



In the rectangular inner cavity at the bottom of the lift type high pole light, a lifting system such as a motor is installed in addition to the electrical control system. The electrical control system is installed inside the pole to avoid the malfunction of the lifting movement caused by the harsh outdoor environment. Various circuit overload protection devices are provided in the electrical control system.

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The conductors of the circuits in the system are widely copper-plated to ensure good electrical contact. The lifting system of the lifting type high pole lamp drives the lifting and lowering of the lamp panel by means of an electric motor, an (electromagnetic brake type) worm gear reducer, a safety coupling, a main wire rope, a secondary wire rope, a rope splitter and a movable pulley block. The worm gear reducer has strong self-locking ability, compact transmission and large transmission ratio. In order to reduce the worm gear and worm gear ratio and reduce the rising torque, a set of moving pulleys is added to make the lifting speed of the lamp plate less than 0.2 m/s. .

The main wire rope is connected to the wire rope of the lamp pair through the rope separator to avoid the entanglement of the secondary wire due to the stretching of the main wire. Both the main and auxiliary wire ropes are made of high-strength, corrosion-resistant 6*19 non-rotating galvanized steel wire rope. The lifting pulley block adopts hot-dip galvanized A3 steel bracket, stainless steel shaft and copper pulley to ensure flexible operation under normal atmospheric conditions.

Various fastener washers, collars and other parts are also hot-dip galvanized or stainless steel. There are 6 sets of guiding pulley blocks and three or more sets of braking devices on the lamp panel. The 120-degree distributed guiding wheels roll along the surface of the lamp post during the lifting or lowering of the lamp disc to ensure that the lamp disc does not oscillate. The surface of the working part of the lamp wheel that is in contact with the surface of the lamp post is subjected to a rubber thermocompression bonding process. In order to fully guarantee the automatic stop when the lamp panel reaches the limit position, the lamp tray is equipped with a reliable limit switch with rising and falling motion, and has over-travel protection.

The lifting of the high pole light panel is achieved by changing the direction of rotation of the motor. For safety and security, the rectangular cavity is equipped with a sealed door, and the sealed door is equipped with a special door lock.

15m-30m HDG galvanized Steel High Mast Lighting Pole with lifting system	
Material	Q235 high quality mild steel, HDP and powder coating
Mounting Height	15-30 M
Shape of Pole	Round conical; Octagonal conical; Straight square; Tubular stepped; Polygonal (Shafts are made of steel sheet that folded into required shape and welded longitudinally by automatic arc welding machine)
Brackets	Single or double brackets are in the shape and dimension as per customers requirement
Welding	Welding confirms with international welding standard of CWB
Base plate mounted	Base plate is square or round in shape with slotted holes for anchor bolt and dimension as per customers requirement
Ground mounted	The length buried underground as per customers requirement
Galvanizing	Hot dip galvanization with thickness of 80-100µm average
customized service or design service	Supportive

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