

Pneumatic Mast with Remote Locking System


# TELESCOPIC MAST AND TOWNER ELEVATION SQLUTIONS 

## $\square \longrightarrow$ <br> WILL-BURT

Will-Burt offers a wide variety of Portable Cellular, Broadcast and Mobile Elevation Solutions offering both short-term and long-term deployment options. Will-Burt and GEROH 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, ITS and GEROH 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.



You
in

## CONTENTS



PNEUMATIC NON－LOCKING TELESCOPING MASTS $\qquad$ 4－5


KVL AND KVR TELESCOPING CRANK MAST．．．．．．．．．．．．．．．．．．．． 11


REMOTE LOCKING SYSTEM FOR PNEUMATIC MASTS．．．．．．．．．． 6


INFLEXION＂＇ROOF－MOUNTED TELESCOPING MAST


PNEUMATIC LOCKING TELESCOPING MASTS 7－8


INTEGRATED TOWER SYSTEMS ．．．．．．．．．．．．．13－15


PNEUMATIC COMPRESSOR SYSTEMS ．．．．．．．．． 9


POSITIONERS AND
CONTROLLERS．．．．．．．．．．．．．．．．．．．．． 16



## PNEUMATIC NON-LOCKING LOW-PROFILE TELESCOPING MAASTS



## 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

LOW-PROFILE NON-LOCKING MASTS SPECIFICATIONS

| Model* | 7-27 | 6-29 | 5.3-32 | 7-42 | 6-42 | 7.3-50 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Payload Capacity | 300 lb / 136 kg | $200 \mathrm{lb} . / 91 \mathrm{~kg}$ | $200 \mathrm{lb} . / 91 \mathrm{~kg}$ | $300 \mathrm{lb} . / 136 \mathrm{~kg}$ | $200 \mathrm{lb} . / 91 \mathrm{~kg}$ | $200 \mathrm{lb} . / 91 \mathrm{~kg}$ |
| 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 | $6.8^{\prime} / 2.1$ m | $6.3^{\prime} / 1.9 \mathrm{~m}$ | 7.3 / 2.3 m |
| Approximate Mast Weight | $118 \mathrm{lb} . / 53 \mathrm{~kg}$ | $119 \mathrm{lb} . / 54 \mathrm{~kg}$ | $197 \mathrm{lb} . / 90 \mathrm{~kg}$ | $230 \mathrm{lb} . / 104 \mathrm{~kg}$ | $223 \mathrm{lb} . / 101 \mathrm{~kg}$ | 257 lb. / 117 kg |
| Sections | 5 | 6 | 8 | 8 | 9 | 9 |
| Tube Diameter | $\begin{aligned} & 6.75-3.75 " / \\ & 17.15-9.53 \mathrm{~cm} \end{aligned}$ | $\begin{array}{\|l\|} \hline 6.75-3 " / \\ 17.15-7.62 \mathrm{~cm} \end{array}$ | $\begin{array}{\|l\|} 9-3 " / 2 \\ 22.86-7.62 \mathrm{~cm} \end{array}$ | $\begin{aligned} & 9-3.75 \mathrm{~F} / \\ & 22.86-9.53 \mathrm{~cm} \end{aligned}$ | $\begin{aligned} & 9-3 " / \\ & 22.86-7.62 \mathrm{~cm} \end{aligned}$ | $\begin{array}{\|l\|} \hline 9-3 " / \\ 22.86-7.62 \mathrm{~cm} \end{array}$ |
| Collars | Internal, NonLocking | Internal, NonLocking | Internal, NonLocking | Internal, NonLocking | Internal, NonLocking | Internal, NonLocking |
| 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) |

[^0]
## PNEUMATIC NON－LOCKING TELESCOPING MAASTS



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．
－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

## SUPER HEAVY－DUTY NON－LOCKING IMASTS SPECIFICATIONS

| Super Heavy Duty Models | $\mathbf{1 0 - 3 8}$ | $\mathbf{1 2 - 4 8}$ |
| :--- | :--- | :--- |
| Payload Capacity＊ | $1,200 \mathrm{lb} . / 544 \mathrm{~kg}$ | $1,200 \mathrm{lb} . / 544 \mathrm{~kg}$ |
| Extended Height | $38 ' / 11.6 \mathrm{~m}$ | $48 \mathrm{l} / 14.6 \mathrm{~m}$ |
| Nested Height | $10^{\prime} / 3 \mathrm{~m}$ | $12 ; / 3.6 \mathrm{~m}$ |
| Approximate Mast Weight | $400 \mathrm{lb} . / 181 \mathrm{~kg}$ | $475 \mathrm{lb} . / 215 \mathrm{~kg}$ |
| Number of Sections | 5 | 5 |
| Tube Diameter | $11.25-7.5{ }^{\prime \prime} / 286-191 \mathrm{~mm}$ | $11.25-7.5 \mathrm{l} / 286-191 \mathrm{~mm}$ |
| Maximum Operating Pressure | 35 PSIG（2．4 bar） | $35 \mathrm{PSIG}(2.4 \mathrm{bar})$ |



## HEAVY－DUTY NON－LOCKING MASTS SPECIFICATIONS

| Model | 6－25 | 7－30 | 7－42 | 8．5－48 | 8．5－52 | 9．5－56 | 9－58 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Payload Capacity＊ | $200 \mathrm{lb} . / 91 \mathrm{~kg}$ | $200 \mathrm{lb} . / 91 \mathrm{~kg}$ | $200 \mathrm{lb} . / 91 \mathrm{~kg}$ | $300 \mathrm{lb} . / 136 \mathrm{~kg}$ | $200 \mathrm{lb} . / 91 \mathrm{~kg}$ | $300 \mathrm{lb} . / 136 \mathrm{~kg}$ | $200 \mathrm{lb} . / 91 \mathrm{~kg}$ |
| 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 |
| Approximate Mast Weight | $110 \mathrm{lb} . / 50 \mathrm{~kg}$ | $125 \mathrm{lb} . / 57 \mathrm{~kg}$ | $235 \mathrm{lb} . / 107 \mathrm{~kg}$ | $275 \mathrm{lb} . / 125 \mathrm{~kg}$ | $266 \mathrm{lb} . / 121 \mathrm{~kg}$ | $296 \mathrm{lb} . / 135 \mathrm{~kg}$ | $290 \mathrm{lb} . / 132 \mathrm{~kg}$ |
| Number of Sections | 6 | 6 | 9 | 8 | 9 | 8 | 9 |
| Tube Diameter | $\begin{aligned} & 6.75-3 \text { " / } \\ & 171-76 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & 6.75-3 " / \\ & 171-76 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & \text { 9-3" / } \\ & 229-76 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & \text { 9-3.75" / } \\ & 229-95 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & 9-3 " / \\ & 229-76 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & \text { 9-3.75" / } \\ & 229-95 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & \text { 9-3" / } \\ & 229-76 \mathrm{~mm} \end{aligned}$ |
| 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 NON－LOCKING MASTS SPECIFICATIONS＊Internally wired versions available

| Model | 5－20 | 6－27 | 7－34 | 8－30 |
| :---: | :---: | :---: | :---: | :---: |
| Payload Capacity＊ | $70 \mathrm{lb} . / 32 \mathrm{~kg}$ | $40 \mathrm{lb} . / 18 \mathrm{~kg}$ | $40 \mathrm{lb} . / 18 \mathrm{~kg}$ | $100 \mathrm{lb} . / 45 \mathrm{~kg}$ |
| Extended Height | 20 ／ 6.1 m | $27^{\prime} / 8.2 \mathrm{~m}$ | 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 |
| Approximate Mast Weight | $45 \mathrm{lb} . / 21 \mathrm{~kg}$ | $54 \mathrm{lb} . / 25 \mathrm{~kg}$ | $67 \mathrm{lb} . / 31 \mathrm{~kg}$ | $64 \mathrm{lb} . / 29 \mathrm{~kg}$ |
| 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） |

[^1]
## REIMOTE 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 pneumatic mast system or larger．Contact The Will－Burt Company for heights above 80 ft ／ 24 m ．

## 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




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．
－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


## HEAVY DUTY LOCKING MASTS SPECIFICATIONS

| Model | 6－25 | 7－30 | 7－32 | 7－42 | 10－60 | 14．5－80 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Payload Capacity＊ | $200 \mathrm{lb} . / 90.7 \mathrm{~kg}$ | $200 \mathrm{lb} . / 91 \mathrm{~kg}$ | $400 \mathrm{lb} . / 181.4 \mathrm{~kg}$ | $200 \mathrm{lb} . / 91 \mathrm{~kg}$ | $300 \mathrm{lb} . / 136 \mathrm{~kg}$ | $400 \mathrm{lb} . / 181 \mathrm{~kg}$ |
| 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＇${ }^{\prime \prime}$／ 4.3 m |
| Approximate Mast Weight | $119 \mathrm{lb} . / 54 \mathrm{~kg}$ | $125 \mathrm{lb} . / 57 \mathrm{~kg}$ | $235 \mathrm{lb} . / 106.6 \mathrm{~kg}$ | 235 lb．／ 107 kg | $330 \mathrm{lb} . / 150 \mathrm{~kg}$ | $416 \mathrm{lb} . / 189 \mathrm{~kg}$ |
| 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） |

SUPER HEAVY DUTY LOCKING MASTS SPECIFICATIONS

| Model | 10－44．5 | 9－50 | 10．3－60 | 10．8－76 | 11．5－76 | 15．7－100 | 18－120 | 23．5－164 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Payload Capacity＊ | $980 \mathrm{lb} . / 444 \mathrm{~kg}$ | $530 \mathrm{lb} . / 240 \mathrm{~kg}$ | $530 \mathrm{lb} . / 240 \mathrm{~kg}$ | $300 \mathrm{lb} . / 136 \mathrm{~kg}$ | $400 \mathrm{lb} . / 181 \mathrm{~kg}$ | $530 \mathrm{lb} . / 240 \mathrm{~kg}$ | $530 \mathrm{lb} . / 240 \mathrm{~kg}$ | $300 \mathrm{lb} . / 136 \mathrm{~kg}$ |
| 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 | 164＇／ 50 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 | 23＇6＂／ 7.2 m |
| Approximate <br> Mast Weight | $313 \mathrm{lb} . / 142 \mathrm{~kg}$ | $500 \mathrm{lb} . / 227 \mathrm{~kg}$ | $500 \mathrm{lb} . / 227 \mathrm{~kg}$ | $536 \mathrm{lb} . / 245 \mathrm{~kg}$ | $613 \mathrm{lb} . / 278 \mathrm{~kg}$ | 790 lb．／ 361 kg | 920 lb．／ 417 kg | 1，200 lb．／ 545 kg |
| Number of Sections | 6 | 8 | 8 | 10 | 9 | 8 | 8 | 10 |
| Tube Diameter | $\begin{aligned} & 11.25-6.75 " / \\ & 286-172 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & 11.25-5.25 \mathrm{c} / \\ & 288-135 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & 11.25-5.25 " / \\ & 288-135 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & 11.25-3.75 " / \\ & 288-96 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & 11.25-4.5^{\prime \prime} / 286- \\ & 108 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & 11.25-5.25 " / \\ & 288-135 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & 11.25-5.25 " / \\ & 288-135 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & 11.25-3.75 " / \\ & 286-96 \mathrm{~mm} \end{aligned}$ |
| 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 | Locking Trip Lines |
| Guying Required | Optional | Optional | Optional | Yes－ 4 Way／ 4 Level | Yes | Yes－ 4 Way／ 4 Level | Yes | Yes |
| 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） | 35 PSIG（2．4 bar） |

[^2]
## PNEUMATIC LOCKING ULTRA HEAVY－DUTY TELESCOPING 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．

## －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



## PNEUMATIC LOCKING ULTRA HEAVY－DUTY SPECIFICATIONS

| Ultra Heavy－Duty Mast | 8－39 | 11．3－59 | 9．8－65．6 | 13－70 | 14．4－80 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Payload Capacity＊ | 980 lb ／／ 444 kg | $1200 \mathrm{lb} . / 544 \mathrm{~kg}$ | $530 \mathrm{lb} . / 240 \mathrm{~kg}$ | $1200 \mathrm{lb} . / 544 \mathrm{~kg}$ | $1200 \mathrm{lb} . / 544 \mathrm{~kg}$ |
| 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 | $14.4{ }^{\prime} / 4.4$ m |
| Approximate Weight | $607 \mathrm{lb} . / 275 \mathrm{~kg}$ | 814 lb．／ 369 kg | $852 \mathrm{lb} . / 387 \mathrm{~kg}$ | $920 \mathrm{lb} . / 417 \mathrm{~kg}$ | 1078 lb．／ 489 kg |
| Number of Sections | 8 | 7 | 10 | 7 | 7 |
| Tube Diameter | $\begin{aligned} & 13.5-6.75 " / \\ & 34.29-17.15 \mathrm{~cm} \end{aligned}$ | $\begin{aligned} & 13.5-7.5^{\prime \prime} / \\ & 34.29-19.05 \mathrm{~cm} \end{aligned}$ | $\begin{aligned} & 13.5-5.25 " / \\ & 34.29-13.34 \mathrm{~cm} \end{aligned}$ | $\begin{aligned} & 13.5-7.5^{\prime \prime} / \\ & 34.29-19.05 \mathrm{~cm} \end{aligned}$ | $\begin{aligned} & 13.5-7.5 " / \\ & 34.29-19.05 \mathrm{~cm} \end{aligned}$ |
| 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 by Will－Burt

Will－Burt offers a variety of low maintenance oil－less air compressor systems，all specifically designed for optimal performance for use with Will－Burt Telescoping Masts．These pneumatic systems include only the highest quality components available to ensure the system provides years of trouble－free service．

| AC Models | 5255802 | 5255801 | 902404 | 903193 | 912361 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Mast Application | All | All | All | Standard | All |
| Voltage | $110 \mathrm{VAC} / 50 \mathrm{~Hz}$ \＆60Hz | 230VAC／50Hz \＆60Hz | 110VAC／60Hz | 220VAC／50Hz | 220VAC／60Hz |
| CFM | 6.5 | 6.5 | 4.4 | 2.01 | 4.4 |
| Ltr／Min | 185 | 185 | 125 | 57 | 101 |
| Operating Temperature | $\begin{aligned} & -4^{\circ} \mathrm{F} \text { to } 122^{\circ} \mathrm{F} / \\ & -20^{\circ} \mathrm{C} \text { to } 50^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & -4^{\circ} \mathrm{F} \text { to } 122^{\circ} \mathrm{F} / \\ & -20^{\circ} \mathrm{C} \text { to } 50^{\circ} \mathrm{C} \end{aligned}$ | $50^{\circ} \mathrm{F}$ to $104^{\circ} \mathrm{F} /$ <br> $10^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}$ | $4^{\circ} \mathrm{F}$ to $131^{\circ} \mathrm{F} /$ $-20^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C}$ | $50^{\circ} \mathrm{F}$ to $104^{\circ} \mathrm{F} /$ <br> $10^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}$ |
| HandHeld Remote Control | X | X | Optional | Optional | Optional |
| Protective Enclosure | x | x |  |  |  |
| Cooling Fan | x | X | X | x | X |
| Air hose w／Fittings | x | X | X | X | X |
| Pressure Gauge | x | x | x | x | X |
| Pressure Switch | x －cut out $32 \pm 2 \mathrm{psi}$ | x －cut out $32 \pm 2 \mathrm{psi}$ | x －cut out $32 \pm 2 \mathrm{psi}$ | x －cut out $32 \pm 2 \mathrm{psi}$ | x －cut out $32 \pm 2 \mathrm{psi}$ |
| Current Draw | 10 amp | 5.1 amp | 10.6 amp | 4.1 amp | 5.3 amp |
| Weight | 25.4 lb／ 11.5 kg | 36.4 lb／ 16.5 kg | $45 \mathrm{lb} / 20.4 \mathrm{~kg}$ | $55 \mathrm{lb} / 24.95 \mathrm{~kg}$ | $45 \mathrm{lb} / 20.4 \mathrm{~kg}$ |
| Dimensions | $\begin{gathered} 8 " \mathrm{~W} \times 11.6 " \mathrm{H} \text { x } \\ 11.9^{\prime \prime} \mathrm{D} / 203 \mathrm{~mm} \text { W x } \\ 295 \mathrm{~mm} \mathrm{H} \times 302 \mathrm{~mm} \text { D } \end{gathered}$ | $\begin{gathered} 8 " \mathrm{~W} \times 11.6 " \mathrm{H} \text { x } \\ 11.9 \text { " D / 203mm W x } \\ 295 \mathrm{~mm} \mathrm{H} \times 302 \mathrm{~mm} \text { D } \end{gathered}$ | $\begin{gathered} 15 \text { " W x } 8.91 \text { " H x } \\ 11.61 \text { " D / 381mm W x } \\ 227 \mathrm{~mm} \text { H x } 295 \mathrm{~mm} \text { D } \end{gathered}$ | $12.6^{\prime \prime}$ W x 9．0＂H x 16．8＂D／320mm W x 229 mm H x 427 mm D | $\begin{gathered} 15 " \mathrm{~W} \times 8.91 \text { " H x } \\ 11.61 " \mathrm{D} / 381 \mathrm{~mm} \mathrm{~W} \text { x } \\ 227 \mathrm{~mm} \mathrm{H} \times 295 \mathrm{~mm} \text { D } \end{gathered}$ |


| DC Models | 5059901 | 5059902 | 5058501 | 5058502 |
| :---: | :---: | :---: | :---: | :---: |
| Mast Application | Standard | Standard | All | All |
| Voltage | 12VDC | 24VDC | 12VDC | 24VDC |
| CFM | 1.4 | 1.4 | 6.1 | 6.7 |
| Ltr／Min | 40 | 40 | 173 | 191 |
| Operating Temperature | $-4^{\circ} \mathrm{F}$ to $122^{\circ} \mathrm{F} /-20^{\circ} \mathrm{C}$ to $50^{\circ} \mathrm{C}$ | $-4^{\circ} \mathrm{F}$ to $122^{\circ} \mathrm{F} /-20^{\circ} \mathrm{C}$ to $50^{\circ} \mathrm{C}$ | $-4^{\circ} \mathrm{F}$ to $122^{\circ} \mathrm{F} /-20^{\circ} \mathrm{C}$ to $50^{\circ} \mathrm{C}$ | $-4^{\circ} \mathrm{F}$ to $122^{\circ} \mathrm{F} /-20^{\circ} \mathrm{C}$ to $50^{\circ} \mathrm{C}$ |
| HandHeld Remote Control | x | x | x | x |
| Protective Enclosure | x | x | x | x |
| Cooling Fan |  |  | X | x |
| Air hose w／Fittings | x | x | x | X |
| Pressure Gauge | x | x | x | x |
| Check Valve | x －cut out $15 \pm 2 \mathrm{psi}$ | $x$－cut out $15 \pm 2 \mathrm{psi}$ | x －cut out $32 \pm 2 \mathrm{psi}$ | x －cut out $32 \pm 2 \mathrm{psi}$ |
| Current Draw | 12 amp | 8 amp | 55 amp | 30 amp |
| Weight | 17.6 lbs．／ 8 kg | 17.6 lbs．／ 8 kg | 29.8 lbs．／ 13.5 kg | 29.8 lbs．／ 13.5 kg |
| Dimensions | $\begin{gathered} 5.2^{\prime \prime} \mathrm{W} \times 10.6^{\prime \prime} \mathrm{H} \times 9.2 \text { " D / } \\ 131 \mathrm{~mm} \mathrm{~W} \times 267 \mathrm{~mm} \mathrm{H} \\ \times 233 \mathrm{~mm} \mathrm{D} \end{gathered}$ | $\begin{gathered} 5.2^{\prime \prime} \mathrm{W} \times 10.6^{\prime \prime} \mathrm{H} \times 9.2^{\prime \prime} \mathrm{D} / \\ 131 \mathrm{~mm} \text { W } \times 267 \mathrm{~mm} \mathrm{H} \\ \times 233 \mathrm{~mm} \text { D } \end{gathered}$ | 8＂W x 11．6＂H x 11．7＂D／ 203 mm W x 295 mm H x 298 mm D | 8＂W x 11．6＂H x 11．7＂D／ 203mm W x 295mm H x 298 mm D |

## MAST ACCESSORIES

The D－TEC ${ }^{\circ}$ 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．

## D－TEC® ${ }^{\circledR}$ SAFETY FEATURES：

－Dual threshold AC alert，E－Field（current） and H －Field（magnetic）
－AC voltage detection range starting at $110 \mathrm{VAC} / 60 \mathrm{~Hz}$
－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

| 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 | $3.5 " \times 4.5 " \times 8.5 "$ case or single height rack mount |
| Sensor Housing | $4.9 " \mathrm{H} \times 5$＂W x $3.7^{\prime \prime} \mathrm{D}$ |



## EXTERNAL CABLE MANAGEMENT

NYCOIL ${ }^{\circ}$ 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 ${ }^{\circ}$ 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 CRANK MAST

The Family of light duty GEROH Telescopic Crank Masts is characterized by lightweight construction in addition to superior stability，reliability and Iong 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


| KVL Specifications | 2．5 KVL 3 | 4 KVL 4 | 6 KVL 5 | 8 KVL 5 | 10 KVL 6 | 12 KVL 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Extended Height | 8．2＇／ 2.5 m | 13．1＇／ 4 m | 19．6＇／ 6 m | 26．2＇／ 8 m | 32．8＇／ 10 m | 39．2＇／ 12 m |
| Nested Height | 3.5 ／ 1.1 m | 4．2＇／ 1.3 m | 5＇／ 1.5 m | 6．2＇／ 1.9 m | 6．9＇／ 2.1 m | 7.9 ／ 2.4 m |
| Payload Capacity＊ | $55 \mathrm{lb} . / 25 \mathrm{~kg}$ | $55 \mathrm{lb} . / 25 \mathrm{~kg}$ | $55 \mathrm{lb} . / 25 \mathrm{~kg}$ | $44 \mathrm{lb} . / 20 \mathrm{~kg}$ | $33 \mathrm{lb} . / 15 \mathrm{~kg}$ | $33 \mathrm{lb} . / 15 \mathrm{~kg}$ |
| Approximate Mast Weight | $35 \mathrm{lb} . / 16 \mathrm{~kg}$ | $45 \mathrm{lb} . / 20.5 \mathrm{~kg}$ | $53 \mathrm{lb} . / 24 \mathrm{~kg}$ | $68 \mathrm{lb} . / 31 \mathrm{~kg}$ | $88 \mathrm{lb} . / 40 \mathrm{~kg}$ | $99 \mathrm{lb} . / 45 \mathrm{~kg}$ |
| Number of Sections | 3 | 4 | 5 | 5 | 6 | 6 |


| KVR Specifications | 2．5 KVR 3 | 4 KVR 3 | 6 KVR 5 | 8 KVR 5 | 10 KVR 6 | 12 KVR 6 | 14 KVR 5 | 18 KVR 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Extended Height | 8．2＇／ 2.5 m | 13．1＇／ 4 m | 19．6＇／ 6 m | 26．2＇／ 8 m | 32．8＇．／ 10 m | 39．2／ 12 m | 45．9＇／ 14 m | 59．1＇／ 18 m |
| Nested Height | 3．9＇／ 1.2 m | 5.5 ／ 1.7 m | 5.5 ／ 1.7 m | 6.9 ／ 2.1 m | 7．5＇／ 2.3 m | 8．5＇／ 2.6 m | 10．8＇／ 3.3 m | 11．9＇／ 3.6 m |
| Payload Capacity＊ | $154 \mathrm{lb} . / 70 \mathrm{~kg}$ | $143 \mathrm{lb} . / 65 \mathrm{~kg}$ | $154 \mathrm{lb} . / 70 \mathrm{~kg}$ | $154 \mathrm{lb} . / 70 \mathrm{~kg}$ | $110 \mathrm{lb} . / 50 \mathrm{~kg}$ | $110 \mathrm{lb} . / 50 \mathrm{~kg}$ | $88 \mathrm{lb} . / 40 \mathrm{~kg}$ | $80 \mathrm{lb} . / 40 \mathrm{~kg}$ |
| Approximate Mast Weight | $66 \mathrm{lb} . / 30 \mathrm{~kg}$ | $77 \mathrm{lb} . / 35 \mathrm{~kg}$ | $110 \mathrm{lb} . / 50 \mathrm{~kg}$ | $134 \mathrm{lb} . / 61 \mathrm{~kg}$ | $187 \mathrm{lb} . / 85 \mathrm{~kg}$ | $205 \mathrm{lb} . / 93 \mathrm{~kg}$ | $187 \mathrm{lb} . / 85 \mathrm{~kg}$ | $271 \mathrm{lb} . / 123 \mathrm{~kg}$ |
| Number of Sections | 3 | 3 | 5 | 5 | 6 | 6 | 5 | 6 |

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

## INFLEXIDN＂

## INFLEXION ${ }^{\text {TM }}$ ROOF－MOUNTED TELESCOPING IMAST



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 ${ }^{\text {m＂}}$ was designed to meet the elevation requirements of smaller，advanced broadcast devices．The roof－mounted，self－contained Inflexion ${ }^{m "}$ 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
－Positionlt
－Integrated pan and tilt positioner
－InflexionPlus
－Accomodates full function handheld controller（sold separately）
－Color
－Black
－Internal wiring or Nycoil
－Consult factory for specific application
－ 24 VDC operation


INFLEXION ${ }^{\text {TM }}$ SPECIFICATIONS

| Model | 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＊ | $60 \mathrm{lb} . / 27 \mathrm{~kg}$ | $60 \mathrm{lb} . / 27 \mathrm{~kg}$ | $60 \mathrm{lb} . / 27 \mathrm{~kg}$ | $60 \mathrm{lb} . / 27 \mathrm{~kg}$ | $100 \mathrm{lb} . / 45 \mathrm{~kg}$ | $100 \mathrm{lb} . / 45 \mathrm{~kg}$ | $70 \mathrm{lb} . / 31 \mathrm{~kg}$ | $57 \mathrm{lb} . / 25 \mathrm{~kg}$ |
| Stowed Dimensions （Approximate） <br> （ $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ in．／cm） | $\begin{aligned} & 41.5^{\prime \prime} \times 15 " \times 10 " \\ & / 104 \times 38 \times 25 \end{aligned}$ | $\begin{aligned} & 66 " \times 12^{\prime \prime} \times 12^{\prime \prime} / \\ & 165 \times 30 \times 29 \end{aligned}$ | $\begin{aligned} & 37 " \times 15^{\prime \prime} \times 10^{\prime \prime} / \\ & 94 \times 38 \times 25 \end{aligned}$ | $\begin{aligned} & 43^{\prime \prime} \times 16^{\prime \prime} \times 11^{\prime \prime} / \\ & 110 \times 38 \times 23 \end{aligned}$ | $\begin{aligned} & 51 " \times 16 " \times 12 " / \\ & 130 \times 41 \times 31 \end{aligned}$ | $\begin{aligned} & 63^{\prime \prime} \times 16^{\prime \prime} \times 12^{\prime \prime} / \\ & 159 \times 40 \times 29 \end{aligned}$ | $\begin{aligned} & 80^{\prime \prime} \times 16^{\prime \prime} \times 11^{\prime \prime} / \\ & 202 \times 40 \times 28 \end{aligned}$ | $\begin{aligned} & 91 " \times 16 " \times 11^{\prime \prime} / \\ & 223 \times 40 \times 28 \end{aligned}$ |
| Approximate System Weight | $60 \mathrm{lb} . / 27 \mathrm{~kg}$ | $52 \mathrm{lb} . / 24 \mathrm{~kg}$ | $63 \mathrm{lb} . / 29 \mathrm{~kg}$ | $66 \mathrm{lb} . / 30 \mathrm{~kg}$ | $105 \mathrm{lb} . / 48 \mathrm{~kg}$ | $110 \mathrm{lb} . / 50 \mathrm{~kg}$ | $123 \mathrm{lb} . / 56 \mathrm{~kg}$ | $134 \mathrm{lb} . / 61 \mathrm{~kg}$ |
| Operating Temperature Range | $-22^{\circ} \mathrm{F}$ to $+149^{\circ} \mathrm{F} /-30^{\circ} \mathrm{C}$ to $+65^{\circ} \mathrm{C}$ |  |  |  |  |  |  |  |

＊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 SYSTEIMS

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：

[^3]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 or contact an ITS Representative Toll Free at 1－（800）－850－8535．

|  | MOBILE TOWER SOLUHONS | MOBILE MAST SOLUTIONS |
| :---: | :---: | :---: |
| Self－Support \＆ Guyed Heights | $\begin{gathered} \pm 38^{\prime}, 55^{\prime}, 72^{\prime}, 89^{\prime}, 106^{\prime} \& 130^{\prime} / \\ 11.6 \mathrm{~m}, 16.8 \mathrm{~m}, 21.9 \mathrm{~m}, 27.1 \mathrm{~m}, 32.3 \mathrm{~m} \text { \& } \\ 40 \mathrm{~m} \end{gathered}$ | 30＇－100＇／9m－30m |
| Tower Capacity | Standard Payloads： Up to：$\pm 550 \mathrm{lb} / 250 \mathrm{~kg}$ Upgraded Payloads： Up to：$\pm 750 \mathrm{lb} / 340 \mathrm{~kg}$ | Payloads Up To：1，200 lb／ 544 kg |
| Power | 120－220 VAC／60－50 Hz Configurations |  |
| Common Use | 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－COMMMUNICATION－SITE－ON－WHEELS（COW）


TIMT SERIES－TRUCK MOUNTED TOWER SYSTEM


## MOBILE IMAST SOLUTIONS

COW SERIES－TRAILER IMOUNTED IMAST（Vertical Mast Installation）


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


## ITS RENTAL AND FLEXI-FLEET CONFIGURATIONS - PORTABLE TOWER SYSTEIMS

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.

## IIS Telescopic Tower Systems

$\bullet \pm 106^{\prime} / 33 \mathrm{~m}$ and $\pm 125^{\prime} / 38 \mathrm{~m}$ Self-Supporting and Guy Capable Tower Elevations

- Fully Automated, Direct Drive Tower Operating System; No Belts, No Chains, No Guy Wires Required
- $\pm 550 \mathrm{lb} / 250 \mathrm{~kg}$ 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; $4,000 \mathrm{lb} / 1,814 \mathrm{~kg}$ to $6,000 \mathrm{lb} / 2,721 \mathrm{~kg}$ Equipment Capacity



## POSITIONERS／CONTROLLERS

## Pasitian

Positionlt by Will－Burt is a maintenance－free pan and tilt positioner 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 Positionlt．

## ESSENTIAL FEATURES

－Replacement for MOOG QuickSet QPT Positioners
－Direct connection to existing QuickSet control／power cable
－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
Positionlt ${ }^{\text {TM }}$ Positioners
－ 3 year mechanical and 2 year electrical warranty on Static Positioners
－Flexible connection
－Bottom or side
－We also offer a complete range of positioners for fixed applications and camera enclosures．

## Positionit controllers

The handheld and 2 U rack mount controllers are Pelco－D compatible with programmable home and stow positions．The AC powered rack mount controller provides power and pan and tilt commands to the positioner and is adaptable to contact closure switches for I／O panels．The handheld controller has a keyboard for programming and an LCD screen and can be optionally used in conjunction with the rack mount controller．


## PORTABLE IMASTS

## HURRY－UP MAST



The Hurry－Up mast is ideal for fast deployment of lightweight antennas and equipment．This mast is available in four extended heights from 7 ft ．／ 3.5 m to 30 ft ． 9 m in one minute or less and easily manages payloads up to $20 \mathrm{lb} / 9 \mathrm{~kg}$ ．The Hurry－Up mast features quick lock／release collars to extend the mast manually by pushing up the sections and fixing them into position．The Hurry－Up mast is well suited for field testing． Optional Drive－On plate allows the mast to be secured by simply driving a vehicle onto the plate．

## ESSENTIAL FEATURES

－Rigid Azimuth Locking Collars
－Quick direction adjustments
－Easy to Set Up
－Less than one minute
－Corrosion Resistant
－Black anodized finish
－Drive－on Plate Mounting －No guylines required
－External Support Brackets
－Permanent vehicle mounting
－Hitch Mount
－2＂Hitch－Removable


## SPECIFICATIONS

| Hurry－Up Mast | 710103010 | 903614 | 719901610 | 719900790 |
| :---: | :---: | :---: | :---: | :---: |
| Payload Capacity | $20 \mathrm{lb} . / 9.1 \mathrm{~kg}$ | 20 lb ／／ 9.1 kg | $20 \mathrm{lb} . / 9.1 \mathrm{~kg}$ | $20 \mathrm{lb} . / 9.1 \mathrm{~kg}$ |
| 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 | $36 \mathrm{lb} . / 16 \mathrm{~kg}$ | $29 \mathrm{lb} . / 13 \mathrm{~kg}$ | $19 \mathrm{lb} . / 9 \mathrm{~kg}$ | $15 \mathrm{lb} . / 7 \mathrm{~kg}$ |
| 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 | 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 |

## PORTABLE MASTS

Ántenna Mast
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 from 2 to 15 meters．

## Payload deployment options：

1．The EZ Raze ${ }^{\text {TM }}$ 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．
2．The mast tube lift winch provides a mechanical assist for the lifting of the mast tubes for heavier payloads．
3．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 Mast Tube Lift Winch

PORTABLE MASTS
Ántenna Mast



AM2 with EZ Raze
Payload Elevation System
Easily elevate and lower multiple antennas and sensors


AM2 with Lift Winch
Payload Elevation System
Manually elevate and lower multiple antennas and sensors
 payload adaptors are available for the AntennaMast


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, Germany and 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.

WILL-BURT NORTH AMERICA WORLD HEADQUARTERS 401 Collins Blvd Orrville, OH USA 44667 Telephone: 330.682.7015 Mast Customer Service: 330.684.4000 Fax: 330.684.1190 Email: info@willburt.com

INTEGRATED TOWER SYSTEMS
A WILL-BURT COMPANY
2703 Dawson Road, Tulsa, OK 74110
Telephone: 800.850.8535
Fax: 918.749.8537
Email: programs@itstowers.com

WILL-BURT
GERMANY
Fischergasse 25 91344 Waischenfeld Germany
Telephone: +49-9202-18-0
Fax: +49-9202-18-11
Email: info@geroh.com

WILL-BURT UNITED KINGDOM
Unit 5b, Station Approach
Four Marks, Alton Hampshire, GU34 5HN, United Kingdom Telephone: +44 (0) 1403265532 Fax: +44 (0) 1403259072

WILL-BURT TURKEY
2118 Cad. No:4, B101
Mustafa Kemal Mah. 06530 Cankaya Ankara, Turkey
Telephone: +1 2028202184
Email: HBeasey@willburt.com

WILL-BURT
ASIA
SINGAPORE SALES OFFICE
1 Fullerton Road,
\#02-01 One Fullerton,
Singapore 049213
Telephone: +65 68325689
Fax: +65 67220664


[^0]:    *Capacity will be affected by wind sail area. Consult factory.

[^1]:    ＊Capacity will be affected by wind sail area．Consult factory．

[^2]:    ＊Dimensions provided in catalog or on willburt．com are for reference only and are not intended for vehicle design purposes．Specifications are for reference only and are subject to change．Please contact Will－Burt Engineering for current and exact specifications．

[^3]:    －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 and Construction；Entertainment，Logistics，Engineering，Municipal and Corporate Programs
    －Global Support of Special Events；Political，Commercial，Industrial，Sporting，Civic and Numerous other Markets／Industries Served

