HIGHMAST LIGHTING Poles
Highmast Lighting Pole

Highmast lighting pole provides repair and maintenance of the projectors by lowering them to the pole base. It creates a solution especially in the difficult and costly fields where the cranes aren't allowed to enter.

Highmast lighting pole consists of platform raising and lowering mechanism, motor, gearbox, command panel, remote control, top locking - latch mechanism, railed guide system (optional), projector, cover, pole, lighting platform, and top system.

The platform, which is attached to the drum rotated by winch, is moved up and down by remote control on the pole. When the platform reaches to the top of the pole, the latch on the platform fixed to the top frame and become fixed. In order to lower the platform by pressing the lowering button, the lock release from top frame and move the platform downward.

When the platform raised to the top position, there would be no load on the rope.
Contact us for various poles and revised projects.

Foundation dimensions are calculated according to the design and load. Do not use it for different designs.

Non-standard designs can be done according to the demanded wind load and projector types. Projector positioning, weight and section measure information need to be provided for these kinds of designs.

Pole designs can be done according to various standards like TIA 222 G, TIA 222 F, TS 648.
TOP SYSTEM

Top system consists of below stated components:

- Projector carrier ring,
- Projector mounting arms,
- Pulley construction,
- Steel rope adjustment mechanism,
- Top Locking/Latch mechanism,
- Lightning rod,
- Solar warning assembly pipe,
- Connection flange.

These components are protected against corrosion with hot dip galvanization and geomed coating.

When the platform carrier ring connects with the top system, automatic mechanic locks step in. By these locks, the load on the steel ropes becomes zero.
High mast lighting top locking system, which has been developed after 15 years of Research & Development, functions with cam mechanism. The locks, connecting top construction, step in automatically and stable the projector carrying ring. By the way, it is not needed automation adjustment like switch, etc. for ring positioning. Top locking system is modular and optional. It has an assembly place on the ring. It may not be used if not demanded.

The pole centering arms, produced from aluminum cast, can move conveniently on the pole during the process thanks to its rubber wheels. Centering arms, which can be used in poles with different diameters, move synchronized.
In standard; 3, 4, 5, 6, 8, 10, 12 and 15 projectors can be connected to the projector carrying ring for circular positioning. Upon customer request, new designs for various projector connection can be done.
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**Top System**

Top system is installed to the top of the pole with the help of bolt and flange. Its function is to change the direction and displacement of steel carrying ropes and electric cables, coming from inside the pole. It has bolt assembled interference covers. Also, lightning catching rod is assembled to this cover. Locking system's holes are attached to the edge of the top system with the help of bolts. Upon customer request, it may be cancelled.

Top system is produced from standard steel plate welded. It is galvanized for protection against corrosion. The pulley carrying side panel steel plates are produced twisted for more endurance.
Winch System

It gives vertical movement to ring steel plate. The main components of crane system are drum, gearbox, engine and remote control panel. The drum which steel rope is wrapped, is in the center of the pole and assembled with the bolts to the welded plate in the pole.

Basically, there are 2 kinds of winch system which are standard and portable. Standard winch system includes engine, gearbox and remote control panel which are in the pole.

In the fields where multi poles are used, a portable winch system is used. It includes 1 or 2 motor gearbox system. The operator assembles the winch system to the pole in order to perform raising - lowering movement. This system which provides advantage in terms of total cost is preferred in multi pole fields.
Area Lighting

Especially, the Highmast system which is preferred in high projector poles for field lighting provides important advantages in below stated issues:

- Total cost,
- Safety,
- Maintenance & repair speed.

Also, they are mainly used in:
- Parking areas,
- Airports and aprons,
- Open areas,
- Road junctions and squares.

In the places, which are not convenient for crane and lift bucket intervention, where projector poles are used, it provides an advantage to use high mast poles.
Highmast System Production

The high mast poles, which are mass produced by Enti are accepted in the market in terms of technical and system convenience, has a market share in 10 countries including Türkiye. The properties which take the lead Enti highmast poles, preferred in mass projects are:

- High reliability,
- Safety,
- Supreme protection to corrosion,
- Quick assembly,
- Proper performance,
- Easy adjustment.

For standard systems, thanks to mass production, a quick supply can be done from the inventory. If necessary, Enti can give assembly consultancy.

Galvanized Pole Production

Within Enti, production of galvanized poles are done besides high mast poles. In this field, according to the demand, with / without pole production is done.

We have design measures of standard poles in our catalogue. If demanded, a non-standard design can be done according to the preferred wind speed and number of projectors.

Besides pole design, foundation design can be done according to the specified foundation properties.
Highmast System with Camera

Usually, cameras can be connected to the high mast systems. By this, an advantage is provided for regular maintenance of the cameras. In latched systems, as the construction which carries cameras are stabled to the top of the pole, there would be no increase in camera tilt.

Highmast System with rail guide

Railed high mast systems are produced by Enti, which are especially used in one-way lighting systems. In these systems, a special rail which is produced with extrusion from a special aluminum composition is used. The rail systems are more stable in lifting-lowering movement has above stated locking system and brake system which steps in automatically during the process.
In high mast poles, electricity transmitting to the projectors can be done with pinned systems instead of electricity cables.

On demand, lightning systems can be used instead of lightning rod in high mast poles.
On demand, Enti can give maintenance and repair service for the high mast poles which are supplied by Enti or other companies.