



1639 Old Dixie Highway
P.O. Box 2806
Vero Beach, FL 32961-2806
Phone 772.567.3423
Fax 772.567.3432

TM53-70 / T2-100UG (Scorpion) - Unit System Specifications

Tower Specifications– All Aluma Tower Company, Inc. towers are designed to TIA-222-G Structural Standards for Antenna Supporting Structures and Antennas.

Model	T2-100UG
Tower Construction	American Aircraft Aluminum 6061-T6
No. of Sections	4
Sections ID	F2, E2, D2 & C2
Length of the Section	30 ft.
Sections Overlap	7 ft.
Overlap Reinforcement System	Radial Pressure Slide Bars (Patent# 8,046,970)
Maximum Height w/o Mast	100 ft.
Standard Mast Length	8 ft.
Maximum Height w/ Mast	106 ft.
Nested Height w/o Mast	31.5 ft.
Raising System	AC or DC Winch (Multiple Voltage Available)
Tilting Mechanism	AC or DC Winch (Multiple Voltage Available)
Type of Retraction	Positive
Winch Manual bypass	Yes
Lockable Mechanism	Yes – Safety Stop
Multiple height Lockable	Yes – Every 20”
Multiple Safety Redundancy	Yes
Tower Operations Temperature	-40°F / +120°F
Maximum Pay Load*	350 lbs.
Maximum Wind Load (Sail Area)*	20 sq.ft.
Maximum Wind Speed*	70 mph.

* Number reflect top section of the tower when fully erected (deployed)

Trailer Specifications – All Aluma Tower Company, Inc. trailers are licensed and designed to meet or exceed Department of Transportations (DOT) regulations. Aluma Tower is certified manufacture and an active member of National Association of Trailer Manufactures (NATM)

Frame Model	TM53-70 (Scorpion)
Frame Construction	American Structure Steel
Finishing and Corrosion Protection	Hot Deep Galvanized
Trailer Frame Length	300 1/8”
Trailer Frame Width	86”
Approximated Trailer Frame Height (deck height)	18 1/8”
Approximated Trailer Height (with tower)	100 5/16”
Coupler Type	2 5/16” Ball or/and Pintle
Coupler Height	18”- 22” – Adjustable, 2” increments
Standard Axles Sizes*	(2) 7000 lbs.



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Axles Type	Galvanized Torsion
GVWR	13990 lbs.
Standard Tire Size*	235-85R/16ST
Tire Load Range	E
Brakes*	Electric in 4 wheels
Breakaway Kit	Yes
Spare Tire	Yes – Full Size
Approximated Shipping Weight (w/ accessories, frame and tower)	5780 lbs.
Tongue Weight	9% to 12% of Shipping Weight
Standard Tongue Jack*	(1) 8000 lbs. mechanical
Leveling System	(8) 8000 lbs. mechanical Jacks
Outriggers	(4) swing-out
* Multiple Options available	