



NY Series

NY7 NY10 NY12 NY14 NY18 NY21

The NY Series of telescopic Hilomasts has a base section diameter of 238mm and is pneumatically operated by custom-built air compressors. This range of mast is also available with locking collars. Standard NY masts have special engaging screws fitted into each of the main collars to resist the torsional loads when the masts are fully extended. The NY Series of masts is for special applications where high head loads are required or where maximum directional stability is necessary. For large diameter antennas, it is important to ensure that the torsional loads transmitted to the masts when fully extended do not exceed the following:

- NY7 and NY21 = 5200kg cms
- NY10 and NY18 = 5800kg cms
- NY12 and NY14 = 4300kg cms

All NY masts have a horizontal flange of 150mm diameter at the top for mounting antennas etc. This flange can be drilled to suit customer requirements.

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
NY7	6.7	1.62†	7	114	120	150	*	—	88
NY10	9.6	2.22†	6	127	100	126	*	—	106
NY12	12.7	2.31†	8	102	90	90	*	—	120
NY14	14.3	2.35†	9	89	70	80	*	—	127
NY18	17.7	3.96†	6	127	50	83	*	—	170
NY21	20.7	4.00†	7	114	40	67	*	—	183

Typical Applications

- Mounting video cameras fitted with telephoto lenses.
- Microwave Dish antennas for electro news gathering/outside broadcast.
- Direction sensitive devices.

* Top guys not recommended.

† With non-rotating base plate.

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: NY Masts = 11000 sq. cms.

Mast Mounting Options

The Future Never Sounded So Good

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.



Fixed Bearing: **NRB/238F**
 Rotating: **NRB/238R**

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.



Fixed Bracket: **NSM/238F**
 Rotating Bracket: **NSM/238R**

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

Please contact one of our sales representatives for a quotation.

Compressor Range & Extension Times For NY 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 NY 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 Metres per minute
	NY series
NC2	1.7
NC3	3.9

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.



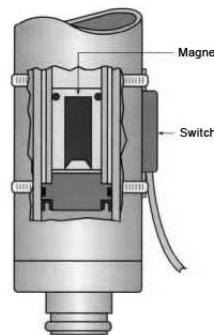
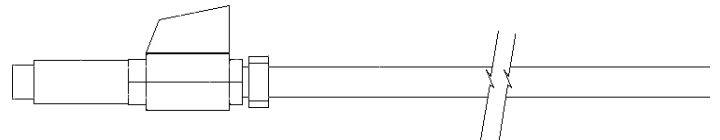
Mast Cover

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. NYB



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



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.

NY14	MAG89/NY
NY12	MAG102/NY
NY7/21	MAG115/NY
NX10/18	MAG127/NY

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/238



South Midlands Communications Ltd

SM House, School Close, Chandlers Ford Industrial Estate, Eastleigh, Hampshire, SO53 4BY ENGLAND
Tel: +44 (0)23 8024 6200 Fax: +44 (0)23 8024 6206 Email: sales@smc-comms.com Web: www.smc-comms.com