



120810

## Cable Driven Airless Masts

For mobile, portable, and fixed installations, this proprietary lead screw drive exerts equal force in both extend and retract modes. The tower raises and retracts at the same speed. There is no waiting for air or fluid pressure buildup or release.

### Installation

The tower's 10-inch outside diameter section mounts easily in a vehicle. The tower is designed so the base plate, gear box, and motor can be removed during installation. There are no protrusions on the ten inch section, so sealing the opening is straightforward.

### Operation

The tower is raised and lowered using a powered lead screw and cable system. The lead screw pushes up the second section and the remaining sections raise simultaneously via cables. Since the sections are raised simultaneously, the tower can be used at any height. The tower is stronger when used at a lower height, as all sections have a longer overlap. Tower retraction is also powered. The lead screw pulls down the second section and the specially designed pulldown cable system retracts the remaining sections at the same rate. This feature allows the tower to be retracted during strong wind conditions.

### Standard Equipment

- Base Plate
- Shipping Crate
- Black Anodize
- Operation & Maintenance Instruction Manual



### Standard Features

- Simultaneous extension of telescoping sections
- Fast erect time: 2 to 4 minutes
- Powered lead screw for raising and lowering
- High payload capability: 220 pounds all models
- Can be positioned at any height
- Low maintenance
- Available in 20, 42, 52, and 58 foot models

### Construction

- Section tubes: 6061-T6 High Strength Aluminum
- Lead Screw: Stainless Steel corrosion resistant
- Raising and lowering cables: 7x19 Aircraft Quality
- Raising and lowering bearings: Sealed Aircraft Quality
- Upper and lower slides: Replaceable Delrin components

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	MODEL NUMBER 10515	MODEL NUMBER 10500	MODEL NUMBER 10501	MODEL NUMBER 10502
ALL ESTIMATES	20	42	52	58
60'				57'8"
50'			51'5"	
40'		41'2"		
30'				
20'	20'			
10'	6'4"	8'	9'4"	14'11"
DESCRIPTION				
<b>Payload Capacity</b>	220 pounds	220 pounds	220 pounds	220 pounds
<b>Nested Height</b>	97 inches	106 inches	109 inches	112 inches
<b>Estimated Mast Weight</b>	275 pounds	380 pounds	575 pounds	625 pounds
<b>Number of Sections</b>	Four (4)	Seven (7)	Nine (9)	Ten (10)
<b>Tube Diameter Range</b>	7.0-10.0 inches	4.5-10.0 inches	3.5-10.0 inches	3.0-10.0 inches
<b>Average Wall Thickness</b>	.188 inches	.160 inches	.152 inches	.150 inches
<b>Deployment Time</b>	3.5 minutes	3.5 minutes	4.0 minutes	4.0 minutes
<b>Payload Sail Area when centered 12 inches above mast top (square feet)</b>	20 sq ft @ 50 MPH	16 sq ft @ 50 MPH	14 sq ft @ 50 MPH	14 sq ft @ 50 MPH

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OPTIONS	
MODEL NUMBER	DESCRIPTION
60002	NYCOIL Mast cable protector 1 inch width
60011	NYCOIL Mast cable protector 1¼ inch width
60013	NYCOIL Mast cable protector ¾ inch width - 50' or less
60014	NYCOIL Mast cable protector ¾ inch width - over 50'
10504A	Z-Arm - One Drop
02006	Z-Arm - Two Drops
02007	Z-Arm - Three Drops

Product specifications are subject to change.



Example of Dual Masts on Command Trailers.

