

Products / High masts with mobile crown - CITYFAR



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

SHAFT: It has a conical shaped trunk with polygonal cross section, made 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.

The shaft is made in sections to be assembled on site using a self-locking slip joint compression fit system.

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

CROWN GUIDED MOTORIZED 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, it allows the installation of floodlights and relevant control gears. It locks at the top of the pole through a mechanical hooking device. The mobile crown is integral with the sliding carriage, which houses the parachute brake internally.

Guide: In light aluminium alloy and fixed along the length of the shaft it allows the correct raising/lowering of the mobile crown even in windy conditions. It offers a smooth surface contact with the parachute brake.

Cable: It is made in high corrosion -resistant galvanized steel.

Carriage: In hot -dipped galvanized steel sections. The movement in the aluminium guide is with sliding blocks/shoes. The hooking is achieved by the use of two laminated steel rods.

The exclusive "NCM" PARACHUTE BRAKE system is positioned at the centre of the carriage. It includes a block, where the cable is secured, a regulation screw and a toothed lever which acts as a brake during the operation of the brake spring. The braking of the carriage takes place every time the traction rope loses tension.

Driving gear: It consists of an irreversible reducing gear positioned inside the mast and it is connected to a drum for the winding of the rope. The gear is driven by a mobile motor which could be used for several masts.

The mobile motor is powered by the same line for the electrical supply of the floodlights. All controls are low voltage 24v.

Electrical accessories: An interlocking socket positioned inside the housing at the base of the mast delivers power to the floodlights. This cable is fixed inside the mast. At the top of the pole a set of male/female socket allows an infinite number of operations.

Protection cover: The floodlights are protected by a fibre glass dome cover.

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

References for calculation:

D.M. 9 January 1996

D.M. 16 January 1996

Circolare Min. LLPP 15 ott. 96 n° 252

Circolare Min. LLPP 4 luglio 1996 n° 156

CNR 10011/97

If you need more informations, please contact our technical department.

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

N.C.M. S.r.l. - Poles and high masts for lighting