



Will-Burt Stiletto Telescoping Masts

Will-Burt's revolutionary screw-drive Stiletto is designed for communications and surveillance applications that require rapid, automatic deployment and maximum reliability with high antenna pointing accuracy. Designed to meet military environment standards (Ref. MIL-STD-810), the small footprint of 1.5 square feet readily allows internal or external mounting in HMMWV, shelter or ground mountings.

The Stiletto masts are non-rotative, with automatic self-locking sections and use carbon fiber which resists more to twists and bendings than its equivalent in aluminium. The Stiletto is both lightweight and low profile.

Main Stiletto masts advantages: **Security:** The masts has self-locking sections(remains in position with the elevation motor off). The retraction is done in a controlled way, also with the action of the motor. **Reliability:** Manufactured according to the ISO 9001 requirements from Will-Burt and designed according to the environment specifications MIL-STD-810. **Easy maintenance:** Maintenance in field routine in 60 seconds. Easy assembly/disassembly.

Stiletto qualifications:

- ✓ Altitude: sea level to 15000 feet
- ✓ Transportation altitude: 15000 feet above sea level (no pressurization)
- ✓ Operating temperature range: -30°C to +65°C, MIL-STD-810F
- ✓ Storage temperature range: -40°C to +70°C, MIL-STD-810F
- ✓ Solar radiation: Per MIL-STD-810F, Method 505.4
- ✓ Rain: MIL-STD-810E, Method 506.3
- ✓ Humidity: Per MIL-STD-810F, Method 507.4
- ✓ Fungus: Per MIL-STD-810F, Method 508.4
- ✓ Salt Fog: Per MIL-STD-810F, Method 509.4
- ✓ Sand and Dust: Per MIL-STD-810F, Method 510.4
- ✓ Ice and Freezing Rain: Per MIL-STD-810F, Method 521.2
- ✓ Vibration and Shock: Per MIL-STD-810F, Method 514.5 and 516.5



Stiletto and Stiletto HD Masts

Model		4 meters	6 meters	10 meters	15 meters	HD 4 meters	HD 6 meters	HD 10 meters
Payload (kg)		91	91	80	57	158	180	180
Extended Height (m)		4,19	5,79	10	15	3,8	6	10
Nesting Height (m)		1	1,17	1,7	2,4	1,1	1,5	2
Weight (kg)		75	82	107	136	120	154	160
Number of Sections		9	9	9	9	7	9	9
Erecting time (motor) (sec)		60	90	165	240	15	35	60
Erecting time (manual) (sec)		135	210	390	600	240	360	600
Typical payload sail area (CD=1.5) (m²)		0,93	0,93	0,74	0,56	0,8	0,9	0,74
Deployment wind speed (km/h)		80	64	51	47	60	60	51
Survival wind speed (km/h)		193	177	120	105	150	150	120
Footprint (mm)			285,8 x 447,7			248 x 396	284 x 446	
Tube O.D. (outer diameter) (mm)			109,5 a 261,9			129 a 243	129 a 280	
Drive system						SSTL Screw		
Tube material *						Carbon Fiber Composite		
Finish **						#383 Green Satin Polane		
Rotational accuracy						<1°		
Voltage (V)						28Vdc		
Part#		29735	29736	29738	29739	59005	59006	59007

* Options include fiberglass, higher MSI carbon composite and aluminum.

** Other colors and finishes, including C.A.R.C., are available.

