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South Midlands Communications
www.smc-comms.com

NK Series NK6 NK9 NK11 NK16

The NK Series of telescopic Hilomasts has a base section diameter of 102mm and is pneumatically operated with either a manual footpump or small air compressor.

Although designed for long term applications the NK series is equally suited for experimental work. The top section diameter for fitting antennas is specified in the table below. The whole range of NK masts is also available without the locking collars, please contact our sales team to discuss your requirements. Easily fitted to a vehicle, the masts are suited to mobile applications where light antennas are required.

Mast	Height Extended	Height retracted	Number of Sections	Diameter of Top Section	Vertical Head Load	Max Wind Speed Unguyed	Max. Wind Speed with Top Guys	Top Guy Ref. No. inc. Stakes	Basic Weight of Mast
	metres	metres		mm	kgs	kph	kph		kgs
NK6	5.9	1.64	5	50	27	164	164	NUG/2-GS	21
NK6NLC	5.9	1.6	5	50	27	164			21
NK9	9	2.3	5	50	22	114	137	NUG/2G-S	26
NK9NLC	8.9	2.3	5	50	22	114			26
NK11	10.9	2.37	6	38	18	96	125	NUG/3G-S	29
NK11NLC	10.6	2.3	6	38	18	96			29
NK16	16	4	5	50	20	65	112	NUG/4G-S	44
NK16NLC	16	4	5	50	20	65			44

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 criterion 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: NK Masts = 1400 sq. cms.

Mast Mounting Options

Vehicle Fitment

For mounting masts through the roof of a vehicle or shelter. The assembly comprises an upper and lower aluminium bearing. The upper has three separate components, a flange fitted with a Teflon ring that is bolted to the outer skin 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 it in position. NRB/102



Mounting Brackets

For mounting masts to the vertical surface of a vehicle or building the kit comprises two brackets. The aluminium top bracket has one half detachable to allow for removal of the mast without disturbing the bracket fixings. It incorporates Teflon bearing rings to protect the mast. The lower bracket has a Teflon disc to permit easy rotation of the mast and a thumb screw for locking it in any desired azimuth position. (Hole centres NK mast 150mm for M10 bolts). NSM/102



Four Leg Stand

This four legged stand is for field erection of NK Series masts. Constructed from aluminium alloy it has adjustable legs for irregular ground conditions. These fold into the mast for transit. Ground pegs are supplied for anchoring the feet and base plate. The top bearing and base plate permit the rotation of the mast and a thumbscrew locks it in any desired azimuth direction. Weight 12 kgs. N4L/102



Typical Applications

- Radio Communications
- Supporting Cameras
- Field Strength Measurements
- Meteo Measuring Equipment

Rapid Deployment Unit

Our RDU is a very practical method of fitting your Hilomast to a mobile unit without making it a permanent feature. The RDU can be easily assembled and fits all vehicles. Built to MIL SPEC 810.E standards it offers a robust base for your telescopic mast. The vehicle weight holds the foot of the base in place, in addition, larger models can be mounted to the roof rack or guttering of your vehicle. Special fitment brackets can be made to order. RDU/102



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SMC can design custom mast solutions where standard products are not appropriate. Using our state of the art 2D and 3D design packages we can cater for your needs. Please contact one of our sales team to discuss your requirements.



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Options and Accessories

New

Hand Pump

New Hand-pump, with integral valve and mast fixing brackets. NHP1



Cable Guides

These stainless steel cable guides screw into tapped holes especially provided in each mast collar. To be attached to mast without disconnecting the end terminations. (Cable guides and supports are sold individually) CG/2612



NC1 12V / 24V / 230VAC Compressor

Portable and most suited to field applications this compressor is the smallest and simplest in the Hilomast range. Offering the NK series an extension rate of approx. 4.2m per minute. Other variants and a remote control are available please refer to compressor data spec sheet. NC1



Foot Pump

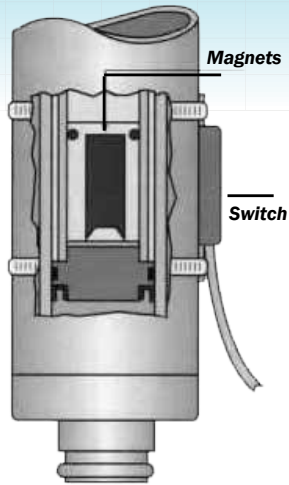
General use twin cylinder foot pump fitted with pressure gauge, hose and special mast connector. Offering an average extension speed of 5 metres per minute with an NK mast. NFP/1

Compressor Remote Control

This is a "three position" switch. It enables the mast to be extended, retracted or held at any height. These switches should be ordered with the compressor during manufacture. RC1



Magnetic Safety Switch



The purpose of this switch is to give an audio or visual warning that the telescopic mast to which it is fitted, has not been fully retracted. When fitted in a vehicle it can be used via a relay to interrupt the ignition circuit and prevent movement of the vehicle when the mast is not retracted. It is fitted to the outer tube of the mast and is operated by a set of magnets placed at the bottom of the inner mast tube. The magnets are bonded into an aluminium housing and can be easily inserted into the top section of the mast without any dismantling. The plastic end cap of the top section is removed and the magnet housing is inserted into the section. It is automatically retained in position by a neoprene 'O' ring.

NK11 MAG38
NK6/9/16 MAG50

Top Guy Assembly

For use in inclement weather conditions or to give more directional stability to top of 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 top section of mast.



NK6/9 NUG/2-GS
NK11 NUG/3-GS
NK16 NUG/4-GS

Mast/Compressor Drain Kit

For use when retracting the mast/opening the exhaust valve. An ideal piece of kit for venting air waste from the compressor to the outside environment when fitted inside a vehicle. 0500 50000



Rotation Handles

These handles assist the easy rotation of mast and fold to the vertical position when not in use. The aluminium collar is in two halves and can be fitted after mast installation. NRH/102



Mast Cover

For weather protection when mast is not in use. Made of strong waterproof material. Available as an end cover or a full mast cover. Please contact one of our sales team for more information on a suitable cover for your mast. Every mast in our range has an available cover. NKB



Base Guy Assembly

This arrangement is generally the easiest method of erecting a mast on open ground. The kit is complete with mast fittings, 3 guys, adjusters, base plate, ground stakes and pegs. The NK kits have polyester guy ropes and special 'one way' adjusters that allow the mast to be set vertically while still supporting it by hand. NBG/102