

## Products / High masts with mobile crown - NEOFAR



The high mast "NEOFAR" comprises of the following elements:

**SHAFT:** It has a conical shaped trunk with polygonal cross section, made up of S355 J2G3 UNI EN 10025 sheet steel press-folded and longitudinally welded. The welding is in accordance with a process certified by the Italian Institute of Welding

Space is provided in the base section for the winch and for electrical switchgear and wiring.

### CROWN GUIDED MANUAL MOBILE SYSTEM

**Top of the pole:** the return pulley for operating the cable is positioned at the top of the pole. At the upper extremity of the pole the following fixtures are also mounted:

- Hooking device of the mobile platform to reduce load on the rope from the weight of the crown and the floodlights
- Antirotation dowel pins (pivots) designed to neutralize the force of the wind on the floodlights

**Mobile crown:** made of steel, accepts installation of floodlights and relevant control gear. It locks at the top of the pole through a

mechanical hooking device. The mobile crown integrates with the sliding carriage, which houses the parachute brake internally.

**Guide:** Constructed of light alloy and longitudinally fixed to the shaft. It allows the correct raising/lowering of the mobile crown even in windy conditions. It provides a smooth surface contact for the parachute brake.

**Cable:** In high corrosion resistant galvanized steel.

**Carriage:** Constructed of hot-galvanized steel sections. The movement of the aluminium guide is controlled by sliding blocks/shoes. The hooking is achieved with two laminated steel rods.

The exclusive "NCM" PARACHUTE BRAKE system is positioned in the centre of the carriage. It includes a steel cable fixing block, a regulation screw and a toothed lever which acts as a brake during the operation of the brake spring.

The brake is activated the instant the traction rope loses tension.

**Motion control unit** is constituted by a winch controlled by a handle.

**Electrical accessories:** An interlocking socket is positioned inside the housing at the base of the mast, for the sectioning of the line for the power of the floodlights. This cable is fixed inside the masts. At the top of the pole a set of male/female sockets allows an infinite number of operations.

**Protection cover:** The electrical and hooking devices at the top are protected by a fibre glass dome cover.

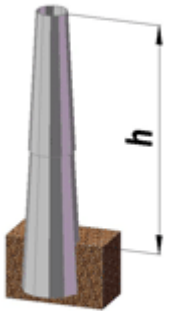
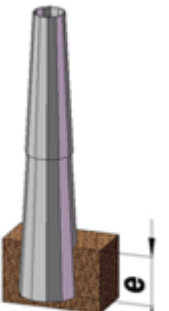
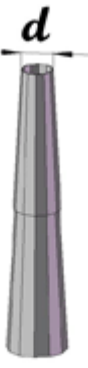
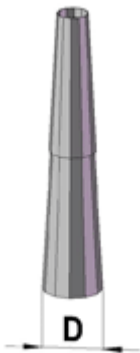
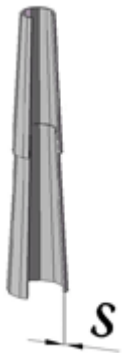

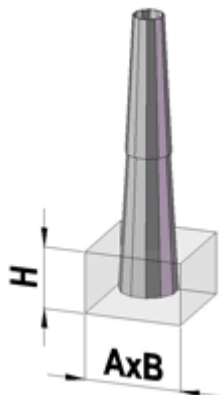
**Finishing:** The complete structure is hot dip galvanized according to standards UNI EN ISO 1461.

### References for calculation:

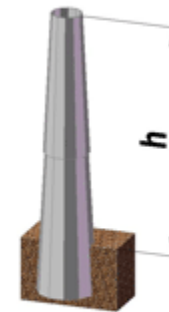
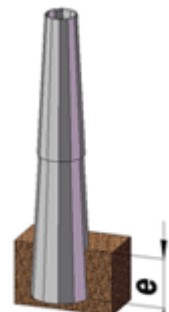
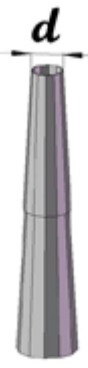
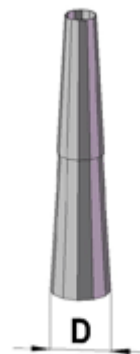
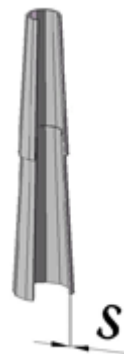

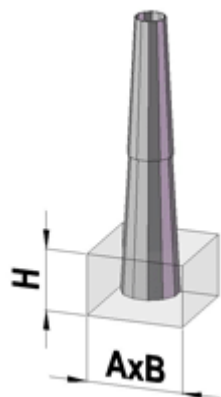
D.M. 9 January 1996

D.M. 16 January 1996

**Projectors on 180°**

|               |  |  |  |  |  |  |  |
|---------------|---|---|---|---|--|---|---|
|               | m   | mm  | mm  | mm  | mm   | kg  | m x m x m   |
| <b>TN 160</b> | 16  | 1500  | 180   | 452   | 4 - 4  | 850   |   |
| <b>TN 161</b> | 16  | 1500  | 180   | 522   | 4 - 4  | 915   |   |
| <b>TN 180</b> | 18  | 1500  | 180   | 484   | 4 - 4  | 955   |   |
| <b>TN 181</b> | 18  | 1500  | 180   | 562   | 4 - 4  | 1015  |   |
| <b>TN 200</b> | 20  | 1500  | 180   | 516   | 4 - 4  | 1095  |   |
| <b>TN 201</b> | 20  | 1500  | 180   | 602   | 4 - 4  | 1190  |   |

**Projectors on 360°**

|                |  |  |  |  |  |  |  |
|----------------|---|---|---|---|--|---|---|
|                | m   | mm  | mm  | mm  | mm   | kg  | m x m x m   |
| <b>TN 1603</b> | 16  | 1500  | 180   | 452   | 4 - 4  | 850   |   |
| <b>TN 1613</b> | 16  | 1500  | 180   | 522   | 4 - 4  | 915   |   |
| <b>TN 1803</b> | 18  | 1500  | 180   | 484   | 4 - 4  | 955   |   |
| <b>TN 1813</b> | 18  | 1500  | 180   | 562   | 4 - 4  | 1015  |   |
| <b>TN 2003</b> | 20  | 1500  | 180   | 516   | 4 - 4  | 1095  |   |
| <b>TN 2013</b> | 20  | 1500  | 180   | 602   | 4 - 4  | 1190  |   |

NCM will supply a duplicate certified engineering structural design for mast and plinth foundations.