High Performance Vertical Antennas

**Standard Multi-Band**

### High Performance Vertical Antennas (Tuner Required)

<table>
<thead>
<tr>
<th>Antenna Type</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXE-30VE-1</td>
<td>Perfect for four-square or phased arrays</td>
<td>$494.00</td>
</tr>
<tr>
<td>DXE-40VE-1</td>
<td>Easily configured to operate on the 30 meter band</td>
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<tr>
<td>DXE-40VA-1</td>
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</tr>
<tr>
<td>DXE-60VE-1P</td>
<td>Includes impedance matching network</td>
<td>$679.00</td>
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</tbody>
</table>

### 2" to 1/2" Fast Taper, 80 to 10 Meters

- 33 ft. vertical radiator
- Thick stainless steel tilt base
- Easy tuning design—correct length and taper
- No coils or linear loading elements
- Operates over the entire 40 meter band with an SWR of less than 1.5:1
- 43 ft. optimal length vertical radiator
- Thick stainless steel tilt base
- Easy tuning design—correct length and taper
- No coils or linear loading elements
- Requires DXE-UN-43 UNUN Balun for multi-band use with your wide range tuner

### 43 Foot Multi-Band Vertical/Remote Tuner Package

Includes DXE-MBV-1 (above) plus:
- MFJ-927 Remote IntelliTuner™—200 watts
- DXE-SSVC-2P Stainless Steel Mounting V-Clamp
- Custom laser cut stainless steel bracket for tuner and FCC
- Bias tee power injector for 12 Vdc
- RG-8X 2 ft. coaxial cable with PL-259 connectors
- 2 tinned copper braids, 1" wide for connection to your optional radial plate
- Feedline wire—14 gauge insulated stranded copper with ring terminal attached

### Standard Monoband

### High Performance Vertical Antennas

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### Rugged High Performance 40 Meter

- High strength, self-supporting vertical element
- Operates over the entire 40 meter band with an SWR of less than 1.5:1
- Less than 24 feet high
- No coils or linear loading elements
- Easily configured to operate on the 40 meter band

### 2" to 1/2" Fast Taper, High Performance 40 Meter

- 33-35 ft. tall vertical element
- Operates over the entire 40 meter band with an SWR of less than 1.5:1
- Full length—no coils or linear loading elements
- Easily configured to operate on the 30 meter band
- Perfect for four-square or phased arrays

### 2" to 1" Fast Taper, High Performance 30 Meter

- 24 ft. tall vertical element
- Operates over the entire 30 meter band with an SWR of less than 1.5:1
- Full length—no coils or linear loading elements
- Perfect for four-square or phased arrays
Cushcraft Vertical Antennas

CUS-R8000 20-6 Meter 6-Band, 19.5 Ft. Vertical Antenna
This multi-band design provides 8-band coverage encompassing the 6, 10, 12, 15, 17, 20, 30, and 40 meter bands. The antenna provides 300 degree (omni) coverage on the horizon and a low radiation angle in the vertical plane for a better DX. No traps are used on 6, 10, and 15 meters for maximum efficiency and power handling.
CUS-R8000 ........................................................... $429.00
CUS-R8 40-6 Meter 8 Band, 28.5 Ft. Vertical Antenna
This multi-band design provides 8-band coverage encompassing the 6, 10, 12, 15, 17, 20, 30, and 40 meter bands. The antenna provides 300 degree (omni) coverage on the horizon and a low radiation angle in the vertical plane for a better DX.
CUS-R8 ................................................................. $529.00
CUS-R8BK 3-Point, Non-Conductive Guy System for R8 ..................................... $56.00

Hy-Gain Vertical Antennas

AV-480 Patriot HF 8-Band, No-Radials Vertical
Hy-Gain's new AV-480 Patriot HF is the best built, best performing, and best priced multi-band vertical available today. Make full use of your sunspot cycle with the Patriot's low angle signal. The AV-480 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. An effective counterpoise system replaces radials and grounding. Instead of typical lossy can traps, the AV-480 resonators are placed in parallel—not in series. End loading of the lower HF bands allows efficient operation with a manageable antenna height. Maximum Power: 1.500 watts.
Overall Height: 25.5 feet.
HYG-AV-480 ....................................................... $389.95

AV-18HT Hy-Tower 5-Band, 50 Foot Vertical
The AV-18HT Hy-Tower is an omni-directional, self-supporting, automatic-bandswitching vertical radiator. It operates on the 10, 12, 15, 17, 20, 30 and 40 meter Amateur bands. No ground radials are required with the DX-77A. Its design is based on an off-center-fed dipole, sometimes called a “Window” antenna. High efficiency high-power traps are used to isolate the active sections of the antenna.
The DX-77A uses a heavy duty, tiltable mast clamp that accepts masts up to 2 ½” O.D. The entire antenna can be easily raised and lowered for tuning purposes and for use on recreational vehicles (RVs). The DX-77A’s overall length of 29 feet (8.8 meters) contributes to exceptional bandwidths on 40 and 20 meters. Maximum Power: 750 watts average, 1,500 watts PEP.
HYG-DX-77A ....................................................... $439.95

AV-14AVQ and AV-18AVQII Multi-Band Trap Verticals

The 4-band Hy-Gain AV-14AVQ and 5-band AV-18AVQII use the same trap design as the famous Hy-Gain Thunderbird beams. Separate air dielectric Hy-Q traps with oversized coils give superb stability and 1/4 wave resonance on all bands. Their 18-foot overall length fits well in most urban environments. The 14-AVO covers the 10, 15, 20 and 40 meter bands while the 18-AVOII adds the 80 meter band to the mix. 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.
Hy-Gain vertical antennas handle 1,500 watts PEP SSB, have low SWR and automatic bandswitching. Heavy duty, slotted, tapered swaged aircraft quality aluminum tubing with full circumference compression clamps is used for radials. All Hy-Gain verticals feature a two year limited warranty.

HYG-AV-14AVQ ........................................................... $169.95
HYG-AV-18AVQII ....................................................... $239.95
DX Engineering
Vertical Antenna Matching Network
Without a means of adjusting feedpoint impedance, achieving the best SWR on 80 meters on some vertical antenna installations with excellent radial systems may be difficult. The Vertical Antenna Matching Network lets you tune a low impedance antenna to the minimum SWR in the user-selected portion of the 80 or 160 meter band without affecting operation on the other, higher frequency bands (if applicable). The Vertical Antenna Matching Network can also be used on 160 meter Inverted-L and Tee-Top wire verticals. The #12 AWG coil wire is tin-nickel plated for high power handling, corrosion resistance, ease of soldering, and long-term reliability.

DXE-VMN-1 Vertical Antenna Matching Network $44.95

DX Engineering
Coil Tap Clips
These silver-plated Coil Tap Clips provide adjustable attachment points to uninsulated coils including homebrew, Miniductor™ and Airdux™. They also are useful for making flying connections to uninsulated wire in non-RF applications without soldering or cutting. These clips will accommodate wire sizes from #20 to #10 AWG.

DXE-CLIP-P Coil Tap Clips, pack of 5 $9.95

DX Engineering
Add-On Kits for Hustler BTV Verticals
DX Engineering offers add-on kits that provide additional frequency band coverage or installation and operating convenience to the popular Hustler BTV vertical antenna family. Simply add the kit, make some minimal tuning adjustments, and you’re on the air with an additional band. The stainless steel DXE-AOK-DCF allows simple connection of coaxial cable with a PL-259 connector.

DXE-AOK-80M 12 Meter Add-On Kit for Hustler BTV Verticals $59.95
DXE-AOK-12M 12 Meter Add-On Kit for Hustler BTV Verticals $59.95
HUS-30-MTK 30 Meter Add-On Kit for Hustler 4BTV and 5BTV Verticals $46.95
DXE-AOK-60M 60 Meter Add-On Kit for Hustler BTV Verticals $74.95
DXE-AOK-80M 80 Meter Add-On Kit for Hustler 4BTV Verticals $59.95
DXE-AOK-DCF Direct Coax Feed for Hustler BTV Verticals $22.95

NEW from DX Engineering!
A Very Stealthy Auto Tuned Stealth Antenna (ATSA) System
Thanks to the revolutionary SMBA system, our new Auto Tuned Stealth Antenna (ATSA) design allows Amateur Radio operators in HOA-controlled areas to easily get on the air. The unique ATSA MatchBox™ module allows the lowest possible SWR with any length wire. You can be on all bands from 40 meters and up with a short 26 foot wire antenna—and on all bands from 80 to 10 meters with just 45 feet of wire!

Most small, physically short antennas exhibit narrow bandwidth, limiting your operating frequency range on the lower bands to 50 to 100 kHz with acceptable SWR. The ATSA’s integral auto tuner always delivers the lowest SWR at any operating frequency with no operator adjustments necessary. Just change bands and the ATSA antenna will follow you!

The very low profile Remote Tuning Unit [RTU] is easily hidden. Just “plant” it in foliage with the supplied spikes and lay out the minimum length radials and the near-invisible antenna wire. You can further camouflage the controller with a plastic boulder or other items available at most landscaping stores. The ATSA is a complete system including the tuner, stainless steel radial plate, the radial wire, antenna wire, two insulators, and all necessary hardware. The system is completely self-contained; even the required 12 Vdc power is carried by the coax. The ATSA will automatically match your coax to the antenna at any HF frequency within seconds.

• Automatic band switching—tunes for lowest SWR
• Handles 200 watts SSB/CW
• Connect 12 Vdc power and RF through single coax feedline
• Stainless steel mounting plate and hardware
• Great for EMCOMM—just assemble and deploy in minutes!

DXE-ATSA-1 Auto Tuned Stealth, Multi-Band HF Antenna System $459.00
Roof Antenna Mounts

Heavy Duty Tripod Roof Mount
This five foot tall, commercial-strength mount is an ideal support for medium size antennas such as the DX Engineering HEXX Beam. The mount is also a good choice for small HF or VHF Yagi or tri-band antennas as well as HF and VHF vertical antennas. The tall tripod configuration allows peak mounting on a variety of pitched or flat roofs. The 1 1/2" O.D. steel legs have two 10 inch long mounting feet each. Each mounting foot is secured with five lag bolts. Thirty lag bolts are supplied, along with tar strips for weatherproofing under each foot. A five foot long, 2" O.D. steel antenna/rotor mounting mast is also furnished for easy mounting of rotors such as the Hy-Gain CD-45II and HAM-series.

RWM-1011 Heavy Duty 5 ft Tripod Roof Mount...$149.95

Rotor-Ready Heavy Duty Chimney Roof Mount
Use this ready-to-install package for chimney mounting medium size antennas with rotors (such as the DX Engineering HEXX Beam) and small HF or VHF Yagis and tri-banders. The mount is also ideal for HF and VHF vertical antennas with no rotors. Two sections of 1 1/2" O.D., 16 gauge steel mast are supplied. The 42" long section is preassembled with chimney corner brackets for fastening to the chimney and antenna/rotor mounting. The 24" long section is for mounting the antenna to the upper bracket of a rotor such as the Hy-Gain CD-45II and HAM-series. The four chimney corner brackets are 1 1/2" wide 11 gauge steel. The stainless steel fastening straps are 24 feet long, more than long enough for multiple-flue residential and even commercial chimneys. Shipped partially assembled for quick installation.

RWM-324 Heavy Duty Chimney Roof Mount...$149.95

Hy-Gain Antenna Rotators

HAM-V Rotator
The HAM-V is the most popular rotator in the world! It is designed for medium-size communications arrays of up to 15 square feet wind load area. • Normal operation down to -30° F • Dual 98-ball bearing race for load bearing strength • Electric locking steel wedge brake • Ferrite beads on potentiometer wires reduce RF susceptibility • Cinch plug connector plus 8-pin plug at control box—no screwdriver required • N or S center of rotations scale on meter • Low voltage control • Handles masts up to 2 1/16" O.D. • Power requirement: 110V, 60Hz $594.95

HAM-V Rotator with DCU-1 Pathfinder Digital Control
The HAM-V is designed for medium-size communications antenna arrays of up to 15 square feet wind load area. The innovative DCU-1 Pathfinder Control Unit is included. The DCU-1 gives you automatic operation of your brake and rotor, features computer control with RS-232 passthrough, and is compatible with many logging and contest programs. It has 6 presets, 1 degree heading accuracy, automatic 8-second brake delay, and 360 degree choice for center of rotation. • Low temperature grease permits normal operation down to -30° F • Bell rotor design gives complete weather protection • Dual 24-ball bearing race for load bearing support • North center scale, dual lighted directional meter indicator • 8-pin plug/socket on control unit, snap-action control switches, low voltage control • Handles masts up to 2 1/16" O.D. • MSLD light duty lower mast support adapter included • Power requirement: 110V, 60Hz $419.95

HDR-300A Heavy Duty Rotator with Digital Readout
The HDR-300A Heavy Duty Rotator is for king-sized antenna arrays with up to 25 square feet wind load area. It features a control cable connector, a hardened stainless steel output shaft, North or South centered calibration, ferrite beads on potentiometer wires to reduce RF susceptibility, and a longer output shaft keyway for added reliability. Heavy duty, self-centering steel mast clamp and hardware included. The digital display is accurate to one degree. • Normal operation down to -30° F • Dual 138-ball bearing race • Electric locking steel wedge brake • Ferrite beads on potentiometer wires reduce RF susceptibility • Weatherproof AMP connectors plus 8-pin plug at control box • N or S center of rotations scale on meter • Handles masts up to 2 1/16" O.D. • Power requirement: 110V, 60Hz $1,339.95

CD-45II Metered Rotator with Friction Brake
The CD-45II handles 8.5 square feet when mounted inside a tower, or 5 square feet with a mast adapter. • Low temperature grease good to -30° F • Bell rotor design gives complete weather protection • Dual 24-ball bearing race for load bearing support • North center scale, dual lighted directional meter indicator • 8-pin plug/socket on control unit, snap-action control switches, low voltage control • Electric locking steel wedge brake • Ferrite beads on potentiometer wires reduce RF susceptibility • Weatherproof AMP connectors plus 8-pin plug at control box • N or S center of rotations scale on meter • Handles masts up to 2 1/16" O.D. • Power requirement: 110V, 60Hz $594.95

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AR-35 Light Beam/TV Rotator
This rotator is designed to turn accurately position even the largest TV antenna, and most small VHF and UHF ham radio beams. Rotation of the drive unit is synchronized by synchronous motors with the position of the moving dot of the control unit. The operating cycle is activated by turning the control knob. $89.95

HAM-V Rotator with DCU-1 Pathfinder Digital Control
The HAM-V is designed for medium-size communications antenna arrays of up to 15 square feet wind load area. The innovative DCU-1 Pathfinder Control Unit is included. The DCU-1 gives you automatic operation of your brake and rotor, features computer control with RS-232 passthrough, and is compatible with many logging and contest programs. It has 6 presets, 1 degree heading accuracy, automatic 8-second brake delay, and 360 degree choice for center of rotation. • Low temperature grease permits normal operation down to -30° F • Bell rotor design gives complete weather protection • Dual 24-ball bearing race for load bearing support • North center scale, dual lighted directional meter indicator • 8-pin plug/socket on control unit, snap-action control switches, low voltage control • Handles masts up to 2 1/16" O.D. • MSLD light duty lower mast support adapter included • Power requirement: 110V, 60Hz $419.95

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CD-45II Metered Rotator with Friction Brake
The CD-45II handles 8.5 square feet when mounted inside a tower, or 5 square feet with a mast adapter. • Low temperature grease good to -30° F • Bell rotor design gives complete weather protection • Dual 24-ball bearing race for load bearing support • North center scale, dual lighted directional meter indicator • 8-pin plug/socket on control unit, snap-action control switches, low voltage control • Electric locking steel wedge brake • Ferrite beads on potentiometer wires reduce RF susceptibility • Weatherproof AMP connectors plus 8-pin plug at control box • N or S center of rotations scale on meter • Handles masts up to 2 1/16" O.D. • Power requirement: 110V, 60Hz $594.95

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T-2X Tailtwister Series II Rotator
Designed for medium-size communications antenna arrays of up to 20 square feet wind load area. • Normal operation down to -30° F • Dual 138-ball bearing race • Electric locking steel wedge brake prevents wind-induced antenna movement • Ferrite beads on potentiometer wires reduce RF susceptibility • Weatherproof AMP connectors plus 8-pin plug at control box • N or S center of rotations scale on meter • Handles masts up to 2 1/16" O.D. • Power requirement: 110V, 60Hz $594.95
DX Engineering
HEXX Antenna Kits
and Components

Build a G3TXQ Broadband Design Hexagonal Beam antenna with a cost-effective DX Engineering Antenna Kit! The complete kits provide a quick, economical way to build the hottest new version of the hex antenna. Kit components are also available separately.

The HEXAGONAL BEAM kits include the new, patented* DX Engineering Stainless/Teflon® Rigid feed point system. Unlike unbalanced coaxial feeder methods that require special weatherproofing, the DX Engineering feedpoint system provides balanced 50 Ω connections to the wire elements. It is also available separately to easily retrofit other hex beam designs.

DXE-HEXX-5TAP-2 5-Band Total Antenna Kit, Mark II ........................................ $599.95
DXE-HEXX-1TAP-2 1-Band Total Antenna Kit, Mark II ........................................ $359.95
DXE-HEXX-5FFP 5-Band Rigid Feedpoint System............................................. $194.95
DXE-HEXX-1HBP Hub Kit................................................................................... $99.95
DXE-HEXX-5WRP-2 5-Band Precut Wire Element and Guide Kit, Mark II.......... $149.95
DXE-HEXX-1WRP-2 1-Band Wire Element and Guide Kit, Mark II .................... $75.95
DXE-HEXX-1SCP-2 Spreader and Center Post Kit, Mark II .............................. $199.95

Add-on Kits
CUSHART-A743 40/30 Meter Add-on Kit for CUS-A3 and A3S........................ $199.95
CUSHART-A103 30 Meter Add-on Kit for CUS-A3WS....................................... $199.95
CUSHART-A744 40/30 Meter Add-on Kit for CUS- A4 and A4S........................ $199.95
CUSHART-X740 40 Meter Add-on Kit for CUS-X7............................................ $369.00

Cushcraft
Yagi Antennas
CUS-A3S 3-Element Triband Beam, 8 dB, 14 ft. boom ................................. $599.00
CUS-A3WS 3-Element WARC Beam, 17/12 meter, 8 dB,14 ft. boom ........ $499.95
CUS-A4S 4 Element Triband Beam, 8.9 dB, 18 ft. boom ............................ $699.00
CUS-MA5B 20-10 meter 5-Band Mini Beam .................................................. $499.00
CUS-X7 7-Element Triband Beam, 12.5/13 dB ............................................. $1,099.00
CUS-XM240 40 Meter 2-Element Beam, 6 dB, 22 ft. boom ...................... $999.00
CUS-TEN3 10 Meter 3-Element Beam, 8 dB, 8 ft. boom ......................... $299.00
CUS-5003S 6 Meter 3-Element Beam, 8 dB, 6 ft. boom ......................... $139.00
CUS-505S 6 Meter 5-Element Beam, 10 dB, 12 ft. boom ......................... $199.00
CUS-506S 6 Meter 6-Element Beam, 11 dB, 20 ft. boom ......................... $399.00

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CUSHART-X740 40 Meter Add-on Kit for CUS-X7............................................ $369.00

Hy-Gain
Yagi Antennas
HYG-TH-3JRS 3-Element HF Triband Beam, 600 watts .............................. $359.95
HYG-TH-3MK4 3-Element HF Triband Beam, 1,500 watts ......................... $469.95
HYG-TH-5MK2 5-Element HF Triband Beam, 1,500 watts ......................... $759.95
HYG-TH-7DX 7-Element Super Thunderbird Broadband HF Triband Beam ... $869.95
HYG-LJ-103BA 10 Meter Long John HF Monobander, 3 Elements .......... $159.95
HYG-LJ-203BA 20 Meter Long John HF Monobander, 3 Elements .......... $329.95
HYG-BN-86 Balun for Yagi, 3-30 MHz, SO-239 ........................................... $79.95
HYG-BN-400B Balun for Yagi, 1-54 MHz, 4 kW, SO-239 ......................... $109.95

Cushcraft
Yagi Antennas
CUS-A3S 3-Element Triband Beam, 8 dB, 14 ft. boom ................................. $599.00
CUS-A3WS 3-Element WARC Beam, 17/12 meter, 8 dB,14 ft. boom ........ $499.95
CUS-A4S 4 Element Triband Beam, 8.9 dB, 18 ft. boom ............................ $699.00
CUS-MA5B 20-10 meter 5-Band Mini Beam .................................................. $499.00
CUS-X7 7-Element Triband Beam, 12.5/13 dB ............................................. $1,099.00
CUS-XM240 40 Meter 2-Element Beam, 6 dB, 22 ft. boom ...................... $999.00
CUS-TEN3 10 Meter 3-Element Beam, 8 dB, 8 ft. boom ......................... $299.00
CUS-5003S 6 Meter 3-Element Beam, 8 dB, 6 ft. boom ......................... $139.00
CUS-505S 6 Meter 5-Element Beam, 10 dB, 12 ft. boom ......................... $199.00
CUS-506S 6 Meter 6-Element Beam, 11 dB, 20 ft. boom ......................... $399.00

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Hy-Gain
Yagi Antennas
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HYG-TH-3MK4 3-Element HF Triband Beam, 1,500 watts ......................... $469.95
HYG-TH-5MK2 5-Element HF Triband Beam, 1,500 watts ......................... $759.95
HYG-TH-7DX 7-Element Super Thunderbird Broadband HF Triband Beam ... $869.95
HYG-LJ-103BA 10 Meter Long John HF Monobander, 3 Elements .......... $159.95
HYG-LJ-203BA 20 Meter Long John HF Monobander, 3 Elements .......... $329.95
HYG-BN-86 Balun for Yagi, 3-30 MHz, SO-239 ........................................... $79.95
HYG-BN-400B Balun for Yagi, 1-54 MHz, 4 kW, SO-239 ......................... $109.95

*US Patent D624,060
### Yagi Antennas

<table>
<thead>
<tr>
<th>MODEL</th>
<th>BAND (MHz)</th>
<th>GAIN (dB)</th>
<th>WATTS (PEP)</th>
<th>CONN.</th>
<th>BOOM LENGTH</th>
<th>ELEMENT PHASING</th>
</tr>
</thead>
<tbody>
<tr>
<td>A502HB</td>
<td>50</td>
<td>6.3</td>
<td>400</td>
<td>UHF</td>
<td>2.5”</td>
<td>2 element</td>
</tr>
<tr>
<td>A144S</td>
<td>144</td>
<td>9</td>
<td>100</td>
<td>UHF</td>
<td>37.3”</td>
<td>5 element</td>
</tr>
<tr>
<td>A305S10</td>
<td>432</td>
<td>13</td>
<td>100</td>
<td>UHF</td>
<td>43”</td>
<td>10 element</td>
</tr>
<tr>
<td>A305S15</td>
<td>432</td>
<td>14.8</td>
<td>100</td>
<td>UHF</td>
<td>89”</td>
<td>15 element</td>
</tr>
</tbody>
</table>

### Ruggedized Base/Repeater Antennas

**X500HDM**

Diamond Antenna’s best base station repeater antenna. It is pretuned to achieve maximum gain in both the 2 meter and 70 centimeter amateur bands and has a wide frequency bandwidth. Features include a heavy-duty fiberglass radome, overlapping outer shells for added strength, stainless steel mounting hardware and radials, and waterproof joint couplings.

- Frequency: 144-148 MHz/2 meter, 440-450 MHz/70 centimeter
- Gain: 8.3 dB/2 meter, 11.7 dB/70 centimeter
- Power Rating: 200 watts maximum
- Wind Rating: 90 MPH (no ice)
- Height: 17.8 feet

DIA-X500HNA ......................................................... **$299.95**

**X50NA**

An excellent choice where ruggedness is required in a medium-gain, dual-band, base/repeater application. Features include a wide frequency bandwidth, heavy-duty fiberglass radome, stainless steel mounting hardware and radials, and a Type-N cable connection. Compact 5.6 foot height for easy mounting and installation.

- Frequency: 144-148 MHz/2 meter, 440-450 MHz/70 centimeter
- Gain: 4.5 dB/2 meter, 7.2 dB/70 centimeter
- Power Rating: 200 watts maximum
- Wind Rating: 135 MPH (no ice)

DIA-X50NA .......................................................... **$99.95**

**X30A**

The X30A works well in areas where height and/or antenna restrictions are an issue. Features include a wide frequency bandwidth, heavy-duty fiberglass radome, stainless steel hardware, and a UHF cable connection. Compact 4.5 foot height for easy installation.

- Frequency: 144-148 MHz/2 meter, 440-450 MHz/70 centimeter
- Gain: 3.0 dB/2 meter, 5.5 dB/70 centimeter
- Power Rating: 150 watts maximum
- Wind Rating: 135 MPH (no ice)

DIA-X30A ............................................................ **$69.95**

### Vertical Antennas

**BB7V Multi-Band HF Vertical Antenna**

This lightweight (4.5 lb.) antenna provides coverage from 2 MHz to 30 MHz without radials. The BB7V has six telescoping sections that nest in each other—collapsed length is 5 feet, extends to 22 feet when fully deployed. The sections are self-locking (no hardware to lose) and can be raised or lowered in less than a minute. For permanent use, each section can be locked in place with a single screw. Ideal for users with antenna restrictions or travelers wanting a quick and easy wideband antenna solution.

DIA-BB7V Multi-Band HF Vertical Antenna ......................................................... **$399.95**

**Vertically Polarized Yagi Antennas**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FREQUENCY (MHz)</th>
<th>IMPEDED</th>
<th>WATTS (PEP)</th>
<th>CONN.</th>
<th>BOOM LTH.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB7V</td>
<td>2-30 (W/TUNER)</td>
<td>50Ω</td>
<td>250</td>
<td>UHF</td>
<td>60'-'22'</td>
<td>4.5 lbs.</td>
</tr>
</tbody>
</table>

**Mono-Band Base/Repeater Antennas**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>BAND (MHz)</th>
<th>GAIN (dB)</th>
<th>WATTS (PEP)</th>
<th>CONN.</th>
<th>HT. FT.</th>
<th>RATED WIND MPH (No Ice)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP22E</td>
<td>144</td>
<td>6.5</td>
<td>200</td>
<td>UHF</td>
<td>9.0</td>
<td>70</td>
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</table>

**Dual-Band Base/Repeater Antennas**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>BAND (MHz)</th>
<th>GAIN (dB)</th>
<th>WATTS (PEP)</th>
<th>CONN.</th>
<th>HT. FT.</th>
<th>RATED WIND MPH (No Ice)</th>
</tr>
</thead>
<tbody>
<tr>
<td>X30A</td>
<td>144440</td>
<td>3.05.5</td>
<td>150</td>
<td>UHF</td>
<td>4.5</td>
<td>135</td>
</tr>
<tr>
<td>X50A</td>
<td>144440</td>
<td>4.57.2</td>
<td>200</td>
<td>UHF</td>
<td>5.6</td>
<td>135</td>
</tr>
<tr>
<td>X50A</td>
<td>144440</td>
<td>4.57.2</td>
<td>200</td>
<td>UHF</td>
<td>5.6</td>
<td>135</td>
</tr>
<tr>
<td>X300A</td>
<td>144440</td>
<td>6.59.0</td>
<td>200</td>
<td>UHF</td>
<td>10.5</td>
<td>112</td>
</tr>
<tr>
<td>X300A</td>
<td>144440</td>
<td>6.59.0</td>
<td>200</td>
<td>UHF</td>
<td>10.5</td>
<td>112</td>
</tr>
<tr>
<td>X510HDM</td>
<td>144440</td>
<td>8.311.7</td>
<td>330250</td>
<td>UHF</td>
<td>17.2</td>
<td>90</td>
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</tbody>
</table>

**Tri-Band Base/Repeater Antennas**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>BAND (MHz)</th>
<th>GAIN (dB)</th>
<th>WATTS (PEP)</th>
<th>CONN.</th>
<th>HT. FT.</th>
<th>RATED WIND MPH (No Ice)</th>
</tr>
</thead>
<tbody>
<tr>
<td>V200A</td>
<td>144440</td>
<td>2.162.8</td>
<td>150</td>
<td>UHF</td>
<td>8.3</td>
<td>110</td>
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<tr>
<td>X200A</td>
<td>144440</td>
<td>6.07.8</td>
<td>100200</td>
<td>UHF</td>
<td>10.5</td>
<td>112</td>
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<tr>
<td>X600A</td>
<td>1444401240</td>
<td>6.59.10</td>
<td>10080</td>
<td>N</td>
<td>10.5</td>
<td>112</td>
</tr>
</tbody>
</table>

### Notes:

1) Heavy duty aluminum construction. 2) X510NJ: 144-147/430-440 MHz. 3) 1/4l rated in dBi. 4) 2m: 146-148; 100 watts 5) 52-54 MHz only. Tunable. 6) Tunable for 10MHz BW. 7) 1.25 bandwidth. 8) Tunable 144-174 with cutting chart. 9) CP22E PE7/30W FM BAND: 144-148 MHz, 222-225 MHz, 430-435 MHz, 440-445 MHz, 460-465 MHz, 1460-1465 MHz, 1460-1465 MHz, 1460-1470 MHz. 10) Power rating should be reduced in repeater service.
VHF/UHF & HF/VHF Mobile Antennas

Maximum Performance Without Compromise

**HV7A Mobile Antenna System**

Designed for new HF/VHF transceivers such as the Icom IC706 & IC7000 Series, the HV7A has five band capability (70 centimeter, 2 meter, 6 meter, and two HF bands) through the use of loading coils. The foldover feature allows for easy access into low overhead buildings. Some radios may require a duplexer.

- **Bands Supplied:** 10/6/2 meter, 70 centimeter
- **Power, PEP:** 120 Watts/HF, 200 Watts/VHF
- **SWR:** 1.5:1 Nominal
- **Length:** 54'
- **Mount Connection:** UHF

**DIA-HV7A Mobile Antenna System:** $119.95

**Loading Coils**

DIA-HVC7 40 meter........................................ $44.95
DIA-HVC14 20 meter........................................ $37.95
DIA-HVC18 17 meter........................................ $37.95
DIA-HVC21 15 meter........................................ $37.95

---

**Premium Antenna Mounts**

**K400 Series Hatchback/Door/Trunk Lid Antenna Mounts**

These heavy-duty mounts are two-axis adjustable and have a 4" wide mounting base with four set screws for maximum strength. Recommended for high gain VHF/UHF antennas. Will support ATAS 120, Tarheel II, High Sierra Sidekick & Outbacker.

- **DIA-K400C**
  - SO-239 base, 6.5 ft. RG-316/B cable, PL-259 connector......................... $73.95
- **DIA-K400C NMO**
  - NMO base, 6.5 ft. RG-316/B cable, PL-259 connector......................... $73.95
- **DIA-K400-3/8C**
  - 3/8-24 base, 6.5 ft. RG-316/B cable, PL-259 connector......................... $73.95

**K400 Mirror/Luggage Rack Antenna Mount**

This mount accepts 1/2" to 7/8" tubing and fits most mirrors and utility racks. The position adjusting knob allows the antenna to fold over and lock into a horizontal position. Recommended for antennas under 45".

- **DIA-K540KM**
  - SO-239 base, 13 ft. RG58/U cable, PL-259 connector......................... $59.95
- **DIA-K540**
  - Mount only................................................................................. $35.95

**K600 Variable Angle Trunk Antenna Mount**

This aerodynamic trunk mount can be adjusted vertically from 0°-9°. The mounting base is 4" wide with four set screws for maximum strength. Recommended for high gain VHF/UHF antennas.

**DIA-K600M**

- SO-239 base, 16.5 ft. two-step RG-188 Teflon® cable plus 10' SO-239 cable, PL-259 connector......................... $59.95

---

**C101 Cable Assemblies**

**C101 Cable Assemblies**

Ideal cable assemblies for trunk mount radios.

- **DIA-C101**
  - SO-239 base, 6.5 ft. RG-316 Teflon® cable, PL-259 connector......................... $37.95
- **DIA-C101 NMO**
  - NMO base, 6.5 ft. RG-316 Teflon® cable, PL-259 connector......................... $37.95
- **DIA-C213SM**
  - SO-239 base, 13.5 ft. RG-316 Teflon® cable, SMA/PL-259 connector......................... $44.95
- **DIA-C213SM NMO**
  - NMO base, 13.5 ft. RG-316 Teflon® cable, SMA/PL-259 connector......................... $44.95
- **DIA-C101-3/8C**
  - 3/8-24 base, 6.5 ft. RG-316 Teflon® cable, PL-259 connector......................... $34.95

*For use with Diamond’s K-Series mounts.

---

**C110 Extensions for C101 Cable Assemblies**

Used to extend cable for front-mount radio installations.

- **DIA-C110**
  - Extension with 10 ft. RG8X cable, mini UHF connector......................... $19.95
- **DIA-C110BNC**
  - Extension with 10 ft. RG316 Teflon® cable, BNC-male connector......................... $29.95
- **DIA-C110SM**
  - Extension with 10 ft. RG316 Teflon® cable, SMA-male connector......................... $29.95
- **DIA-C211**
  - Kit with C101 Cable Assembly and C110 Extension, 16.5 ft. total length......................... $49.95

---

**Recommended Antenna Mounts:**

- K400C, K400S, K500S or K600M
Antennas & Accessories

**Maximum Power Transfer—Optimum Balance!**

**Maxi-Core® Baluns**

DX Engineering Baluns with Maxi-Core® Technology let your antenna perform to its full potential and reduce the stresses on your equipment. Check out these features:

- Allow a better match from the coax impedance to the impedance of the antenna for lowest SWR.
- Force equal currents for maximum efficiency and better patterns.
- Exhibit an increased operating bandwidth over other baluns.
- Allow use of an antenna tuner and maximum power amplifier without damage (DXE “T” Baluns only).
- Convenient mounting holes.
- Reduce transmit RFI and receive noise.
- Unbalanced output uses Teflon®/Silver SO-239 connector.
- Handle high power (up to 10 kW per published spec) with minimum energy loss.
- Mounted in sturdy aluminum boxes designed for outdoor use.
- Perform at the highest levels of efficiency in transmit or receive applications.
- Balanced input uses ceramic insulators with stainless hardware.

Only DX Engineering Baluns will deliver the power to your antenna with minimal loss and perform a perfect transition from balanced to unbalanced. This will result in the strongest signal your antenna is capable of producing consistent with the lowest SWR under given conditions. This will result in less stress on your transmitter so components will last longer and operate better.

DX Engineering Baluns exhibit far wider bandwidths over conventional baluns because more of the flux is confined to the immediate vicinity of the core. This results in much more energy going to your antenna. Extremely high efficiency is achieved over the entire frequency range.

Pick the correct model for your application and desired impedance transformation.

**Part Number & Case* Price Ratio Power, Freq., Applicaton**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Case</th>
<th>Price</th>
<th>Ratio</th>
<th>Power</th>
<th>Freq.</th>
<th>Applicaton</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXE-BAL500-H05-A</td>
<td></td>
<td>$94.95</td>
<td>1:1</td>
<td>25/5 kW</td>
<td>1.8-30</td>
<td>Dipole, Yagi</td>
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<tr>
<td>DXE-BAL500-H10-A</td>
<td></td>
<td>$109.95</td>
<td>1:1</td>
<td>50/10 kW</td>
<td>1.8-30</td>
<td>Dipole, Yagi</td>
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<tr>
<td>DXE-BAL500-H11-C</td>
<td></td>
<td>$139.95</td>
<td>1:1</td>
<td>100/20 kW</td>
<td>1.8-30</td>
<td>Dipole, Yagi</td>
</tr>
<tr>
<td>DXE-BAL600-H10-A</td>
<td></td>
<td>$119.95</td>
<td>1:1</td>
<td>50/10 kW</td>
<td>1.8-30</td>
<td>Dipole, Yagi</td>
</tr>
<tr>
<td>DXE-BAL-300-H10-A</td>
<td></td>
<td>$139.95</td>
<td>1:1</td>
<td>50/10 kW</td>
<td>1.8-30</td>
<td>Folded Dipole</td>
</tr>
<tr>
<td>DXE-BAL-450-H10-A</td>
<td></td>
<td>$139.95</td>
<td>1:1</td>
<td>50/10 kW</td>
<td>1.8-30</td>
<td>450Ω Antenna</td>
</tr>
<tr>
<td>DXE-BAL-600-H10-A</td>
<td></td>
<td>$139.95</td>
<td>1:1</td>
<td>50/10 kW</td>
<td>1.8-30</td>
<td>Terminated Loop</td>
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</tbody>
</table>

**Special Applications for Use with Antenna Tuner**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Case</th>
<th>Price</th>
<th>Ratio</th>
<th>Power</th>
<th>Freq.</th>
<th>Applicaton</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXE-BAL500-H11-CT</td>
<td></td>
<td>$119.95</td>
<td>1:1</td>
<td>50/10 kW</td>
<td>1.8-30</td>
<td>Multi-Band Dipole</td>
</tr>
<tr>
<td>DXE-BAL-200-H10-AT</td>
<td></td>
<td>$129.95</td>
<td>1:1</td>
<td>50/10 kW</td>
<td>1.8-30</td>
<td>Multi-Band Vert/OCF</td>
</tr>
<tr>
<td>DXE-BAL-200-H11-CT</td>
<td></td>
<td>$149.95</td>
<td>1:1</td>
<td>50/10 kW</td>
<td>1.8-30</td>
<td>Multi-Band Vert/OCF</td>
</tr>
<tr>
<td>DXE-BAL-450-H10-B+P</td>
<td></td>
<td>$159.95</td>
<td>1:1</td>
<td>50/10 kW</td>
<td>1.8-30</td>
<td>5Kv Loss-Less Line Transformer, Pair</td>
</tr>
</tbody>
</table>

**High Power UNUN for Non-Resonant Verticals**

DX Engineering UNUN is specifically designed for applications using non-resonant multi-band antennas. The UNUN will help your antenna and transmission line/tuner installation work at maximum efficiency, minimizing additional transmission line losses caused by SWR. It can be added to any existing 43 foot antenna installation, and is an ideal replacement for an older UNUN.

- 1.8–30 MHz operating range to cover popular amateur bands.
- Handles rated power with minimal energy loss—no thermal-related failure.

**DXE-UN-43** 4:1 High Power UNUN, for use with non-resonant verticals...........$104.95

**DXE-UN-BRKT** UNUN Mounting Kit for multi-band HF verticals..............$22.95

**DXE-TCB-UNFK** Feed Point Connection Kit, UNUN to vertical antenna...........$9.50

**DXE-UN-43R** Complete Kit (UN-43, BRKT, UNFK)..........................$129.95

**Balun or Choke Mounting Kit**

This is the same mounting kit supplied with our Vertical Feedline Current Chokes. It consists of a stainless steel bracket and insulated shell, which allows you to mount any DX Engineering Balun or the Feedline Current Choke at the base of any vertical antenna. The polymer mounting plate is isolated from the rest of the vertical ground system for best performance and decoupling. No clamps are necessary if you are mounting to a 4x4 or 6x6 wooden post—simply use two wood screws. A clamp will be needed if you choose to mount your bracket to a ground pipe—our DXE-CAYV-2P V-Saddle Clamp is recommended for clamping to 1 inch to 2 inch O.D. pipe.

**DXE-VFCC-BRKT** Balun or Choke Mounting Kit.................................$19.95

**DXE-SSVC-2P** V-Saddle Clamp, 1” to 2” O.D...............................$11.95

**Balun Dipole Adaptor Bracket**

This mounting kit allows you to mount a DX Engineering Balun, Feedline Current Choke, or Vertical Feedline Current Choke in a wire dipole situation. To suspend a formed aluminum DX Engineering Balun with the Dipole Adaptor Bracket between two points, we recommend Synthetic Textiles Inc. double-braided polyester rope, found in the Wire Antenna section on page 30.

**DXE-BDAB-1P** Balun Dipole Adapter Kit...............................$24.95

**Balun Mounting Bracket Kits**

Use one of these Balun Mounting Bracket Kits to mount your DX Engineering Balun to the boom of a Yagi, antenna mast or a tower leg. The kits include:

- Aluminum bar mounting bracket
- Stainless steel bracket hardware kit
- Stainless steel round member clamps

These kits will work with any of our baluns in a formed aluminum enclosure.

**DXE-BMB-1P** Balun Mounting Kit, 7.5” to 1.5” clamps..........................$24.95

**DXE-BMB-2P** Balun Mounting Kit, 1.56’ to 2.25” clamps..........................$24.95

**DXE-BMB-3P** Balun Mounting Kit, 2.31’ to 3.00” clamps..........................$24.95

**Cable Strain Relief Brackets**

These assemblies from DX Engineering support the cable hanging from your balun or wire antenna center-T, relieving the stress on the cable connection. Available for RG-8X and RG-213U cable. Hardware included.

**DXE-CSR3X-1** Cable Strain Relief Assembly, RG-8X.........................$9.50

**DXE-CSR213-1** Cable Strain Relief Assembly, RG-213/U..................$9.50

**Feedline Current Chokes**

If your SWR is already low and you wish to reduce feedline radiation (RFI) and improve reception, a Feedline Current Choke is recommended.

- Overcome a less than optimal ground system.
- All power goes to the antenna, improving efficiency.
- Prevent unwanted RFI by eliminating feedline current and radiation.
- Force equal currents for maximum efficiency and better patterns.

This DX Engineering UNUN is specifically designed for applications using non-resonant multi-band antennas. The UNUN will help your antenna and transmission line/tuner installation work at maximum efficiency, minimizing additional transmission line losses caused by SWR. It can be added to any existing 43 foot antenna installation, and is an ideal replacement for an older UNUN.

- 1.8–30 MHz operating range to cover popular amateur bands.
- Handles rated power with minimal energy loss—no thermal-related failure.

**DXE-BAL500-H05-A** Vertical Feedline Current Choke, 2/5 kW, HF verticals........$134.95

**DXE-BAL500-H10-A** Vertical Feedline Current Choke, 5/10 kW, HF verticals........$179.95

*Case Style Definitions *See Page 33 for description

A or AT: Lightweight formed aluminum enclosure for outdoor use
C or CT: Cast aluminum gasketed enclosure for severe environments
Contact DX Engineering Customer Support to Discuss Your Application or for Recommendations.
Vertical Feedline Current Choke

When quarter wave antennas are constructed over a good radial system, they have a feedpoint impedance of about 36 Ω and currents are equal between the vertical section and the radial system. If the radial system is less than ideal—due to short radials, too few radials or poor soil conductivity—the antenna system will try to use the feedline shield as part of the radial system. This leads to a loss in the efficiency and a higher take-off angle. Often, the current introduced on the shield of the feedline causes RF1 at the operator position. Placing a vertical feedline current choke (VFCC) at the base of the quarter wave antenna forces the currents to equalize between the vertical section and the radial system, even if the radial system is less than ideal. The balanced terminals of the VFCC should be connected directly to the base of the antenna and radial plate with appropriate lengths of low-inductance tinned copper braid.

The DX Engineering VFCC is supplied with an insulated mounting shield to isolate the feedline shield from ground. Purchase the optional V-Saddle Clamp for mounting the VFCC to pipe up to 2 inches O.D.

- Equalizes vertical and ground currents
- Improves signal efficiency
- Lowers radiation angle

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXE-VFCC-H05-A</td>
<td>Vertical Feedline Current Choke Kit, 2/5 KW, HF</td>
<td>$134.95</td>
</tr>
<tr>
<td>DXE-VFCC-H10-A</td>
<td>Vertical Feedline Current Choke Kit, 5/10 KW, HF</td>
<td>$179.95</td>
</tr>
<tr>
<td>DXE-SSVC-2P</td>
<td>V-Saddle Clamp, for 1-2” O.D. pipe</td>
<td>$11.95</td>
</tr>
</tbody>
</table>

Tilt Base

No more climbing ladders or removing a bracket from the support post. You can now make repairs or tune your vertical easily with a DX Engineering Tilt Base. One person can easily lift the antenna, tilt it to the side and walk it down. The optional DXE-AOK-TB1193 Wing Nut Kit makes for a no-tool fastening of the tilt base. Precision cut from 3/16 inch 304 stainless steel, the Tilt Base is virtually indestructible and conveniently mounts to the same mast that you use for the antenna and radial plate. The Tilt Base is great for installations that need to accommodate CCAR, or for taking down antenna during severe weather.

Use DXE-TB-3P for Hustler BTV models, DXE-4P for Butlermon, GAP, Hy-Gain & DXE Verticals, and use DXE-TB-6P for Hy-Gain 14AVQ. The DXE-TB-4P Tilt Base is intended for quarter wave verticals that have a minimum of 0.5 inch and a maximum of 2 inch O.D. base, weight up to 20 pounds, and have a height of no more than 28 ft. Vertical antennas up to 43 ft. must be adequately guyed, and extra precautions should be taken when raising the antenna. Verticals that have a minimum of 0.5 inch and a maximum of 2 inch O.D. base, weight up to 20 pounds, and have a height of no more than 28 ft. Vertical antennas up to 43 ft. must be adequately guyed, and extra precautions should be taken when raising the antenna. The optional DXE-AOK-TB1193 Wing Nut Kit makes for a no-tool fastening of the tilt base. Precision cut from 3/16 inch 304 stainless steel, the Tilt Base is virtually indestructible and conveniently mounts to the same mast that you use for the antenna and radial plate.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXE-TB-3P</td>
<td>Tilt Base Kit for Hustler BTV model antennas</td>
<td>$62.50</td>
</tr>
<tr>
<td>DXE-TB-4P</td>
<td>Tilt Base Kit for antennas other than Hustler BTV</td>
<td>$87.50</td>
</tr>
<tr>
<td>DXE-TB-6P</td>
<td>Tilt Base Kit for Hy-Gain 14AVQ</td>
<td>$0.00</td>
</tr>
<tr>
<td>DXE-AOK-TB1193</td>
<td>Wing Nut No-Tools Kit, pack of 2</td>
<td>$7.95</td>
</tr>
<tr>
<td>DXE-SSVC-2P</td>
<td>V-Saddle Clamp, 1 to 2” O.D. applications</td>
<td>$11.95</td>
</tr>
</tbody>
</table>

Wing Nut No-Tools Kit for DX Engineering Tilt Base

Use these wing nut knobs for tool-less quick release of the DX Engineering DXE-TB Tilt Bases—handy for lowering the antenna for tuning or daily stealth operation. Simply remove the existing hex nuts and thread on the wing nuts. The old hex nuts store on the tilt base for future use. Purchase two sets to allow tightening of the lower mounting hardware without tools and for extended periods of upright installation and use.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXE-AOK-TB1193</td>
<td>Wing Nut No-Tools Knobs, pack of 2</td>
<td>$7.95</td>
</tr>
</tbody>
</table>

Guying Kits

Many locations experience winds that can be damaging to antennas. These kits provide 4 ground anchors and plenty of 260 pound, 3/32 diameter rope to provide the guying necessary to protect your vertical antenna. The black rope is UV-protected to last for years.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXE-GUY100-KIT</td>
<td>BTG Guying Kit, 100' of rope</td>
<td>$29.95</td>
</tr>
<tr>
<td>DXE-GUY200-KIT</td>
<td>BTG Guying Kit, 200' of rope</td>
<td>$37.95</td>
</tr>
<tr>
<td>DXE-GUY400-KIT</td>
<td>Vertical Guying Kit, 400' of rope</td>
<td>$54.95</td>
</tr>
<tr>
<td>DXE-GUY1000-KIT</td>
<td>HD Vertical Guying Kit with 1000' of rope</td>
<td>$89.95</td>
</tr>
</tbody>
</table>

Accessories for Vertical Antennas

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXE-SSVC-2P</td>
<td>V-Saddle Clamp, 1 to 2” O.D.</td>
<td>$11.95</td>
</tr>
<tr>
<td>DXE-VFCC-H05-A</td>
<td>Vertical Feedline Current Choke</td>
<td>$134.95</td>
</tr>
</tbody>
</table>

Radial Plate

DX Engineering’s patented Radial Plate provides a neat, easy, and effective way to connect essential radial wires and feedline to your quarter wave vertical antenna. The plate can be attached easily and rigidly to a 4x4 or 6x6 post, steel or aluminum pipe up to 3 inches O.D., a fence post, or whatever is supporting your antenna. Purchase the optional V-Saddle Clamp for mounting the plate to pipe up to 3 inches O.D.

The plate assembly has been designed for an optional SO-239 panel mount or bulkhead mount connector, available from DX Engineering. This will ground the shield of your feedline to the radial plate before it goes to the antenna, allowing maximum transfer of ground current directly into your radial system.

- Provides attachment for coaxial cable braid
- Square to allow most radial attachment points
- Stainless steel plate won’t dissolve like aluminum
- Stainless steel hardware

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXE-RADP-3</td>
<td>Radial Plate, complete with 20 stainless steel bolt sets</td>
<td>$54.50</td>
</tr>
<tr>
<td>DXE-RADP-1HWK</td>
<td>Hardware Set, includes 20 sets of 1/4” stainless hardware</td>
<td>$7.50</td>
</tr>
<tr>
<td>DXE-SSVC-2P</td>
<td>V-Saddle Clamp, 1 to 2” O.D. applications</td>
<td>$11.95</td>
</tr>
<tr>
<td>DXE-SSVC-3P</td>
<td>V-Saddle Clamp, 2 to 3” O.D. applications</td>
<td>$14.95</td>
</tr>
<tr>
<td>DXE-112-KIT</td>
<td>SO-239, Teflon/Silver, chassis mount with hardware</td>
<td>$6.95</td>
</tr>
<tr>
<td>DXE-363-SS</td>
<td>SO-239, Teflon/Silver, bulkhead fitting with hardware</td>
<td>$6.95</td>
</tr>
<tr>
<td>DXE-8143</td>
<td>Anti-Seize Compound, 1 oz. squeeze tube</td>
<td>$2.99</td>
</tr>
<tr>
<td>DXE-225RT-20</td>
<td>Ring Terminals, 1/4” hole, for 14/16 gauge wire, 20 pack</td>
<td>$4.95</td>
</tr>
</tbody>
</table>

Radial Wire Staples

There is no need to bury your radials for performance. DX Engineering Radial Wire Staples are perfect for fastening radials on the ground without having to go below the grass to eliminate the risk of damaging your radials during lawn maintenance. The radials disappear into the lawn within weeks!

The low-cost metal staples now have a biodegradable counterpart! The “BD” suffix indicates a pack of 3 inch biodegradable anchors made from recycled PLA (Polylactic Resin). Depending on weather conditions, they will degrade in a year or two. They are easily installed and will hold radial wires in place until lawn roots overtake them—and then the staples disappear. Ecologically friendly!

<table>
<thead>
<tr>
<th>Part Number</th>
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<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXE-STPL-100BD</td>
<td>Radial Wire Biodegradable Staple, 3’, 100 pack</td>
<td>$16.00</td>
</tr>
<tr>
<td>DXE-STPL-100P</td>
<td>Radial Wire Metal Staple, 6’, 100 pack</td>
<td>$16.00</td>
</tr>
<tr>
<td>DXE-STPL-300P</td>
<td>Radial Wire Metal Staple, 6’, 300 pack</td>
<td>$44.00</td>
</tr>
</tbody>
</table>

Radial Wire Kits

Bulk Radial Wire Kits

You should install as many radials as possible to achieve optimal performance with a ground-mounted vertical. All our radial wire kits use #14 stranded insulated copper wire that is UV-resistant, hard to see and lays down easily without a preset helix.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXE-RADW-500K</td>
<td>Radial Kit, 500’, ring terminals, wire staples</td>
<td>$64.90</td>
</tr>
<tr>
<td>DXE-RADW-500KBD</td>
<td>Radial Kit, 500’, ring terminals, biodegradable staples</td>
<td>$64.90</td>
</tr>
<tr>
<td>DXE-RADW-100K</td>
<td>Radial Kit, 1,000’, ring terminals, wire staples</td>
<td>$123.95</td>
</tr>
<tr>
<td>DXE-RADW-100KBD</td>
<td>Radial Kit, 1,000’, ring terminals, biodegradable staples</td>
<td>$123.95</td>
</tr>
</tbody>
</table>

Pre-Assembled Radial Wires

Packages of twenty pre-cut radial wires include 1/4” ring terminals machine crimped on one end for quick, easy attachment to the radial plate.

<table>
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<tr>
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<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXE-RADW-20RT</td>
<td>20’ Radial Wire with 1’ Ring Terminals, 20 pack</td>
<td>$79.95</td>
</tr>
<tr>
<td>DXE-RADW-32RT</td>
<td>32’ Radial Wire with 1’ Ring Terminals, 20 pack</td>
<td>$104.95</td>
</tr>
<tr>
<td>DXE-RADW-65RT</td>
<td>65’ Radial Wire with 1’ Ring Terminals, 20 pack</td>
<td>$179.95</td>
</tr>
</tbody>
</table>

Pre-Cut Radial Kits

DX Engineering offers pre-cut radial wire kits for the 10, 15, 20 and 80 meter bands, complete with wire connection hardware for elevated radial installations. Just strip the wire ends, crimp and solder. Each radial is slightly longer than a quarter wave to allow tuning as necessary.

<table>
<thead>
<tr>
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<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXE-RADW-1K</td>
<td>Radial Wire Kit for 10, 15 and 20m</td>
<td>$24.95</td>
</tr>
<tr>
<td>DXE-RADW-40MK</td>
<td>Radial Wire Kit for 40m</td>
<td>$20.95</td>
</tr>
<tr>
<td>DXE-RADW-80MK</td>
<td>Radial Wire Kit for 80m</td>
<td>$37.95</td>
</tr>
</tbody>
</table>

Wire Stripper/Crimper/Cutter Tool

These precision tools are designed to deliver reliable performance without the need for special techniques. The DXE-RADW-1000KBD Radial Kit, 1,000’, ring terminals, biodegradable staples | $17.95 |
Antennas & Accessories

Universal Wire Antenna Kits

DX Engineering's three Universal Wire Antenna (UWA) Kits offer the right combination of parts and hardware to create a wide variety of antenna designs. You can create any type of wire antenna, including single band, multi-band, multi-frequency and folded dipole, doublet and inverted-vee, off-center fed, Windom, Zepp, long wires, rhombic, vee beam, and loop antennas.

The kits feature the new EZ-BUILD™ Center-T insulator and end insulators. The insulators have a unique patented design that features a serpentine wire grip for insulated DX Engineering Antenna Wire and DX Engineering’s high strength, high power 300 Ω ladder line. The serpentine wire connection grip is strong enough to support the antenna wires without looping or wrapping the wire ends. This allows fast and easy field adjustments of antenna length without soldering!

The insulators are made of a light weight, high strength, UV-protected material. The center-T insulator is designed to serve as a feedpoint and strain relief for antennas made with either wire or ladder line, which may be fed with either ladder line or coaxial cable. The Center-T insulator can be the main support point for the antenna feedpoint by using the top center hole to attach a support rope. It also serves as the mounting and support point for any DX Engineering Balun.

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The Center-T insulator can be hung from a supporting mast. It has an SO-239 connector to attach to coaxial cable with a matching PL-259 connector. The center-T insulator is used for connecting coaxial feedline to a doublet-type antenna. The insulator can be hung from a supporting mast. It has an SO-239 connector to attach to coaxial cable with a matching PL-259 connector.

Hy-Gain Center Insulator for Multi-Band Doubles with SO-239

This weatherproof, lightweight, high strength center insulator is used for connecting coaxial feedline to a doublet-type antenna. The insulator can be hung from a supporting mast. It has an SO-239 connector to attach to coaxial cable with a matching PL-259 connector.

Premium Copper Antenna Wire

Use DX Engineering antenna wire to achieve top performance and long-life, trouble-free operation. This insulated copper wire is UV-resistant and lays out easily, unlike the wire that is commonly available at the “big box” stores which coils and kinks. It will last much longer in contact with the environment than bare wire. It is available in pre-cut lengths for easy dipole assembly, or in bulk lengths of 500 and 1,000 feet.

• Elements: 14 AWG copper, PVC jacket for flexibility and strength
• Feedline: 100 feet, 18 AWG, 300 Ω ladder line, UV-resistant, 0.88 VF
• Hardware: stainless steel
• Center-T support and end insulators: High impact, UV-resistant material, black
• Power Rating: 1500W

DXE-ANTW-1000 #14 Insulated Antenna Wire, multiple antennas, 1,000' .................. $129.95
DXE-ANTW-500 #14 Insulated Antenna Wire, multiple antennas, 500' ........................ $69.95
DXE-ANTW-300 #14 Insulated Antenna Wire, 160m & up, 300' .............................. $37.95
DXE-ANTW-150 #14 Insulated Antenna Wire, 80m & up, 150' ............................... $19.95
DXE-ANTW-75 #14 Insulated Antenna Wire, 40m & up, 75' ................................. $10.95
DXE-ANTW-35 #14 Insulated Antenna Wire, 10m & up, 35' ................................. $2.95
DXE-ANTW-10 #14 Insulated Antenna Wire, 4m & up, 10' ................................. $1.45
DXE-ANTW-4 #14 Insulated Antenna Wire, 70cm & up, 4' ................................. $0.69
DXE-ANTW-2 #14 Insulated Antenna Wire, 2m & up, 2' ................................. $0.35
DXE-ANTW-3/4 #14 Insulated Antenna Wire, 6m & up, 3/4' ............................... $0.27
DXE-ANTW-1/2 #14 Insulated Antenna Wire, 10m & up, 1/2' .............................. $0.17
DXE-ANTW-1/4 #14 Insulated Antenna Wire, 20m & up, 1/4' .............................. $0.11
DXE-ANTW-1/8 #14 Insulated Antenna Wire, 40m & up, 1/8' .............................. $0.06