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The Will-Burt Company offers a broad selection of mobile telescopic masts, lattice towers, pan and tilt positioners and accessories to elevate a variety of mission critical payloads. Each family of elevation solutions is designed and manufactured with a unique set of characteristics tuned to optimize payload performance and meet the most stringent performance criteria. High performance tactical trailers round out the military offerings of The Will-Burt Company.



The ability of Will-Burt to deliver superior elevation solutions is attributed to its worldwide leadership in the industry for over 70 years. Teams of experienced research and development engineers, design engineers and ISO 9001:2015 quality systems certified manufacturing experts are backed by a sales and marketing support structure focused on delivering the correct customer solution on time, every time.

Whether your program requires a commercial off-the-shelf solution or a highly engineered customized product, The Will-Burt Company has the experience, design know-how and manufacturing capabilities to meet your unique requirements.

THE ADVANTAGES OF THE WILL-BURT COMPANY

- Worldwide elevation leader since 1946
- Wide array of elevation products designed for specific missions
- MIL-STD 810 Certified Products
- ISO 9001:2015 quality certified manufacturing
- Innovative custom solutions designed by experienced engineers
- Superior customer support

Portable Telescopic Masts and Towers Height and Payload Capabilities

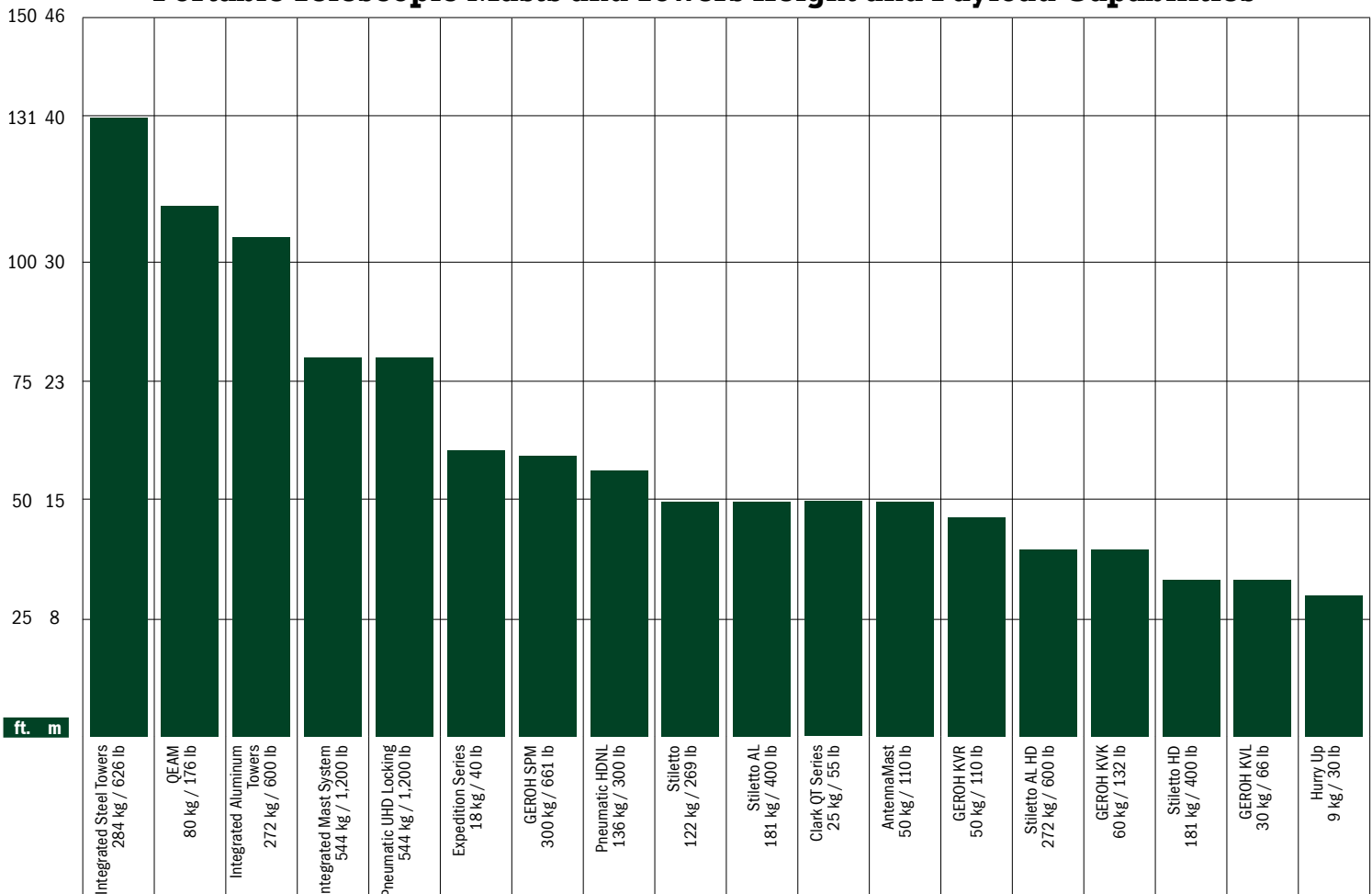


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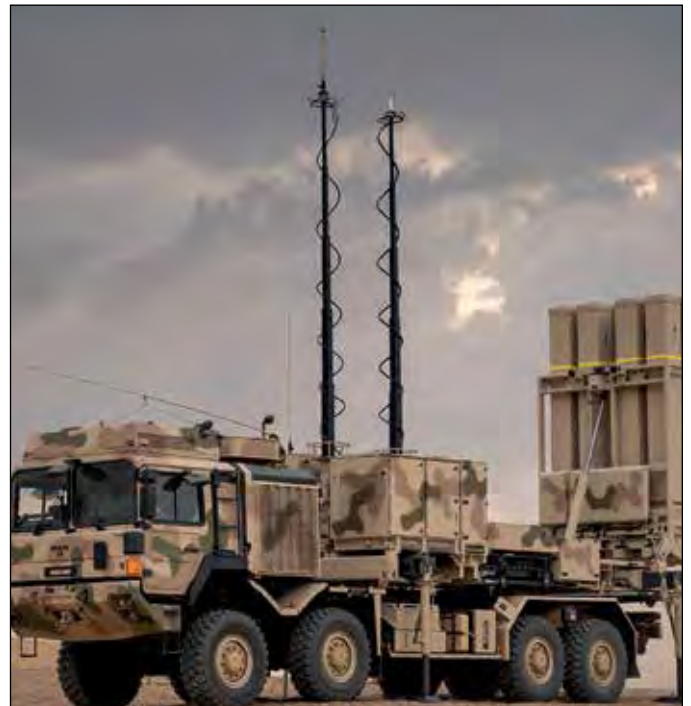
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SURVEILLANCE / SECURITY / COUNTER UAS

STILETTO ELECTRO-MECHANICAL MASTS

Extended Heights up to 49.2 ft. /
Payload Capacity up to 270 lb

High performance composite telescoping mast

The revolutionary Will-Burt Stiletto carbon fiber composite, electro-mechanical mast features the best combination of high strength, low weight and great stability in the industry. With its low nested height and small space claim, Stiletto is the lightweight mobile solution for applications requiring rapid automatic deployment, maximum reliability and high directional pointing accuracy.

ESSENTIAL FEATURES

- High pointing accuracy and low wind deflection
 - Internal keys and rigid design maintain azimuth and eliminate the need for guylines
- High weight lifting capacity
 - Greater safety and payload accommodations
- Higher strength for lighter weight
 - Lightweight carbon fiber construction driven by stainless steel electro-mechanical drive screw
- Advanced safety
 - Automatic sectional locking assures personnel and payload safety
- Low maintenance costs
 - Easy, routine field and depot maintenance
- Use in harsh environments including ice and high wind
 - Positive retraction

STILETTO HD ELECTRO-MECHANICAL MASTS

Extended Heights up to 32.9 ft. / Payload Capacity up to 40 lb.

High performance composite telescoping mast

The Will-Burt Stiletto® HD offers additional benefits over the standard Stiletto® design

ESSENTIAL FEATURES

- | | |
|--|--|
| <ul style="list-style-type: none"> • Greater pointing accuracy <ul style="list-style-type: none"> • Greater strength and rigidity, lower wind deflection • 48% lower linear deflection • Greater lifting capacity <ul style="list-style-type: none"> • Higher load drive system capacity for heavier payloads | <ul style="list-style-type: none"> • Increased stability <ul style="list-style-type: none"> • Due to additional tube overlap • Increased safety <ul style="list-style-type: none"> • Three locks on heavy-duty collars • On-The-Move** <ul style="list-style-type: none"> • Persistent surveillance |
|--|--|

STILETTO®

STILETTOTM HD

SPECIFICATIONS

SURVEILLANCE / SECURITY / COUNTER UAS

Stiletto®	3.0m	4.0m	6.0m	10.0m	15.0m
Extended Height (+4 in. / -0 in.) (ft. / m)	9.8 / 3.0	13.5 / 4.1	19.0 / 5.79	32.5 / 9.9	49.2 / 15.0
Nested Height (+1 in. / -0 in.) (ft. / m)	3.3 / 1.0	3.3 / 1.0	3.8 / 1.17	5.6 / 1.7	7.9 / 2.4
Payload Capacity (lb / kg)	270 / 122	250 / 113	250 / 113	250 / 113	200 / 91
Weight (Including Control Box and Cables) (lb / kg)	176 / 80	196 / 89	209 / 95	267 / 121	320 / 145
Number of Sections	5	9	9	9	9
Tube Diameter (in. / cm)	10.3 to 7.3 / 26.2 to 8.5	10.31 to 4.31 / 26.2 to 11	10.31 to 4.31 / 26.2 to 11	10.31 to 4.31 / 26.2 to 11	10.31 to 4.31 / 26.2 to 11
Survival Wind Speed (mph / km/h)	-	110 / 177	100 / 160	80 / 129	65 / 105
Deployment Wind Speed (mph / km/h)	-	50 / 80	40 / 60	34 / 55	33 / 53
Erection Time with Power (seconds)	45	60	90	162	240
Rotation Accuracy (Twist)	+/-1°	+/-1°	+/-1°	+/-1°	+/-1°
Voltage (MIL-STD 1275) (VDC)	28	28	28	28	28
Footprint (in. / cm)	11.25 x 17.63 / 28.6 x 44.8		17.56 x 11.19 / 44.6 x 28.5	17.56 x 11.19 / 44.6 x 28.5	17.56 x 11.19 / 44.6 x 28.5
**Typical Payload Sail Area (ft. ² / m ²)	8 / .74 CD=1.5	8 / .74 CD=1.5	8 / .74 CD=1.5	8 / .74 CD=1.5	8 / .74 CD=1.5

Stiletto® HD	4.0m	6.0m	8.6m	10.0m
Extended Height (+4 in. / -0 in.) (ft. / m)	12.5 / 3.8	19.7 / 6.0	28.2 / 8.6	32.9 / 10.0
Nested Height (+1 in. / -0 in.) (ft. / m)	3.3 / 1.1	4.9 / 1.5	6.4 / 1.95	6.6 / 2.0
Payload Capacity (lb / kg)	350 / 158	400 / 181	400 / 181	400 / 181
*On-The-Move Capability		x		
Weight (Including Control Box and Cables) (lb / kg)	265 / 120	340 / 154	384 / 175	395 / 180
Number of Sections	7	9	8	9
Tube Diameter (in. / cm)	9.56 to 5.06 / 24.3 to 12.9	11.06 to 5.06 / 28.1 to 12.9	11.06 to 5.81 / 28.1 to 14.8	11.06 to 5.06 / 28.1 to 12.9
Survival Wind Speed (mph / km/h)	100 / 160	100 / 160	90 / 144	80 / 129
Deployment Wind Speed (mph / km/h)	40 / 64	40 / 64	40 / 64	40 / 64
Erection Time with Power (seconds)	20	35	50	60
Rotation Accuracy (Twist)	+/-1°	+/-1°	+/-1°	+/-1°
Voltage (MIL-STD 1275) (VDC)	28	28	28	28
Footprint (in. / cm)	15.59 x 9.71 / 39.6 x 24.7	17.56 x 11.19 / 44.6 x 28.5	17.56 x 11.19 / 44.6 x 28.5	17.56 x 11.19 / 44.6 x 28.5
**Typical Payload Sail Area (ft. ² / m ²)	11 / 1 CD=1.5	11 / 1 CD=1.5	8 / .74 CD=1.5	8 / .74 CD=1.5

*Consult factory for OTM payload capacity – 6 m HD model only. **Consult factory for larger sail area as payload and wind capacities may be reduced.

Stiletto® MIL-STD-810F Qualifications	
Altitude	Sea level to 15,000 feet per MIL-STD-810F, Method 500.4
Transportation Altitude	Sea level to 15,000 feet (unpressurized) MIL-STD-810F, Method 500.4
Operating Temperature Ranges	-40°C to +55°C, MIL-STD-810F, Method 501.4 and 502.4
Storage Temperature Ranges	-40°C to +71°C, MIL-STD-810F, Method 501.4 and 500.4
Solar Radiation	Per MIL-STD-810F, Method 505.4
Rain	Per MIL-STD-810F, Method 506.4
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
Icing / Freezing Rain	Per MIL-STD-810F, Method 521.2
Vibration and Shock	Per MIL-STD-810F, Method 514.5 and 516.5 (nested position)
MIL-STD-461E	CS101, CS114, CS115, CS116, RS103

Stiletto® HD MIL-STD-810F Qualifications	
*Altitude	Sea level to 15,000 feet per MIL-STD-810F, Method 500.4
*Transportation Altitude	Sea level to 15,000 feet (unpressurized) MIL-STD-810F, Method 500.4
Operating Temperature Ranges	40°C to +55°C, MIL-STD-810F, Method 501.4 and 502.4
Storage Temperature Ranges	-40°C to +71°C, MIL-STD-810F, Method 501.4 and 500.4
*Solar Radiation	Per MIL-STD-810F, Method 505.4
*Rain	Per MIL-STD-810F, Method 506.4
*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
Icing / Freezing Rain	Per MIL-STD-810F, Method 521.2
MIL-STD-461E	461E, CS101, CS114, CS115, CS116, RS103, (CE102, RE102, RS101 with optional equipment)

*The Stiletto HD design was qualified by similarity to the standard Stiletto design

SURVEILLANCE / SECURITY / COUNTER UAS

STILETTO AL ELECTRO-MECHANICAL MASTS**Extended Heights up to 49.2 ft. / Payload Capacity up to 400 lb****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.

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 the mast
 - Integrated dirt / dust wipers and ice-breakers built into collars
- High strength alloy construction
- Integrated PC control
- MIL-STD 810G certified

STILETTO® AL

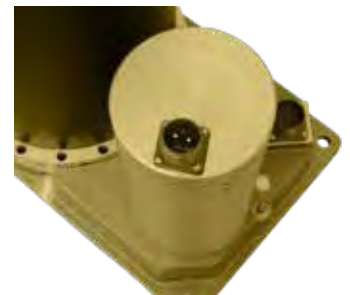


High Strength Alloy Construction



Patented Quiet Locks and Designed for Heavy Payloads

Quiet Sealed Direct-Drive System



Integrated Dust Wipers and Ice-Breakers

SPECIFICATIONS

Stiletto AL	4.0m	6.0m	8.5m	10.0m	15.0m
Extended Height (+4 in. / -0 in.) (ft. / m)	13.1 / 4.0	19.6 / 6.0	28.0 / 8.54	32.8 / 10.0	49.2 / 15.0
Nested Height (+1 in. / -0 in.) (ft. / m)	4.2 / 1.28	5.2 / 1.58	6.2 / 1.88	6.9 / 2.10	8.7 / 2.65
Payload Capacity (lb / kg)	400 / 181	400 / 181	400 / 181	400 / 181	350 / 158
Weight (Including Control Box and Cables) (lb / kg)	265 / 120	314 / 143	364 / 165	395 / 179	350 / 158
Number of Sections	5	6	7	7	8
Tube Diameter (in. / cm)	9.85 to 6.7 / 25 to 17	9.85 to 5.91 / 25 to 15	9.85 to 5.12 / 25 to 13	9.85 to 5.12 / 25 to 13	9.85 to 4.33 / 25 to 11
Survival Wind Speed (mph / km/h)	130 / 209	115 / 185	80 / 129	80 / 129	62 / 100
Deployment Wind Speed (mph / km/h)	40 / 64	40 / 64	35 / 56	35 / 56	30 / 48
Erection Time with Power (seconds)	Less than 35	Less than 60	Less than 100	Less than 100	Less than 150
Rotation Accuracy (Twist)	+/-1°	+/-1°	+/-1°	+/-1°	+/-1°
Voltage (MIL-STD 1275) (VDC)	28	28	28	28	28
Footprint (in. / cm)	17.56 x 11.19 / 44.6 x 28.5	17.56 x 11.19 / 44.6 x 28.5	17.56 x 11.19 / 44.6 x 28.5	17.56 x 11.19 / 44.6 x 28.5	17.56 x 11.19 / 44.6 x 28.5
**Typical Payload Sail Area (ft. ² / m ²)	17 / 1.58 CD=1.5	12 / 1.11 CD=1.5	11 / 1.02 CD=1.5	11 / 1.02 CD=1.5	8 / 0.74 CD=1.5

Paint option only available for base tube, all other tubes will be black anodize. **Consult factory for larger sail area as payload and wind capacities may be reduced.

STILETTO AL HD ELECTRO-MECHANICAL MASTS

Extended Heights up to 39.3 ft. / Payload Capacity up to 600 lb

SURVEILLANCE / SECURITY / COUNTER UAS

STILETTO[®] AL **HEAVY DUTY**

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



Digital Control with LED Display



Multi-Spindle Design



Direct Drive Power



SPECIFICATIONS

Stiletto AL HD	4.0m	6.0m	8.54m	10.0m	12.0m
Extended Height ± 50 mm / ± 1.97 in. (ft. / m)	13.7 / 4.1	19.6 / 6.0	28.0 / 8.54	32.8 / 10.0	39.3 / 12.0
Nested Height ± 0.6 mm / ± 0.236 in. (ft. / m)	4.02 / 1.28	5.18 / 1.58	6.54 / 2.0	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	391 / 178	464 / 210	490 / 222	573 / 260
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)	$\pm 0.7^\circ$	$\pm 0.7^\circ$	$\pm 0.7^\circ$	$\pm 0.7^\circ$	$\pm 0.7^\circ$
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 / 0.74

* 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.

SURVEILLANCE / COMMUNICATIONS / COUNTER UAS

GEROH SPM SUPER HEAVY-DUTY TELESCOPIC SPINDLE DRIVE MASTS

Extended Heights up to 59.1 ft. / Payload Capacity up to 661 lb

Will-Burt Germany's Family of Telescopic Spindle Masts is used by the German Army and other international forces to enhance capabilities like communication, security, surveillance, reconnaissance and detection of targets throughout the battlefield.

The GEROH Spindle Mast Systems are developed for the highest requirements in precision and heavy payloads. The spindle drive system guarantees environmental independent operation – also in extreme inclines.

The GEROH SPM Spindle Mast is developed for the highest requirements in precision and extending the heaviest of payloads. Made of high strength aluminum, the Spindle mast maintains very close tolerances and endurance from environmental extremes making it our best telescopic mast for counter-UAS, communication, surveillance, reconnaissance and target detection.

ESSENTIAL FEATURES

- Best rotational accuracy (twist) of all Will-Burt masts
- Designed for heavy payloads with large windsail areas
- Precision tolerances maintain azimuth and minimize deflection
- Precise pointing accuracy excellently suited for optical electronic intelligence, monitoring, and target recognition
- Designed for inside and outside vehicle installation
- Electronic and Manual Operation
- MIL-STD 810-F certified

SPECIFICATIONS

Standard SPM	180-2 SPM 2	230-3 SPM 5	230-6 SPM 5	260-8 SPM 6	260-10 SPM 6	260-12 SPM 6	300-15 SPM 6	360-18 SPM 6
Extended Height (ft. / m)	6.9 / 2.1	9.9 / 3.0	19.7 / 6.0	26.2 / 8.0	32.8 / 10.0	39.4 / 12.0	49.2 / 15.0	59.1 / 18.0
Nested Height (ft. / m)	4.0 / 1.2	3.5 / 1.1	5.5 / 1.7	5.9 / 1.8	7.1 / 2.2	8.1 / 2.5	11.2 / 3.4	12.8 / 3.9
Payload Capacity (lb / kg)	220 / 100	661 / 300	551 / 250	55 / 250	551 / 250	551 / 250	551 / 250	551 / 250
Rotation Accuracy (Twist)	+/- 0.1°	+/- 0.4°	+/- 0.4°	+/- 0.5°	+/- 0.5°	+/- 0.5°	+/- 0.5°	+/- 0.5°
Approximate Mast Weight (lb / kg)	163 / 74	212 / 96	309 / 140	573 / 260	639 / 290	672 / 305	1,323 / 600	1,488 / 675
Base Tube Diameter (in. / cm)	7.1 / 18	9.1 / 23	9.1 / 23	10.2 / 26	10.2 / 26	10.2 / 26	14.2 / 36	14.2 / 36
Number of Sections	2	5	5	6	6	6	6	6

Low Profile SPM	280-2.5 SPM 7	280-3 SPM 7	280-4 SPM 7	280-6 SPM 7	280-8 SPM 7	280-10 SPM 7
Extended Height (ft. / m)	8.2 / 2.5	9.8 / 3.0	13.1 / 4.0	19.7 / 6.0	26.2 / 8.0	32.8 / 10.0
Nested Height (ft. / m)	2.3 / 0.70	2.5 / 0.78	3.0 / 0.92	3.9 / 1.2	4.9 / 1.49	5.8 / 1.78
Payload Capacity (lb / kg)	309 / 140	287 / 130	265 / 120	220 / 100	176 / 80	132 / 60
Approximate Mast Weight (lb / kg)	265 / 120	353 / 160	419 / 190	485 / 220	540 / 245	639 / 290
Rotation Accuracy (Twist)	+/- 0.6°	+/- 0.6°	+/- 0.6°	+/- 0.6°	+/- 0.6°	+/- 0.6°
Base Tube Diameter (in. / cm)	11.0 / 28	11.0 / 28	11.0 / 28	11.0 / 28	11.0 / 28	11.0 / 28
Number of Sections	7	7	7	7	7	7

Additional heights and payload capacities available.



GEROH SPM

SURVEILLANCE / COMMUNICATIONS

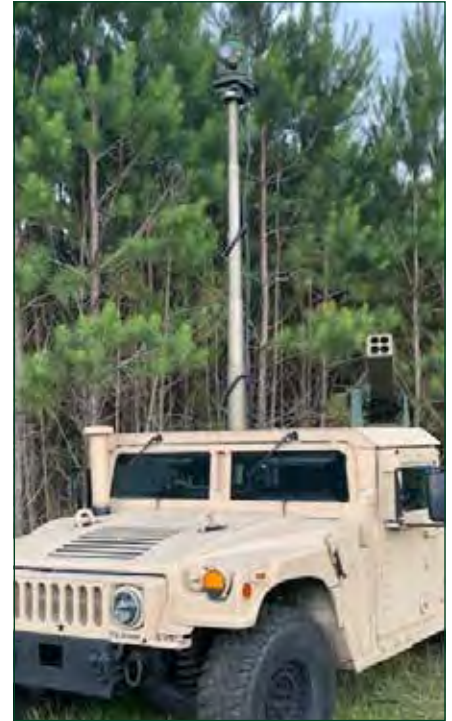
PNEUMATIC HD AND SHD NON-LOCKING MASTS

Extended Heights up to 56.1 ft. / Payload Capacity up to 300 lb

The Will-Burt Pneumatic Heavy-Duty Non-Locking (HDNL) and Super Heavy-Duty Non-Locking (SHDNL) Masts offer a light-weight solution with a high payload lifting capacity. Our Pneumatic Non-Locking Masts also feature high pointing accuracy and long mast life for high performance and dependability. The pneumatic heavy-duty design makes it inherently safe – the payload sits on a “cushion of air” enabling it to better absorb shocks for on-the-move applications*. What’s more, the Pneumatic Non-Locking Masts have controlled exhausting of air for smooth and safe retraction. Locking models are available for extended deployments.

ESSENTIAL FEATURES

- Two full-length external keys on mast sections with matching machined keyways on collars
 - Maintains directional azimuth
- Low friction synthetic bearings
 - Protects mast sections and collars for smooth operation and long life
- Mechanical Locking Collars
 - Supports high guying forces
- Black Hardcoat and sealed aluminum surfaces
 - Meets MIL-A-8625 Type III, Class II & Extends life of mast and protects against salt fog corrosion
- External Wipers
 - Protects against sand and dust
- Ruggedized Options
 - Optional finishes and features for military applications



SPECIFICATIONS

Heavy-Duty	7.5m	10.0m	12.5m	15.0m	17.0m
Extended Height (ft. / m)	25.0 / 7.6	32.8 / 10.0	41.2 / 12.5	48.6 / 14.8	56.1 / 17.1
Nested Height (ft. / m)	6.0 / 1.8	6.7 / 2.0	7.3 / 2.1	8.7 / 2.7	9.6 / 2.9
Payload Capacity (lb / kg)	200 / 91	300 / 136	200 / 91	300 / 136	300 / 136
Approximate Mast Weight (lb / kg)	110 / 50	200 / 91	235 / 107	275 / 125	296 / 135
Tube Diameter (in. / mm)	6.75 - 3.00 / 171 - 76	9.00 - 3.75 / 229 - 95	9.00 - 3.00 / 229 - 76	9.00 - 3.75 / 229 - 95	9.00 - 3.75 / 229 - 95
Maximum Operating Pressure	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)

Super Heavy-Duty	10.0m	12.0m
Extended Height (ft. / m)	32.8 / 10.0	39.4 / 12.0
Nested Height (ft. / m)	8.0 / 2.5	9.3 / 2.8
Payload Capacity (lb / kg)	980 / 445	680 / 308
Approximate Mast Weight (lb / kg)	375 / 170	430 / 195
Tube Diameter (in. / mm)	11.25 - 6.75 / 285 - 171	11.25 - 6.00 / 285 - 152
Maximum Operating Pressure	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)

SURVEILLANCE / COMMUNICATIONS

PNEUMATIC HD AND SHD LOCKING MASTS**Extended Heights up to 98.4 ft. / Payload Capacity up to 530 lb**

Will Burt's locking pneumatic masts are ideal for military communications, elevated testing and mobile radar applications. When a mast deployment is needed for extended periods, locking collars allow the mast to remain extended indefinitely without air pressure. Guying is optional on Vehicle-mounted heavy-duty locking (HDL) models up to 60 ft. / 18.0 Commercial-off-the-shelf (COTS) heavy-duty models are available. Super heavy-duty locking (SHDL) and ultra heavy-duty locking (UHDL) models feature greater unguyed heights and larger payload capacities. Standard models are shown below. Custom height and payload capacities are available upon request.

ESSENTIAL FEATURES

- Two full-length external keys on mast sections with matching machined keyways on collars
 - Maintains directional azimuth
- Low friction synthetic bearings
 - Protects mast sections and collars for smooth operation and long life
- Mechanical locking collars
 - Supports high guying forces
- Black Hardcoat and sealed aluminum surfaces
 - Meets MIL-A-8625 Type III, Class II & extends life of mast and protects against salt fog corrosion
- External wipers
 - Protects against sand and dust
- Ruggedized options
 - Optional finishes and features for military applications

SPECIFICATIONS

Heavy-Duty	10.0m	12.5m	15.0m	18.0m
Extended Height (ft. / m)	32.8 / 10.0	41.0 / 12.5	49.2 / 15.0	59.1 / 18.0
Nested Height (ft. / m)	7.5 / 2.3	7.5 / 2.3	8.0 / 2.5	10.4 / 3.2
Payload Capacity (lb / kg)	200 / 91	200 / 91	200 / 91	300 / 136
Approximate Mast Weight (lb / kg)	125 / 57	235 / 107	240 / 109	330 / 150
Tube Diameter (in. / cm)	6.75-3.00 / 171-76	9.00-3.00 / 229-76	9.00-3.00 / 229-76	9.00-3.75 / 229-95
Maximum Operating Pressure	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)

Super Heavy-Duty	15.0m	18.0m	23.0m	30.0m
Extended Height (ft. / m)	49.2 / 15.0	59.1 / 18.0	76.0 / 23.2	98.4 / 30.0
Nested Height (ft. / m)	9.2 / 2.8	10.5 / 3.2	11.1 / 3.4	15.4 / 4.7
Payload Capacity (lb / kg)	530 / 240	530 / 240	300 / 136	530 / 240
Approximate Mast Weight (lb / kg)	450 / 205	500 / 227	549 / 249	790 / 361
Tube Diameter (in. / cm)	11.25-5.25 / 288-135	11.25-5.25 / 288-135	11.25-3.75 / 288-96	11.25 - 5.25 / 288-135
Maximum Operating Pressure	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)

*Capacity will be affected by wind sail area. Consult factory.

**QUALIFICATIONS**

Pneumatic HD Locking Mast	
Solar Radiation	Per MIL-STD-810E, Method 505.3
Rain	Per MIL-STD-810E, Method 506.3
Humidity	Per MIL-STD-810E, Method 507.3
Salt Fog	Per MIL-STD-810E, Method 509.3
Sand and Dust	Per MIL-STD-810E, Method 510.3
The Pneumatic SHD and Pneumatic Non-Locking HD and SHD masts are qualified by similarity to the Pneumatic HD locking mast design.	

ULTRA HEAVY-DUTY PNEUMATIC LOCKING TELESCOPING MASTS

Extended Heights up to 79.7 ft. / Payload Capacity up to 1,200 lb

Higher payload capacity with shorter nested height.

The Ultra Heavy-Duty Pneumatic Mast with Locking Collars delivers an unparalleled combination of strength and rigidity in a design that delivers the performance of a hydraulic mast at less weight and without the need for environmentally dangerous fluids.

The Ultra Heavy-Duty mast was specifically designed for mobile communications providing better unguyed performance at lower nested heights – eliminating the need for an expensive tilt system.

ESSENTIAL FEATURES

- Strong
 - Elevates heavier loads with greater wind sail area
 - Greater unguyed performance
- Fast & Efficient
 - Lower nested height eliminates the need for costly and complicated tilt systems
 - Easier to deploy in urban areas
 - Safe long-term deployment with easy to operate positive locking pins
- Reliable
 - 5 year manufacturer warranty
 - No maintenance required
 - No hydraulic fluid concerns

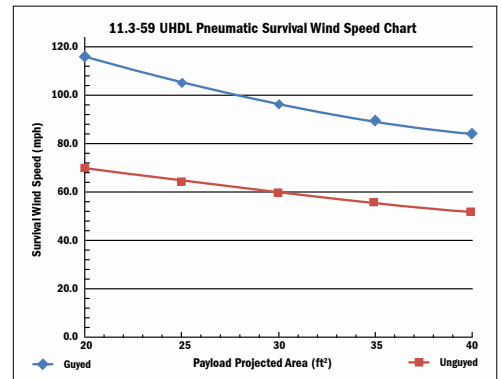
SPECIFICATIONS

Ultra Heavy-Duty Locking	8-39	11.3-59	9.8-65.6	13-70	14.4-80
Extended Height (m / ft.)	39.3 / 12.0	59.1 / 18.0	65.6 / 20.0	69.9 / 21.3	79.7 / 24.3
Nested Height (m / ft.)	7.8 / 2.4	11.1 / 3.4	9.8 / 3.0	13.1 / 4.0	14.4 / 4.4
*Payload Capacity (kg / lb.)	980 / 444	1,200 / 544	530 / 240	1,200 / 544	1,200 / 544
Approximate Weight (kg / lb)	607 / 275	814 / 369	852 / 387	920 / 417	1,078 / 489
Number of Sections	8	7	10	7	7
Tube Diameter (cm / in.)	13.50-6.75 / 34.29-17.15	13.50-7.50 / 34.29-19.05	13.50-5.25 / 34.29-13.34	13.50-7.50 / 34.29-19.05	13.50-7.50 / 34.29-19.05
Collar Type	Locking with Super Pins	Locking with Super Pins	Locking with Super Pins	Locking with Super Pins	Locking with Super Pins
Maximum Operating Pressure	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)	35 PSIG (2.4 bar)

Dimensions provided are for reference only and are not intended for vehicle design purposes.

*Capacity will be affected by wind sail area. Consult factory.

SURVEILLANCE / COMMUNICATIONS



MAST ACCESSORIES

REMOTE LOCKING SYSTEM FOR LOCKING PNEUMATIC MASTS

Will-Burt's patent pending Remote Locking System for pneumatic masts allows an operator to lock and unlock the mast from an assured distance. No manual interaction is required to raise or lower the mast. Operation of the system is intuitive, requiring less training and reducing the risk of operator error. The Remote Locking System is available on any Heavy-Duty pneumatic mast system or larger up to 24m / 80 ft.

FEATURES AND SPECIFICATIONS

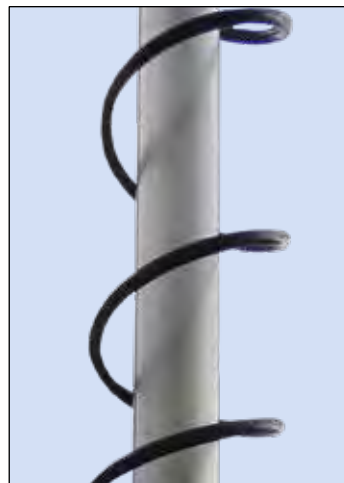
- Ability to stand clear from payload during deployment and retraction
- Easy to understand and operate control
- Super pins for longer lock life and increased wind survival speed in guyed applications
- Close azimuth design and two full-length keys on every mast section reduces mast movement and twist
- No routine maintenance required
- Pneumatic operation requires no fluids
- Control Box included
- Optional Handheld Controller



EXTERNAL CABLE MANAGEMENT

NYCOIL® is a coiled conduit used to house wiring, antenna coax and positioner cable that is too large to fit inside the mast. NYCOIL® easily fits around the mast and extends neatly and compactly retracts when the mast is nested.

A variety of sizes is available from 0.5 in. / 1.27 cm to 1.25 in. / 3.2 cm in diameter with lengths available up to 100 ft. / 30m



PNEUMATIC SYSTEMS








MAST ACCESSORIES

Will-Burt offers a variety of low-maintenance pneumatic systems and hand pumps, all specifically designed for optimal performance for use with Will-Burt Telescoping Masts. Each system is shipped completely assembled, tested and factory preset.







SPECIFICATIONS



Part Number	5766701	5857701	5802201 / 5766301	5802301	902404	903193	912361
AC Models	WB135	WB135	WB280	WB280			
Mast Application	Standard Duty	Standard Duty	Heavy / Super / Ultra Duty	Heavy / Super / Ultra Duty	Heavy / Super / Ultra Duty	Heavy / Super / Ultra Duty	Heavy / Super / Ultra Duty
Voltage	110VAC 60Hz	220VAC 50Hz	110VAC 60Hz	220VAC 50Hz	110VAC / 60Hz	220VAC 50Hz	220VAC 60Hz
CFM	4.7	4.7	9.8	9.8	4.4	2.01	4.4
Ltr / Min	135	135	280	280	125	57	101
Operating Temperature (°F / °C)	14 to 131 / -10 to 55	14 to 131 / -10 to 55	14 to 131 / -10 to 55	14 to 131 / -10 to 55	50 to 104 / 10 to 40	-4 to 131 / -20 to 55	50 to 104 / 10 to 40
Optional HandHeld Remote							
Protective Enclosure	x	x	x	x			
Cooling Fan					x	x	x
Air Hose with Fittings	x	x	x	x	x	x	x
Pressure Gauge	x	x	x	x	x	x	x
Pressure Switch	20 ±2 psi	20 ±2 psi	35 ±2 psi	35 ±2 psi	32 ±2 psi	32 ±2 psi	32 ±2 psi
Current Draw	7 amps	3.5 amps	14 amps	7 amps	10.6 amps	4.1 amps	5.3 amps
Weight (lb / kg)	55 / 25	55 / 25	62 / 28	62 / 28	45 / 20	55 / 25	45 / 20
Dimensions (L x W x H) (in. / mm)	15.2 x 10.1 x 15 / 385 x 255 x 380	15.2 x 10.1 x 15 / 385 x 255 x 380	16.6 x 11.7 x 15.1 / 420 x 295 x 380	16.6 x 11.7 x 15.1 / 420 x 295 x 380	18.33 x 11.61 x 8.91 / 466 x 295 x 227	16.4 x 12.6 x 9.0 / 417 x 320 x 229	18.33 x 11.61 x 8.91 / 466 x 295 x 227



Part Number	5857801	5857901	5766801	5766901
DC Models	WB135	WB135	WB135	WB135
Mast Application	Standard Duty	Standard Duty	Heavy / Super / Ultra Duty	Heavy / Super / Ultra Duty
Voltage (VDC)	12	24	12	24
CFM	4.7	4.7	4.7	4.7
Ltr / Min	135	135	135	135
Operating Temperature (°F / °C)	14 to 131 / -10 to 55	14 to 131 / -10 to 55	14 to 131 / -10 to 55	14 to 131 / -10 to 55
Optional HandHeld Remote				
Protective Enclosure	x	x	x	x
Cooling Fan				
Air Hose with Fittings	x	x	x	x
Pressure Gauge	x	x	x	x
Check Valve	20 ±2 psi	20 ±2 psi	35 ±2 psi	35 ±2 psi
Current Draw	65 amps	32 amps	65 amps	32 amps
Weight (lb / kg)	55 / 25	55 / 25	55 / 25	55 / 25
Dimensions (L x W x H) (in. / mm)	15.2 x 10.1 x 15.2 / 385 x 255 x 385	15.2 x 10.1 x 15.2 / 385 x 255 x 385	15.2 x 10.1 x 15.2 / 385 x 255 x 385	15.2 x 10.1 x 15.2 / 385 x 255 x 385

COMMUNICATIONS / SURVEILLANCE

GEROH KVL AND KVK LIGHT / MEDIUM-DUTY TELESCOPIC CABLE-DRIVE MASTS

Extended Heights up to 39.3 ft. / Payload Capacity up to 132 lb

Will-Burt Germany's Family of light and medium-duty Telescopic KVL and KVK Masts are characterized by their lightweight construction in addition to superior stability, reliability, and long life. Both mast systems are available with manual crank deployment or motorized operation. The GEROH KVL and KVK mast systems are in use in military and commercial applications such as communications, surveillance, and lighting. The masts are designed for vehicle, trailer, shelter, or field deployment. The mast sections consist of precision mast profiles which ensure exact adjustment. Safe deployment and retraction is assured, even with ice or in heavy wind conditions. such as communications, surveillance, and lighting.

ESSENTIAL FEATURES

- Available as a manual crank mast or with optional motor drive and controller
- Optimal for light surveillance systems, radio monitoring, and mobile light measuring stations
- Designed for vehicle, trailer, shelter, or field deployment
- MIL-STD 810-G



GEROH KVL | KVK

SPECIFICATIONS

KVL	120 - 2.5 KVL 3	120 - 4 KVL 4	120 - 6 KVL 5	120 - 8 KVL 5	145 - 8 KVL 6	145 - 10 KVL 6
Extended Height (ft. / m)	8.2 / 2.5	13.1 / 4.0	19.7 / 6.0	26.2 / 8.0	26.2 / 8.0	32.8 / 10.0
Nested Height (ft. / m)	3.5 / 1.1	4.3 / 1.3	5.1 / 1.5	6.4 / 2.0	5.75 / 17.5	6.9 / 2.1
Payload Capacity (lb / kg)	67 / 30	67 / 30	55 / 25	44 / 20	44 / 20	33 / 15
Approximate Mast Weight (lb / kg)	62 / 28	71 / 32	82 / 37	95 / 43	106 / 48	122 / 55
Number of Sections	3	4	5	5	6	6

KVK	120 - 2.5 KVK 3	120 - 4 KVK 4	145 - 6 KVK 4	145 - 8 KVK 5	170 - 10 KVK 5	170 - 12 KVK 6
Extended Height (ft. / m)	8.2 / 2.5	13.1 / 4.0	19.7 / 6.0	26.2 / 8.0	32.8 / 10.0	39.3 / 12.0
Nested Height (ft. / m)	3.5 / 1.14	4.3 / 1.34	6.3 / 1.9	6.9 / 2.1	8.2 / 2.5	8.2 / 2.5
Payload Capacity (lb / kg)	132 / 60	100 / 45	132 / 60	100 / 45	110 / 50	88 / 40
Approximate Mast Weight (lb / kg)	62 / 28	78 / 35	122 / 55	139 / 63	183 / 83	194 / 88
Number of Sections	3	4	4	5	5	6

Additional sizes available. Specifications are for reference only and are subject to change. Please contact Will-Burt for current and exact specifications. In addition to its masts, Will-Burt Germany also engineers and manufactures its own line of specialty single and double-axle military trailers, designed for maximum mobility with high payload capability and low curb weight.

QUALIFICATIONS

KVL / KVK / KVR MIL-STD TESTS	
High Temperature Operation (+44° C)	MIL-STD-810G, Method 501.5, Procedure II
Low Temperature Operation (-32° C)	MIL-STD-810G, Method 502.5, Procedure II
High Temperature Storage (+63° C)	MIL-STD-810G, Method 501.5, Procedure I
Low Temperature Storage (-51° C)	MIL-STD-810G, Method 502.5, Procedure II
Humidity	MIL-STD-810G, Method 507.5, Procedure II (Aggravated cycle Figure 507.5-7, %95 uncondensed humidity)
Rain	MIL-STD-810G, Method 506.5, Procedure I
Vibration	MIL-STD-810G, Method 514.6, Procedure I, Category 20, Table 514.6C-VI, Figure 514.6C-3 (composite wheeled vehicle)
	MIL-STD-810G, Method 514.6, Procedure I, Category 11 (Rail Road-Train), Figure 514.6C-10
	MIL-STD-810G, Method 514.6, Procedure I, Category 8 (Aircraft-Propeller), Figure 514.6C-7

MIL-STD TESTS (cont.)	
Shock	MIL-STD-810G, Method 516.6, Procedure I - Functional Shock, according to Table 516.6-II, 20g 11ms sawtooth (terminal)
Low Pressure	MIL-STD-810G, Method 500.5, Procedure II (3000m, -4.5° and 4572 m), Rapid decompression Procedure III
Solar Radiation	MIL-STD-810G, Method 505.5, Procedure II
Sand/Dust	MIL-STD-810G Method 510.5, Procedure I & II
Icing	MIL-STD-810G, Method 521.3, Procedure I (Ice thickness: 13mm)
EMI	MIL-STD 461F: CS101, CS114, CS115, CS116, RS103
Hazardous Chemicals	MIL STD 810 F Method 504.1
Salt Fog	MIL-STD 810F Method 509.4

GEROH KVR HEAVY-DUTY TELESCOPIC CABLE-DRIVE MASTS

Extended Heights up to 45.0 ft. / Payload Capacity up to 110 lb

The Heavy-Duty GEROH KVR Telescopic Masts are specifically engineered and manufactured for mobile use with robust payloads. With extended heights up to 14m / 45 ft. and a payload capacity of 50 kg / 110 lbs., the KVR telescopic crank mast is ideal for heavy communication and surveillance systems.

The GEROH KVR mast systems are available with manual crank deployment or motorized operation. The automatic locking system between the mast sections ensures failure-free operation and allows the mast to be guyed for added stability allowing it to perform under extreme environmental conditions at -50°C / - 60°F) and wind speeds up to 130 km/h / 80 mph)

In addition, special guidance systems guarantee exact adjustment – despite heavy payloads. The KVR Heavy-Duty model range is in use for military and commercial applications. The range of applications is various: complex communication systems, surveillance, position location and target acquisition systems. The masts are qualified for vehicle, trailer, shelter, or field deployment.

ESSENTIAL FEATURES

- Available as a manual crank mast or with optional motor drive and controller
- Suited for heavy communication systems, monitoring solutions and position location
- Designed for vehicle, trailer, shelter, or field deployment
- MIL-STD 810-G

SPECIFICATIONS

KVR	145 - 8 KVR 5	145 - 10 KVR 5	145 - 12 KVR 5	170 - 8 KVR 5	170 - 10 KVR 5	170 - 12 KVR 5	170 - 14 KVR 5	170 - 8 KVR 6	170 - 10 KVR 6	170 - 12 KVR 6	170 - 14 KVR 6
Extended Height (ft. / m)	26.2 / 8.0	32.8 / 10.0	39.3 / 12.0	26.2 / 8.0	32.8 / 10.0	32.8 / 10.0	46.0 / 14.0	26.2 / 8.0	32.8 / 10.0	39.3 / 12.0	46.0 / 14.0
Nested Height (ft. / m)	7.2 / 2.2	8.5 / 2.6	9.9 / 3.0	7.2 / 2.2	8.5 / 2.6	9.9 / 3.0	11.2 / 3.4	6.6 / 2.0	7.6 / 2.3	8.9 / 2.7	9.9 / 3.0
Payload Capacity (lb / kg)	50 / 110	45 / 99	40 / 88	50 / 110	50 / 110	45 / 99	40 / 88	50 / 110	45 / 99	40 / 88	40 / 88
Approximate Mast Weight (lb / kg)	67 / 148	74 / 163	80 / 176	82 / 181	91 / 201	100 / 220	109 / 240	80 / 176	88 / 194	96 / 212	104 / 229
Number of Sections	5	5	5	5	5	5	5	6	6	6	6

Additional sizes available. Specifications are for reference only and are subject to change. Please contact Will-Burt Germany Engineering for current and exact specifications.

In addition to its masts, Will-Burt Germany also engineers and manufactures its own line of specialty single and double-axle military trailers, designed for maximum mobility with high payload capability and low curb weight.

COMMUNICATIONS / SURVEILLANCE



GEROH KVR



COMMUNICATIONS / SURVEILLANCE

POSITIONIT PAN AND TILT POSITIONERS

for mobile applications

The PositionIt range of pan and tilt positioners are now available with **Continuous Rotation** panning operation. All PositionIt models include improved, next-generation control electronics and software while retaining the rugged reliability of the original PositionIt range. The updated PositionIt series is fully backwards compatible regarding connection points, electronics, and software with the previous generation. Improved motor control is assured with higher resolution speed control, slower minimum speeds, and user adjustable minimum speeds and speed ramps. The GUI for configuring and commissioning allows users to set and adjust many features that were originally factory set only. It also boasts many features such as the ability to receive positional feedback, set home position and limit stops and fault diagnostics.

CONTINUOUS ROTATION
PositionIt



POSITIONIT ESSENTIAL FEATURES

- Designed, Manufactured, and Tested to excel in Mobile Applications
 - Hardened metal gears
 - MIL-STD 810 certified by independent laboratory
- Strong, lightweight construction
 - Die-cast aluminum housing
 - Stainless steel fasteners
- Regenerative Braking
 - On motor shaft
- New Graphical User Interface (GUI)
 - Greater level of control with user set features
 - Faster set-up
 - Positional feedback
- More precise than ever
 - Higher level of motor control
 - Greater positional accuracy
- Flexible Connection
 - Bottom or side
- Universal mounting plate
 - Suitable for most common payloads
- Pelco-D over RS-485 Communications
- Weather-proof
 - IP 68 Rated
- Long Operational Life
- Backwards compatible



POSITIONIT CONTINUOUS ROTATION SPECIFICATIONS

Model	PI-35 CR	PI-75 CR	PI-150 CR
Payload Capacity* (ft lb / Nm)	35 / 47.45	75 / 101.68	150 / 203.37
Overall Height (in. / mm)	13.4 / 341	15.1 / 383.1	15.2 / 385.1
Overall Width (in. / mm)	10.7 / 273	11.3 / 287.02	14.6 / 370.84
Overall Depth (in. / mm)	6.1 / 154.9	7.19 / 182.67	7.19 / 182.67
Weight (lb. / kg)	25.57 / 11.6	41.45 / 18.8	46.52 / 21.1
Operating Temperature (°F / °C)	-40 to 140 / -40 to 60		
Pan Degrees of Rotation	0° to 360° (Continuous Rotation)		
Tilt Degrees of Rotation	+90° / -90°		
Pan Speed (Proportional)	12° / second	6.5° / second	6.5° / second
Tilt Speed (Proportional)	12° / second	5.5° / second	5.5° / second
Backlash	≤ 0.15°		
Repeatability	≤ 0.3°		
Maximum Continuous Power	44 W		
Maximum Continuous Current (amps)	1.85		
Input Voltage	24 VDC		
Protocol	Pelco D used (Pelco P available)		
Ingress Protection Rating	IP68		
Baud Rate	2,400 bps (Other Baud Rates Available)		

PI CR Wire Identification/ Color	Assignment	Maximum Current
Red	+ ve	3 A
Black	- ve	3 A
Green	Ground	1 A (24 AWG)
White / Brown	Aux Data	1 A (24 AWG)
Brown	Aux Data	1 A (24 AWG)
White / Yellow	Data B	N/A
Yellow	Data A	N/A
White / Blue	Aux Data	1 A (24 AWG)
Coax (RG179)	Coax (RG179-750hm)	N/A
Blue	Aux Data	1 A (24 AWG)

POSITIONIT SPECIFICATIONS

Model	PI-35	PI-75	PI-150
Payload Capacity* (ft lb / Nm)	35 / 47	75 / 101	150 / 202
Overall Height (in. / mm)	9.7 / 246	11.32 / 287.7	11.32 / 287.7
Overall Width (in. / mm)	10.8 / 273	9.21 / 234	12.4 / 314
Overall Depth (in. / mm)	5.7 / 144	6.8 / 171	6.8 / 171
Weight (lb. / kg)	20 / 9	35 / 16	37 / 17
Operating Temperature (°F / °C)	-40 to 140 / -40 to 60		
IP Rating	IP68 - Waterproof (immersion) and Dustproof		
Pan Axis	400° (± 200°)		
Pan Speed (proportional)	1° to 12° seconds	0.02° to 6.5° seconds	
Tilt Axis	180° (± 90°)		
Tilt Speed (proportional)	1° to 12° seconds	0.02 to 5.5° seconds	
Backlash	≤ 0.15°		
Repeatability	≤ 0.3°		
Maximum Continuous Power	44 W		
Maximum Running Current	1.85 amps		
Input Voltage	24 VDC - Converters available for 12 VDC and AC power sources		

*Capacity measured at 12 inches or less from the tilt axis. | Dimensions and weights are for reference only and are subject to change. Contact Will-Burt for current engineering specifications.

POSITIONER RACK MOUNT CONTROLLER

Works with Will-Burt Mobile and Static Positioners

The 19-inch (2U) Rack Mount Positioner Controller from Will-Burt is loaded with new features. You will always know the status of the positioner with real-time positional, speed, and status feedback. Control multiple positioners and third-party equipment with a single controller. This controller is optimized for positioners with stow and deploy buttons located on the front panel.

The latest Positioner Controller from Will-Burt will simplify deployment and operation of communications and video equipment.

ESSENTIAL FEATURES

- LCD Home Screen displays real-time positioner information
- LCD Selector Menu provides additional control functionality
- Control third-party equipment through (7) digital discrete outputs with USB and RS-485 inputs
- Control multiple positioners in single system through address selection
- Positioner control with front panel directional push buttons and configurable 'Stow' and 'Unstow' presets
- Pelco-D over RS-485 half-duplex output to positioner
- 100-240VAC input voltage with 24VDC output voltage to positioner

POSITIONER HANDHELD CONTROLLER

The Pelco-D compatible handheld controller with LED screen has all of the features necessary to optimize the performance of the PositionIt positioner. The precision 4D joystick controller flawlessly controls the pan and tilt functions. Includes LED screen, keyboard and programmable presets that simplify operation. The positioner handheld controller can also be optionally used in conjunction with the pan and tilt positioner controller.



COMMUNICATIONS / SURVEILLANCE

POSITIONIT®



SPECIFICATIONS

Input Voltage	100-240VAC
Output Voltage	24VDC
Communication Interface	Pelco-D over RS-485 half-duplex at 2400 bps
Operating Temperature (°F / °C)	32 to 122 / 0 to 50
Dimensions (in. / cm)	19 x 3.5 x 11.7 / 48.26 x 8.81 x 29
Weight (lb. / kg)	6.6 / 3

SPECIFICATIONS

Input Voltage	12V DC
Communication Interface	RS485
Operating Temperature (°F / °C)	15 - 131 / 0 - 55
Dimensions (L x W x H) (in. / mm)	6.2 x 5.9 x 4.2 / 458 x 150 x 107

COMMUNICATIONS

QUICK ERECTING ANTENNA MAST (QEAM)

Extended Heights up to 112.0 ft. / Payload Capacity up to 180 lb

Designed for manual or motorized operation, Will-Burt's QEAM (Quick Erecting Antenna Mast) Family of lightweight composite or aluminum masts elevate light payloads for ground-mounted or vehicle, trailer and shelter deployment.

SCREW DRIVE

Will-Burt's Screw Drive QEAM is a lightweight, high strength telescopic mast that offers a rigid, stable platform for elevating critical payloads.

ESSENTIAL FEATURES

- Easy manual crank up
 - Reliable deployment without power
- Automatic locking collars
 - Locks at any desired height
 - Patented latch mechanism
- Standard ground mounting kits with guylines and transport bag included
- Optional vehicle and shelter mounting kits available



STRAP DRIVE

The Strap Driven QEAM uses an internal strap wound between tube sections for mast elevation. Designed for manual operation, The Strap Drive QEAM has heavier payload weight-lifting capability, and is available in 21, 25, 30 and 34 meter heights.

ESSENTIAL FEATURES

- Maintains azimuth - minimal twist deflection
 - Reliable full-length external keyways
- Positions payload at any height
 - Automatic locking collars - patented latch system
- Manual mechanical drive
 - Reliable deployment without power
- Automatic locking collars
 - Locks at any desired height with patented latch mechanism
- Mechanical stops
 - Prevents over-extension
- Full length keys on sections
 - Prevents twist
- Maintenance free
 - Polymer drive nuts require no greasing
- Built in cable management
 - Cable loops added at collars
- Corrosion resistant
 - All parts are anodized aluminum & stainless steel
 - Drive crank is a completely sealed mechanism



Q★E★A★M
QUICK ERECTING ANTENNA MAST

SPECIFICATIONS

QEAM	TM 10 (Aluminum)	TM 21	TM 25	TM 30	TM 34
Extended Height (ft. / mm)	32.8 / 10.0	68.9 / 21.0	82.0 / 25.0	98.4 / 30.0	111.5 / 34.0
Nested Height (ft. / mm)	7.9 / 2.4	14.6 / 4.45	14.8 / 4.5	19.3 / 5.9	19.0 / 5.8
Payload Capacity (lb / kg)	15 / 7	180 / 80	150 / 68	150 / 68	110 / 50
Weight (Mast Only) (lb / kg)	19 / 42	197 / 90	220 / 100	250 / 114	265 / 121
Weight (Accessory Kit) (lb / kg)	52 / 24	245 / 111	275 / 125	275 / 125	275 / 125
Number of Sections	5	6	7	6	7
Guying	2 level / 3 way	4 level / 4 way	5 level / 4 way	5 level / 4 way	5 level / 4 way
Maximum Sail Area (ft. ² / m ²)	6 / 0.6 CD=1.5	6 / 0.6 CD=1.5	6 / 0.6 CD=1.5	6 / 0.6 CD=1.5	6 / 0.6 CD=1.5
Ice load (in. / mm)	0.5 / 12.7	0.5 / 12.7	0.5 / 12.7	0.5 / 12.7	0.5 / 12.7
*Maximum Erection Wind (mph / km/h)	25 / 40	25 / 40	25 / 40	25 / 40	25 / 40
Operational Wind (mph / km/h)	60 / 97	60 / 97	60 / 97	60 / 97	60 / 97
Survival Wind (mph / km/h)	80 / 128	80 / 128	80 / 128	80 / 128	80 / 128
Surface Mounting	±15° slope	±15° slope	±15° slope	±15° slope	±15° slope
Deployment Time	2 persons, 7.5 min	3 persons, 25 min	3 persons, 30 min	3 persons, 30 min	3 persons, 30 min
Drive System	Screw Drive	Strap Drive	Strap Drive	Strap Drive	Strap Drive
Finish	CARC Green	MIL-A-8625 Type II, CL 2 Black			

Specifications are for reference only and subject to change. Please contact Will-Burt Engineering for current and exact specifications. *Must be guyed for wind speeds over 25 mph / 40km/h

COMMUNICATIONS

CLARK QT SERIES PNEUMATIC MASTS**Extended Heights up to 49.2 ft. / Payload Capacity up to 44 lb**

The QT Range of lightweight telescopic pneumatic masts are designed to be portable and erected quickly where they are required. Available in a wide range of heights from 3m to 15m and in a range of sizes to suit varying headloads. It is a highly versatile system capable of being field mounted using a folding tripod stand or field guy set. Equally at home when mounted to a vehicle or shelter, the QT Range is designed to be versatile. Made from high strength 16 swg aluminium tube to save weight, the QT Range is non keyed and each section is fitted with a locking collar. Payloads are quickly attached using the quick clamp 24mm socket.

ESSENTIAL FEATURES

- Lightweight and portable
- Integral handpump
- 5/8 in. / 24mm quick clamp top socket
- Field, vehicle or shelter mounted
- Locking collars

**SPECIFICATIONS**

Clark QT Series	CQTX4-6/HP	CQTX6-6/HP	CQTX8-6/HP	CQTX10-6/HP	CQTX12-6/HP	CQTX15-7/HP
Extended Height (ft. / m)	13.1 / 4.0	20.0 / 6.10	26.1 / 7.95	33.3 / 10.15	40.0 / 12.20	49.2 / 15.0
Nested Height (ft. / m)	3.5 / 1.05	4.9 / 1.50	5.9 / 1.80	7.2 / 2.20	8.7 / 2.65	9.2 / 2.80
Payload Capacity (lb. / kg)	44 / 20	44 / 20	44 / 20	40 / 18	33 / 15	22 / 10
Approximate Mast Weight (lb. / kg)	18.8 / 8.5	23.9 / 10.8	29.2 / 13.2	33.1 / 15.0	39.7 / 18.0	46.3 / 21.0
Number of Sections	6	6	6	6	6	6
Tube Diameter (in. / mm)	3.5 / 88.9	3.5 / 88.9	3.5 / 88.9	3.5 / 88.9	3.5 / 88.9	3.5 / 88.9
Collar Type	Non-Rotatable	Non-Rotatable	Non-Rotatable	Non-Rotatable	Non-Rotatable	Non-Rotatable
Time to Extend (seconds)	15	30	40	50	60	70
Time to Retract (seconds)	10	20	30	40	45	60
Finish	Natural Anodized	Natural Anodized	Natural Anodized	Natural Anodized	Natural Anodized	Natural Anodized

QT SERIES MK VI TRIPOD

All MK VI tripods can either be stored vertically or horizontally and suitable for non-rotatable masts up to 15 meters. Additionally, a tripod mounting bracket is available for all QT models, allowing the mast to be fixed onto a wall, vehicle, or shelter. A ground, vehicle, or shelter tripod is equipped with a locking block which enables the user to attach this tripod to the tripod mounting bracket for compact vertical storage, with or without the mast.

SPECIFICATIONS

Clark MK VI Tripod	CM-36585	CM-36586	CM-36587	CM-36588	CM-36589	CM-36590
Extended Height (ft. / m)	13.1 / 4.0	20.0 / 6.1	26.0 / 7.9	33.3 / 10.1	40.0 / 12.2	49.2 / 15.0
Weight (lb / kg)	25.2 / 11.4	28.0 / 12.7	30.9 / 14.0	34.0 / 15.4	36.9 / 16.7	40.0 / 18.0



Mast Wall Mounting Bracket



Top Adaptor



Large Universal Antenna Adaptor



2" Hitch Mount Assembly



QT Mounting Post



Camera Adaptor

COMMUNICATIONS

HURRY-UP PORTABLE PUSH UP TELESCOPING MAST

Extended Heights up to 30.0 ft. / Payload Capacity up to 20 lb

The Hurry-Up manual push-up mast, can be extended to a full height of 30 ft. / 9 m in one minute or less. The Hurry-Up mast features quick lock/release collars. Extend the mast manually by pushing up the sections and fixing them in position. This mast is ideal for fast deployment of light-weight antennas and instruments.

ESSENTIAL FEATURES

- Rigid Azimuth Locking Collars
 - Quick direction adjustments
- Black anodized finish
 - Corrosion resistant
- Simple design and operation
 - Manual push-up deployment, retraction, and locking of mast
 - Positional feedback

ACCESSORIES

(MOUNTING OPTION REQUIRED):

- Drive-on plate mounting
 - No guylines required
- Removable payload extension stub
 - Easy payload mounting
- External support brackets
 - Permanent vehicle mounting
- Hitch Mount
 - 2" Hitch – Removable



SPECIFICATIONS

Hurry-Up Models	719900790	719901610	903614	710103010
Extended Height (ft. / m)	6.8 / 2.1	17.3 / 5.3	24.9 / 7.6	29.5 / 9.0
Nested Height (ft. / m)	3.2 / 1.0	5.3 / 1.6	5.9 / 1.8	6.6 / 2.0
Payload Capacity (lb / kg)	20 / 9	20 / 9	20 / 9	20 / 9
Approximate Weight (lb / kg)	15 / 7	19 / 9	29 / 13	36 / 16
Number of Sections	3	4	6	6
Tube Diameter (in. / mm)	3.50-2.625 / 89-67	3.50-2.25 / 89-57	3.50-1.50 / 89-38	3.50-1.50 / 89-38
Collar Type	Friction Locking	Friction Locking	Friction Locking	Friction Locking
Finish	Black Anodize, MIL-A-8625, Type II, Class 2	Black Anodize, MIL-A-8625, Type II, Class 2	Black Anodize, MIL-A-8625, Type II, Class 2	Black Anodize, MIL-A-8625, Type II, Class 2

DEPLOYMENT OPTIONS

Hitch Mount

2" Removable Hitch



Drive-On Plate

No Guylines
Required



External Mount

Shelf and Support
Brackets



COMMUNICATIONS

ANTENNAMAST MODEL AM2**Extended Heights up to 49.2 ft. / Payload Capacity up to 99 lb**

The AntennaMast model AM2 is a rugged, lightweight, man-portable, aluminum tripod mast designed for rapid payload deployment. The AM2 is extremely flexible and reliable and is capable of elevating multiple devices on a single mast.

PAYLOAD DEPLOYMENT OPTIONS

- The EZ Raze™ system with cable winching device and safety brake enables the user to lift and lower heavier payloads in a safe and controlled manner without disassembling the mast system.
- The mast tube lift winch provides a mechanical assist for the lifting of the mast tubes for heavier payloads.
- The user is also able to elevate the mast tubes and payload by breach loading the tubes through the tripod center collar.

ESSENTIAL FEATURES

- Rapid set-up
 - Includes a tripod with two (2) built-in levels and large no-slip adjustment knobs that are easy to operate. Interlocking mast tubes allow for directional adjustment of the payload.
- Flexible
 - A variety of payload adaptors and accessories are available to accomplish diverse missions.
- Simple
 - No tools or special training are needed for deployment.
- Rugged
 - Designed to meet MIL-STD-810 for use in a variety of harsh environments.
- Durable
 - Components are constructed of aluminum and stainless steel and are covered by a two (2) year warranty.
- Complete system
 - AM2 system includes all components needed to safely deploy rated payload at selected height.
- Transportable
 - Every mast system comes with a rugged wheeled transport bag designed for easy unloading and loading.



AM2 with EZ Raze Payload Elevation System

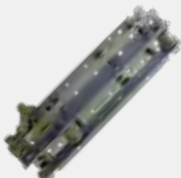
Easily elevate and lower multiple antennas and sensors



AM2 with Mast Tube Lift Winch



Nato Plate



EZ-Raze



Dual, Tri & Quad
Arm Collar



Bolster Plate



Half Clamp



A full range of accessories and payload adaptors are available for the AntennaMast

COMMUNICATIONS

EXPEDITION SERIES**Extended Heights up to 60.0 ft. / Payload Capacity up to 40 lb****The lightest, most stable, single-man portable field mast in the world.**

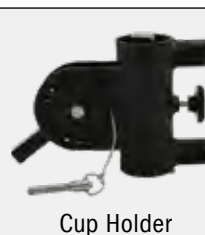
The Will-Burt Expedition Series offers a variety of added features for increased performance and convenience. The system includes a 150mm diameter payload adapter. The Ranger™ Mast has a large tripod base, making the mast very stable. It is erected with 4.0 ft. / 1.2m tube sections to heights from 8.0 ft. / 2.5m to 60 ft. / 18.3m. A custom payload interface can be designed to fit specific needs. The Expedition Series tripod and mast are constructed of carbon composite material.

ESSENTIAL FEATURES

- Lighter weight than aluminum
 - Easier to transport and deploy
- Stronger
 - More durable - won't bend or break
- Stiffer
 - More stable for payloads
- Quicker, easier set-up and retraction
 - Faster deployment
- Easier transportability
- Two compact transport pack options allow you to select the best one to fit your deployment needs
- Large, adjustable tripod
- Friction Locks for height adjustment
- Ergonomic Tube Lifter
- Two Highly Visible Bubble Levels

EXPEDITION

SERIES



A full range of accessories and payload adaptors are available for the Expedition Series

SURVEILLANCE / COMMUNICATIONS / COUNTER UAS

WILL-BURT INTEGRATION & ELEVATION SYSTEMS

The Will-Burt Company, with the acquisition of Aluma Tower and Integrated Tower Systems (ITS) now offers integrated Telescoping Steel and Aluminum Tower Systems AND Telescoping Mast Systems – an elevation solution for every need! Will-Burt is a global leader in the design, manufacture, sales and rental of an extensive and affordable line of rapid-deployment Mobile Tower & Mast Systems; Tower & Mast Integrated Trailers, Trucks, Cell-on-Wheels (COWs), and Mast-, Satellite- and Tower-Integrated Mobile Command and Communication Centers. This state-of-the-art equipment is designed specifically to support a global contingent of clientele representing the following industries:

- Telecommunications, Infrastructure Development / Restoration; Tower Owners/Operators Multi-media, Broadcasting
- First Responder, Public Safety and Emergency Management; Law Enforcement, Incident Command, Search & Rescue
- National Security / Homeland Defense, Domestic & Foreign Military Initiatives; Tactical, Support Functions, and Counter UAS
- Border Security, Immigration and Customs Enforcement; Disaster Preparedness/Emergency Response
- Geophysical, Oil & Gas and Alternative Energy; Meteorological, Frequency and Weapon Systems Testing
- Transportation, Aviation, Aerospace and Construction; Entertainment, Logistics, Engineering, Municipal & Corporate Programs
- Global Support of Special Events; Political, Commercial, Industrial, Sporting, Civic and Numerous other Industries

Will-Burt's innovative rapid response systems are manufactured to both civilian and defense specifications and built to withstand many of the world's most demanding environments. Will-Burt controls every aspect of manufacture and assembly through an ISO 9001:2015 certified quality management system in all manufacturing locations. Will-Burt's engineering expertise and vertical integration capabilities allow for efficient COTS products and unique custom designs for the seamless installation of common or client-specific technologies, or pre-integrated with a Will-Burt or client-furnished Communications, Surveillance, or Counter UAS Solution. Will-Burt's rapidly deployed systems are proven key components in establishing the flow of vital information from remote and urban areas of need.

Flexi-Fleet rental tower and mast systems are ready for deployment in case of emergencies.



Steel Telescoping Tower
Integrated Trailer System



Telescoping Pneumatic Mast
Integrated Trailer System



Aluminum Telescoping Tower
Integrated Trailer System

COMMON APPLICATIONS

- | | | | |
|---|--|--|------------------------|
| • Border Security | • Lighting | • Sensor Applications | • Telecommunications |
| • Counter UAS | • Surveillance | • Systems Testing | • Temporary Cell Site |
| • Disaster Recovery /
Emergency Response | • Remote Communications
Site Security | • Energy Exploration /
Production Sites | • Lightning Protection |
| | | | • Broadcast |

SURVEILLANCE / COMMUNICATIONS / COUNTER UAS

INTEGRATED TELESCOPING STEEL TOWER SYSTEMS

Unguyed & Guyed Extended Heights up to 130 ft. / Standard Payloads up to 550 lb | Upgraded Payloads up to 625 lb

Unguyed & Guyed Heights (ft. / m)						
38 / 11.6	55 / 16.8	72 / 21.9	89 / 27.1	106 / 32.3	120 / 36.6	130 / 39.6
Tower Payload Capacity (lb / kg)						
Standard Payloads: Up to: 550 / 250				Upgraded Payloads: Up to: 625 / 284		
Representative Sample – Contact Will-Burt for Additional Options						



SRS-C SERIES – PORTABLE TOWER TRAILER



SR SERIES – MOBILE TOWER TRAILER
(Multiterrain Configuration)



IT SERIES – MOBILE TOWER TRAILER
(Urban Configuration)



NC/SR SERIES – CELL-ON-WHEELS (COW) TOWER TRAILER



TMT SERIES – TRUCK MOUNTED TOWER SYSTEM



SKD SERIES – SKID MOUNTED



Flexi-Fleet rental tower and mast systems are ready for deployment in case of emergencies.

INTEGRATED TELESCOPING MAST SYSTEMS

Unguyed & Guyed Extended Heights up to 120 ft. / Tower Payload Capacity up to 1,200 lb

Unguyed & Guyed Heights (ft. / m)	Tower Payload Capacity (lb / kg)
Ranges: 30 / 9 to 120 / 36	Up to: 1,200 / 544
Representative Sample – Contact Will-Burt for Additional Options	

RAPID DEPLOYMENT ELEVATION SYSTEM (RD-ES)



For additional details, download our Mobile Elevation Systems brochure or visit willburt.com



COW SERIES – TRAILER MOUNTED MAST

(Vertical Mast Installation)



ULTRA MAST - INTEGRATED SURVEILLANCE SYSTEM



RD-S SERIES & RD-T SERIES – TRAILER MOUNTED MAST

(Multiterrain Configuration)



RD-S Series - Single Axle



RD-T Series - Tandem Axle

LC SERIES & MT SERIES – TRAILER MOUNTED MAST

(Urban Configuration)



LC Series - Single Axle



MT Series - Tandem Axle

Flexi-Fleet rental tower and mast systems are ready for deployment in case of emergencies.

SURVEILLANCE / COMMUNICATIONS / COUNTER UAS

INTEGRATED TELESCOPING ALUMINUM TOWER SYSTEMS

Unguyed Extended Heights up to 106 ft. | Guyed Extended Heights up to 92 ft.

Unguyed Tower Payloads up to 600 lb | Guyed Tower Payloads up to 275 lb

Unguyed Heights (ft. / m)	Guyed Heights (ft. / m)
Ranges: 39 / 11.8 to 106 / 32	Ranges: 39 / 11.8 to 92 / 28
Unguyed Tower Payload Capacity (lb / kg)	Guyed Tower Payload Capacity (lb / kg)
Ranges: 350 / 158 to 600 / 272	Ranges: 50 / 22 to 275 / 124
Representative Sample – Contact Will-Burt for Additional Options	

Patented Radial Pressure Slide Bar System

Increases tower stability by reducing tower section movement when deployed.



TM53-70 SUPER SCORPION







TM55-90









Self-Monitoring Systems available with SMARTTOWER® technology

Automatically retracts tower or sends SMS message in severe weather allowing you to make the final decision.

S812 WITH SHELTER





TM12





CUSTOM SOLUTIONS







SKID SYSTEM



Flexi-Fleet rental tower and mast systems are ready for deployment in case of emergencies.

MAST AND TILT SYSTEMS

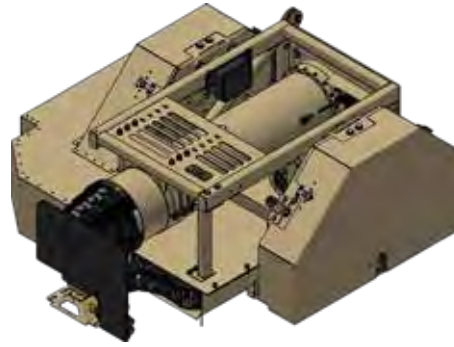
for Trailers, Trucks, and Shelters

Heights up to 28 ft. / Payload Capacity up to 600 lb

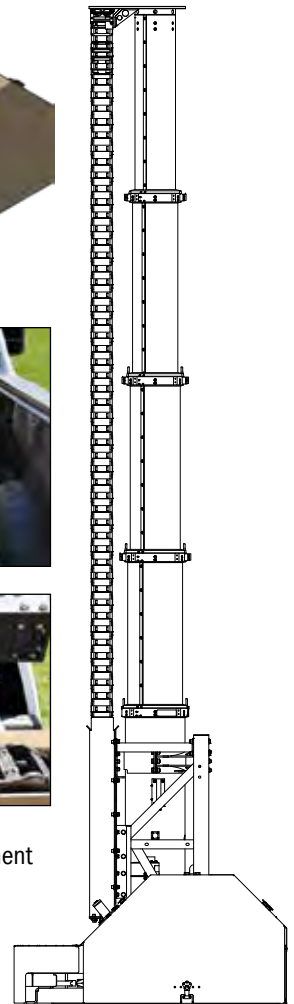
COMPACT ELEVATION SYSTEM (CES)

ESSENTIAL FEATURES

- Compact
 - Elevation system and payload fits within 8 ft. / 2.4m full-size pickup bed envelope with 4m and 6m masts
 - Up to 24.7 ft³ / 0.7m³ available space for the sensor payload
- Designed for transport while in horizontal or vertical positions (with mast stowed)
- 30 second tilt time
- Minimized mast twist
 - Full-length mast section keys and keyways
- Strong and Robust
 - No need for guying with field-proven rugged telescoping mast design
- Flexible Installation
 - Skid design allows for installation on a variety of platforms (truck, trailer, shelter)
 - Available with a variety of Will-Burt mechanical telescoping masts
 - Optional Zig Zag e-Chain cable management system is compact and consumes no payload space
- Integrated Controls
 - Fully integrated control system
 - PC control capable
 - CAN-bus J1939 / RS485 Serial



Zig Zag e-Chain
Cable Management



SPECIFICATIONS

CES Models	4.0m Stiletto AL	6.0m Stiletto AL	8.54m Stiletto AL	4.0m Stiletto AL HD	6.0m Stiletto AL HD
Stowed Dimensions (L x W x H) (in. / mm)	54.0 x 53.1 x 21.8 / 1372 x 1349 x 555	65.8 x 53.1 x 21.8 / 1672 x 1349 x 555	77.7 x 53.1 x 21.8 / 1973 x 1349 x 555	54.0 x 53.1 x 21.8 / 1372 x 1349 x 555	65.8 x 53.1 x 21.8 / 1672 x 1349 x 555
Extended Height (ft. / m)	13.7 / 4.1	20.2 / 6.1	28.6 / 8.7	13.7 / 4.1	20.2 / 6.1
Payload Capacity (lb / kg)	400 / 181	400 / 181	390 / 176	600 / 272	550 / 249
Telescopic Mast Type	Aluminum Mechanical Screw-Drive with Patented Automatic Locks			Aluminum Mechanical Screw-Drive with Patented Automatic Locks	
Survival Wind Speed (mph / km/h)	81 / 130	81 / 130	72 / 116	81 / 130	81 / 130
Deployment Wind Speed (mph / km/h)	40 / 65	40 / 65	36 / 58	40 / 65	40 / 65
Tilt Up / Mast Deploy / Mast Retract / Tilt Down / Total Cycle Time / Approximate - Payload Dependent	50 / 35 / 35 / 45 / 165 seconds	50 / 60 / 60 / 45 / 215 seconds	50 / 100 / 100 / 45 / 295 seconds	50 / 45 / 45 / 45 / 185 seconds	50 / 65 / 65 / 45 / 225 seconds
Rotation Accuracy (Twist)	+/-1°	+/-1°	+/-1°	+/-0.7°	+/-0.7°
Voltage (MIL-STD 1275)	28 VDC	28 VDC	28 VDC	28 VDC	28 VDC
*Typical Payload Sail Area (ft. ² / m ²)	17 / 1.58 CD=1.5	12 / 1.11 CD=1.5	11 / 1.02 CD=1.5	17 / 1.58 CD=1.5	12 / 1.11 CD=1.5
CES + Mast Weight (lb / kg)	1,040 / 472	1,089 / 494	1,139 / 517	1,110 / 504	1,175 / 533
Integrated System Control	CAN-bus J1939, RS485 Serial, PC Control Capable			CAN-bus J1939, RS485 Serial, PC Control Capable	
MIL-STD 810 Design	Yes	Yes	Yes	Yes	Yes
Optional Cable Management Available	Yes	Yes	Yes	Yes	Yes

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

SURVEILLANCE

SURVEILLANCE / COMMUNICATIONS / COUNTER UAS

MAST AND TILT SYSTEMS

for Trailers, Trucks, and Shelters

Heights up to 49.2 ft. / Payload Capacity up to 600 lb

AUTOMATIC MAST TILT SYSTEM (AMTS)

ESSENTIAL FEATURES

- Strong and Robust
 - Designed for transport while in horizontal or vertical positions (with mast stowed)
 - No need for guying with field-proven rugged telescoping mast design
 - 45 second tilt time
- Minimized mast twist
 - Full-length mast section keys and keyways
- Strong and Robust
 - No need for guying with field-proven rugged telescoping mast design
- Flexible Installation
 - Skid design allows for installation on a variety of platforms (truck, trailer, shelter)
 - Available with a variety of Will-Burt mechanical telescoping masts
 - Optional Zig Zag e-Chain or Nycoil cable management systems
- Integrated Controls
 - Fully integrated control system
 - PC control capable
 - CAN-bus J1939 / RS485 Serial



Integrated Control System



Nycoil Cable Management



MAST AND TILT SYSTEMS

for Trailers, Trucks, and Shelters

SURVEILLANCE / COMMUNICATIONS / COUNTER UAS

AUTOMATIC MAST TILT SYSTEM (AMTS)

SPECIFICATIONS

AMTS with Stiletto AL	4.0m Stiletto AL	6.0m Stiletto AL	8.5m Stiletto AL	10.0m Stiletto AL	15.0m Stiletto AL
Stowed Dimensions (Lx W x H) (in. / mm)	69.25 x 36.25 x 36.76 / 1758.9 x 920.7 x 933.8	69.25 x 36.25 x 36.76 / 1758.9 x 920.7 x 933.8	80.02 x 36.25 x 36.76 / 2032.5 x 920.7 x 933.8	88.68 x 36.25 x 36.76 / 2252.5 x 920.7 x 933.8	109.37 x 36.25 x 36.76 / 2777.4 x 920.7 x 933.8
Extended Height (ft. / m)	13.7 / 4.1	20.2 / 6.1	28.5 / 8.7	33.3 / 10.1	49.7 / 15.1
Payload Capacity (lb / kg)	400 / 181	400 / 181	400 / 181	400 / 181	350 / 158
Telescopic Mast Type	Electro-Mechanical				
Survival Wind Speed (mph / km/h)	130 / 209	115 / 185	80 / 129	80 / 129	62 / 100
Deployment Wind Speed (mph / km/h)	40 / 64	40 / 64	35 / 56	35 / 56	30 / 48
Tilt Up / Mast Deploy / Mast Retract / Tilt Down / Total Cycle Time / Approximate - Payload Dependent	45 / 35 / 35 / 45 / 160 Seconds	45 / 60 / 60 / 45 / 210 Seconds	45 / 100 / 100 / 45 / 290 Seconds	45 / 100 / 100 / 45 / 290 Seconds	45 / 150 / 150 / 45 / 390
Rotation Accuracy (Twist)	+/-1°	+/-1°	+/-1°	+/-1°	+/-1°
Voltage (MIL-STD 1275)	28 VDC	28 VDC	28 VDC	28 VDC	28 VDC
*Typical Payload Sail Area (ft. ² / m ²)	17 / 1.58 CD=1.5	12 / 1.11 CD=1.5	11 / 1.02 CD=1.5	11 / 1.02 CD=1.5	8 / .74 CD=1.5
AMTS + Mast Weight (lb / kg)	1075 / 489	1124 / 511	1174 / 534	1205 / 548	1315 / 598
Integrated System Control	CAN-bus J1939, RS485 Serial, PC Control Capable				
MIL-STD 810 Design	Yes	Yes	Yes	Yes	Yes
Optional Cable Management Available	Zig Zag e-Chain or Nycoil	Zig Zag e-Chain or Nycoil	Zig Zag e-Chain or Nycoil	Zig Zag e-Chain or Nycoil	Zig Zag e-Chain or Nycoil

AMTS with Stiletto AL HD	4.0m Stiletto AL HD	6.0m Stiletto AL HD	8.5m Stiletto AL HD	10.0m Stiletto AL HD	12.0m Stiletto AL HD
Stowed Dimensions (Lx W x H) (in. / mm)	69.25 x 36.25 x 36.76 / 1758.9 x 920.7 x 933.8	69.25 x 36.25 x 36.76 / 1758.9 x 920.7 x 933.8	80.02 x 36.25 x 36.76 / 2032.5 x 920.7 x 933.8	88.68 x 36.25 x 36.76 / 2252.5 x 920.7 x 933.8	108.16 x 36.25 x 36.76 / 2747.3 x 920.7 x 933.8
Extended Height (ft. / m)	13.7 / 4.1	20.2 / 6.1	28.5 / 8.7	33.3 / 10.1	12.1 / 39.9
Payload Capacity (lb / kg)	600 / 272	600 / 272	600 / 272	600 / 272	600 / 272
Telescopic Mast Type	Electro-Mechanical				
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
Tilt Up / Mast Deploy / Mast Retract / Tilt Down / Total Cycle Time / Approximate - Payload Dependent	45 / 45 / 45 / 45 / 180 Seconds	45 / 65 / 65 / 45 / 220 Seconds	45 / 90 / 90 / 45 / 270 Seconds	45 / 105 / 105 / 45 / 300 Seconds	45 / 130 / 130 / 45 / 350 Seconds
Rotation Accuracy (Twist)	+/-7°	+/-7°	+/-7°	+/-7°	+/-7°
Voltage (MIL-STD 1275)	28 VDC	28 VDC	28 VDC	28 VDC	28 VDC
*Typical Payload Sail Area (ft. ² / m ²)	17 / 1.58 CD=1.5	12 / 1.11 CD=1.5	11 / 1.02 CD=1.5	11 / 1.02 CD=1.5	8 / .74 CD=1.5
AMTS + Mast Weight (lb / kg)	1145 / 520	1210 / 550	1274 / 579	1300 / 591	1382 / 628
Integrated System Control	CAN-bus J1939, RS485 Serial, PC Control Capable				
MIL-STD 810 Design	Yes	Yes	Yes	Yes	Yes
Optional Cable Management Available	Zig Zag e-Chain or Nycoil	Zig Zag e-Chain or Nycoil	Zig Zag e-Chain or Nycoil	Zig Zag e-Chain or Nycoil	Zig Zag e-Chain or Nycoil

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

SURVEILLANCE

INTEGRATED TRAILER, MAST AND TILT SYSTEMS

Will-Burt's Integration and Elevation Systems division has been constructing integrated mobile elevation platforms for over 50 years. Will-Burt's engineering and manufacturing capabilities, guided by ISO 9001:2015 standards, produce the best and most consistent performing products in the industry.



ESSENTIAL FEATURES

- Maximizes sensor performance with powerful and precise mechanical telescopic masts
- Heights up to 49 ft. / 15m
- Payloads up to 600 lb / 272 kg
- Fast and easy deployment with integrated controls
- Optional Cable Management, Power Management, Cabinets, and other accessories available
- No need for guy systems – all options are self-supporting
- Will-Burt offers full integration of customer payloads and sensors or delivery of the elevation platform for customer payload installation



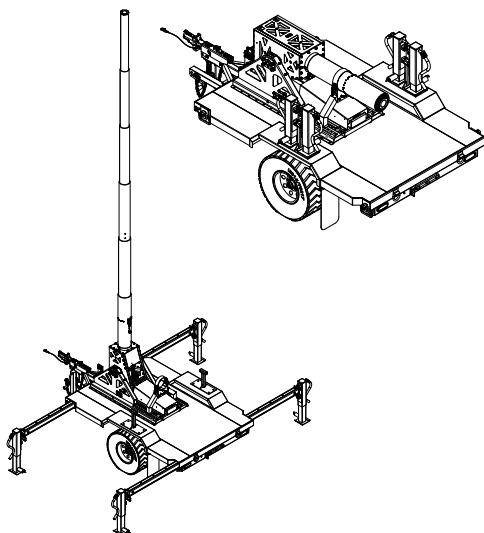
RD-S: SINGLE AXLE (AMTS / CES / Upright)

Deck Dimensions L x W x H (in. / mm)

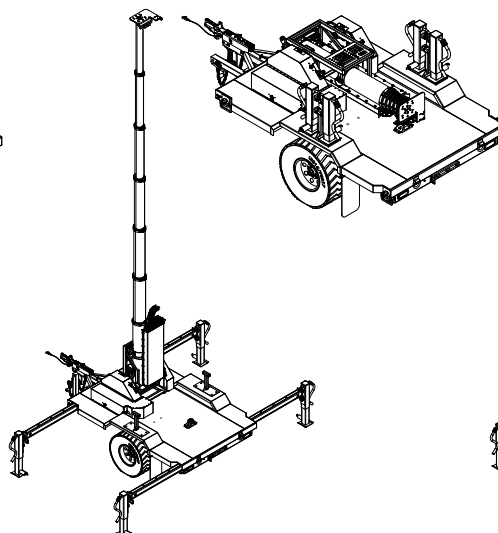
Trailer: 166 x 85 x 34 / 4216 x 2159 x 864 | **Outriggers Extended:** 166 x 203 x 34 / 4216 x 5157 x 864

Trailer Weight (lb / kg)

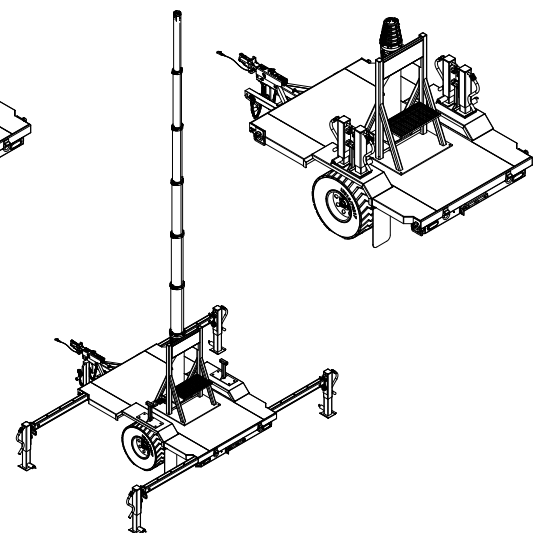
Trailer: 2,675 / 1214 | **Trailer GVWR:** 6,000 / 2722



RD-S Trailer (AMTS)
8.54m Stiletto AL HD



RD-S Trailer (CES)
8.54m Stiletto AL



RD-S Trailer (Upright)
8.54m Stiletto AL

SURVEILLANCE

INTEGRATED TRAILER, MAST AND TILT SYSTEMS

RD-T: TANDEM AXLE

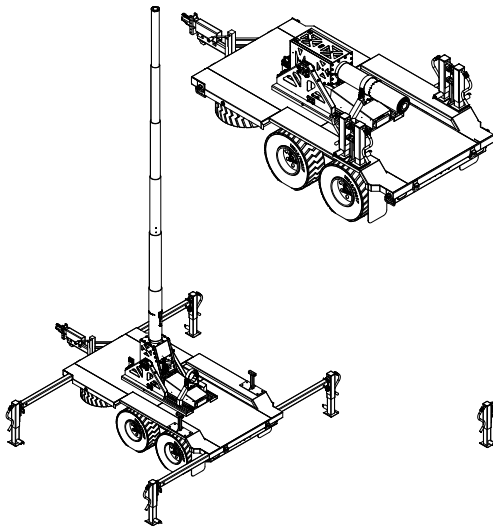
(AMTS / CES / Upright)

Dimensions L x W x H (in. / mm)

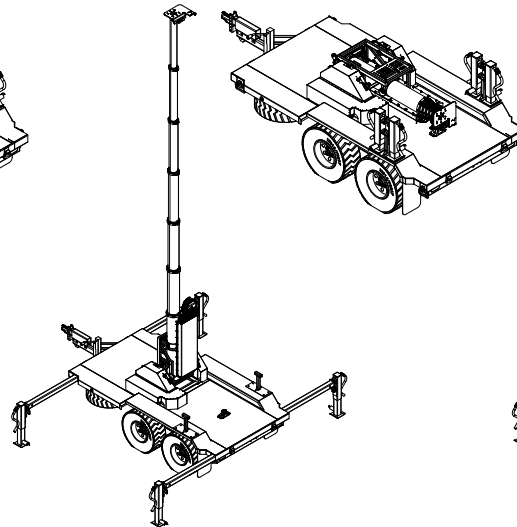
Trailer Deck: 203 x 85 x 33 / 5157 x 2159 x 839 | Outriggers Extended: 203 x 201 x 33 / 5157 x 2159 x 839

Weight (lb / kg) -

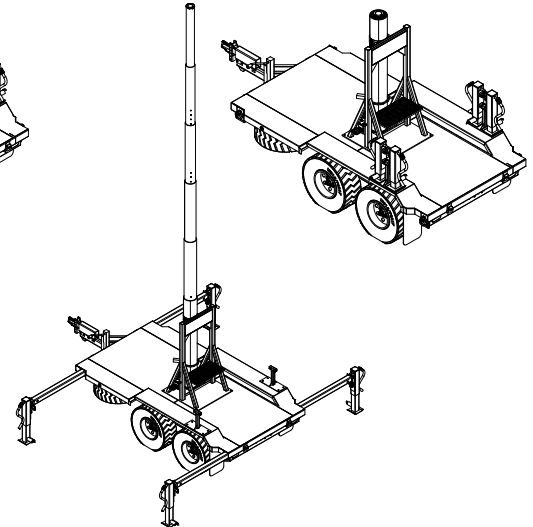
Trailer: 3,505 / 1590 | Trailer GVWR: 12,000 / 5443



RD-T Trailer (AMTS)
8.54m Stiletto AL HD



RD-T Trailer (CES)
8.54m Stiletto AL



RD-T (Upright)
8.54m Stiletto AL HD

RD-T XL: TANDEM AXLE with EXTENDED DECK

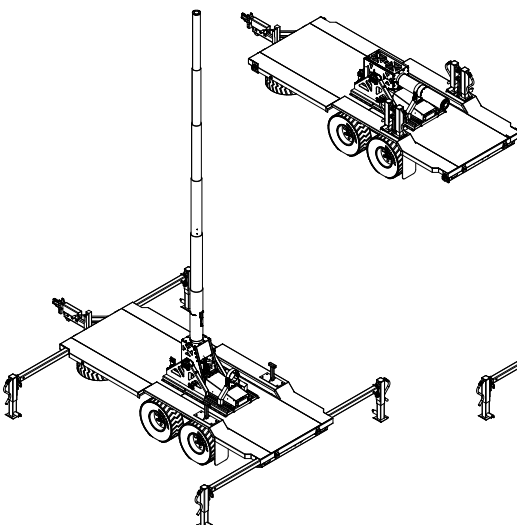
(Upright / CES / AMTS)

Dimensions L x W x H (in. / mm)

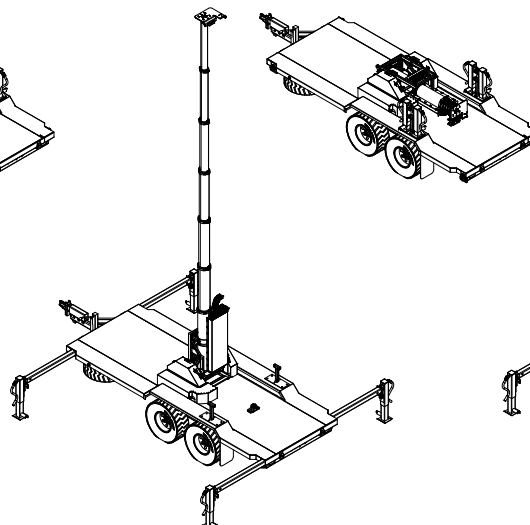
Trailer Deck: 262 x 85 x 33 / 6655 x 5106 x 839 | Outriggers Extended: 262 x 201 x 33 / 6655 x 5106 x 839

Weight (lb / kg)

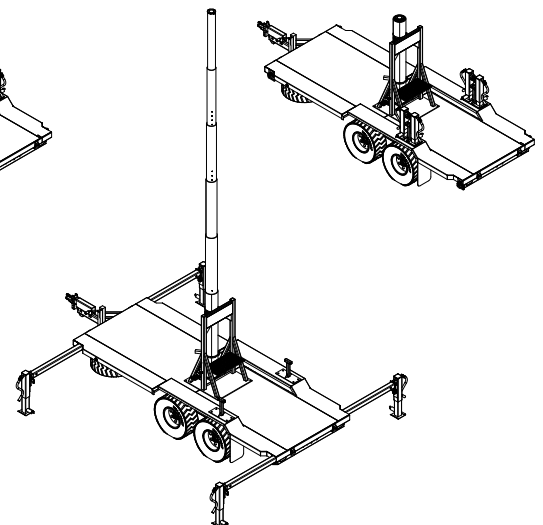
Trailer: 3,613 / 1639 | Trailer GVWR: 12,000 / 5443



RD-T XL Trailer (AMTS)
8.54m Stiletto AL HD



RD-T XL Trailer (CES)
8.54m Stiletto AL



RD-T XL (Upright)
8.54m Stiletto AL HD

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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. 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.



Disclaimer: Dimensions and weights are for reference only and are subject to change. Please contact Will-Burt for current engineering specifications.

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