



LMS 85 HWLBSW MODEL MOBILE TOWER

- 85' TALL, 5 EA SECTION LEGS ASTM A500-07, A53-12, GRADE B, US CARBON STEEL *Lifetime Warranty*
- TILT BASE ASSEMBLY INTEGRATED INTO TRAILER. *Lifetime Warranty*
- 3 SECTOR ANTENNA MOUNT / CUSTOM MOUNT DESIGNS AVAILABLE
- 5' STARR MOUNT FOR LARGE MICROWAVE DISH PLACEMENT **OPTIONAL** *Lifetime Warranty.*
- TOWER AND TILT ASSEMBLY PAINTED FINISH FOR ALL WEATHER
- 900:1 AND 446:1 ADJUSTABLE WORM DRIVE ALLOWING TOWER TO BE SAFELY DEPLOYED AT ANY HEIGHT
- CLIMBABLE MAN-RATED TOWER WHEN EQUIPPED WITH **OPTIONAL** SAFETY CLIMB, LOCK-OUTS ALSO AVAILABLE
- BACK-UP KEY FOR OPERATING TOWER ALLOWING TOWER TO BE REAISED OR LOWERED WITH LOAD MANUALLY OR WITH CORDLESS DRILL, CLIENT'S OPTION.
- TILTED FROM HORIZONTAL TO VERTICAL WITH WINCH AND 3/8 CABLE
- 1 MINUTE FROM HORIZONTAL TO VERTICAL WITH 950LB CUSTOMERS HEAD LOAD
- 11 MINUTE SINGLE STAGE FULL TOWER ERECTION WITH 950LB LIFT
- 3 EA HEAVY DUTY UPPER AND LOWER LIMIT SWITCHES
- INGRESS PROTECTION IP65, WEATHERPROOF (LOCKING) CONTROL PANEL
- 25' FULL OPERATION REMOTE CONTROL CABLE **OPTIONAL**
- 110VAC 60HZ / 240VAC 50HZ
- 2 EA SWITCHES FOR TOTAL DEPLOYMENT CONTROL
- 2 EA ILLUMINATED FUNCTION LAMPS FOR TILTING AND TELESCOPIC
- 1 EA RED KEYED POWER DISCONNECT FOR ALL FUNCTION CONTROLS
- THEFT PROOF CABLE STORAGE REEL WITH GREASE NIPPLE *Lifetime Warranty.*
- 6 EA CABLE GUIDE RINGS *Lifetime Warranty.*
- PATENTED DERLIN MAST GUIDE BLOCKS
- ALL TOWER SECTIONS ARE OPERATED ONLY WITH CERTIFIED 3/8" DIAMETER 7/19 GALVANIZED AIRCRAFT QUALITY.
- ALL CABLES HAVE BEEN MARINATED IN LPS3 FOR LONG LIFE ANTI CORROSION FOR HARSH SALT WATER ENVIRONMENTS. CERTIFIED BREAK STRENGTH OF 14,000lb.
- 4", 5" AND 6" GALVANIZED STEEL SMART CUSTOM BEARINGS FITTED PULLEYS MARINATED IN LPS3
- ALL ECO-GUARD (TM) ECO COATED GRADE 9 BOLTS HAVING GREATER TENSILE STRENGTH THAN GRADE 8, DESIGNED FOR USE IN HIGH-STRESS AND HIGH STRENGTH APPLICATIONS. COATING THAT MEETS 1000HRS OF SALT SPRAY CORROSION RESISTANCE FOR A MAXIMUM TENSILE STRENGTH OF TYPICALLY 180,000PSI
- MAIN DRIVE MOTOR IS WASH-DOWN DIRECT DRIVE WORM GEAR EXTREME ENVIRONMENT W/MOISTURE DRAIN. **OPTIONAL STAINLESS-STEEL MOTOR CASING**
- ALL UNITS ARE DESIGNED TO WITHSTAND THE MOST SEVERE -120 / 160 DEGREES FAHRENHEIT CONDITIONS
- CAN BE OPERATED IN MAXIMUM 99% HUMIDITY
- GALVANIZED STEEL SAFETY GUARDS IN PLACE PER "OSHA SAFETY GUARD STANDARDS" ON ALL ROTABLE AND PROTECTIVE GRATE SCREEN OVER DUAL CABLE ROTABLE DRUMS, AS WELL AS END SHAFTS *Lifetime Warranty*
- ALL LMS UNITS HAVE REDUNDANT MANUAL DEPOLYMENT SYSTEMS. BOTH TILT AND ERECTION, TRUE EMERGENCY UNITS IN THE FIELD. *Lifetime Warranty*



TOWER TRAILER:

- STRUCTURAL OUTRIGGERS *Lifetime Warranty*
- DIAMOND PLATE 11 GAUGE DECK
- DECKS WATER-FALL SIDES ADD 400% TO STRENGTH VS. FLAT STEEL WELDED TO RAIL *Lifetime Warranty.*
- ELECTRICAL COMPONENTS BONDED TO FRAME FOR SYSTEM GROUNDING
- ALL STEEL CONSTRUCTION 10" WIDE BEAM CONSTRUCTION, NO ALUMINUM
- 1/4" LINE X SPRAYED ON FULL DECK AND FRONT OF TRAILER FOR ANTI SLIP
- ANTI THEFT REMOVABLE TONGUE
- 11 HOLE ADJUSTABLE HITCH COUPLER CHANNEL *Lifetime Warranty.*
- REMOVABLE 2 5/16" BALL HITCH
- 7 BLADE TYPE CONNECTOR
- 12,000 LB SIDE PULL SPRING LOADED TONGUE JACK
- EMERGENCY TRAILER BREAKAWAY DEVICE
- 2 EA TWO HOLE 1/0 GROUND LUGS
- 2 EA HEAVY DUTY SAFETY CHAINS
- 4 EA TUBE GROUND ROD ATTACH POINT HOLDERS WELDED TO OUTRIGGERS
- 1 EA GROUND ROD STORAGE TUBE BUILT IN TRAILER DECK, GREEN CAP
- 6 EA ADJUSTABLE 8,000 LB LOCKING JACKS W/ PADLOCK PROVIDED
- 6 EA GALVANIZED 2' X 2' OUTRIGGER JACK PADS
- 6 EA SLIDE OUTRIGGERS WITH NEEDLE BEARING FOR EASY PULL-OUT
- 6 EA TAMPER PROOF LOCKING OUTRIGGER JACKS
- 6 EA TRAILER LEVEL INDICATORS ON TWO PLANES, GROUND VISIBLE
- 3 EA 7,000LB SPRING AXLES EACH ELECTRIC BRAKE
- FULL SIZE SPARE UNDER DECK
- ALL WEATHER PADLOCKS AND HIDE-A-KEY
- 7 EA 16 PLY 215-75-17.5 RADIAL TIRES
- 7 EA 17.50 POWDER COATED SOLID STEEL WHEELS *Lifetime Warranty.*
- 6 SETS WHEEL SETS LOOSE NUT INDICATORS
- MUD FLAPS
- 1 EA TRAILER STEP-UP, WITH 1EA STEP HAND RAIL
- DOT AND TRANSPORT CANADA LED LIGHTING PACKAGE AND REFLECTIVE TAPE
- 36" STEEL LOCKING ALUMINUM POWDER COATED BLACK DIAMOND PLATE TOOL BOX SECURED
- FLASHING EMERGENCY LIGHTS
- MAXIMUM ANGLE OF TERRAIN IN DEGREES FOR SAFE TRAILER DEPLOYMENT UP TO 7 DEGREES SIDE TO SIDE, 3.5 DEGREES FRONT TO BACK WITHOUT ADDITIONAL BLOCKING
- GUY RADIUS AND ADDITIONAL ANCHOR DESIGN DEPENDENT ON LOADING AND WINDS TO BE DETERMINED BY ENGINEERING
- 12 POSITION GUY KIT, UNGUYED FOOT PRINT SAME AS OUTRIGGER FOOT PRINT
- EQUIPPED WITH LIFTING HOOKS IN ALL FOUR CORNERS FOR HELICOPTER LIFT
- MIL-STD 209K TRAILER TIE-DOWN AND LIFTING LUGS
- SALT WATER AND MOIST CLIMATE PROTECTION REQUIRES SPECIAL SEAL COATING OVER THE WHOLE UNIT
- ANY SALT EXPOSURE ON SHIP AND PROTECTS IN NORMAL OPERATIONS



TOWER TRAILER CONTINUED,

- ZEREST ANANOL SPRAY
 - SPRAY OVER WHOLE UNIT LESS DECK AND ALL NON-GALVANIZED HARDWARE IS SPRAYED WITH EVERBRITE
1. COMPREHENSIVE OPERATIONS MANUAL
 2. BEST WARRANTY IN INDUSTRY AND *LIFETIME WARRANTY ITEMS NOT SEEN IN INDUSTRY*
 3. 24 HOUR SUPPORT
 4. HIGH WIND ALL TERRAIN OFF-ROAD APPLICATIONS
 5. CAN BE PULLED WITH STANDARD 3/4 CIVILIAN OR MILITARY TRUCK
 6. BUILT FOR ROUGH / INACCESSIBLE TERRAIN APPLICATIONS
 7. ENGINEERED MEET DEMANDS OF ALL MILITARY STATIC, COMMUNICATIONS AND ENVIRONMENTALS
 8. AIRCRAFT, AND HELICOPTER TRANSPORTABLE, ALSO CONTAINER STORED AND TRANSPORTABLE A REAL PLUS.
 9. U.S. DEPARTMENT OF COMMERCE, BUREAU OF INDUSTRY AND SECURITY APPROVED EXPORTABLE GOODS
 10. EXCEEDS ENVIRONMENTAL LOW TEMPERATURE IN ACCORDANCE WITH MIL-STD 810 PROCEDURE II: OPERATIONAL COLD START AND/OR STORAGE.
 11. HIGH TEMPERATURE IN ACCORDANCE WITH MIL-STD-810 PROCEDURE 1 WITH SOLAR LOADING
 12. TRANSPORT SHOCK, TRANSPORT VIBRATION TESTED
 13. MILITARY TRANS-PORTABILITY
 14. WEIGHT AND WEIGHT DISTRIBUTION TESTING
 15. BRAKE AND HANDLING
 16. GRADING/SLOPE @10-30%
 17. STEERING AND HANDLING
 18. TURNING DIAMETER
 19. STATIC ROLL-OVER
 20. STABILITY AND HANDLING
 21. TOWING CAPABILITY
 22. DEPLOYMENT TIME 1 MINUTE FOR VERTICAL LIFT AND ERECTION UNDER 30 MINUTES
 23. MAX AZIMUTH (TWIST) PLAY LESS THAN .75 DEGREES
 24. LANDA MOBILE SYSTEMS, LLC OFFERS FREE TRAINING FOR ALL OWNER OPERATORS
 25. DATA MATRIX BAR CODE TAGGING ON ALL GOVERNMENT ORDERS INDICATING MFG, VIN NUMBER, SALE DATE, PURCHASER



12560 LBS SHIPPING WEIGHT
 24000 LBS GVWR
 11440 LBS TRAILER USE FULL LOAD
 46' LONG TOTAL UNIT
 10' 4" TALL, HORIZONTAL NESTING
 8' 6" WIDE TRAILER
 26' TOWER RETRACTED MINIMUM HEIGHT
 12560 LBS SHIPPING WEIGHT

General tower specifications

Specifications	Ratings	Facts
Tower Height Extended	+/- 85'0" AGL	Six (5) sections-17'0" (5.18m) Each
Tower Height Nested	+/-22ft Vertical Nesting	+/-10'4"-Horizontal Nesting
Maximum operational wind speed	75MPH, contingent on client load	Actual Rating per Client-specific load
Maximum survival wind speed	95mph, contingent on client load	Actual Rating per Client-specific Load
Maximum wind surface area	30 Sq. Ft	
Maximum wind speed at Erection	To 35Mph (56km/hr.)	
Payload Weight at Top of Tower	Max to 2000lbs	Certified to 2000Lbs
Payload Wt. Top of Tower Single Stage	Max to 950lbs	Certified to 950Lbs
Payload Wt. Top of Tower Dual Stage	Max to 2000lbs	Certified to 2000Lbs
Payload Weight on Tower During Tilt	Max to 950lbs	Certified to 950Lbs
Erection/Retraction Speed	Single Stage Process	Direct Drive +/-11.3Min.
Erection/Retraction Speed	Dual Stage Process	Direct Drive +/-22Min.
Hydraulic Tilt Speed	Dual 3" Cylinder	Direct Drive +/-1Min.
Power Requirement to Operate Tower	Electric Drive System	110VAC / 60Hz / 1PH
Power Requirement to Operate Tower	Electric Drive System	240VAC / 50Hz / 1PH
Erection/ Retraction Motor HP	2.5HP 1-Phase-Optional single gear	Dual Stage Configuration Standard
Single Gear Box Ratio	Direct Drive	Min. 446:1
Dual Gear Box Ratio	Direct Drive	Min. 900:1
Motor RPM	Direct Drive	1725 Each (60Hz)

Approximate standard material specifications

Standard superior Tower Legs - Grade B, US Carbon Steel	ASTM A500-07, A53-12
Optional Legs - HSS ASTM DOM	1026 Alloy/A513 ~ 70-95 Ksi Yield Strength
Structural Shapes Solid Rod, Bars, Angle, Etc.	ASTM A-500 ~ 50 Ksi Yield Strength
Structural Steel Square Tube	ASTM A-500 ~ 50 Ksi Yield Strength
Horizontals~ Flat Bar	ASTM A-500 ~ 50 Ksi Yield Strength
Welded E70 Electrode	AWS D1.1 Latest Rev.
Hot Dipped Galvanize Tower ~ ASTM A-123	ASTM A-500 ~ 50 Ksi Yield Strength
Hardware/Bolts	ECO Guard Grade 9 Bolts

Not including standard wear items i.e. electrical, brakes, tires, bearings, jacks, rubber and plastics).

LIFETIME WARRANTY AS DESCRIBED ON WEBSITE [HTTPS://LANDAMOBILESYSTEMS.COM/COMPANY/LMS-WARRANTY](https://landamobilesystems.com/company/lms-warranty)