MacLean™ POWER SYSTEMS

*Connecting People for Good*

# UVMAXX™

## *FIBERGLASS CROSSARM*

## & HARDWARE SYSTEM

Introducing our new UVMAXX Crossarm lineup that sets a new industry standard in durability delivering the longest life product in the industry.

We have maximized every element of our foam filled cross arm to meet all standards in lab testing and the real world.

### UV Protection

The Duracore beam bonds the UV protective layer directly to the core structure, eliminating the need for painting while ensuring that there are no entry points for corrosion. Painted systems allow degradation to occur once the surface is nicked or scratched.

### Longevity

Our radial Duracore design is stronger than traditional square designs reducing arm stress and durability. The crossarm's unique fiberglass composite structure provides a longer life than other brands.

Our Duraloc endcaps mechanically lock into the beam vs. the use of foamcore fill to attach endcaps. This mechanical locking system greatly reduces endcap failures.

**LONGEVITY**
**DURABILITY**
**PERFORMANCE**

### Field Friendly

- All of our best-in-class Duracast mounting hardware system outperforms welded solutions eliminating the chance of premature failure due to poor welds.
- Field drillable design.
- Lighter, safer, stronger, and more environmentally friendly than wood solutions.

Made in the USA

To learn more, visit
**MACLEANPOWER.COM/UVMAXX**
**OR SCAN CODE**

UVMAXX™

## UVMAXX Deadend Series

| UVMAXX Series | Catalog Number | Length (FT) | Ultimate Load Per Side (LBS) | Load Per Position | Weight (LBS) | Beam Size W x H |
|---|---|---|---|---|---|---|
| 5000 | PX08LD | 8 | 4,950 (3500) | 0.54 | 38 | 3-5/8" X 4-5/8" |
| 9000 | PZ08LD | 8 | 9,400 (6,750) | 0.24 | 71 | 4" x 6" |
| 10000 | PW08LD | 8 | 10,200 (7,300) | 0.35 | 48 | 3-5/8" X 4-5/8" |
| 12500 | PY08SD | 8 | 12,500 (10,050) | 0.22 | 57 | 4" x 6" |
| 15000 | PH08SD | 8 | 15,000 (9,000) | 0.13 | 72 | 3-5/8" X 4-5/8" |
| 5000 | PX10LD | 10 | 3,850 (2,900) | 1.11 | 44 | 3-5/8" X 4-5/8" |
| 9000 | PZ10LD | 10 | 7,350 (5,600) | 0.47 | 80 | 4" x 6" |
| 10000 | PW10LD | 10 | 7,950 (6,050) | 0.70 | 56 | 3-5/8" X 4-5/8" |
| 12500 | PY10SD | 10 | 11,000 (8,350) | 0.42 | 91 | 4" x 6" |
| 15000 | PH10SD | 10 | 13,500 (9,000) | 0.23 | 84 | 3-5/8" X 4-5/8" |
| 10000 | PW12LD | 12 | 6,500 (4,600) | 1.05 | 64 | 3-5/8" X 4-5/8" |
| 12500 | PY12SD | 12 | 9,000 (6,350) | 0.58 | 102 | 4" x 6" |
| 15000 | PH12SD | 12 | 10500 (8,400) | 0.46 | 96 | 3-5/8" X 4-5/8" |

## Deadend Catalog Numbering System

**P** **Y** **08** **SD** **003** **2E** **B**

| Beam Size (W x H) | | |
|---|---|---|
| X | = | 4.625" x 3.625" X-Light |
| Z | = | 6" x 4" Light |
| W | = | 4.625" x 3.625" Standard |
| Y | = | 6" x 4" Heavy |
| E | = | 6" x 4" X-Heavy |

| Crossarm Length | | |
|---|---|---|
| 08 | = | 8 feet |
| 10 | = | 10 feet |
| 12 | = | 12 feet |
| 14 | = | 14 feet |
| 16 | = | 16 feet |
| XX | = | Custom |

| Pole Mounting Options | | |
|---|---|---|
| SD | = | Heavy Iron Centermount (12" spacing) |
| LD | = | Standard Alum Centermount (12" spacing) |
| LX | = | Standard Alum Centermount (10" spacing) |
| LXA | = | Standard Alum Centermount (10" spacing, center eye attachment) |
| SA | = | Heavy Iron Centermount (12" spacing, center eye attachment) |

| Drill Pattern | | |
|---|---|---|
| 003 | = | REA type 03 Drilling (8') |
| 004 | = | REA type 04 Drilling (8') |
| 005 | = | REA type 05 Drilling (10') |
| XXX | = | Customer Defined Drilling (3 digit number assignment) |

| Eye Nut Options (Deadend only) | | |
|---|---|---|
| 2S | = | Single Sided Eyenuts at 2 Locations |
| 4S | = | Single Sided Eyenuts at 4 Locations |
| 2E | = | Double Sided Eyenuts at 2 Locations |
| 4E | = | Double Sided Eyenuts at 4 Locations |

| Optional Color | | |
|---|---|---|
| B | = | Brown |
| – | = | Gray |

NOTE: Ground clip kit FGXAGC-6S available. To specify with arm, add "-G" to the end of the catalog number.

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## UVMAXX Tangent Series

| UVMAXX Series | Catalog Number | Length (FT) | Ultimate Load Per Side (LBS) | Load Per Position | Weight (LBS) | Beam Size W x H |
|---|---|---|---|---|---|---|
| 5000 | PX08ST | 8 | 3,200 (2,350) | 0.68 | 32 | 3-5/8" X 4-5/8" |
| 5500 | PS08ST | 8 | 4,100 (3,050) | 0.72 | 32 | 3-5/8" X 4-5/8" |
| 10000 | PW08ST | 8 | 7,200 (5,400) | 0.6 | 43 | 3-5/8" X 4-5/8" |
| 12500 | PY08ST | 8 | 8400 (6250) | 0.22 | 57 | 4" x 6" |
| 15000 | PH08ST | 8 | 12,000 (9,000) | 0.15 | 57 | 3-5/8" X 4-5/8" |
| 5000 | PX10ST | 10 | 2,500 (1,800) | 1.28 | 38 | 3-5/8" X 4-5/8" |
| 5500 | PS10ST | 10 | 3,200 (2,500) | 1.34 | 38 | 3-5/8" X 4-5/8" |
| 10000 | PW10ST | 10 | 5700 (4,200) | 0.9 | 52 | 3-5/8" X 4-5/8" |
| 12500 | PY10ST | 10 | 6,600 (4,900) | 0.42 | 69 | 4" x 6" |
| 15000 | PH10ST | 10 | 11,000 (8,800) | 0.25 | 69 | 3-5/8" X 4-5/8" |
| 10000 | PW12ST | 12 | 4,700 (3,300) | 1.21 | 60 | 3-5/8" X 4-5/8" |
| 12500 | PY12ST | 12 | 4,700 (3,300) | 0.58 | 81 | 4" x 6" |
| 15000 | PH12ST | 12 | 10,000 (7,200) | 0.45 | 81 | 3-5/8" X 4-5/8" |

## Tangent Catalog Numbering System

**P** **X** **08** **ST** **003** **B** **I**

| Beam Size (W x H) | | |
|---|---|---|
| X | = | 3.625" x 4.625" Light Tangent |
| S | = | 3.625" x 4.625" Standard Tangent |
| W | = | 3.625" x 4.625" Heavy Tangent |
| Y | = | 4" x 6" X-Heavy Tangent |

| Crossarm Length | | |
|---|---|---|
| 08 | = | 8 feet |
| 10 | = | 10 feet |
| 12 | = | 12 feet |
| XX | = | Custom Length |

| Optional Color | | |
|---|---|---|
| B | = | Brown |
| – | = | Gray |

| Hardware | | |
|---|---|---|
| I | = | Crush resistant bushings in hardware holes |
| – | = | No bushings |

| Pole Mounting Options | | |
|---|---|---|
| ST | = | Tangent Centermount (Optional) |
| REA | = | Tangent Arm, no Centermount, REA Spec Drilling |
| UT | = | Tangent Arm, no Centermount, Non-REA Spec Drilling |

| Drill Pattern | | |
|---|---|---|
| 003 | = | REA type 03 Drilling (8') |
| 004 | = | REA type 04 Drilling (8') |
| 005 | = | REA type 05 Drilling (10') |
| XXX | = | Customer Defined Drilling (3 digit number assignment) |

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# *FIBERGLASS CROSSARM*
# INSTALLATION GUIDE

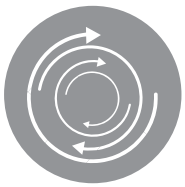
## DRILLING FIBERGLASS CROSSARMS

Carbide drill bits are recommended for field drilling UVMAXX crossarm products. Always ensure proper ventilation and safety equipment are used when drilling fiberglass. Take special care to ensure correct hardware location and orientation before the drilling of the crossarms. Apply a clear sealant or protective lacquer to any exposed fibers.

## SUGGESTED HARDWARE

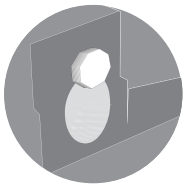
We recommend using our patented curved washers for deadends or 4"x4" washers (3/8" thick) on both sides of the crossarm for horizontal loading. When a full load is applied to a crossarm, our curved washers evenly distribute pressure over the entire crossarm surface crossarm. When insulator pins encounter extreme transverse or longitudinal loads, 4"x4" washers (1/4" thick) are also recommended. Our patented curved washers are shipped with all standard deadend crossarm orders. Consult our customer service team at 855-MPS-SHIP to request extra washers.

Care should be taken during installation of hardware not to damage the outer surface of the crossarm.



## RECOMMENDED TORQUE VALUES (DEADEND AND TANGENT)

Do not exceed 25 foot-pounds of torque when attaching hardware to the crossarm or mounting crossarm to a pole. (Fiberglass does not expand and contract like wood; thus, higher torque values do not ensure a tighter fit. Typical installations on wood crossarms may involve sinking the hardware into the wood in order to insure a tight fit since the wood arm shrinks over time unlike fiberglass. Double spring lock washers are sometimes used on pin attachments for this purpose as well and are not recommended for fiberglass installations. Any pin attachments or other hardware with cleats that are meant to dig into wood crossarms are also discouraged from use.)



## ASSEMBLY OF CROSSARM TO THE POLE

For ease of installation and safety, we recommend using the keyhole on the top of the center mount. The keyhole is designed to support the weight of the crossarm during installation for this purpose.

## FIBERGLASS CROSSARM LOADING

UVMAXX crossarms have published “Ultimate Load” and “Deflection” characteristics:

**Ultimate Load** is the maximum load that should be applied to the crossarm per side of the arm. Ultimate loading values per phase are dependent upon the number and position of phases. Loads above this level may cause damage to the crossarm.

**Deflection** is the displacement of the crossarm under load and is published in inches of displacement per 1000 lbs of load applied.