

STILETTO[®] AL HEAVY DUTY



COUNTER-UAS

SURVEILLANCE

COMMUNICATIONS

The Stiletto[®] AL HD is designed to successfully manage the forces that today's sophisticated radar and video systems can exert on a mobile elevation system and deliver the required stability and accuracy needed for optimized data delivery. The Stiletto AL HD's multi-spindle design and internal key minimizes mast twist.

Stiletto AL HD is designed to meet the most demanding program requirements.

Essential Features

- Powerful lifting capacity
 - Up to 600 pounds / 272 kg
- Automatic Locking at Any Height
 - Secure and Safe
- Maximum Strength Deployment and Retraction
 - All mast sections extend and retract in unison
- Minimal mast twist - optimized for radars
 - $\pm 0.7^\circ$
- Low-nested height
 - Internal collars with built-in dust and ice scrapers
- Precise positioning at any height
 - Digitally controlled brushless DC motor
- Minimal maintenance
 - No belts or chains - Direct drive power
 - Ultra long-life - Multi-spindle system
 - Full tube seals prevent water intrusion
- High strength alloy construction
- No guy wires required
- Digital control with LED display
 - Accurate height readout even with loss of power
- MIL-STD 810H design

Internal Collars with Built-in Dust and Ice Scrapers prevent water intrusion



Digital Control with LED Display for accurate height readouts



Direct Drive Power for minimal maintenance



Multi-Spindle Design for precision, longevity, and stability



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Stiletto AL HD	4 meter	6 meter	8.54 meter	10 meter	12 meter
Extended Height (ft. / m) ±1.97 / ±50 (in. / mm)	13.1 / 4	19.6 / 6	28 / 8.54	32.8 / 10	39.3 / 12
Nested Height (ft. / m) ±0.236 / ±6 (in. / mm)	4.02 / 1.28	5.18 / 1.58	6.54 / 2	7.33 / 2.24	8.43 / 2.57
Payload Capacity (lb / kg)	600 / 272	600 / 272	600 / 272	600 / 272	600 / 272
Mast Weight (lb / kg)	335 / 152	-	464 / 210	490 / 222	-
Number of Sections	6	6	6	6	6
Tube Diameter Range: Base Tube - Top Tube (in. / mm)	9.85 - 5.9 / 250 - 150	9.85 - 5.9 / 250 - 150	9.85 - 5.9 / 250 - 150	9.85 - 5.9 / 250 - 150	9.85 - 5.9 / 250 - 150
*Survival Wind Speed (mph / km/h)	130 / 209	115 / 185	95 / 153	80 / 129	62 / 100
Deployment Wind Speed (mph / km/h)	40 / 64	40 / 64	40 / 64	40 / 64	40 / 64
Approximate Extension Time with Power (seconds)	<45	<65	<90	<105	<130
Rotation Accuracy (Twist)	±0.7°	±0.7°	±0.7°	±0.7°	+/-0.7°
Input Voltage	28 VDC	28 VDC	28 VDC	28 VDC	28 VDC
Running Current (Max)	40 Amps	40 Amps	40 Amps	40 Amps	40 Amps
Base Footprint (in. / cm)	17.56 x 11.22 / 44.6 x 28.5	17.56 x 11.22 / 44.6 x 28.5	17.56 x 11.22 / 44.6 x 28.5	17.56 x 11.22 / 44.6 x 28.5	17.56 x 11.22 / 44.6 x 28.5
Max Deployment Angle	10°	10°	10°	10°	5°
*Typical Payload Sail Area (ft. ² / m ²)	17 / 1.58	12 / 1.11	11 / 1.02	11 / 1.02	8 / .74

* All survival wind load payloads assume a payload center of pressure position 1 meter above the top of the mast and payload drag coefficient (Cd) of 1.5.

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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 mobile payload elevation and integration solution for defense, government, first responders, cellular and mobile, broadcast, energy production and other markets. Will-Burt also offers contract manufacturing, metal fabrication, powder-coating, and rapid prototyping services. Will-Burt is an international company with offices and manufacturing in the USA, England, and Germany along with offices in Singapore and a joint venture in Turkey. 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.