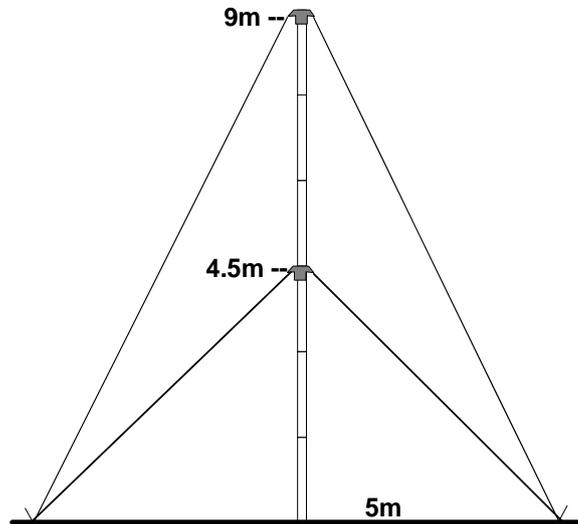




Type 9MP

Portable Mast/HF Antenna System



The Moonraker Portable Mast is designed to support wire antennas, such as the HF EF2-30, in situations where temporary radio communications are required.

Constructed from 32mm (1.25in) corrosion resistant tempered aluminium in six 1.5 metre (4.9 ft) slip together lengths, it is both lightweight and easy to erect and transport. The mast is supplied complete with two sets of four 4mm (3/16 in) polyethylene braided cord guys, aluminium guy tensioners, cast aluminium guy fittings and stainless steel halyard pulley.

A nylon standoff insulator and connection screw at the base permit the mast to be used as a vertical HF antenna, if required. Self resonance is approximately 8.0 MHz. An ATU and earth mat are normally required when used this way (option).

A heavy duty canvas carry bag is available as an option. Note that a base plate may be necessary in soft ground (option). Standard colour is Drab Olive.

Specifications

Height	9m (29.5ft)
Minimum Guy Spread	Not less than 5m (16ft) radius
Guy Tension	Recommended 3 kg (6.6 lbs)
Halyard Tension	14kg (30.8 lbs) maximum at 90° to top of mast
Downward Pressure on Base	Up to 50kg (110 lbs) depending on guy and halyard tensions and wind velocity
Wind Loading	9.3 kg at 80 km/h (20.5 lbs at 50 mph) 5.3 kg at 60 km/h (11.7 lbs at 37 mph)
Weight	Mast plus guys, fittings and canvas carry bag: 5.5 kg (12.1 lbs)

Specifications subject to change – Issued 07/13



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9MP INSTALLATION INSTRUCTIONS

Assembly

1. Lay the sections out on the ground, placing the guy and halyard section at the top and the base insulator section at the bottom. The bottom section must be laid on solid ground so that it will not dig in when erected. A 30cm (12 in) square plate is recommended.
2. Insert the centre guy casting with guys attached at the centre of the antenna (ie three sections from either end).
3. Locate four guy anchors approximately 5 metres (16.4 ft) radius from the base at 90 degrees spacing.
4. Lay out guys and temporarily fasten side and back guys to anchor.
5. Check that the halyard pulley is in the required position for antenna support and that the mast base cannot move.

Mounting

Method 1

1. Walk the mast upright by lifting from the top and pulling on the front guys.
2. When erect, fasten off guys and adjust so that the mast is straight and vertical.

Method 2

1. Lift vertically adding sections at the bottom end and adjusting guys as necessary.
2. Make sure that centre guys are at mast centre.

Important Factors

1. Recommended guy and halyard tensions should not be exceeded.
2. Observe minimum guy spread.
3. Take care to keep all slip joints free from dirt, dust and damage.



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