

REF/CCTV Mast

5.5 Meter Pneumatic Mast



The Will-Burt Company has built upon pneumatic mast technology that has been refined over the past 30 years to provide a solution that meets all specifications for the REF Counter Sniper Program. This technology has help keep our soldiers safe in Afghanistan and Iraq through the VOSS and VOSS II programs.

In order to meet the specifications for this program, military features were added to the standard pneumatic mast. Features that were added were wiper bumpers to seal out dirt and debris. Black anodize was added to seal the 6061-T6 aluminum tubes from corrosion. Additional features were added including rapid deployment and retraction and self contained air system giving the user height readout, push button operation and diagnostic codes to monitor the status of the mast. With all these features the warfighter has the benefit of a very stable mast platform along with On-The-Move capabilities when fully extended.

Testing at Yuma Proving Ground:

The Will-Burt Company's mast solution withstood over 500 miles of rough terrain and constant abuse during the fast paced testing at Yuma Proving Ground. Due to the rigorous testing this system went through we were able learn about and as a result, enhance our product immediately. This includes the operation of the mast at low voltages. The outcome was very positive, resulting in successfully passing first article testing. As the REF program continues and the CCTV program draws near, our engineers are working diligently to enhance and modify the current offering to even higher criterion.

With the rigorous testing and abuse the system experienced, we are confident the Will-Burt mast system will give any payload an extremely stable platform that is capable of On-The-Move operation. Because of the proven technology and simplicity of pneumatic masts, our system offers low maintenance and high cycle life.



Features:

Total system weight - 189 pounds (85 kg) and includes all features listed below

- Lightweight to meet CCTV program needs

Two full-length external keys on mast sections with matching machined keyways on collars

- Maintains directional azimuth and camera pointing accuracy

Low friction synthetic bearings

- Protects mast sections and collars for smooth operation and long life

Heavy-duty pneumatic seals

- Smooth and reliable mast extension and retraction

External wiper bumpers

- Protects against sand and dust
- Absorbs shock during retraction

Ruggedized Options

- Optional finish: Desert tan CARC on base tube and collars, Black hard coat anodize (MIL-A-8625, Type III, Class 2) on intermediate tubes.

Complete compressor package

- Package includes valves, 5 gallon tank, compressor and remote switch

RS 485

- Allows user to use computer from inside vehicle to operate mast system

Built-in air system

- No air supply needed



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Specifications

5.5 meter model:

Specifications

Nested height	1.5 m/5 ft.
Extended height	5.5 m/18 ft.
Payload Capacity	68 kg/150 lb.
System Weight	85 kg/188 lb.
Extension Speed	15 seconds
Retraction Speed	8 seconds
Survival Wind Speed	160 km/hr / 100mph
Height Readout	RS 485
Diagnostics	RS 485
Mast Controls	RS 485
Manual Back Up	Manual hand pump
Operative Voltage	16-32 VDC

