

# NX Series

NX8 NX10 NX14 NX18 NX25 NX30

The NX Series of telescopic Hilomasts has a base section diameter of 152mm and is pneumatically operated by air compressor. Being heavier than the NL Series it will support larger antennas and should be considered as being the maximum size necessary for general use. Although the NX Series can be used for portable applications it is primarily designed for vehicle installation, either bracketed to the rear, or mounted through a roof bearing. Models NX18, NX25 and NX30 can be mounted onto the roof of a vehicle in a sliding carriage. The carriage slides rearwards and the mast is then tilted and clamped in the vertical position. All masts in this NX Series can be trailer mounted. The NX30 has a top section diameter of 50mm for attaching the antenna. All other NX masts have a top spigot of 50mm diameter x 130mm long. A popular use for this range on a vehicle installation is with our HiloCAM kit.

| 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                  |
| NX8     | 7.6             | 1.91             | 7                  | 76                      | 50                 | 155                    | 155                           | NUG/6GS                      | 50                   |
| NX8NLC  | 7               | 1.7              | 7                  | 76                      | 50                 | 155                    |                               |                              | 50                   |
| NX10    | 10.1            | 2.51             | 6                  | 89                      | 50                 | 120                    | 120                           | NUG/7GS                      | 60                   |
| NX10NLC | 9.7             | 2.3              | 6                  | 89                      | 50                 | 120                    |                               |                              | 60                   |
| NX14    | 13.6            | 2.64             | 8                  | 63                      | 35                 | 92                     | 95                            | NUG/5GS                      | 70                   |
| NX14NLC | 13              | 2.4              | 8                  | 63                      | 35                 | 92                     |                               |                              | 70                   |
| NX18    | 18.5            | 4.32             | 6                  | 89                      | 30                 | 70                     | 83                            | NUG/10GS                     | 93                   |
| NX18NLC | 18.5            | 4.2              | 6                  | 89                      | 30                 | 70                     |                               |                              | 93                   |
| NX25    | 25              | 4.44             | 8                  | 63                      | 20                 | 52                     | 80                            | NUG/9GS                      | 110                  |
| NX25NLC | 25              | 4.3              | 8                  | 63                      | 20                 | 52                     |                               |                              | 110                  |
| NX30    | 29.8            | 4.57             | 9                  | 50                      | 14                 | 44                     | 75                            | NUG/8GS                      | 120                  |
| NX30NLC | 29              | 4.4              | 9                  | 50                      | 14                 | 44                     |                               |                              | 120                  |

## Typical Applications

- Large Antennas
- Vehicle Installations
- HiloCAM kit
- Meteo Measuring Equipment

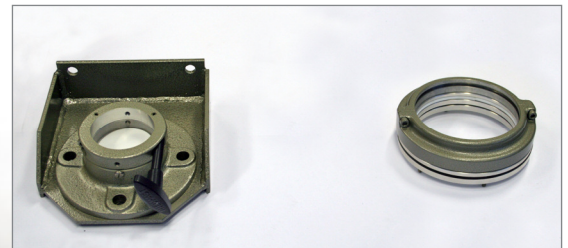
The table shows the vertical head load that each mast will support and the maximum operational wind speed. The weight of the antenna, however, is not usually the main criterion when selecting a mast. The limiting factor is usually the 'side surface area' of the antenna. The wind speeds shown are based on the following side surface areas: NX Masts = 3000 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.

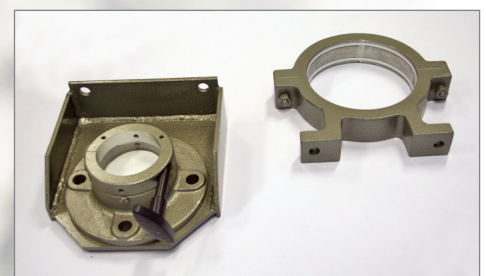
NRB/152



### 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.

NSM/152



### 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/152

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.

# Options and Accessories

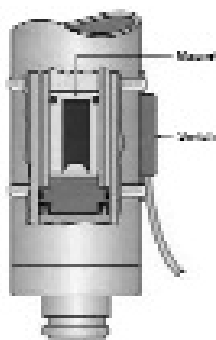
## Compressor Range & Extension Times For NX Series.

Hilomast compressors are air cooled, oil-less and of the diaphragm type. They have steel cases and are powered by electric motors. All models incorporate a pressure controlled switch to maintain the correct mast working pressure. They are quiet, maintenance free and assembled from components that have a proven reliability over many years. For the NX mast we recommend using our NC2 or NC3 compressor. Please request a copy of our compressor spec sheet for more details.

| Compressor Type | Approx. rate of mast extension<br>Metres per minute |
|-----------------|---|
|                 | <b>NX series</b>                                    |
| NC2             | 3.2   |
| NC3             | 7.5   |

## Compressor Remote Control

A "three position switch" (RC1) and a "three button" switch (RC2/3) is available for the NC2 and NC3 compressors. It enables the mast to be extended, retracted or held at any height. These switches should be ordered with the compressor during manufacture.



**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.

|         |        |
|---------|--------|
| NX30    | MAG/50 |
| NX14/25 | MAG/63 |
| NX8     | MAG/76 |
| NX10/18 | MAG/89 |

## 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. **NXB**



Please contact one of our sales representatives for a quotation.

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



## Climbing Steps

These are useful for field applications, providing easy access to locking collars and antennas. They clamp in any position on the mast lower section and fold upright for transit. Single steps for climbing. Double steps for resting.



Single Step  
Double Step

NSP/152/1  
NSP/152/2



## 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.

|      |           |
|------|-----------|
| NX14 | NUG/5-GS  |
| NX8  | NUG/6-GS  |
| NX10 | NUG/7-GS  |
| NX30 | NUG/8-GS  |
| NX25 | NUG/9-GS  |
| NX18 | NUG/10-GS |

## 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/152**



## Mid Guy Assembly

The kit is complete with mast fittings, 3 guys and adjusters. NX kits have polyester guy ropes and is used for extra stability on the NX18, NX25 and NX30 masts. Comprising of three guys and a suitable collar for the appropriate mast.

**NUG/MIDGUYKIT**

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