

STILETTO[®] AL

High accuracy electro-mechanical telescoping mast

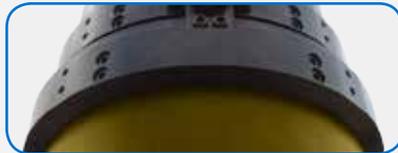
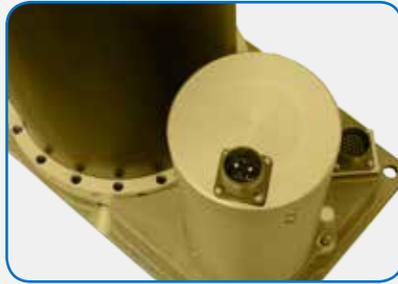
The Stiletto AL delivers an extremely stable and compact elevation platform for sensors and antennas that require a high degree of pointing accuracy. This high strength alloy electro-mechanical telescoping mast with patent pending automatic locks does not require guying and safely deploys payloads at any height. The Stiletto AL is a cost-effective elevation platform designed to meet today's stringent program requirements.

High Strength Alloy Construction



Patent Pending Quiet Locks Designed for Heavy Payloads

Quiet Sealed Direct-Drive System



Integrated Dust Wipers and Ice-Breakers



STILETTO[®] AL SPECIFICATIONS

Specifications	4 meter	6 meter	10 meter	15 meter
Extended Height (+4 in. / -0 in.)	13.1 ft. / 4 m	19.6 ft. / 6 m	32.8 ft. / 10 m	49.2 ft. / 15 m
Nested Height (+1 in. / -0 in.)	51.6 in. / 1.31 m	65.28 in. / 1.66 m	84.24 in. / 2.14 m	104.4 in. / 2.65 m
Rated Payload Capacity	350 lb / 158 kg			
Weight (Including Control Box and Cables)	260 lb / 118 kg	315 lb / 143 kg	390 lb / 177 kg	490 lb / 222 kg
Number of Sections	5	6	7	8
Tube Diameter	9.85 in. to 6.7 in. / 25 cm to 17 cm	9.85 in. to 5.91 in. / 25 cm to 15 cm	9.85 in. to 5.12 in. / 25 cm to 13 cm	9.85 in. to 4.33 in. / 25 cm to 11 cm
Survival Wind Speed	140 mph / 225 km/h	100 mph / 160 km/h	80 mph / 128 km/h	52 mph / 83 km/h
Deployment Wind Speed	40 mph / 64 km/h	40 mph / 64 km/h	35 mph / 56 km/h	30 mph / 48 km/h
Erection Time with Power	Less than 60 seconds	Less than 60 seconds	Less than 90 seconds	Less than 150 seconds
Rotation Accuracy (Twist)	+/-1°	+/-1°	+/-1°	+/-1°
Voltage (MIL-STD 1275)	28 VDC	28 VDC	28 VDC	28 VDC
Footprint	17.56 in. x 11.19 in. / 44.6 cm x 28.5 cm	17.56 in. x 11.19 in. / 44.6 cm x 28.5 cm	17.56 in. x 11.19 in. / 44.6 cm x 28.5 cm	17.56 in. x 11.19 in. / 44.6 cm x 28.5 cm
*Typical Payload Sail Area	12 sqft / 1.11 sqm CD=1.5	12 sqft / 1.11 sqm CD=1.5	4.3 sqft / 0.4 sqm CD=1.5	4 sqft / 0.37 sqm CD=1.5

*Consult factory for larger sail area as payload and wind capacities may be reduced.

ESSENTIAL FEATURES

- **No guying required, self-supporting mast**
- **Minimal mast twist**
Energized keyway guides in accessory-ready collars
- **Low wind deflection**
Mast sections are held tight by constricting wear bands
- **Quiet Operation**
Direct-drive system powered by environmentally sealed 600 watt DC motor with manual over ride.
Patent Pending Quiet Locks designed for heavy payloads
- **Reduced maintenance**
Clean air filter system prevents dirt from entering mast
Integrated dirt / dust wipers and ice-breakers built into collars
- **High strength alloy construction**
- **Integrated PC control**
- **MIL-STD 810 compliant**



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The Will-Burt Company (www.willburt.com), located in Orrville, Ohio, is the world's premier manufacturer of telescoping mast and tower elevation solutions – the world's one stop shop offering virtually every payload elevation solution from one source – for military, fire, cellular, broadcast, entertainment and other applications. Will-Burt also designs and manufactures military and other shelters made of all-composite materials that deliver higher performance at lower life cycle cost than metal or partial composite shelters. Will-Burt's LINX security solutions provide integrated access control and intrusion detection certified to protect critical assets. Will-Burt also offers a variety of manufacturing services backed by an ISO 9001:2008 certified quality system and a 14001:2004 environmental management system. Incorporated in 1918, Will-Burt is 100% employee-owned and is classified as a small business.



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