



## **220KV Fall Arrest Transmission Line Steel Pole Tower**

Mao Tong is a professional China 220KV Fall Arrest Transmission Line Steel Pole Tower manufacturers and suppliers. The steel tubular tower structure has relative technical and economic advantages and is suitable for transmission towers bearing large loads.

### **Product Description**

220KV Fall Arrest Transmission Line Steel Pole Tower: a lattice tower composed of steel tube for main parts and steel tube or section for other parts. It is a support structure for overhead transmission lines to support conductors and lightning conductors. Make the wire to the ground, ground objects to meet the distance requirements, and can withstand the wire, lightning line and its own load and external load.

### **The 220KV Fall Arrest Transmission Line Steel Pole Tower main features**

The steel tubular tower structure has relative technical and economic advantages and is suitable for transmission towers bearing large loads.

#### **(1) Load characteristics**

Steel tube tower members bear small wind pressure, large section bending stiffness, simple structure, clear force transmission, can give full play to the bearing performance of the material, on the one hand, can reduce the weight of the tower, reduce the basic force; On the other hand, it is beneficial to enhance the ability to resist natural disasters under extreme conditions.

Under the condition of satisfying the calculation requirements of strength and stability, the wind load on the tower body can be significantly reduced by using the steel tube tower with relatively small wind pressure coefficient.

#### **(2) Section characteristics**

The cross-section of steel pipe members is symmetrical and isotropic. The material is evenly distributed around the perimeter, and the section bending stiffness is large. When the cross-sectional area of steel tube and Angle steel is equal, the steel tube tower does not show its advantage.



For the hydraulic components of the transmission tower, using smaller cross-sectional area and has a radius of g steel pipe material mechanical performance can be fully balanced play, stiffness and stability requirements, especially for structural geometry size of bigger, longer big load tower bar, steel tube pole piece stable performance advantage is obvious.

### (3) Structural connection

In terms of structural connection, the main material of 220KV Fall Arrest Transmission Line Steel Pole Tower is connected with flange or intersecting connection, the plug plate connection or intersecting connection is used between the inclined material and the main material, the main material of Angle steel tower is connected inside and outside, and the other rods are mainly connected by connecting plates and bolts.

Steel pipe flange and inserting plate connection structure of the tower are relatively simple, while increase the workload of welding, but reduces the Angle steel components such as on the bearing performance of the structure of eccentric adverse effects, and at the same time enhances the connection node stiffness and density, can help to enhance the overall stiffness of the structure and stability and the ability to resist wind vibration dynamic loading.



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