TELESCOPIC MAST AND TOWER ELEVATION SOLUTIONS

1918 W·B 2018

100 YEARS

WILL-BURT

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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.

Internal Collar Design

Low Nested Height

Innovative Design

Reduced Mast Twist

Locking Payload Top Plate

Stabilizes in transit payload

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	7-42	6-42	7.3-50
Payload Capacity	300 lb / 136 kg	200 lb / 91 kg	300 lb / 136 kg	200 lb / 91 kg	200 lb / 91 kg
Extended Height	26.7 ft. / 8.2 m	28.4 ft. / 8.7 m	41.2 ft. / 12.5 m	41.2 ft. / 12.5 m	50 ft. / 15.3 m
Nested Height	6.5 ft. / 2 m	6 ft. / 1.8 m	6.8 ft. / 2.1 m	6.3 ft. / 1.9 m	7.3 ft. / 2.3 m
Approximate Mast Weight	118 lb / 53 kg	119 lb / 54 kg	230 lb / 104 kg	223 lb / 101 kg	257 lb / 117 kg
Sections	5	6	8	9	9
Tube Diameter	6.75 in. / 17.15 cm through 3.75 in. / 9.53 cm	6.75 in. / 17.15 cm through 3 in. / 7.62 cm	9 in. / 22.86 cm through 3.75 in. / 9.53 cm	9 in. / 22.86 cm through 3 in. / 7.62 cm	9 in. / 22.86 cm through 3 in. / 7.62 cm
Collars	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)

*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.

- **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 MASTS SPECIFICATIONS

Super Heavy Duty Models	10-38	12-48
Payload Capacity*	1,200 lb / 544 kg	1,200 lb / 544 kg
Extended Height	38 ft. / 11.6 m	48 ft. / 14.6 m
Nested Height	10 ft. / 3 m	12 ft. / 3.6 m
Approximate Mast Weight	400 lb / 181 kg	475 lb / 215 kg
Number of Sections	5	5
Tube Diameter	11.25 in. - 7.5 in. / 286-191 mm	11.25 in. - 7.5 in. / 286-191 mm
Maximum Operating Pressure	35 PSIG (2.4 bar)	35 PSIG (2.4 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 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 ft. / 7.6 m	29 ft. / 8.9 m	41.2 ft. / 12.5 m	48 ft. / 14.6 m	52 ft. / 15.8 m	56.2 ft. / 17 m	58 ft. / 17.7 m
Nested Height	5.8 ft. / 1.8 m	6.7 ft. / 2 m	7 ft. / 2.1 m	8.5 ft. / 2.6 m	8.3 ft. / 2.5 m	9.5 ft. / 2.9 m	9 ft. / 2.7 m
Approximate 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 in. / 171-76 mm	6.75-3 in. / 171-76 mm	9-3 in. / 229-76 mm	9-3.75 in. / 229-95 mm	9-3 in. / 229-76 mm	9-3.75 in. / 229-95 mm	9-3 in. / 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 NON-LOCKING MASTS SPECIFICATIONS

*Internally wired versions available

Model	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 ft. / 6.1 m	27 ft. / 8.2 m	33.8 ft. / 10.3 m	29.8 ft. / 9.1 m
Nested Height	5.3 ft. / 1.6 m	6 ft. / 1.8 m	7 ft. / 2.1 m	8 ft. / 2.4 m
Approximate 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 in. / 127-64 mm	5-2 in. / 127-51 mm	5-2 in. / 127-51 mm	5-3 in. / 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.

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	110VAC / 50Hz & 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	-4°F to 122°F / -20°C to 50°C	-4°F to 122°F / -20°C to 50°C	50°F to 104°F / 10°C to 40°C	4°F to 131°F / -20°C to 55°C	50°F to 104°F / 10°C to 40°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 ±2 psi	x -cut out 32 ±2 psi	x -cut out 32 ±2 psi	x -cut out 32 ±2 psi	x -cut out 32 ±2 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 lb / 20.4 kg	55 lb / 24.95 kg	45 lb / 20.4 kg
Dimensions	8" W x 11.6" H x 11.9" D / 203mm W x 295mm H x 302mm D	8" W x 11.6" H x 11.9" D / 203mm W x 295mm H x 302mm D	15" W x 8.91" H x 11.61" D / 381mm W x 227mm H x 295mm D	12.6" W x 9.0" H x 16.8" D / 320mm W x 229mm H x 427mm D	15" W x 8.91" H x 11.61" D / 381mm W x 227mm H x 295mm D

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°F to 122°F /-20°C to 50°C	-4°F to 122°F / -20°C to 50°C	-4°F to 122°F / -20°C to 50°C	-4°F to 122°F / -20°C to 50°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 ±2 psi	x -cut out 15 ±2 psi	x -cut out 32 ±2 psi	x -cut out 32 ±2 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	5.2" W x 10.6" H x 9.2" D / 131mm W x 267mm H x 233mm D	5.2" W x 10.6" H x 9.2" D / 131mm W x 267mm H x 233mm D	8" W x 11.6" H x 11.7" D / 203mm W x 295mm H x 298mm D	8" W x 11.6" H x 11.7" D / 203mm W x 295mm H x 298mm D