

# STILETTO<sup>®</sup> AL **High accuracy electro-mechanical telescoping mast**

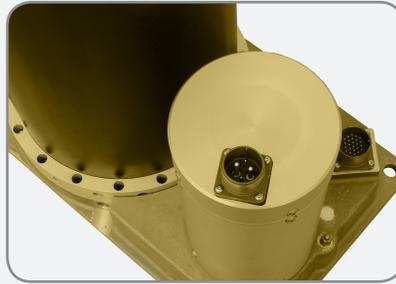
The Stiletto AL delivers an extremely stable and compact elevation platform for sensors and antennas that require a high degree of pointing accuracy. This high strength alloy electro-mechanical telescoping mast with patented automatic locks does not require guying and safely deploys payloads at any height.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

### High Strength Alloy Construction



**Patented Quiet Locks  
Designed for Heavy Payloads**

### Quiet Sealed Direct-Drive System



**Integrated Dust Wipers  
and Ice-Breakers**



# STILETTO<sup>®</sup> AL **SPECIFICATIONS** **ESSENTIAL FEATURES**

Specifications	4 meter	6 meter	8.5 meter	10 meter	15 meter
Extended Height (+4 in. / -0 in.)	13.1 ft. / 4 m	19.6 ft. / 6 m	28 ft. / 8.54 m	32.8 ft. / 10 m	49.2 ft. / 15 m
Nested Height (+1 in. / -0 in.)	50.4 in. / 1.28 m	62.2 in. / 1.58 m	74.02 in. / 1.88 m	82.68 in. / 2.10 m	104.4 in. / 2.65 m
Payload Capacity	400 lb / 181 kg	350 lb / 158 kg			
Weight (Including Control and Box Cables)	260 lb / 118 kg	315 lb / 143 kg	353 lb / 160 kg	390 lb / 177 kg	490 lb / 222 kg
Number of Sections	5	6	7	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 5.12 in. / 25 cm to 13 cm	9.85 in. to 4.33 in. / 25 cm to 11 cm
Survival Wind Speed	130 mph / 209 km/h	115 mph / 185 km/h	80 mph / 129 km/h	80 mph / 129 km/h	62 mph / 100 km/h
Deployment Wind Speed	40 mph / 64 km/h	40 mph / 64 km/h	35 mph / 56 km/h	35 mph / 56 km/h	30 mph / 48 km/h
Erection Time with Power	Less than 35 seconds	Less than 60 seconds	Less than 100 seconds	Less than 100 seconds	Less than 150 seconds
Rotation Accuracy (Twist)	+/-1°	+/-1°	+/-1°	+/-1°	+/-1°
Voltage (MIL-STD 1275)	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	17.56 in. x 11.19 in. / 44.6 cm x 28.5 cm
*Typical Payload Sail Area	17 sqft / 1.58 sqm CD=1.5	12 sqft / 1.11 sqm CD=1.5	11 sqft / 1.02 sqm CD=1.5	11 sqft / 1.02 sqm CD=1.5	8 sqft / 0.74 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
  - Patented 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, headquartered in Orrville, Ohio, USA, is the world's premier manufacturer of mobile telescoping masts, towers and pan and tilt positioners. We offer virtually every payload elevation and integration solution from the top brands; Will-Burt, GEROH, Integrated Tower Solutions (ITS) and MAD – for defense, government, first responders, cellular, broadcast, energy production and other markets. Will-Burt also offers contract manufacturing, metal fabrication, powder-coating, and rapid prototyping services. All Will-Burt Company manufacturing locations are backed by a certified ISO 9001:2015 Quality Management System. Incorporated in 1918, Will-Burt is 100% employee-owned and is classified as a small business.



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