

TM 54-80 “MANTIS” MOBILE TELESCOPING TOWER SYSTEM



- [UNGUYED 90 ft tower](#)
- [C-130 Transportable](#)
- [2 Person Deployment in under 15 Minutes](#)
- [Redundant Safety Features](#)

Trailer Data Summary

System Model	Travel Height Dimensions	Trailer Dimensions	Axles	Trailer Weight (GVWR)	Towers Available with Trailer	Brakes Options
	in Feet	in Feet	#	in lbs		
TM 54-80 System with Telescoping Tower						
‘MANTIS’ TM 54-80	8.67	21.9 x 7.3	2	7,000	TU-32, TU-40, TU-50, TU-65, TU-90	Yes, & Others

Tower Data Summary

Tower Model	Max Height	Max Top Load	Wind Operational Speed	Sail Area in Sq Ft	Wind Operational Speed With guys	Tower-Weight	Manual or Powered
	in Feet	in lbs	in MPH				
UNGUYED & GUYED Tower Examples							
TU-32	32	225	70	12	90	304	Electric
TU-40	40	225	70	12	90	296	Electric
TU-50	50	225	70	12	90	234	Electric
TU-65	71	225	70	12	90	510	Electric
TU-90	92	225	70	12	90	720	Electric

ALUMA TOWER COMPANY, INC.

- ALUMA Tower Company has been designing and manufacturing aircraft grade aluminum telescoping towers integrated onto our purpose built trailers for 40+ years. Our trailer mounted telescoping towers are engineered to TIA/EIA-222-G standards, and our trailers comply with all DOT and NATM standards to ensure high performance in demanding environments required by our military and federal customers.
- ALUMA towers are manufactured using the highest quality 6061-T6 aircraft grade aluminum (same as used on commercial jet aircraft). Stainless steel hardware is widely used for riggings, and our patented slide bars practically eliminate rotational deflection found in all competing telescoping towers.
- ALUMA's light weight yet high performance tower/trailer and shelter combinations are easily transportable, rugged, low maintenance, and can support heavy loads in high winds (both unguyed or guyed). Tower heights range from 25 ft to 106 ft, payloads are up to 665+ lb range at extended heights, and operate in wind speeds of 105 MPH. Heaver loads and large sail areas are supported at reduced wind speeds.
- ALUMA offers telescoping towers, shelters and trailer accessories such as single and dual axles, auxiliary quiet run diesel generators, securable aluminum storage boxes and NEMA rated equipment cabinets, powdercoat and CARC color choices, solar panels, work lights, adjustable trailer tongues, aircraft warning beacons, electric winches (AC and DC), various sized fuel tanks, directioners, mounting bars, cable stand-offs, grounding systems, text message controlled SMART Technology, various shelter dimensions, and other options found on our webpage at
- With ALUMA's optional patent-pending SMART Technology, the user can remotely control the tower system via text message, IP or user dedicated com-mo system. SMART Technology also enables the user to preset thresholds to have the tower operate automatically when winds reach a certain speed.



MANTIS with 90 ft UNGUYED tower



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