



CARITEX 106 CR MODEL MOBILE TOWER

- 106' TALL, 6 EA SECTION ASTM A500-07, A53-12, GRADE B, US CARBON STEEL *Lifetime Warranty*
- OPTIONAL HSS ASTM DOM SECTION LEGS *Lifetime Warranty*
- TRAILER INTEGRATED TOWER TILT BASE ASSEMBLY. *Lifetime Warranty*
- 3 SECTOR ANTENNA MOUNT / CUSTOM MOUNT DESIGNS AVAILABLE
- 5' STARR MOUNT FOR LARGE MICROWAVE DISH PLACEMENT *OPTIONAL Lifetime Warranty.*
- 2 EA TORSION ROD *Lifetime Warranty.*
- 16 EA ½" X 4" STIFFENER PLATES, A500 US STEEL *Lifetime Warranty.*
- TOWER HOT DIPPED GALVANIZED FINISH EN ISO 1461/ASTM A123/CSA G164 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
- BACKUP EMP KEY OPERATION ALLOWING TOWER TO BE RAISED OR LOWERED WITH A CORDLESS DRILL IN CASE OF REMOTE NO POWER. TILTED TO THE VERTICAL POSITION BY 2 EA 4" HEAVY DUTY HYDRAULIC CYLINDERS WITH CHROME -PLATED SOLID 2" SHAFT. *Lifetime Warranty.*
- TOWER IS AUTOMATICALLY ELEVATED BY 2 ½ HP TOTALLY ENCLOSED FAN COOLED (TEFC), WASH DOWN RATED, DIRECT DRIVE STAINLESS SHAFT WINCH MOTOR AND HYDROLIC GEARBOX ASSEMBLY WITH NO BELTS OR CHAINS
- 1 MINUTE FROM HORIZONTAL TO VERTICAL WITH 2500LB CUSTOMERS HEAD LOAD
- 11 MINUTES FULL TOWER ERECTION SINGLE STAGE PROCESS OFFERS REDUCED LIFT WEIGHT OR 22 MINUTES DUAL STAGE FULL 2500LB LIFT
- HEAVY DUTY UPPER AND LOWER LIMIT SWITCHES
- INGRESS PROTECTION IP65, WEATHERPROOF (LOCKING) CONTROL PANEL
- 25' FULL OPERATION REMOTE CONTROL CABLE *OPTIONAL*
- 110VAC 60HZ / *OPTIONAL* 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
- TILTED TO THE VERTICAL POSITION BY 2 EA 4" HEAVY DUTY HYDRAULIC CYLINDERS WITH CHROME PLATED SOLID 2" SHAFT. 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 CABLE.



MOBILE TOWER CONTINUED,

- ALL CABLES HAS 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 DEGREESFAHRENHEIT CONDITIONS
- GALVANIZED STEEL SAFETY GUARDS ON PLACE ON ALL ROTATABLE COMPONENTS PER "OSHA SAFETY GUARD STANDARDS" ON ALL ROTATABLES AND PROTECTIVE GRATE SCREEN OVER DUAL CABLE ROTATABLE DRUMS, AS WELL AS END SHAFTS. *Lifetime Warranty*
- LMS NEVER FAIL KEY SYSTEM INCLUDED. LMS UNITS ARE SECURE WITH BOTH TILT AND ERECTION SYSTEMS. BACKED UP AND DESIGNED TO BE OPERATED BY HAND WITH LMS KEY SYSTEM AND A CORDLESS DRILL IN CASE OF NO POWER. THE LATTICE TOWERS ARE 100% REDUNDANT BACK-UP *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 ANTISLIP
- ANTI THEFT REMOVABLE TONGUE
- 11 HOLE ADJUSTABLE HITCH COUPLER CHANNEL *Lifetime Warranty.*
- REMOVABLE 2 5/16" BALL HITCH AND PINTLE INCLUDED
- 7 BLADE TYPE CONNECTORS
- 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
- 4 EA ADJUSTABLE 12,000 LB LOCKING JACKS W/ PADLOCK PROVIDED



TOWER TRAILER, continued

- 4 EA GALVANIZED 2' X 2' OUTRIGGER JACK PADS
 - 4 EA SLIDE OUTRIGGERS WITH NEEDLE BEARING FOR EASY PULL-OUT
 - 4 EA TAMPER PROOF LOCKING OUTRIGGER JACKS
 - 4 EA BUBBLE TYPE TRAILER LEVEL GUIDES
 - 2 EA 8,000LB AXLES EACH ELECTRIC BRAKE
 - TORSION AXLE INDEPENDENT SUSPENSION
 - FULL SIZE SPARE UNDER DECK
 - ALL WEATHER PADLOCKS AND HIDE-A-KEY
 - 5 EA 16 PLY 215-75-17.5 RADIAL TIRES
 - 5 EA 17.50 POWDER COATED SOLID STEEL WHEELS *Lifetime Warranty.*
 - 4 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
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1. COMPREHENSIVE OPERATIONS MANUAL, BEST WARRANTY IN INDUSTRY AND *LIFETIME WARRANTY ITEMS NOT SEEN IN INDUSTRY*, 24 HOUR SUPPORT *NOT SEEN IN INDUSTRY*
 2. HIGH WIND ALL TERRAIN OFF-ROAD APPLICATIONS
 3. CAN BE PULLED WITH STANDARD 3/4 CIVILIAN OR MILITARY TRUCK
 4. BUILT FOR ROUGH / INACCESSIBLE TERRAIN APPLICATIONS
 5. ENGINEERED MEET DEMANDS OF ALL MILITARY STATIC, COMMUNICATIONS AND ENVIRONMENTALS BEING AIRCRAFT, HELICOPTER AND CONTAINER STORED AND TRANSPORTABLE A REAL PLUS.
 6. DATA MATRIX BAR CODE TAGGING ON ALL GOVERNMENT ORDERS INDICATING MFG, VIN NUMBER, SALE DATE, PURCHASER



AFTER CONTACTING ALL THE LABORATORIES THAT PROVIDE THE TESTING FOR MIL-STD-810G WE HAVE BEEN NOTIFIED THAT THE EQUIPMENT IS TOO LARGE FOR ANY TESTING LABORATORY IN THE UNITED STATES THAT PROVIDES MIL-STD-810G STANDARD TESTING. THE REAL-WORLD EXPERIENCE AND DEPLOYMENTS OF THE LANDA MOBILE SYSTEMS TOWERS HAVE PROVEN ITSELF IN ALL CLIMATES AND CONDITIONS TO MEET OR EXCEED THE MIL-STD-810G STANDARDS. WE WARRANT OUR LATTICE AND TILT UP CRANK TOWERS UNDER OUR WARRANTY TO MEET OR EXCEED THE BELOW. LANDA MOBILE SYSTEMS LATTICE PRODUCTS UNDER GOV'T (NAVY) ACQUISITIONS RULES WORKED THROUGH THE APPROVAL TESTING PROCESS, BY THEIR ACCEPTANCE TESTING STANDARDS. BAE IMPOSED ADDITIONAL GOV'T REQUIRED ACCEPTANCE TEST PROCEDURE WHICH MANDATED THEY TEST EVERY ASPECT OF THE TOWER SYSTEM WITH US AS A WITNESS BEFORE WE WOULD ACCEPT IT (WHICH, HAVING GONE THROUGH ONE WITH THEM, BAE QUOTE LED BUYER "I WOULD RECOMMEND FOR ANYONE, COMMERCIAL OR GOVERNMENT."

US DEPARTMENT OF COMMERCE, BUREAU OF INDUSTRY AND SECURITY APPROVED EXPORTABLE GOODS.

- EXCEEDS ENVIRONMENTAL LOW TEMPERATURE IN ACCORDANCE WITH MIL-STD-810 PROCEDURE II : OPERATIONAL COLD START AND/OR STORAGE.
- HIGH TEMPERATURE IN ACCORDANCE WILL MIL-STD-810 PROCEDURE I WITH SOLAR LOADING.
- SALT FOG OR HUMIDITY IN ACCORDANCE WITH MIL-STD-810 METHOD 507.4 .
- BLOWING RAIN IN ACCORDANCE WITH MIL-STD-810 METHOD 506.4
- BLOWING SAND AND DUST – IN ACCORDANCE WITH MIL-STD-810 METHOD 510.4 PROCEDURE II
- TRANSPORT SHOCK
- TRANSPORT VIBRATION
- MILITARY TRANS-PORTABILITY TESTING
- SHOCK AND VIBE TO TEST
- WEIGHT & WEIGHT DISTRIBUTION TESTING
- BRAKING & HANDLING
- GRADING/SLOPE @ 10-30%
- STEERING & HANDLING
- TURNING DIAMETER
- STATIC ROLL-OVER
- STABILITY & HANDLING
- TOWING COMPATIBILITY
- STRUCTURAL STEEL A-36
- HARDWARE UPGRADED FROM A325 BOLTS BEING A SINGLE USE BOLTS THAT CAN BE GALVANIZED TO SPECIAL GRADE 9 COATED WITH ECOCOAT, MUCH DURABLE AND LONGER LASTING THAN GALVANIZING.
- MAX SURVIVAL WIND SPEED 140MPH
- EXCEEDS MIL-STD-810G
- DEPLOYMENT TIME 1 MINUTE FOR VERTICAL LIFT AND ERECTION UNDER 30MIN
- MAX AXIMUTH (TWIST) PLAY LESS THAN .75 DEGREE
- LMS OFFERS FREE TRAINING FOR ALL OWNER OPERATORS.



FITS IN A 40FT CONTAINER

10,500 POUNDS SHIPPING WEIGHT
 6800 LBS EMPTY TRAILER
 16,000 LBS GVWR
 5,500 LBS TRAILER USE FULL LOAD
 32.5' LONG TOTAL UNIT
 7' 2" TALL, HORIZONTAL NESTING
 7' 7" WIDE TRAILER
 26' TOWER RETRACTED MINIMUM HEIGHT
 2500 LBS TILT HEAD LOAD
 2500 LB HEAD LOAD
 22' DECK
 45' x 20' DEPLOYED OUTRIGGER FOOTPRINT

General tower specifications

Specifications	Ratings	Facts
Tower Height Extended	+/- 106'0" AGL	Six (6) sections-21'0" (6.4m) Each
Tower Height Nested	+/-22ft Vertical Nesting	+/-10'4"-Horizontal Nesting
Maximum operational wind speed	65MPH, contingent on client load	Actual Rating per Client-specific load
Maximum survival wind speed	85mph, 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 1134kg/2500lbs	Certified to 2500Lbs
Payload Wt. Top of Tower Single Stage	Max to 612kg/1350lbs	Certified to 950Lbs
Payload Wt. Top of Tower Dual Stage	Max to 1134kg/2500lbs	Certified to 2500Lbs
Payload Weight on Tower During Tilt	Max to 612kg/1350lbs	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).

Units are manufactured in the USA / sales@caritex.com / TEL 809 334 1424 / TEL 305 7674569 / TEL +507 833 9084

