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LM-SMWB-HLM100-ATM-WSM-MOD1

112' Hydraulic Megatower™ Mast - Skid Base - Red LED Strobe Light, Antenna Mount - Auto Retract

Product ID: 278868

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

LM-SMWB-HLM100-ATM-WSM-MOD1 Skid Mounted Megatower™

Mast Specs

Tower Length: 30` to 100`
Materials: Carbon Steel
Finish: Galvanized
Operation: Hydraulic (Upright and Extension)
Safety: Wind Speed Monitoring System/Auto Retract
Mount: Antenna Mounting Platform @ Top of Mast
Warning Light: Red LED Strobe Light
Capacity: 3,000 lbs

System Specs

Communications Shelter: 8` x 12` w/ Multi-coupler/Combiner
IT Racks: (3) 19" x 7` @ Floor of Comm Shelter w/ 36" Clearance
Retractable Cable Reel: (4) LMR400UF Coax Cables Terminated on a Bulkhead Connector - Shorter Patch Coax Cables Provided
Shore Power Cable Length: 25`

Skid Mount Specs

Materials: Steel

Quick Summary

Cold Weather Package Factory Installed
33.5` to 100` Mast
Hydraulic Aluminum Mast
Steel Construction Skid Base
Hydraulic Mast Operation
Powered Boom Deployment
Wind Speed Monitoring System
Auto Retract/Safety Stop

Skid Dimensions: -
Height (Mast Collapsed): -
Height (Mast Extended): -
Footprint (Outriggers Extended): 13.7` x 18.7`
Outriggers: (8) 4' Retractable Outriggers
Windload Rating (before Auto Retract): 35mph w/ Guy Wires to Outriggers; 50 mph w/ Guy Wires to Ground - 60` Out from Base
Safety: Anchor
Weight: -
Shipping: Common Freight
Shipping Weight: -

Special Orders - Special Requirements

Contact us for special requirements

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The LM-SMWB-HLM100-ATM-WSM-MOD1 from Larson Electronics is a Skid Mounted Hydraulic Megatower™ with heavy-duty industrial applications. This skid mounted fold over 7-stage hydraulic mast provides a safe and effective way for operators to quickly deploy customer-provided equipment, such as multiple antennas, to heights above 65`. This mining grade light tower features a hydraulic ram upright assist and a hydraulic mast with a red LED flashing strobe lamp. The entire assembly is mounted onto a skid base, allowing operators to transport this fold over boom from location to location. A wind speed monitoring system automatically adjusts the height of the mast, upon sensing the presence of strong winds. Operators are provided access to a communications shelter, three IT racks, a 25-foot shore power cable and a retractable reel system with four LMR400UF coax cables terminated on a bulkhead connector.
PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO LIGHT MASTS OR LIGHT TOWERS
The LM-SMWB-HLM100-ATM-WSM-MOD1 is a self contained antenna tower package secured on a skid base. This unit includes a hydraulic telescoping mast which can elevate customer-provided equipment, including antennas, to heights above 65`. This heavy-duty Megatower is specifically made for extremely rough applications and can be transported easily.
This telescoping seven stage hydraulic light mast from Larson Electronics is designed to allow operators to quickly and safely deploy customer-provided equipment in locations where devices must be elevated to heights above 65`. This heavy-duty mast can be collapsed to 30` for applications where a smaller footprint is required. The tower is constructed of carbon steel tubing with 2` foot of overlap per section. The mast is elevated using an included hydraulic ram and extended to its full height using a second hydraulic system.
System Components: The skid-mounted mast features a 16" x 16" mounting platform located at the upper section of the mast, which provides a strong and stable platform for mounting customer-provided equipment (maximum weight capacity of 3,000 lbs). A high intensity flashing LED red strobe lamp is accessible on the tower for signaling aircrafts in the surrounding area. An 8` x 12` white, communications shelter (white) houses three, 19" x 7` IT racks that are secured to the floor of the shelter with 36" of clearance for seamless mobility. The shelter is equipped with cabling pass-through components, as well as a multi-coupler and combiner system for the use of several repeaters on two antennas. A retractable reel with four LMR400UF coax cables (terminated on a bulkhead connector) with additional shorter patch coax cables can be found inside the shelter.
Telescoping Boom: The hydraulic telescoping boom is constructed of carbon steel with a galvanized finish and extends to 65`. This boom is raised from and lowered to the folded position by a single hydraulic ram and extended or retracted by a second hydraulic system.
Auto Retract: To prevent damage and shaking from strong winds during operation, this tower is equipped with a robust wind monitoring system. When exposed to strong winds, such as 40 mph, the system automatically retracts the mast for safe operation. In a retracted state, operators must re-adjust the height of the mast back to its original height (or another preferred height). This cutting-

edge feature is designed to improve safety at industrial work sites.
Wiring/Controls: Mast elevation is controlled by a push button switch to operate the hydraulic ram allowing operators to raise the mast to the upright position. The vertical deployment is operated by a second push button switch allowing operators to extend it to its full 100` height or retract it to the collapsed height.
Skid Mount: The entire unit is mounted onto a large skid mount system for incorporating all of the necessary equipment/components in one, readily available package. This skid mount includes a front mounted storage area for stowing tools and accessories. The skid mount is finished in industrial grade Dupont™ paint for protection against rust and corrosion and provides an attractive finish. Overall dimensions of the entire mounting system and boom assembly in the stowed for travel configuration is 14` long by 5.7` wide. Pickeyes located at every corner of the unit are available for transporting via crane lift or air transport in remote locations.
Six 7,000 lbs hand crank jacks are used for raising the unit up off the ground, and hand crank jacks mounted on extending outriggers are used for leveling and stabilizing the assembly. Each of the jacks are attached to a pivoting outrigger. The jacks can be leveled by hand crank or attachment provided for power drills. A total of eight outriggers can be extended 4` out from the side of the unit for added stability. Custom builds can be provided for higher wind speed resistance when fully raised.
An anchor at the bottom of the skid provides stability, which can be deployed to a concrete pad.
We offer a choice of finishing, equipped light heads, and with or without gensets. These towers can be fitted with Larson Electronics line of high output light heads, or customize the mast head to meet the mounting requirements for your equipment. Optional diesel generators and fuel cells can be equipped from factory, or retrofitted after purchase.
Cold Weather Package: The LM-SMWB-HLM100-ATM-WSM-MOD1 is designed to withstand extreme cold environments and harsh winters. The hydraulic system is equipped with a de-icing system to prevent the hydraulic lines and system from freezing from moisture building within system. This de-icing system uses an environmentally friendly (non-toxic) fluid. All hydraulic lines are equipped with cold weather rated hydraulic hoses rated for -65°C and fitted with metallic hardware. All the hydraulic controls are housed within an insulated and weather tight enclosure. This hydraulic control box features 1/2" thick polystyrene foam insulation and heat trace.
The hydraulic system features -65°C cold weather rated rubber hydraulic hoses with metallic fittings and a cold weather rated high viscosity hydraulic fluid. All electrical components are wired using cold weather rated SOOW cable with rated to -50°C that features high flexibility, and extreme abrasion, acid, oil, and water resistance even in sub-zero climates.
Suggested Applications: Elevated mounting, communication devices, cameras, temporary lighting, construction sites, outdoor events, remote job sites and any other application that requires a self-contained configuration, covering a very large area effectively.
At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)


MEGATOWER

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Product ID: 278868

Export Control Classification Number (ECCN): EAR99

Options:

LM-SMWB-HLM100-ATM-WSM-MOD1-Voltage

Example: LM-SMWB-HLM100-ATM-WSM-MOD1-120.240V-1P

Voltage	
120/240V 1P	-120.240V-1P
240V/120 3P	-240V.120-3P
208Y/120V 3P	-208Y.120-3P

Links (Click on the below items to view):

- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**