



15 m (50 ft) ULM Mast

### Overview

- The ULM mast series is a lightweight composite sleeve mast capable of supporting headloads up to 80kg\*
- Available with glass composite (ULM-G) or carbon composite (ULM-C) tube sections depending on the headload weight and surface area.
- Heights available from 10 to 24 metres.
- The mast comprises individual composite mast tube sections that fit together to give the desired height.
- The tripod support includes a lifting mechanism and hoist to raise each section.
- Telescopic tripod legs allow deployment on uneven ground.
- Tripod kneeling position for easy access to the top load.
- Central guying enables the guy tension to be maintained during erection of the mast. This enables the mast to be deployed safely in high winds.
- The mast is supplied with a ground mounting kit containing all the items required for field deployment.
- Suitable for supporting directional, omni-directional or wire antennas, optronic equipment and sensors.
- Azimuth rotation is possible from the ground to orientate directional antennas.
- Can be deployed by two operators.

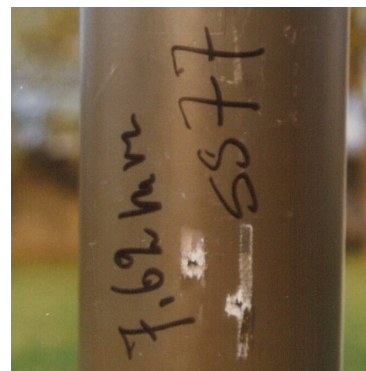
\* Subject to wind surface area of top load



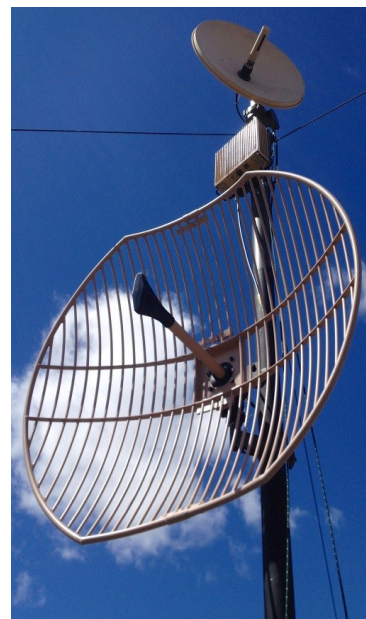
Complete mast kit packs into two man-portable bags

## Main advantages of Comrod vertical sleeve masts

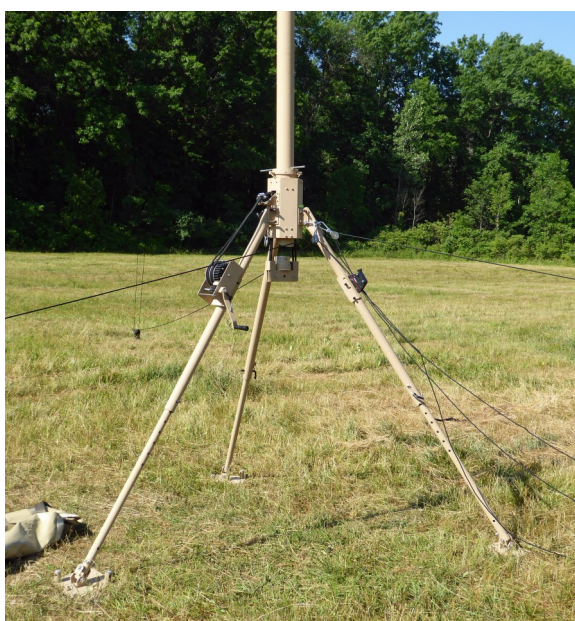
- Excellent resistance to environmental conditions such as sand, dirt, dust, snow and ice. There is no degradation of mast performance over the lifetime of the mast.
- Resistance to bullet impacts : a bullet impact on a pneumatic mast manufactured from light alloy will make a hole that will result in an air leak and in the mast collapse. In a Comrod sleeve mast, a bullet impact will also make a hole but without affecting the mast height. Moreover, the woven and crossed structure of the composite material prevents any crack in the tube.
- Height maintained at constant level once the mast is erected for an extended time : a pneumatic mast will tend to leak and therefore retract, which can result in the loss of the communications link.
- No deformation : the tube sections show no permanent deformation even after extensive use (strength maintained)
- Lightweight and outstanding mechanical performance
- No maintenance other than wiping or brushing to clean
- Interchangeable tubes. If a mast section is damaged, the mast can still be deployed at a lower height. It is also possible to use tubes from another mast.
- Characteristics of composite tube means that tubes can be handled with bare hands, even under cold or hot temperature.
- Adaptability to the customer's needs thanks to the computer designed (SAMCEF method) of the structure and the multiples combinations of materials and processes.



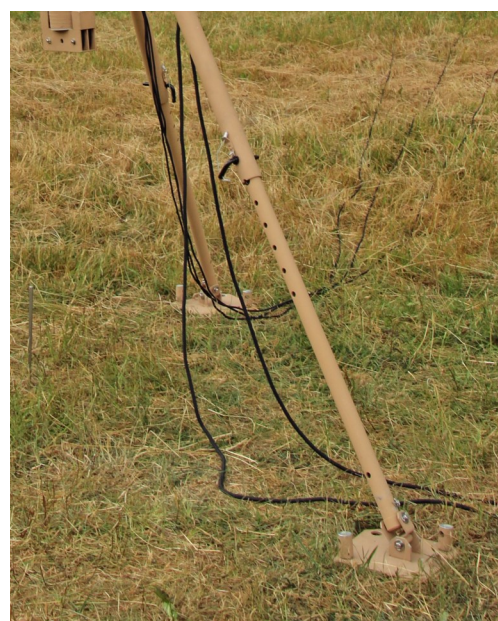
Bullet impact test



Multiple headload mounting options



Tripod assembly  
(shown with optional winch assembly)



Telescopic legs to compensate  
for uneven ground