



# TELECOMMUNICATIONS ELEVATION SOLUTIONS



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Will-Burt and Will-Burt Germany offer a wide variety of Portable Cellular, Broadcast and Mobile Elevation Solutions offering both short-term and long-term deployment options. Will-Burt masts and ITS towers assure optimal performance of transmission equipment by delivering elevation solutions with unsurpassed rigidity and stability.



Will-Burt's extensive line of pneumatic and mechanical telescoping masts and lattice towers offer the ability to accommodate your unique requirements; whether it is a heavy payload, extremely harsh environment, off-road travel, remote location or an extended deployment period. A commercial-off-the-shelf (COTS) or custom solution will be available to meet your specifications. We offer field, trailer and truck solutions; portable tower systems, COWS and COLTS, to fulfill your long-term and temporary communication requirements.

All of our masts and tower elevation solutions are designed and manufactured to meet or exceed rigorous safety and operational requirements. You can be assured that a Will-Burt, Will-Burt Germany, or ITS elevation solution will successfully meet your specifications and provide reliable and flawless service for years.

### **WILL-BURT ELEVATION SOLUTION ADVANTAGES**

Will-Burt's portable telescopic masts and lattice towers enable your transmission equipment to perform at their highest capability and feature:

- **Greater stability and rigidity**
- **Fast deployment and retraction time**
- **Easy one person deployment**
- **Large payload capacity**
- **Long-term deployment capability**

### **INNOVATIVE CUSTOM SOLUTIONS**

Will-Burt's specialized engineers can develop an elevation solution to meet your unique requirements.



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## PNEUMATIC NON-LOCKING LOW-PROFILE TELESCOPING MASTS

### Internal collars deliver lower nested height.

Today's ENG vehicles such as the Ford Transit and Nissan NV, require a high performance telescopic mast with a lower nested height in order to meet highway height restrictions. Will-Burt's Low-Profile mast with innovative internal collar design optimizes the nested to extended height ratio for a shorter retracted mast. Each collar is stored inside the next rather than stacking the collars one on top of the other – minimizing the stowed mast height.

An integrated locking payload top plate stabilizes the payload when stowed and in transit. Lastly, Will-Burt's mast design reduces extended mast twist for the best possible video feed.



### ESSENTIAL FEATURES

#### • Low-Nested Height

- Internal collar design minimizes height of stowed mast
- Design optimized for new, smaller ENG vehicles

#### • Precise and Stable

- Design minimizes mast twist when extended
- Integrated locking payload top plate stabilizes the payload when in transit

#### • No Maintenance Required

- No routine maintenance required under normal operating conditions
- 5 year manufacturer warranty

Internal Collar Design



Innovative Design



Locking Payload Top Plate



Low Nested Height

Reduced Mast Twist

Stabilizes in transit payload



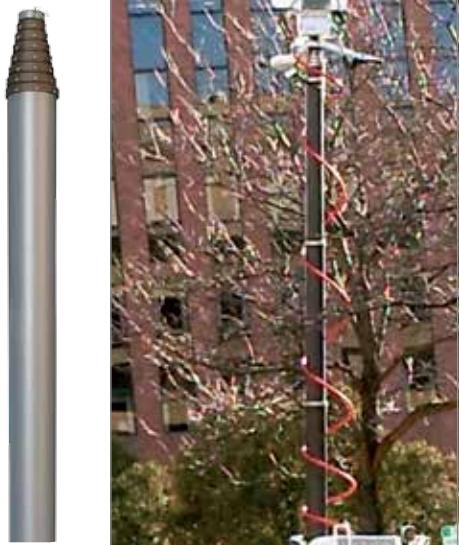
### SPECIFICATIONS

| Low Profile Models         | 7-27                       | 6-29                    | 5.3-32                | 7-42                    | 6-42                  | 7.3-50                |
|----------------------------|----------------------------|-------------------------|-----------------------|-------------------------|-----------------------|-----------------------|
| Payload Capacity*          | 300 lb. / 136 kg           | 200 lb. / 91 kg         | 200 lb. / 91 kg       | 300 lb. / 136 kg        | 200 lb. / 91 kg       | 200 lb. / 91 kg       |
| Extended Height            | 26.7' / 8.2 m              | 28.4' / 8.7 m           | 32' / 9.75 m          | 41.2' / 12.5 m          | 41.2' / 12.5 m        | 50' / 15.3 m          |
| Nested Height              | 6.5' / 2 m                 | 6' / 1.8 m              | 5.3' / 1.7 m          | 6.8' / 2.1 m            | 6.3' / 1.9 m          | 7.3' / 2.3 m          |
| Approx. Mast Weight        | 118 lb. / 53 kg            | 119 lb. / 54 kg         | 197 lb. / 90 kg       | 230 lb. / 104 kg        | 223 lb. / 101 kg      | 257 lb. / 117 kg      |
| Sections                   | 5                          | 6                       | 8                     | 8                       | 9                     | 9                     |
| Tube Diameter              | 6.75-3.75" / 17.15-9.53 cm | 6.75-3" / 17.15-7.62 cm | 9-3" / 22.86-7.62 cm  | 9-3.75" / 22.86-9.53 cm | 9-3" / 22.86-7.62 cm  | 9-3" / 22.86-7.62 cm  |
| Collars                    | Internal, Non-Locking      | Internal, Non-Locking   | Internal, Non-Locking | Internal, Non-Locking   | Internal, Non-Locking | Internal, Non-Locking |
| 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)     | 35 PSIG (2.4 bar)     |

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

## PNEUMATIC NON-LOCKING TELESCOPING MASTS

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. 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

- **Maintains Azimuth – Minimal Twist Deflection**

- Reliable full-length external keyways

- **Reliable Operation**

- Anodized aluminum with synthetic bearings

- **No maintenance required**

- No routine maintenance required under normal operating conditions
- 5 year manufacturer warranty

### SPECIFICATIONS

| Super Heavy Duty Models    | 10-38                   | 12-48                   |
|----------------------------|-------------------------|-------------------------|
| Payload Capacity*          | 1,200 lb. / 544 kg      | 1,200 lb. / 544 kg      |
| Extended Height            | 38' / 11.6 m            | 48' / 14.6 m            |
| Nested Height              | 10' / 3 m               | 12' / 3.6 m             |
| Approximate Mast Weight    | 400 lb. / 181 kg        | 475 lb. / 215 kg        |
| Number of Sections         | 5                       | 5                       |
| Tube Diameter              | 11.25-7.5" / 286-191 mm | 11.25-7.5" / 286-191 mm |
| Maximum Operating Pressure | 35 PSIG (2.4 bar)       | 35 PSIG (2.4 bar)       |

| Heavy Duty Models          | 6-25                | 7-30                | 7-42              | 8.5-48              | 8.5-52            | 9.5-56              | 9-58              |
|----------------------------|---------------------|---------------------|-------------------|---------------------|-------------------|---------------------|-------------------|
| Payload Capacity*          | 200 lb. / 91 kg     | 200 lb. / 91 kg     | 200 lb. / 91 kg   | 300 lb. / 136 kg    | 200 lb. / 91 kg   | 300 lb. / 136 kg    | 200 lb. / 91 kg   |
| Extended Height            | 25' / 7.6 m         | 29' / 8.9 m         | 41.2' / 12.5 m    | 48' / 14.6 m        | 52' / 15.8 m      | 56.2' / 17 m        | 58' / 17.7 m      |
| Nested Height              | 5.8' / 1.8 m        | 6.7' / 2 m          | 7' / 2.1 m        | 8.5' / 2.6 m        | 8.3' / 2.5 m      | 9.5' / 2.9 m        | 9' / 2.7 m        |
| Approx. Mast Weight        | 110 lb. / 50 kg     | 125 lb. / 57 kg     | 235 lb. / 107 kg  | 275 lb. / 125 kg    | 266 lb. / 121 kg  | 296 lb. / 135 kg    | 290 lb. / 132 kg  |
| Number of Sections         | 6                   | 6                   | 9                 | 8                   | 9                 | 8                   | 9                 |
| Tube Diameter              | 6.75-3" / 171-76 mm | 6.75-3" / 171-76 mm | 9-3" / 229-76 mm  | 9-3.75" / 229-95 mm | 9-3" / 229-76 mm  | 9-3.75" / 229-95 mm | 9-3" / 229-76 mm  |
| 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) | 35 PSIG (2.4 bar)   | 35 PSIG (2.4 bar) |

| Standard Duty Models**     | 5-20               | 6-27              | 7-34              | 8-30              |
|----------------------------|--------------------|-------------------|-------------------|-------------------|
| Payload Capacity*          | 70 lb. / 32 kg     | 40 lb. / 18 kg    | 40 lb. / 18 kg    | 100 lb. / 45 kg   |
| Extended Height            | 20' / 6.1 m        | 27' / 8.2 m       | 33.8' / 10.3 m    | 29.8' / 9.1 m     |
| Nested Height              | 5.3' / 1.6 m       | 6' / 1.8 m        | 7' / 2.1 m        | 8' / 2.4 m        |
| Approx. Mast Weight        | 45 lb. / 21 kg     | 54 lb. / 25 kg    | 67 lb. / 31 kg    | 64 lb. / 29 kg    |
| Number of Sections         | 6                  | 7                 | 7                 | 5                 |
| Tube Diameter              | 5-2.5" / 127-64 mm | 5-2" / 127-51 mm  | 5-2" / 127-51 mm  | 5-3" / 127-76 mm  |
| Maximum Operating Pressure | 20 PSIG (1.4 bar)  | 20 PSIG (1.4 bar) | 20 PSIG (1.4 bar) | 20 PSIG (1.4 bar) |

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

\*\*Internally wired versions available

## REMOTE LOCKING SYSTEM FOR 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 or Super Heavy-Duty pneumatic mast system up to 60' / 18m and any Ultra Heavy-Duty pneumatic mast system up to 80' / 24m.

### 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



Locks and Controls Included



Unlocked Pneumatic Actuator



Locked Pneumatic Actuator



Bottom

Control Box Included



Optional Handheld Controller

## PNEUMATIC LOCKING HD & SHD TELESCOPING MASTS

**Designed for extended deployment periods.**

Available in both Heavy Duty and Super Heavy Duty models, these masts offer a light weight elevation solution with a high payload capacity. These vehicle or trailer mounted telescoping masts feature locking collars that allow the mast to remain extended indefinitely without air pressure. Full-length keyways maintain directional azimuth and provide precise pointing accuracy.

### ESSENTIAL FEATURES

- **Maintains Height Indefinitely**

- Locking collars are easy to operate

- **Maintains Azimuth – Minimal Twist Deflection**

- Full-length external keyways

- **No Maintenance Required**

- No routine maintenance required under normal operating conditions
- 5 year manufacturer warranty



### SPECIFICATIONS

| Heavy Duty Models       | 6-25                | 7-30                | 7-32                | 7-42              | 10-60               | 14.5-80             |
|-------------------------|---------------------|---------------------|---------------------|-------------------|---------------------|---------------------|
| Payload Capacity*       | 200 lb. / 90.7 kg   | 200 lb. / 91 kg     | 400 lb. / 181.4 kg  | 200 lb. / 91 kg   | 300 lb. / 136 kg    | 400 lb. / 181 kg    |
| Extended Height         | 25' 1" / 7.62 m     | 29' 1" / 8.9 m      | 31' 6" / 9.45 m     | 41' 3" / 12.6 m   | 59' 9" / 18.3 m     | 79' 9" / 24.3 m     |
| Nested Height           | 6' 1" / 1.9 m       | 7' / 2.1 m          | 7' 2" / 2.18 m      | 7' 9" / 2.3 m     | 10' 1" / 3m         | 14' 3" / 4.3 m      |
| Approximate Mast Weight | 119 lb. / 54 kg     | 125 lb. / 57 kg     | 235 lb. / 106.6 kg  | 235 lb. / 107 kg  | 330 lb. / 150 kg    | 416 lb. / 189 kg    |
| Number of Sections      | 5                   | 6                   | 7                   | 9                 | 8                   | 7                   |
| Tube Diameter           | 3-6.75" / 76-171 mm | 6.75-3" / 171-76 mm | 4.5-9" / 114-229 mm | 9-3" / 229-76 mm  | 9-3.75" / 229-95 mm | 9-4.5" / 229-114 mm |
| Collar Type             | Locking T-Handles   | Locking T-Handles   | Locking T-Handles   | Locking T-Handles | Locking T-Handles   | Locking Trip Lines  |
| Guying Required         | Optional            | Optional            | Optional            | Optional          | Optional            | 4 way / 4 level     |
| Max. 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)   | 35 PSIG (2.4 bar)   |

### SPECIFICATIONS

| Super Heavy Duty Models | 10-44.5                  | 9-50                     | 10.3-60                  | 10.8-76                          | 11.5-76                 | 15.7-100                 | 18-120                   |
|-------------------------|--------------------------|--------------------------|--------------------------|----------------------------------|-------------------------|--------------------------|--------------------------|
| Payload Capacity*       | 980 lb. / 444 kg         | 530 lb. / 240 kg         | 530 lb. / 240 kg         | 300 lb. / 136 kg                 | 400 lb. / 181 kg        | 530 lb. / 240 kg         | 530 lb. / 240 kg         |
| Extended Height         | 44' 7" / 13.6 m          | 50' 5" / 15.3 m          | 60' 6" / 18.4 m          | 76' 2" / 23 m                    | 76' 1" / 23.17 m        | 100' 5" / 30.3 m         | 120' / 36.5 m            |
| Nested Height           | 10' / 3.05 m             | 9' 2" / 2.8 m            | 10' 5" / 3.18 m          | 10' 9" / 3.3 m                   | 11' 6" / 3.5 m          | 15' 8" / 4.8 m           | 18' 2" / 5.6 m           |
| Approximate Mast Weight | 313 lb. / 142 kg         | 500 lb. / 227 kg         | 500 lb. / 227 kg         | 536 lb. / 245 kg                 | 613 lb. / 278 kg        | 790 lb. / 361 kg         | 920 lb. / 417 kg         |
| Number of Sections      | 6                        | 8                        | 8                        | 10                               | 9                       | 8                        | 8                        |
| Tube Diameter           | 11.25-6.75" / 286-172 mm | 11.25-5.25" / 288-135 mm | 11.25-5.25" / 288-135 mm | 11.25-3.75" / 288-96 mm          | 11.25-4.5" / 286-108 mm | 11.25-5.25" / 288-135 mm | 11.25-5.25" / 288-135 mm |
| Collar Type             | Locking T-Handles        | Locking T-Handles        | Locking T-Handles        | Locking T-Handles and Trip Lines | Locking Trip Lines      | Locking Trip Lines       | Locking Trip Lines       |
| Guying Required         | Optional                 | Optional                 | Optional                 | Yes - 4 Way / 4 Level            | Yes                     | Yes - 4 Way / 4 Level    | Yes                      |
| Max. 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.

## PNEUMATIC LOCKING ULTRA HEAVY-DUTY TELESkopING MASTS

### 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

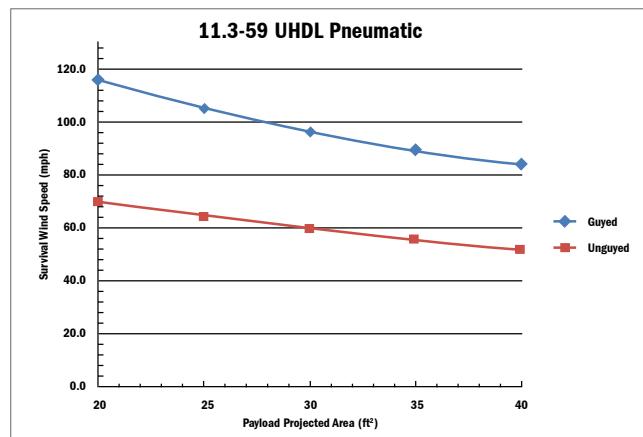
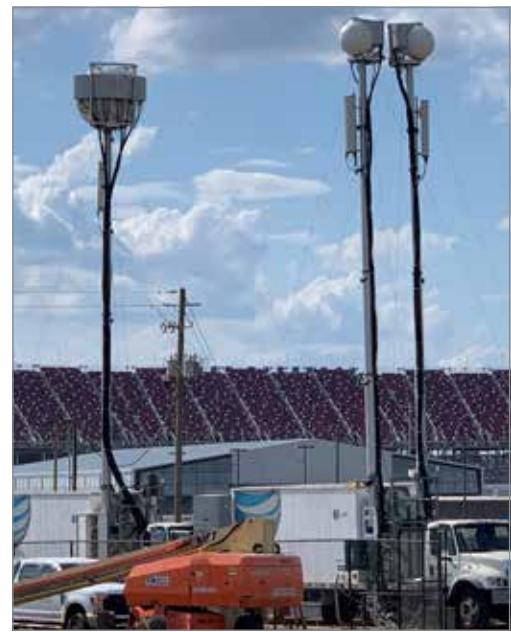
- Elevates heavier loads with greater wind sail area
- Greater unguyed performance

#### • 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 Models    | 8-39                        | 11.3-59                    | 9.8-65.6                    | 13-70                      | 14.4-80                    |
|----------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Payload Capacity*          | 980 lb. / 444 kg            | 1200 lb. / 544 kg          | 530 lb. / 240 kg            | 1200 lb. / 544 kg          | 1200 lb. / 544 kg          |
| Extended Height            | 39.3' / 12 m                | 59' / 18 m                 | 65.6' / 20 m                | 70' / 21.3 m               | 80' / 24.3 m               |
| Nested Height              | 7.9' / 2.4 m                | 11.3' / 3.4 m              | 9.8' / 3 m                  | 13' / 4 m                  | 14.4' / 4.4 m              |
| Approximate Weight         | 607 lb. / 275 kg            | 814 lb. / 369 kg           | 852 lb. / 387 kg            | 920 lb. / 417 kg           | 1078 lb. / 489 kg          |
| Number of Sections         | 8                           | 7                          | 10                          | 7                          | 7                          |
| Tube Diameter              | 13.5-6.75" / 34.29-17.15 cm | 13.5-7.5" / 34.29-19.05 cm | 13.5-5.25" / 34.29-13.34 cm | 13.5-7.5" / 34.29-19.05 cm | 13.5-7.5" / 34.29-19.05 cm |
| 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)          |

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

## PNEUMATIC SYSTEMS

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. These pneumatic systems are designed for high volume air output while being able to run for the entire duration of mast extension without overheating.

Each system is shipped completely assembled, tested and factory preset.



| 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    | 14° to 131°F / -10° to 55°C                 | 14° to 131°F / -10° to 55°C                 | 14° to 131°F / -10° to 55°C                   | 14° to 131°F / -10° to 55°C                   | 50° to 104°F / 10° to 40°C                      | -4° to 131°F / -20° to 55°C            | 50° to 104°F / 10° to 40°C                      |
| 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                   | 55.2 lb / 25 kg                             | 55.2 lb / 25 kg                             | 62 lb / 28 kg                                 | 62 lb / 28 kg                                 | 45 lb / 20.4 kg                                 | 55 lb / 24.95 kg                       | 45 lb / 20.4 kg                                 |
| Dimensions (L x W x H)   | 15.2" x 10.1" x 15" / 385mm x 255mm x 380mm | 15.2" x 10.1" x 15" / 385mm x 255mm x 380mm | 16.6" x 11.7" x 15.1" / 420mm x 295mm x 380mm | 16.6" x 11.7" x 15.1" / 420mm x 295mm x 380mm | 18.33" x 11.61" x 8.91" / 466mm x 295mm x 227mm | 16.4" x 12.6 x 9.0 / 417mm x 320 x 229 | 18.33" x 11.61" x 8.91" / 466mm x 295mm x 227mm |



| 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                  | 12VDC   | 24VDC   | 12VDC   | 24VDC   |
| CFM                      | 4.7   | 4.7   | 4.7   | 4.7   |
| Ltr / Min                | 135   | 135   | 135   | 135   |
| Operating Temperature    | 14° to 131°F / -10° to 55°C                   |
| 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                   | 55 lb / 25 kg                                 |
| Dimensions (L x W x H)   | 15.2" x 10.1" x 15.2" / 385mm x 255mm x 385mm | 15.2" x 10.1" x 15.2" / 385mm x 255mm x 385mm | 15.2" x 10.1" x 15.2" / 385mm x 255mm x 385mm | 15.2" x 10.1" x 15.2" / 385mm x 255mm x 385mm |

## MAST ACCESSORIES

### D-TEC® SAFETY SYSTEM

The D-TEC® safety system provides overhead power line detection and above-the-mast illumination. The built-in high voltage, electromagnetic and electrostatic field detection system automatically stops mast extension, providing added protection for the operator and equipment. The D-TEC® safety system is available on vertical telescoping masts.



#### ESSENTIAL FEATURES:

- Dual threshold AC alert, E-Field (current) and H-Field (magnetic)
  - AC voltage detection range starting at 110VAC/60Hz
- Senses both AC current and AC voltage
- 3-axis field detection
- LED Look-Up Light
- Audible alerts
- Alphanumeric LED display
- Built-in Emergency Bypass
- Expanded self-testing features
- Factory pre-set siren and verbal warning in English and Spanish

#### SPECIFICATIONS

| D-TEC Models             |   |
|--------------------------|---|
| Detection                | AC voltage, electromagnetic & electrostatic field detection |
| Look-up Light            | LED Look-up Light   |
| Power Requirements       | 12 VDC 10 Amps / 24 VDC 5 Amps                              |
| Interconnecting Cable    | 2 twisted pair shielded (sensor to control unit)            |
| Environmental Conditions | Sensor IP67, Control IP65                                   |
| Display Options          | 3.5" x 4.5" x 8.5" case or single height rack mount         |
| Sensor Housing           | 4.9" H x 5" W x 3.7" D                                      |

## 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" / 1.27 cm to 1.25" / 3.2 cm in diameter with lengths available up to 100 ft. / 30 m.



## PNEUMATIC MAST FINISHES

Will-Burt's Lukon 24 Mast finish is a patented process of hard anodizing aluminum surfaces and applying a permanent Teflon® lubricant. This provides improved service in all weather conditions and increases life expectancy. Field proven worldwide under all environmental conditions including military.



**WILL-BURT ALSO OFFERS STANDARD OFF THE SHELF AND CUSTOM MOUNTING AND INTEGRATION HARDWARE AND DESIGN SOLUTIONS.**

## KVL & KVR TELESCOPIC CABLE DRIVE MAST

The Family of light duty GEROH Telescopic Cable Drive Masts is characterized by lightweight construction in addition to superior stability, reliability and long life. The KVL and KVR mast systems are in use in military and commercial applications such as communications testing, surveillance and lighting and are designed for vehicle, trailer, shelter or field deployment. The mast sections consist of close tolerance precision mast profiles which ensure precise pointing accuracy. Safe deployment and retraction is assured, even with ice or heavy wind conditions.

### ESSENTIAL FEATURES

- **Automatic locking system (KVR)**
  - Deploy at any height
- **Precision tube fit**
  - Maintains azimuth
- **Powerful cable drive system**
  - Deploy and retract in extreme weather conditions
- **Optional motor drive system**
- **Designed for trailer, shelter, vehicle or field mounting**
- **MIL-STD 810-F qualified**
- **MIL-STD 810-G qualified**
- **Field Deployment Kit Optional**



### SPECIFICATIONS

| KVL                               | 120 - 2.5 KVL 3 | 120 - 4 KVL 4 | 120 - 6 KVL 5 | 120 - 8 KVL 5 | 145 - 10 KVL 6 | 145 - 12 KVL 6 |
|-----------------------------------|-----------------|---------------|---------------|---------------|----------------|----------------|
| Extended Height (ft. / m)         | 8.2 / 2.5       | 13.1 / 4      | 19.7 / 6      | 26.2 / 8      | 32.8 / 10      | 39.4 / 12      |
| Nested Height (ft. / m)           | 3.5 / 1.1       | 4.3 / 1.3     | 5.1 / 1.5     | 6.4 / 1.9     | 6.9 / 2.1      | 8.0 / 2.4      |
| Payload Capacity (lb / kg)        | 55 / 25         | 55 / 25       | 55 / 25       | 44 / 20       | 33 / 15        | 33 / 15        |
| Approximate Mast Weight (lb / kg) | 37 / 17         | 46 / 21       | 57 / 26       | 68 / 31       | 95 / 43        | 106 / 48       |
| Number of Sections                | 3               | 4             | 5             | 5             | 6              | 6              |

| KVR                               | 145 - 2.5<br>KVR 3 | 145 - 4<br>KVR 3 | 145 - 6<br>KVR 5 | 145 - 8<br>KVR 5 | 170 - 10<br>KVR 6 | 170 - 12<br>KVR 6 | 170 - 14<br>KVR 6 | 170 - 18<br>KVR 6 | 170 - 20<br>KVR 6 |
|-----------------------------------|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Extended Height (ft. / m)         | 8.2 / 2.5          | 13.1 / 4         | 19.7 / 6         | 26.0 / 7.9       | 32.8 / 10         | 39.4 / 12         | 45.9 / 14         | 59.1 / 18         | 65.6 / 20         |
| Nested Height (ft. / m)           | 4.1 / 1.2          | 5.7 / 1.7        | 5.7 / 1.7        | 6.9 / 2.1        | 7.5 / 2.3         | 8.6 / 2.6         | 9.7 / 3.0         | 11.9 / 3.6        | 13.0 / 4.0        |
| Payload Capacity (lb / kg)        | 154 / 70           | 154 / 70         | 154 / 70         | 154 / 70         | 110 / 50          | 110 / 50          | 88 / 40           | 88 / 40           | 88 / 40           |
| Approximate Mast Weight (lb / kg) | 82 / 37            | 95 / 43          | 119 / 54         | 139 / 63         | 183 / 83          | 205 / 93          | 271 / 123         | 271 / 123         | 289 / 131         |
| Number of Sections                | 3                  | 3                | 5                | 5                | 6                 | 6                 | 6                 | 6                 | 6                 |

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

## INFLEXION™ ROOF-MOUNTED TELESCOPING MAST



# INFLEXION®



The Will-Burt Company has partnered with the industry leaders in broadcast vehicle integration for over 30 years. This has allowed Will-Burt to identify advances and changes in broadcast technology early and design elevation solutions to optimize that technology.

Inflexion™ was designed to meet the elevation requirements of smaller, advanced broadcast devices. The roof-mounted, self-contained Inflexion™ can easily be integrated onto nearly any vehicle, from traditional broadcast vans to small, front-wheel drive vehicles. This allows you to take full advantage of fuel and vehicle cost savings.

### STANDARD FEATURES

- **Compact, roof-mount design**
  - No interior space needed
- **Self-contained elevation system**
  - No compressor or generator required
- **Years of reliable service**
  - Field proven design with over 25 years of service - 2 year manufacturer warranty
- **High payload capacity and height options**
  - From 5 ft. / 1.5 m to 25 ft. / 7.5 m
- **Accommodates a variety of payloads**
  - Antennas, satellite dish, radar, lighting and cameras
- **12 VDC operation**
- **Color**
  - White
- **Analog Handheld controller**
  - Includes mast up/down function



### OPTIONAL FEATURES

- **PositionIt**
  - Integrated pan and tilt positioner
- **InflexionPlus**
  - Accommodates full function handheld controller (sold separately)
- **Color**
  - Black
- **Internal wiring or Nycoil**
  - Consult factory for specific application
- **24 VDC operation**

### SPECIFICATIONS

| Inflexion Models   | 1.0                               | 1.5                             | 1.8                            | 2.3                             | 3.0                             | 4.5                             | 6.0                             | 7.5                             |
|--|-----------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Extended Height  | 39" / 99 cm                       | 59" / 150 cm                    | 60" / 152 cm                   | 79" / 200 cm                    | 108" / 274 cm                   | 168" / 427 cm                   | 228" / 579 cm                   | 287" / 729 cm                   |
| Maximum Payload Capacity*                                | 60 lb. / 27 kg                    | 60 lb. / 27 kg                  | 60 lb. / 27 kg                 | 60 lb. / 27 kg                  | 100 lb. / 45 kg                 | 100 lb. / 45 kg                 | 70 lb. / 31 kg                  | 57 lb. / 25 kg                  |
| Stowed Dimensions (Approximate)<br>(L x W x H in. / cm)  | 41.5" x 15" x 10" / 104 x 38 x 25 | 66" x 12" x 12" / 165 x 30 x 29 | 37" x 15" x 10" / 94 x 38 x 25 | 43" x 16" x 11" / 110 x 38 x 23 | 51" x 16" x 12" / 130 x 41 x 31 | 63" x 16" x 12" / 159 x 40 x 29 | 80" x 16" x 11" / 202 x 40 x 28 | 91" x 16" x 11" / 223 x 40 x 28 |
| Approximate System Weight<br>Operating Temperature Range | 60 lb. / 27 kg                    | 52 lb. / 24 kg                  | 63 lb. / 29 kg                 | 66 lb. / 30 kg                  | 105 lb. / 48 kg                 | 110 lb. / 50 kg                 | 123 lb. / 56 kg                 | 134 lb. / 61 kg                 |
| -22°F to +149°F / -30°C to +65°C                         |                                   |                                 |                                |                                 |                                 |                                 |                                 |                                 |

\*The added weight of a positioner or D-TEC II will reduce maximum payload capacity. Capacity will be affected by wind sail area. Consult factory.



## THE ADVANTAGES OF INTEGRATED TOWER SYSTEMS

Integrated Tower Systems-ITS, a Will-Burt Company, is a global leader in the manufacture, sales and rental of an extensive and affordable line of rapid-deployment Portable Tower & Mast Systems; Tower & Mast Integrated Trailers, Trucks, Communication-Site-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 ITS 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
- Homeland Defense/National Security, Domestic and Foreign Military Initiatives; Tactical and Support Functions
- Immigration and Customs Enforcement, Border Security; Disaster Preparedness/Emergency Response
- Geophysical, Oil & Gas and Alternative Energy; Meteorological, Frequency and Weapon Systems Testing
- Transportation, Aviation, Aerospace & Construction; Entertainment, Logistics, Engineering, Municipal and Corporate Programs
- Global Support of Special Events; Political, Commercial, Industrial, Sporting, Civic & other Markets/Industries Served

In an ongoing effort to support National Security, Public Safety, Emergency Response and Military Initiatives world-wide, ITS' affordable and innovative rapid response systems are manufactured to both civilian and military specifications and built to withstand many of the world's most demanding environments. Whether designed for the seamless installation of common or client-specific technologies, or pre-integrated with an ITS or client-furnished Communications or Surveillance Solution, ITS' rapidly deployed equipment are proven key components in establishing the flow of vital information from remote and urban areas of need.

**For additional information, please visit our website at [www.itstowers.com](http://www.itstowers.com) or contact an ITS Representative Toll Free at 1-(800)-850-8535.**

|   | MOBILE TOWER SOLUTIONS   | MOBILE MAST SOLUTIONS             |
|---|--|-----------------------------------|
| <b>Self-Support &amp; Guyed Heights</b> | ±38', 55', 72', 89', 106' & 130' /<br>11.6m, 16.8m, 21.9m, 27.1m, 32.3m &<br>40m   | 30' - 100' / 9m - 30m             |
| <b>Tower Capacity</b>                   | <b>Standard Payloads:</b><br>Up to: ±550 lb / 250 kg<br><b>Upgraded Payloads:</b><br>Up to: ±750 lb / 340 kg   | Payloads Up To: 1,200 lb / 544 kg |
| <b>Power</b>                            | 120-220 VAC / 60-50 Hz Configurations  |                                   |
| <b>Common Use</b>                       | Border Security • Broadcasting • Disaster Recovery / Emergency Response • Lighting • Remote Communications • Site Security • Surveillance • Energy Exploration / Production Sites • Sensor Applications • Systems Testing • Telecommunications • Temporary Cell Site |                                   |

## MOBILE TOWER SOLUTIONS



### SC SERIES – COMMUNICATION-SITE-ON-WHEELS (COW)



### TMT SERIES – TRUCK MOUNTED TOWER SYSTEM



## MOBILE MAST SOLUTIONS

### COW SERIES – TRAILER MOUNTED MAST (Vertical Mast Installation)



### RD-S / RD-T SERIES – TRAILER MOUNTED MAST (Multiterrain Configuration)



## RENTAL AND FLEXI-FLEET CONFIGURATIONS – PORTABLE TOWER SYSTEMS

ITS Rental Programs offer a wide variety of innovative, efficient and flexible options to meet customer's temporary, long-term, and emergency communications needs. Whether originating from ITS manufacturing headquarters or a Domestic or International Fleet Depot, we offer customers both in-house and field services including; training, equipment integration, deployment and decommissioning coordination, customs and transportation logistics, and other necessary services to assist with temporary use requirements.

As designed, each trailer's skeletal frame is engineered with a minimum factor of safety of 2:1, with 4:1 in critical load areas. A multi-section ~ 21'0" / 6.4m each, lattice steel telescopic structure is designed to transport horizontally over the trailer's equipment platform and automatically tilt by means of a heavy-duty, chrome plated hydraulic cylinder. The tower system is raised to its full extension utilizing a direct drive, minimum 1HP totally enclosed fan cooled (TEFC), wash-down rated electric winch motor and gearbox assembly. Each Portable Tower System model is capable of being deployed, elevated to its full-extended height, and secured by a mechanical tower lock mechanism by one person in under 30 minutes. For added security and stability during poor weather conditions, excessive loading, long-term deployment, or to minimize structure deflection for critical applications, the tower may be further protected by the use of an included guy cable and ground anchor system.

**ITS Telescopic Tower Systems**

- ±106' / 33m and ±125' / 38m Self-Supporting and Guy Capable Tower Elevations
- Fully Automated, Direct Drive Tower Operating System; No Belts, No Chains, No Guy Wires Required
- ±550 lb / 250 kg Standard Tower Load Capacity; 120-220VAC Electrical Configuration
- Greatest Self-Supporting and Guyed Wind / Payload Capacity of Any Comparable Tower System
- Multi-Terrain, Custom Drawbar Trailers with Outrigger Stabilization; Electric Brakes and LED Lighting
- 15,000 lb / 6,803 kg – 22,000 lb. / 9,977 kg Capacity GVWR; 4,000 lb / 1,814 kg to 6,000 lb / 2,721 kg Equipment Capacity



# POSITIONIT®

## For Mobile Applications

PositionIt models PI 35, PI 75 & PI 150 are maintenance-free pan and tilt positioners designed to provide years of trouble-free service. An IP68 rating delivers dust and water protection. The gear box is designed to minimize backlash and provides higher gear ratios for lower speeds along with mechanical braking. Long-life potentiometers are standard with PositionIt.



## SPECIFICATIONS

| Model                          | PI-150  | PI-75              | PI-35      |  |  |
|--------------------------------|---|--------------------|------------|--|--|
| Payload Capacity* (ft lb / Nm) | 150 / 202   | 75 ft / 101        | 35 / 47    |  |  |
| Height (in. / mm)              | 11.32 / 287.7   | 11.32 / 287.7      | 9.7 / 246  |  |  |
| Width (in. / mm)               | 12.4 / 314  | 9.21 / 234         | 10.8 / 273 |  |  |
| Depth (in. / mm)               | 6.8 / 171   | 6.8 / 171          | 5.7 / 144  |  |  |
| Weight (lb / kg)               | 37 / 16.8   | 35 / 16            | 19.5 / 8.9 |  |  |
| Operating Temperature          | -40°C to 60°C / -40°F to 140°F                                |                    |            |  |  |
| IP Rating                      | IP68 - Waterproof (immersion) and Dustproof                   |                    |            |  |  |
| Pan Axis                       | 400° (± 200°)   |                    |            |  |  |
| Pan Speed (proportional)       | 0.02 to 6.5° / second   | 1° to 12° / second |            |  |  |
| Tilt Axis                      | 180° (± 90°)  |                    |            |  |  |
| Tilt Speed (proportional)      | 0.02 to 5.5° / second   | 1° to 12° / second |            |  |  |
| 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.

## ESSENTIAL FEATURES

- **Designed for mobile applications**
  - MIL-STD 810 certified
- **Pelco-D RS-485 Communications**
- **Strong lightweight construction**
  - Die-cast aluminum casing
- **Minimal backlash**
  - Precision turned and milled components with ball races on major axes
- **Built to last**
  - Stainless steel fasteners
- **Weatherproof**
  - IP 68 rating
- **Simple to install**
- **Universal mounting plate**
  - Suitable for most common payloads
- **Corrosion resistant finish**
  - Black
- **Regenerative braking**
- On motor shaft
- **Long operational life**
  - 2-year warranty on Will-Burt PositionIt Positioners
- **Flexible connection**
  - Bottom or side
- **Replacement for MOOG QuickSet QPT Positioners**
  - Direct connection to existing QuickSet control/power cable
- **We also offer a complete range of positioners for fixed applications and camera enclosures.**

## POSITIONER CONTROLLERS

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

The Pelco-D compatible handheld controller with LCD screen has all of the features necessary to optimize the performance of the PositionIt positioner. Precision joystick controller flawlessly controls the pan and tilt functions. Includes LCD 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.



## HURRY-UP PORTABLE PUSH UP TELESCOPING MAST

The Hurry-Up manual push-up mast, can be extended to a full height of 30 feet (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



### 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



**2" Removable Hitch**



**No Guylines Required**



**Shelf and Support Brackets**

### SPECIFICATIONS

| Hurry-Up Models    | 710103010                                   | 903614                                      | 719901610                                   | 719900790                                   |
|--------------------|---|---|---|---|
| Payload Capacity   | 20 lb. / 9.1 kg                             |
| Extended Height    | 30' / 9 m                                   | 24.3' / 7.6 m                               | 16.4' / 5.3 m                               | 7' / 2.1 m                                  |
| Nested Height      | 6' 9" / 2 m                                 | 5' 9" / 1.8 m                               | 5' 4" / 1.6 m                               | 3' 5" / .9 m                                |
| Approximate Weight | 36 lb. / 16 kg                              | 29 lb. / 13 kg                              | 19 lb. / 9 kg                               | 15 lb. / 7 kg                               |
| Number of Sections | 6   | 6   | 4   | 3   |
| Tube Diameter      | 3.5-1.5" / 89-38 mm                         | 3.5-1.5" / 89-38 mm                         | 3.5-2.25" / 89-57 mm                        | 3.5-2.625" / 89-67 mm                       |
| Collar Type        | Friction Locking                            | Friction Locking                            | Friction Locking                            | Friction Locking                            |
| Finish             | Black Anodize, MIL-A-8625, Type II, Class 2 |

## HURRY-UP PORTABLE PUMP UP TELESCOPING MAST

### Quick deploy, portable pneumatic mast for communications, video, and surveillance

The Hurry-Up Portable Pump Up Telescoping Mast by Will-Burt is a pneumatic mast with attached, manual pump that includes a carry bag and is easily transported and deployed by a single person. Available in heights up to 39 ft. / 12 meters with payload capability up to 55 lbs. / 25 kg this lightweight and compact telescoping mast is perfect for deploying antennas, cameras, and other sensors.

The Hurry-Up Portable Telescoping Pump Mast is highly flexible and versatile. Optional accessories are available that allow it to be deployed in a variety of settings. A tripod with built-in level and four large base plates provide a secure foundation for securing the mast. A compact Drive-On Stand allows for the weight of a vehicle to be used to provide stable support for the mast. A 2" trailer Hitch-Mount provides a third mounting option for the mast. The mounting accessories are designed so they can be integrated with one another. The tripod does not need to be removed to be used with the Drive-On Stand or the Hitch-Mount.

The Hurry-Up Pump Mast delivers fast deployment, portability, flexibility, value, and robust performance.



### QUICK CONNECT MAST



Quick Mast Connect Unlocked



Quick Connect Mast Locked

## OPTIONAL MOUNTING HARDWARE



Tripod with Bubble Level



2" Hitch Mount



Drive-On Stand

## OPTIONAL ACCESSORIES

Interchangeable Payload Adaptors  
Stub and Stub Plate Shown

Cable Management



## SPECIFICATIONS

| Hurry-Up Pump Up Mast Models | 5770801                             | 5769501                             | 5769601                             | 5769701                             | 5771001                             |
|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Extended Height              | 13.1 ft. / 4 m                      | 19.6 ft. / 6 m                      | 26.2 ft. / 8 m                      | 32.8 ft. / 10 m                     | 39.3 ft. / 12 m                     |
| Nested Height                | 4.2 ft. / 1.25 m                    | 5.3 ft. / 1.60 m                    | 6.7 ft. / 2.0 m                     | 8.6 ft. / 2.60 m                    | 9.9 ft. / 3.0 m                     |
| Payload Capacity             | 55.1 lbs. / 25 kg                   | 55.1 lbs. / 25 kg                   | 48.5 lbs. / 22 kg                   | 44.1 lbs. / 20 kg                   | 44.1 lbs. / 20 kg                   |
| Approximate Weight           | 24.3 lbs. / 11 kg                   | 28.6 lbs. / 13 kg                   | 37.5 lbs. / 17 kg                   | 44.1 lbs. / 20 kg                   | 50.7 lbs. / 23 kg                   |
| Number of Sections           | 5                                   | 5                                   | 5                                   | 5                                   | 5                                   |
| Tube Diameter                | 3.54 in. - 1.97 in. / 90 mm - 50 mm | 3.54 in. - 1.97 in. / 90 mm - 50 mm | 3.54 in. - 1.97 in. / 90 mm - 50 mm | 3.54 in. - 1.97 in. / 90 mm - 50 mm | 3.54 in. - 1.97 in. / 90 mm - 50 mm |
| Collar Type                  | Friction Locking                    |
| Finish                       | Black paint and Clear anodize       |

# CONTACT YOUR SALES REPRESENTATIVE TODAY



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Complete a Contact Form

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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.