

# ALM SERIES Masts

U. S. Patent No. 9,371,663



**Models up to  
31 FT Height**

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**Rapid Deployment**

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**Light Weight**

•

**Temporary or  
Permanent  
Installations**

•

**ISO 9001:2008**

# HAM RADIO TOWER SOLUTIONS

**ALM SERIES - Aluminum Light-Weight Masts**

**US TOWER CORP.**

California, Kansas,  
Alabama

[www.ustower.com](http://www.ustower.com)

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# ALM SERIES - Aluminum Light-Weight Masts

The Aluminum Light-Weight Mast (ALM Series) was specifically designed for the Ham and competitive Ham operators. Constructed using US Tower's patented Falcon Mast Extrusion, the ALM Series optimized the strength to weight ratio making it the ideal choice for home use or field-day use. The ALM Series can be used as a temporary tower which may allow installation to occur without the need for a permit (always ensure that you are adhering to all local, state and federal ordinances when installing and operating the ALM Series). The ALM Series provides Ham operators of all types with a temporary or permanent solution that ensures their signal will be heard.

## Features:

- Lightweight Aircraft Grade Aluminum Construction
- Rapid Deployment
- Corrosion Resistant
- Ideal for Temporary or Permanent Installations
- Built-in Pivot Clevis for Easy Tilt-Up
- Adjustable Height Winch
- High-Ratio Winch
- High Strength-to-Weight Ratio
- Low Maintenance
- 4 ½ FT, 2" O.D. Antenna Mounting Mast with Universal Rotor Mount Plate

## Options:

- Crank Tilt-up Raising Fixture
- ALM Rotating Fixture
- Antenna Mast Rotating Fixture
- Hitch Mount Fixture
- Wall Mount Fixture
- Foundation Mount Fixture
- Standalone Base
- Drive-On Mast Stand
- Cable Rings
- Motor or Hand Winch Activated System
- Mast Rest Fixture *(for antenna mounting and maintenance)*



## ALM SERIES SPECIFICATIONS

	ALM-16	ALM-21	ALM-26	ALM-31
<b>Mast Extended Height</b>	<b>16 FT</b>	<b>21 FT</b>	<b>26 FT</b>	<b>31 FT</b>
<b>Mast Retracted Height</b>	<b>78 IN</b>	<b>83 IN</b>	<b>86.5 IN</b>	<b>88.5 IN</b>
<b>Mast Weight</b>	<b>44 LBS</b>	<b>63 LBS</b>	<b>88 LBS</b>	<b>115 LBS</b>
<b>Number of Mast Sections</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Maximum Payload Weight</b>	<b>50 LBS</b>	<b>50 LBS</b>	<b>50 LBS</b>	<b>50 LBS</b>
<b>Maximum Sail Area</b>	<b>9 SQFT</b>	<b>9 SQFT</b>	<b>8 SQFT</b>	<b>8 SQFT</b>
<b>Maximum Wind Speed</b>	<b>65 MPH</b>	<b>65 MPH</b>	<b>65 MPH</b>	<b>65 MPH</b>

Notes: 1. Twist, Sway and Deflection may vary depending on the type of payload.

2. Weight excludes any payload or options.

3. All values shown are approximate and subject to change at the sole discretion of the manufacturer without notice.

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