15 Metre Heavyweight Telescopic Aluminium Pneumatic Support Mast

Type 457

Racal Antennas 457 heavyweight telescopic aluminium push-up mast is designed for headload weights up to 25kg at a maximum height of 15 metres.

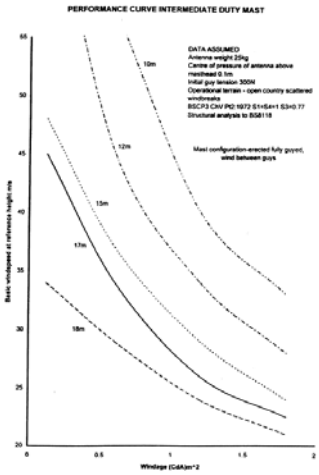
Manufactured from high tensile aluminium alloy, the 457 mast comprise seven sections to ensure a combination of minimum weight, minimum retracted height and maximum strength. The mast is extended using a pneumatic footpump or optional compressor and is positively locked in its full or partially extended position by a specially designed friction clamp. This clamp is a particular feature of these masts and provides a positive self-aligning clamping force actuated by a lever forming part of an over-centre toggle arrangement. Another important feature of this series of masts is the damping effect during retraction. The rate of fall during retraction is controlled by a pneumatic damping system which ensures the safety of the operator and the mast head equipment. The piston seals are so designed that they give sufficient cushioning effect during retraction while imposing minimal drag during manual extension.

Typical Heavyweight Mast

All masts are precision engineered and manufactured to meet the most exacting requirement of modern communications. Although primarily for military use to support various types of antennas, the masts are used in a wide range of alternative applications, including support of CCTV cameras, public address loudspeakers, floodlights and emergency lighting for airfields and construction sites. The standard colour is anodised green with optional colours of black and sand also available. Mounting kits are available for ground, vehicles and shelters, as well as a variety of other ancillary equipment.

Typical Kit

Mechanical Specification	
Mast Extended Height	15.0 metres
Mast Retracted Length	2.9 metres
Number of Sections	7
Maximum Vertical Top Load	25 kg
Maximum Wind Area CxA ($m^{2)}$	See Performance Graph
Maximum Wind Speed (m/s)	See Performance Graph
Number of Guys / Levels	3 / 3
Guy Radius	10.5 metres
Mast Weight	46.0 kg
Ground Mounting Accessories Weight	32.0 kg



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