

Compact Electric Powered Aluminium Telescopic Mast TM 170

## Vehicle mounted telescopic mast for rapid deployment

The combination of proven Comrod telescopic mast technology and the Force XXI requirement for a rugged un-guyed mast to carry a heavy sensor package has produced the electric powered mast TM 170. The mast is made of extruded hexagonal and circular aluminium alloy tubes of progressively smaller size and tracked telescopic action, with screwed on or riveted fittings in stainless steel. The sections move inside each other on plastic guide-ways which provide the masts with excellent torsional resistance. The mast is elevated by an electric motor connected to a ball screw that lifts section 2 . The other sections are raised by a rope system. No additional staying is required. Ten and fifteen meter variants of the TM 170 mast system are also available.


The hexagonal sections move inside each other on plastic guideways which provide the masts with excellent stability and torsional resistance.

| MAST TYPE | TM 170/4.7-1.0 | TM 170/10-1.9 |
| :--- | :---: | :---: |
| Elevated Height | $4.7 \mathrm{~m}(15.5 \mathrm{ft})$ | $10 \mathrm{~m}(33 \mathrm{ft})$ |
| Retracted Height | $1.0 \mathrm{~m}(3 \mathrm{ft})$ | $1.9 \mathrm{~m}(6 \mathrm{ft})$ |
| Max. Top load $^{*}$ | $90 \mathrm{~kg}(198 \mathrm{lbs})$ | $90 \mathrm{~kg}(198 \mathrm{lbs})$ |
| Max. Top load Area ${ }^{*}$ | See note | See note |
| Number of Sections | 7 | 7 |
| Bottom Section Diameter | $170 \mathrm{~mm}(6.7 \mathrm{in})$ | $170 \mathrm{~mm}(6.7 \mathrm{in})$ |
| Top Section Diameter | 66 mm | 66 mm |
| Wind Speed Operational | $25 \mathrm{~m} / \mathrm{s}(56 \mathrm{mph})$ | $25 \mathrm{~m} / \mathrm{s}(56 \mathrm{mph})$ |
| Wind Speed Survival | $33.3 \mathrm{~m} / \mathrm{s}(75 \mathrm{mph})$ | $33.3 \mathrm{~m} / \mathrm{s}(75 \mathrm{mph})$ |
| Mast Weight | $45 \mathrm{~kg}(99 \mathrm{lbs})$ | $75 \mathrm{~kg}(165 \mathrm{lbs})$ |
| Elevation Time | 20 sec | 40 sec |
| Max Slope of Vehicle | $10^{\circ}$ | $10^{\circ}$ |
| Voltage | 28 Vdc | 28 Vdc |

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[^0]:    * Typical values shown. Actual values will be subject to a combination of top load weight, top load area and pointing accuracy required.

