

The NH Series of telescopic Hilomast's has a base section diameter of 3.5 inches and is pneumatically operated with either a manual foot pump or our Plug-N-Go compressor. Although the smallest in the range, they are robust and ideal for applications where portability is of prime importance. Easily fitted to a vehicle, the masts are well suited for mobile applications where light antennas are required. The top section diameter is specified in the table shown below for the fitting of antennas. This range of masts is available with or without locking collars.

Mast Range Specifications

The table of masts shown below is only a small selection of possible mast configurations. Due to Hilomast's modular design of all Pneumatic masts, we are able to offer masts in custom sizes, with or without locking collars, and in various colors and finishes. Please contact a member of the sales team for a friendly chat about your requirements.

Mast	Height Extended ft	Height Retracted ft	Number of Sections	Diameter of Top Section inches	Vertical Head Load lbs	Max Wind Speed Unguyed mph	Max. Wind Speed with Top Guys mph	Basic Weight of Mast lbs
NH5	16' 5"	4' 7"	5	1.5	40	112	112	33
NH5 NLC	16' 5"	4' 7"	5	1.5	40	112		33
NH7	23' 0"	6' 0"	5	1.5	33	84	99	42
NH7 NLC	23' 0"	6' 0"	5	1.5	33	84		42
NH9	29' 6"	7' 6"	5	1.5	29	67	91	51
NH9 NLC	29' 6"	7' 6"	5	1.5	29	67		51

The table shows the vertical head load that each mast will support and the maximum operational wind speed. The weight of the antenna, however, is not usually the main criteria when selecting a mast. The limiting factor is usually the 'side surface area' of the antenna. The wind speeds shown are based on the following side surface areas:

NH Masts = 1.07 sq. ft. † With non-rotating base plate.

Mast Mounting Options & Accessories

Vehicle Installations

For mounting masts through the roof of a vehicle or shelter. The assembly comprises of an upper and lower aluminium bearing. The upper bearing has three separate components, a flange fitted with a Teflon ring that is bolted to the outer shell of the vehicle, a tapping plate and a weatherproof shield that clamps to the mast. The lower bearing base plate has a Teflon disc to permit easy rotation of mast and a thumb screw for locking the mast into position.



Typical Applications

- Digital/CCTV Cameras
- RF Measuring Antenna
- WLAN Surveying
- Meteorological Equipment



NHKL-3LT Tripod System

This Tripod system has been designed to specifically handle a majority of the N-Series and TPM lines of masts that we offer. The system is able to be adjusted to go from a shorter mast like the NH5 to a larger NK9 very simply and quickly. The adjustable outriggers allow for a greater stability, and allow for the system to be levelled on uneven terrain, when the mast is deployed. It has been designed in-house for our masts and is capable of holding the mast systems for varying periods of time.



Mounting Brackets

For mounting masts to the vertical surface of a vehicle, Hilomast provides two brackets, a top bracket and a lower bracket. The top bracket allows for removal of the mast from the vehicle and it incorporates Teflon bearings to protect the mast. The lower bracket has a Teflon disc to permit easy rotation of the mast and a thumb screw for locking the mast into position. NSM87



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Mast Mounting Options & Accessories cont...

Top Guy Assembly

For use in inclement weather conditions or to give more directional stability to the top of the mast. In some cases masts will withstand higher wind speeds. (Ground stakes included) The guy collar is designed to clamp to the upper end of the second from the top section of the mast.



Base Guy Assembly

This arrangement is generally the easiest method of erecting a mast on open ground. The kit is complete with mast fittings, guy ropes, adjusters, base plate, ground stakes and pegs. The NH kits have polyester guy ropes and special 'one way' adjusters that allow the mast to be set vertically while still supporting it by hand.

Plug-N-Go Compressors

Available in either 12V DC or 115V AC, this simple to operate compressor includes a regulator, oiler, pressure cut-off switch, electronic dump valve and psi gauge. The design and size of the compressor offers easy operation and portability making it ideal for on the road use (i.e. broadcast vehicles). An electronic quick dump safety valve offers fast but safe mast retraction. Comes standard with a painted aluminium finish, removable carrying handle and shock mounts. All electrical connections are made within a weatherproof box for easy access and safety. A remote control is included with optional operation lengths of wiring.



Foot Pump

The general use twin cylinder foot pump is fitted with a pressure gauge, hose and special mast connector. Offering an average extension speed of 8 metres per minute with an NH mast.



Rotation Handles

These handles assist the easy rotation of mast and fold to a vertical position when not in use.



Mast Cover

For weather protection when mast is not in use. Made of durable waterproof material. Available as an end cover or a full mast cover.



Cable Guides

The stainless steel cable guides screw into tapped holes provided in each mast collar. The cable guides are to protect any cables being used when extending and retracting the mast.

