander can add 40 or 30 Meters! 14 foot boom and tight 17.25 feet turning radius. Fits on roof tri-pod, mast or medium duty tower. Hy-Gain's patented broadbanding ParaSleeve gives you less than 2:1 VSWR. 1.5kW PEP. BetaMATCH™ provides DC ground to eliminate static. Has BN-86 balun. QK-710, \$169.95. 30/40 Meter option kit for EXP-14.

DB-1015, \$449.95.

7-element, 1.5 kW PEP, 10 & 15 Meters

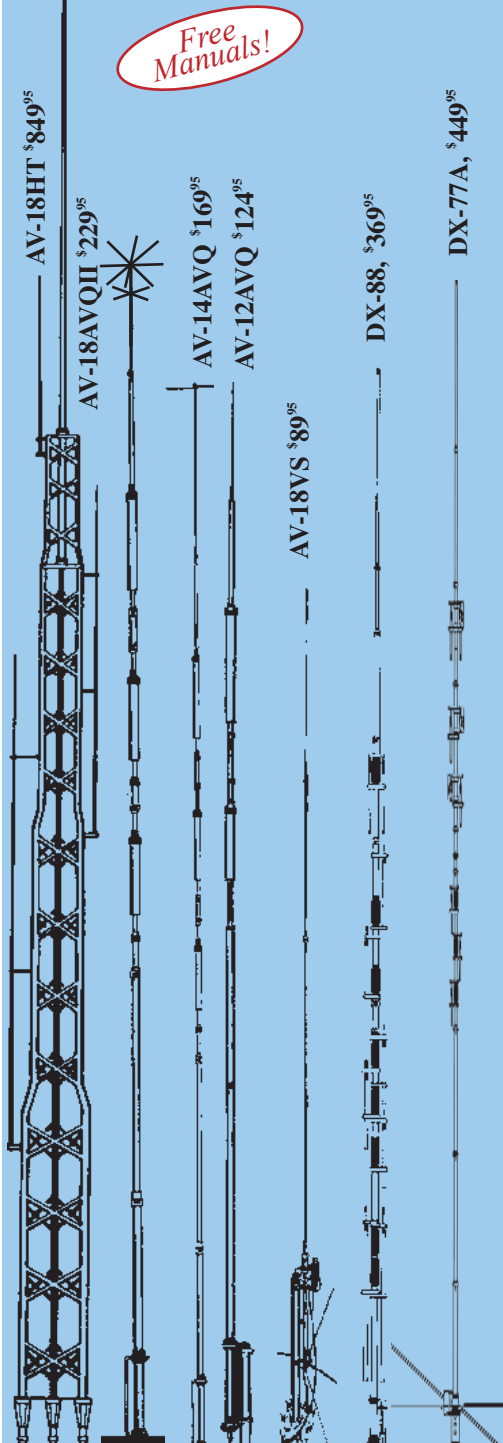
This dual band beam for 10 and 15 Meters incorporates Hy-Gain's superior mechanical design and has been computer optimized and range-tested for max performance. DB-1015 features a 14 foot boom in 4 sections. Handles full legal power and has Hy-Gain's rugged boom-to-mast clamp. DB-1217, \$449.95. Similar to DB-1015, but is dual band coverage for 12 and 17 Meters.

Model No.	No. of elements	avg gain dBi	avg F/B gain	MaxPwr watts PEP	Bands Covered	Wind sq.ft. area	Wind (mph) Survival	Boom (feet)	Longest Elem. (ft)	Turning radius(ft)	Weight (lbs.)	Mast dia O.D.(in.)	Recom. Rotator	Retail Price
TH-11DX	11	8.4	22	4000	10,12,15,17,20	12.5	100	24	37	22	88	1.9-2.5	T2X	\$1159.95
TH-7DX	7	8.77	21	1500	10, 15, 20	9.4	100	24	31	20	75	1.5-2.5	HAM-IV	\$869.95
TH-5MK2	5	8.3	20	1500	10, 15, 20	7.4	100	19	31.5	18.42	57	1.5-2.5	HAM-IV	\$759.95
TH-3MK4	3	8.0	25	1500	10, 15, 20	4.6	95	14	27.42	15.33	35	1.9-2.5	CD-45II	\$469.95
TH-3JRS	3	8.0	25	600	10, 15, 20	3.35	80	12	27.25	14.75	21	1.25-2.0	CD-45II	\$359.95
TH-2MK3	2	5.6	15-20	1500	10, 15, 20	3.25	80	6	27.3	14.25	20	1.9-2.5	CD-45II	\$369.95
EXP-14	4	8.1	25	1500	10,15,20 (30/40)	7.5	100	14	31.5	17.25	45	1.9-2.5	HAM IV	\$599.95
DB-1015	7	9.8	22	1500	10, 15	6.7	115	14	29.5	16.3	40	1.5-2.5	HAM IV	\$449.95
DB-1217	7	9.8	22	1500	12, 17	6.7	115	14	29.5	16.3	40	1.5-2.5	HAM IV	\$449.95

hy-gain HF VERTICALS

Self-supporting -- no guys required . . . remarkable DX performance -- low angle radiation, omnidirectional . . . 1500 Watts . . . Low SWR . . . 2 year limited warranty

Free Manuals!



All hy-gain multi-band vertical antennas are entirely self supporting -- no guys required. They offer remarkable DX performance with their extremely low angle of radiation and omnidirectional pattern.

All hy-gain vertical antennas handle 1500 Watts PEP SSB, have low SWR, automatic band-switching (except AV-18VS) and include a 12-inch heavy duty mast support bracket (except AV-18HT). Heavy duty, slotted, tapered swaged, aircraft quality aluminum tubing with full circumference compression clamps is used for radiators. Includes all stainless steel hardware. Recessed SO-239 prevents moisture damage.

Hy-gain verticals go up easily with just hand tools and their cost is surprisingly low. All hy-gain Verticals feature a two year limited warranty.

AV-18HT, \$849.95.

10/12/15/20/40/80 M

17 & 160 Meters optional

Standing 53 feet tall, the famous Hy-Gain HyTower is the world's best performing vertical! The AV-18HT features automatic band selection achieved through a unique stub-decoupling system which effectively isolates various sections of the antenna so that an electrical 1/4 wavelength (or odd multiple of a 1/4 wavelength) exists on all bands. Approximately 250 kHz bandwidth at 2:1 VSWR on 80 Meters. With the addition of a base loading coil LC-160Q or MK-160A, it also provides exceptional 160 Meter performance. The 24 foot tower is all rugged, hot-dip galvanized steel and all hardware is iridited for corrosion resistance. Special tilt-over hinged base for easy raising and lowering. 53 feet, 114 lbs. MK-17, \$89.95. 17M add-on Kit. LC-160Q, \$109.95. 160 M loading coil. MK-160A, \$119.95. 160M 1500W kit.

DX-88, \$369.95.

10/12/15/17/20/30/40/80M

160 Meters optional.

All bands are easily tuned with the DX-88's exclusive adjustable capacitors. 80 and 40 Meters can even be tuned from the ground without having to lower the antenna. Super heavy-duty construction. 25 feet, 18 pounds. DX-88 OPTIONS: KIT-160-88, \$189.95. 160 M add-on kit. GRK-88, \$99.95. Ground Radial System. RRK-88, \$99.95. Roof Radial System.

DX-77A, \$449.95.

10/12/15/17/20/30/40 M

No ground radials required! Off-center-fed Windom has 55% greater bandwidth than competitive verticals. Heavy-duty tiltable base. Each band independently tunable. 29 feet, 25 pounds.

AV-18AVQII, \$229.95.

10/15/20/40/80

New! The classic is back with improved design including three separate air dielectric Hy-Q™ traps for 10 through 80 Meters --1.5 kW PEP. A loading coil and an effective radiator is used for 80 Meters --1kW PEP.

AV-18VS, \$89.95.

10/12/15/17/20/30/40/80 M

High quality construction and low cost make the AV-18VS an exceptional value. Easily tuned to any band by adjusting feed point at the base loading coil. Roof mount with Hy-Gain AV-14RMQ kit, \$89.95. 18 feet, 4 pounds.

AV-14AVQ, \$169.95.

10/15/20/40 M

The Hy-Gain AV-14AVQ uses the same trap design as the famous Hy-Gain Thunderbird beams. Three separate air dielectric Hy-Q traps with oversize coils give superb stability and 1/4 wave resonance on all bands. 18 feet, 9 pounds.

New! MK-80, \$79.95. 80 Meter add-on kit for AV-14AVQ. Easy to install. Includes pre-wound loading coil, hardware.

AV-12AVQ, \$124.95.

10, 15, 20 M

The AV-12AVQ also uses Thunderbird beam design air dielectric traps for extremely Hy-Q performance. This is the way to go for inexpensive tri-band performance in limited space. 13 ft., 9 lbs. Roof mount with AV-14RMQ kit, \$89.95.

AV-14RMQ, \$89.95

Roof Mounting Kit

The AV-14RMQ roof mounting kit provides rugged support for Hy-gain models AV-18VS, AV-14AVQ and AV-12AVQ. Kit includes base plate, mast, radial/guy wires and mounting hardware.

Hy-Gain Roof Mount

This roof mount will support a modest antenna with rotor and thrust bearing, not included. 4.5 feet tall, weighs 18 lbs. (max load 100 lbs).

RT-424
\$99.95
UPS
Shippable



Model #	Price	Bands	Max Power	Height	Weight	Wind Surv.	Rec. Mast
AV-18HT	\$849.95	10,15,20,40,80	1500 W PEP	53 feet	114 pounds	75 MPH	-----
AV-14AVQ	\$169.95	10,15,20,40	1500 W PEP	18 feet	9 pounds	80 MPH	1.5-1.625"
AV-12AVQ	\$124.95	10/15/20 M	1500 W PEP	13 feet	9 pounds	80 MPH	1.5-1.625"
AV-18VS	\$89.95	10 - 80 M	1500 W PEP	18 feet	4 pounds	80 MPH	1.5-1.625"
DX-88	\$369.95	10 - 80 M	1500 W PEP	25 feet	18 pounds	75 mph no guy	1.5-1.625"
DX-77A	\$449.95	10 - 40 M	1500 W PEP	29 feet	25 pounds	60 mph no guy	1.5-1.625"
AV-18AVQII	\$229.95	10/15/20/40/80	1500 W PEP	18 feet	12 pounds	70 mph guy	1.5-1.625"

Hy-Gain[®] Multi-Band PATRIOT Vertical Antennas

8-band vertical covers 40/30/20/17/15/12/10/6 Meters

• No radials • No traps • No ground • No tuning • Handles 1500 Watts

hy-gain's new PATRIOT HF verticals are the best built, best performing and best priced multi-band verticals available today.

Make full use of your sunspot cycle with the PATRIOT's low angle signal.

AV-640, \$389.95, uses quarter wave stubs on 6, 10, 12 and 17 meters and efficient end loading coil and capacity hats on 15, 20, 30 and 40 meters.

Instead of typical traps, the AV-640 resonators are placed in parallel not in series.

End loading of the lower HF bands allows efficient operation with a manageable antenna height.

No ground or radials needed -- Effective counterpoise replaces radials, end fed with broadband matching unit.

Automatic bandswitching -- Single coax cable feed, each band is individually tunable, wide VSWR bandwidth.

Sleek and low-profile -- Low wind surface area, small area required for mounting, mounts easily on decks, roofs and patios.

Built-to-last -- High wind survival, matching unit made from all Teflon[®] insulated wire. Hy-gain[®] warranty -- 2- year limited warranty, replacement parts in stock.

AV-620, \$289.95. Covers all bands 6 through 20 Meters with no traps, no coils, no radials yielding an uncompromised signal across all bands.

hy-gain[®] AV-640
8 Bands: 40, 30, 20, 17, 15, 12, 10, 6 M

\$389⁹⁵
Suggested Retail

Call your dealer for your best price!

Model #	Bands	Max Pwr	Height	Weight	wind surv
AV-620	6B, 6-20	1500W	22.5 feet	10.5 lbs.	80 MPH
AV-640	8B, 6-40	1500W	25.5 feet	17.5 lbs.	80 MPH

Lightning Surge Arrestor

LA-2, \$39.95. Safeguard your expensive equipment from static electricity and lightning induced surges on 50 Ohm coaxial line. Ultra-fast gas discharge tube safely shunts up to 5000 amps of peak impulse current harmlessly to an independent ground. SWR less than 1.1:1. Less than 0.1 dB loss. Use up to 1000 MHz. Handles 1.5 kW PEP. Does not protect against a direct lightning hit. GDT-2, \$19.95. Replacement Gas Discharge tube.



Antenna Wire & Installation Rope

A. Select Hy-Gain Nylon or Polyester dacron rope for your wire antenna installations. Black, UV resistant.
RPA-100, \$7.95. 100 feet, 3/32" nylon.
RPA-250, \$14.95. 250 feet, 3/32" nylon.
RPC-100, \$9.95. 100 ft, 3/16" polyester.
RPC-250, \$19.95. 250 ft., 3/16" polyester.

B. Dacron Wire Rope, 3/32". Fine copper wire is webbed into Dacron rope. Makes it extremely flexible but super strong/light. Ideal for wire/dipoles.
DWR-120, 120 Ft., \$29.95.



AV-620/640 Matching Network

hy-gain[®] AV-620
6 bands: 20, 17, 15, 12, 10, 6 M

\$289⁹⁵
Suggested Retail

FAMOUS Heavy Duty HY-GAIN BALUNS



BN-86, \$79.95. Broadband 50 Ohm ferrite balun. Useable from 3 to 30 MHz. Rated at 1500 Watts PEP. Recommended for all HF Yagi antennas. It provides improved front-to-back ratio. Comes with clamp to bolt to boom, SO-239 connector.

BN-4000B, \$109.95. Broadband 50 Ohm Beam current balun is potted to seal out moisture. Rated at 4000 Watts for increased power handling capabilities. Range is 1 MHz to 54 MHz. SO-239 connector. BN-4000D, \$109.95. dipoles. BN-4000N, \$119.95. "N" connector.



Hy-Gain Tower Bases

Specially designed for Hy-gain crank-up towers. Complete with base hinge and foundation welded steel-cage. Specify tower model. *Must be shipped by truck, call for quote.

Model#	Tower	Price	Weight
TB-37	HG-37SS	\$299.95	50 lbs.*
TB-52	HG-52SS	\$299.95	80 lbs.*
TB-54	HG-54HD	\$299.95	90 lbs.*
TB-70	HG-70HD	\$349.95	102 lbs.*

4 Foot Ground Rod

Durable 4' GR-1 \$4⁹⁵ Ship Code B
copper bonded steel earth ground rod is a tough 3/8 inch diameter. Sharp pointed end is easy to drive into ground. Use it to tie your equipment to a single earth ground to help bleed off static and RFI and prevent RF hot spots. Use several to form a good RF ground for random, long wire and vertical antennas.

Hygain Insulators for multiband dipole antennas

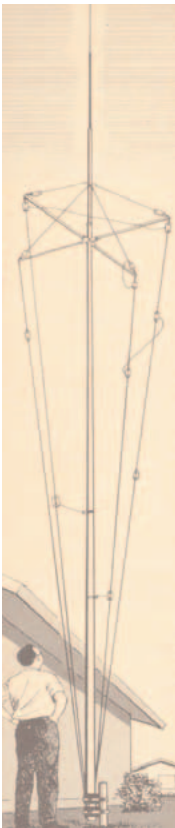
C-1, \$29.95. Center Insulator for multiband dipole antenna.

C-1C, \$29.95. Similar to C-1, but has SO-239 antenna connector.

E-1, \$6.95. End Insulator for Multi-band doublet antenna. Set of 2.

Hy-gain Glazed Ceramic Insulator

E-2 69¢ each
E-26 \$3⁹⁵ 6-Pack
Extra-strong -- will not break, arc over or melt even under full legal power. Molded ridges give extra-long path to prevent high-voltage breakdown. Use as center or end insulator for dipoles, doublets, G5RVs, guy wires, vees.



Hy-Gain HyTower-Jr™

Stands 39 feet tall . . . Full 1/4 Wave on 40, 20, 15, 10 Meters . . . Cage loading on 80 Meters . . . World's Second Best Vertical Antenna . . .

New!

Standing a tall 39 feet with full-size elements and rated at 5 KW, the AV-18JR Hy-gain HyTower-Jr.™ is the world's second best* performing vertical!

AV-18HTJr.
\$349⁹⁵
Ship Code E

Stub-decoupling is used to give full-size quarter wave radiators on 40, 20, 15, 10 Meters with super efficient cage loading on 80 Meters.

The HyTower-Jr.™ has almost no losses -- your ground system determines your efficiency.

It is automatic bandswitching, fed with 50 Ohm coax and has low SWR over an exceptionally wide bandwidth with SWR less than 1.2 at resonance.

The main radiator is aircraft high-strength, heavy walled, 2-inch aluminum tubing swaged at the top. Self-supporting in winds up to 40 MPH. Mounts on 1/4 inch plumber's pipe. Heavy duty components will give you years of trouble-free operating pleasure.

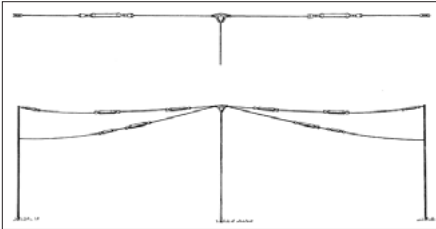
Requires good ground system for optimum performance. UPS Shippable.

*The famous 53 foot Hy-gain HyTower™ is legendary. It's the premier, best performing vertical in the world -- bar none!

At less than half the price with nearly the same performance and based on the same principles, the HyTowerJr.™ is the poor man's version of its father HyTower.

Of course, Junior™ doesn't have its father's rugged hot-dipped galvanized steel tower and construction!

HF Multiband Hy-Q trap DOUBLET



DP-2BDQ
\$139⁹⁵
40/80 Meters

DP-5BDQ
\$259⁹⁵
10-80 Meters

Multiband Hy-Q trap doublets DP-2BDQ for 80 and 40 Meters. Maximum length of dipole, 101 ft. **DP-5BDQ** for 80 through 10 Meters. Maximum length of dipole, 94 feet. The Hy-Gain DP-2BDQ are Hy-Q trap doublets designed for horizontal or inverted "V" rated at legal power. Both feature individually pretuned matched traps for each band. 50 Ohm feed. Coaxial cable not included. Both handle 2 kW PEP.

Hy-gain Aluminum Tubing

6063 T832 round, drawn aluminum tubing sold in 2 styles: 6' standard or 6' slitted (on one end, .093" gaps, 1-2" slit lengths).

Sizes .625-1.625" fit together to make telescoping mast. Use host clamps to secure.

Six foot lengths ship by UPS, longer units must ship UPS oversize or truck.

OD x Wall-Th x ID	6'standard; price/ea	6'slitted; price/ea.	Add'l/ft
.625"x.035"x.555"	AT-0625C-6U, \$5.70	AT-0625C-6S, \$6.90	\$1.00
.750"x.058"x.634"	AT-0750E-6U, \$6.30	AT-0750E-6S, \$7.50	\$1.10
.875"x.058"x.759"	AT-0875E-6U, \$6.90	AT-0875E-6S, \$8.10	\$1.20
1.000"x.058"x.884"	AT-1000E-6U, \$7.50	AT-1000E-6S, \$8.70	\$1.30
1.125"x.058"x1.009"	AT-1125E-6U, \$8.40	AT-1125E-6S, \$9.60	\$1.45
1.250"x.058"x1.134"	AT-1250E-6U, \$9.60	AT-1250E-6S, \$10.80	\$1.65
1.375"x.058"x1.259"	AT-1375E-6U, \$10.80	AT-1375E-6S, \$12.09	\$1.85
1.500"x.058"x1.384"	AT-1500E-6U, \$12.00	AT-1500E-6S, \$13.20	\$2.05
1.625"x.058"x1.509"	*AT-1625E-4U, \$9.10	*AT-1625E-4S, \$10.30	\$2.35
1.750"x.083"x1.584"	AT-1750G-6U, \$15.30	AT-1750G-6S, \$17.10	\$2.60
2.000"x.120"x1.760"	AT-2000I-6U, \$18.30	AT-2000I-6S, \$20.40	\$3.10

* Only four foot sections available in this model.



AT-2000I-6W, \$24.60 each. Unique tubing has one end slitted and one end swaged to make it stackable. Join one end to other to make a longer pole. Secure with standard host clamp. Strong, 2"OD x .120" wall. Good for base sections of vertical antennas. Standard 6-ft. length, longer sections, to 20 ft. available. Add \$3.00 each add'l foot.

ADJUSTABLE HF DIPOLE ANTENNA



The DP-19PD is a lightweight, adjustable dipole antenna that operates anywhere in the 2-30 MHz frequency range, including all HF amateur bands 80-10 Meters.

DP-19PD
\$279⁹⁵
160-10 Meters

Perfect for field day, emergency communications or anytime you need to put up a dipole in a hurry. The DP-19PD uses braided nylon wire rope; the conductors are woven into the rope. Uncoil the conductor using the pre-marked frequencies for easy installation. One hundred feet of support rope is provided on another bobbin on each end of the antenna as well as an SO-239 UHF connector on the center insulator. Shipping weight is 4.5 lbs. Handles 1 kW PEP.

For your nearest hy-gain dealer or to order: call 800-973-6572

OFFICE ADDRESS: hy-gain, 300 Industrial Park Road, Starkville, MS 39759 USA

• **VOICE:** 662-323-9595 • **FAX:** 662-323-6551 • **WEB SITE:** <http://www.hy-gain.com>

For technical information and part orders:

FACTORY ADDRESS: 308 Industrial Park Road, Starkville, MS 39759 USA

Voice: 662-323-9538 • **FAX:** 662-323-5803

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hy-gain.

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