

Stand Tall Above All



HIGH MAST & OCTAGONAL POLES

PRODUCT CATALOGUE

The Company

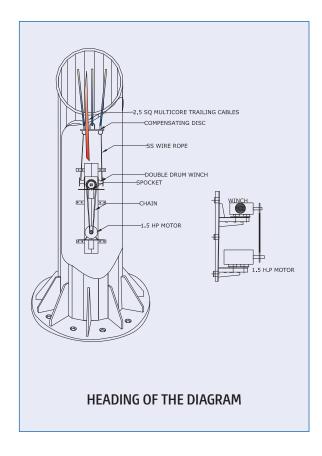
Skipper Limited, established in 1981, is the flagship company of S K Bansal Group. With a culture of excellence and orientation towards growth, the company is positioned to win the future. Skipper is proactive, progressive and has been steadily improving its competitive advantage.

Our product value chain begins with the procurement of hot rolled coils, conforming to IS: 10748, IS: 5986, BSEN: 10025 or equivalent grade of steel as per project's requirement which are then used as inputs for the manufacture of steel tubes and subsequently for Swaged Poles, or are straight away slit and cut to size for manufacturing High Mast or Octagonal Poles.

We also manufacture hot rolled products, scaffolding systems, PVC and SWR pipes and fittings, transmission and telecom towers. All our products are manufactured according to IS specifications using the latest technology.

Skipper designs and manufactures Swaged Poles, High Mast Poles and Octagonal Poles for highway or street lighting and traffic signals.





High Mast Poles

High Mast Lighting Systems are required for illuminating large areas with a single pole. Skipper makes High Mast Poles custom designed according to customer specifications and requirements.

Our plant is equipped with modern CNC machines which ensure strict adherence to specifications. Skipper manufactures High Mast Poles with two / three suspension system for lantern carriage using the following:

- 14 m long Bending Press with laser light for perfect bending
- SAW Welding Line
- High Speed Plasma cutting machine

Skipper offers superior-quality galvanizing for its High Mast Poles using a captive 14 m long Galvanizing Plant with a 7 tank process to ensure timely delivery.

High Mast Poles are used at parking yards, railway yards, stations, urban areas, airports, parks and others.





Signage Mast Poles

Signage Mast Systems are required for identification of utility premises. This can be with or without lights or retro reflective sheets. Skipper manufactures Signage Mast Poles that range from 16 m to 40 m long.

Skipper Plant is equipped with the latest and modern CNC machines which ensure perfect product dimensions that match customer specifications.

Signage Mast Poles are used at the following places:

- Petrol pumps
- Petrol refineries
- Gas filling stations for automobiles
- Power substations

To ensure metal protection for its Signage Mast Poles Skipper provides galvanizing using a captive 14 m long Galvanizing Plant with a 7 tank process.

Sports Mast Poles

Sports Lighting Systems are required for illuminating stadiums or playgrounds with tall lighting poles which rest on a platform and have a ladder. Skipper manufactures Sports Mast Poles according to customer specifications and requirements. Our plant is equipped with modern CNC machines which ensure perfect product dimensions that match customer specifications.

Sports Mast Poles find application at the following places:

- Stadiums
- Golf courses
- Sports Centres and Clubs
- University and School playgrounds

Using a captive 14 m long Galvanizing Plant with a 7 tank process Skipper ensures superior quality galvanizing for its Sports Mast Poles.



High Mast and Accessories

Specifications

Nominal height of mast (mtrs.)	12 MTR	12.5 MTR	16 MTR	16 MTR	20 MTR	25 MTR	30 MTR		
1. Highmast Structure									
Material of construction	IS 5986 Fe 510 or equivalent								
Nominal Thickness	Single Section-3 MM	Base Section-4mm Top Section-3mm	Base Section-4mm Top Section-3mm	Base Section-4mm Top Section-3mm	Base Section - 4mm Top Section - 3mm	Base Section - 4mm Middle Section- 4mm Top Section - 4mm	Base Section - 5mm Middle Section - 4mm Top Section - 4mm		
Cross section of mast	12 sided polygon	12 sided polygon	20 sided polygon						
Length of individual sections (approx)	Single Section 12 Mtr	Base Section - 6.5 mtrs Top Section- 6.5 mtrs	Base Section - 8.375 mtrs Top Section- 8.375 mtrs	Base Section - 8.375 mtrs Top Section - 8.375 mtrs	Base Section-10.375 mtrs Top Section-10.375 mtrs	Base Section- 8.75mtrs Middle Section-8.75 mtrs Top Section-8.75 mtrs.	Base Section-10.50 mtrs Middle Section-10.50 mtrs Top Section-10.50mtrs.		
Note: No circumferential	weld is allowed and only on	e longitudinal weld is allow	ed.						
Base and top diameter (Approx.)	Base Dia-340mm Top Dia-100 mm	Base Dia-350mm Top Dia-150 mm	Base Dia-350mm Top Dia-150 mm	Base Dia-460mm Top Dia-150 mm	Base Dia-460mm Top Dia-150mm	Base Dia-485mm Top Dia-150mm	Base Dia-600 mm Top Dia150 mm		
Type of joints	Telescopic stressfit								
Nominal length of overlap	Nil	Top & Bottom - 650 mm	Top & Bottom - 650 mm	Top & Bottom - 650 mm	Top & Bottom - 700 mm	Top & middle - 700 mm. Middle & Bottom 800 mm	Top & middle - 700 mm. Middle & Bottom 850 mm		
Size of base flange diameter and thickness (approx)	Diameter- 540 mm Thickness - 25 mm	Diameter- 560 mm Thickness - 25 mm	Diameter- 560 mm Thickness - 25 mm	Diameter - 670 mm Thickness - 25 mm	Diameter - 670 mm Thickness - 30 mm	Diameter - 730 mm Thickness - 30 mm	Diameter -840 mm Thickness - 32 mm		
Metal protection treatment of mast sections.	Hot dip galvanized.	Hot dip galvanized.	Hot dip galvanized.	Hot dip galvanized.	Hot dip galvanized as per	Hot dip galvanized as per	Hot dip galvanized as per		
Type of door construction and locking arrangement	Close fitting door with Allen key locking and suitable reinforcement to avoid buckling.	Close fitting door with Allen key locking and suitable reinforcement to avoid buckling.	Close fitting door with Allen key locking and suitable reinforcement to avoid buckling.	Close fitting door with Allen key locking and suitable reinforcement to avoid buckling.	Close fitting door with Allen key locking and suitable reinforcement to avoid buckling.	Close fitting door with Allen key locking and suitable reinforcement to avoid buckling.	Close fitting door with Allen key locking and suitable reinforcement to avoid buckling.		
Size of anchor plate and its thickness	530mm x 530mm Thickness - 6 mm	550mm x 550mm Thickness - 6 mm	550mm x 550mm Thickness - 6 mm	750mm x 750mm Thickness - 6 mm	750mm x 750mm Thickness - 6 mm	750mm x 750mm Thickness - 6 mm	840mm x 840mm Thickness - 6 mm		
Details of template	P.C.D460 mm	P.C.D460 mm	P.C.D460 mm	P.C.D650 mm	P.C.D650 mm	P.C.D660 mm	P.C.D740 mm		
No.of foundation bolts	6 Nos.of M 25	8 Nos.of M 25	8 Nos.of M 30	8 Nos.of M 30	12 Nos.of M 30	16 Nos.of M 30	16 Nos.of M 30		
2. Dynamic Loading									
Max.design wind speed	180 km/hr.								
Gust time considered	3 sec								
Height above ground level at which wind velocity is measured.	10 mtrs.								
Factor of safety for wind load	1.25	1.25	1.25	1.25	1.25	1.25	1.25		
Factor of safety for other loads	1.15	1.15	1.15	1.15	1.15	1.15	1.15		

High Mast and Accessories

Specifications

Nominal height of mast (mtrs.)	12 MTR	12.5 MTR	16 MTR	16 MTR	20 MTR	25 MTR	30 MTR
3. Lantern Carriage							
Material of construction	M.S. (Hot dip galvanised).	M.S. (Hot dip galvanise					
Diameter of carriage ring (mm) including arms.	2400 mm (approx)						
Number of sections	2 Sections.	3 Sections.	3 Sections.				
Load carrying capacity	Approx 500 kgs.	Approx 500 kgs.	Approx 500 kgs.	Approx 500 kgs.	Approx 750 kgs.	Approx 750 kgs.	Approx 750 kgs.
Total weight of assembly with fittings.	Approx 350 kgs.	Approx 350 kgs.	Approx 350 kgs.	Approx 350 kgs.	Approx 500 kgs.	Approx 500 kgs.	Approx 500 kgs.
Number of luminaires	4 to 6 nos	6 to 9 Nos	6 to 9 Nos	6 to 9 Nos	9 to 12 Nos	9 To 12 Nos	9 To 12 Nos
4. Winch							ı
TYPE	Single Drum	Double Drum					
Capacity	550 kgs	750 kgs	750 kgs	750 kgs	1500 kgs	1500 kgs	1500 kgs
Safe Working Load	375 kgs.	375 kgs.	375 kgs.	375 kgs.	750 kgs.	750 kgs.	750 kgs.
Method of operation	Manual / Electrical						
Gear ratio	.53:1	.53:1	.53:1	.53:1	.53:1	.53:1	.53:1
Gear material	Phosphor Bronze						
Tested load per drum	750 kgs.						
5. Stainless Steel Wire	e Ropes						
Wire Rope	Stainless Steel.AISI 316	Stainless Steel.AISI 316	Stainless Steel.AISI 316	Stainless Steel.AISI 316	Stainless Steel.	Stainless Steel.	Stainless Steel.
Number of ropes	1 for winch 3 for lantern carriage	2 for winch 3 for lantern carriage					
Diameter (mm)	5 mm	6 mm					
Factor of safety	5 or More						
Construction	7/19 with central core SS.						
6. IntegralPower Tool			ı	ı			
Input supply	415V 50 HZ						
Wattage/HP	1.5 HP	2 HP	2 HP	2 HP	2 HP	2 HP	2 HP
Reversible	Yes						
Torque Limiter							
Lifting Capacity	500 kgs.	750 kgs.					
Туре	Mechanical						

Octagonal and Conical Poles

Octagonal and Conical Poles are required for outdoor lighting of streets and highways. Skipper manufactures single piece Octagonal Poles that range from 3 m to 12 m using High Tensile Steel. Octagonal Poles have the following features:

- Inbuilt junction box
- Rust proof (Hot Dip Galvanized)
- Good aesthetic looks
- Easy replacement

Our plant is equipped with modern CNC machines which ensure quality. Skipper manufactures Octagonal Poles using the following:

- 14 m long Bending Press with laser light for perfect bending
- SAW Welding Line
- High Speed Plasma cutting machine

Skipper offers superior quality galvanizing for its Octagonal Poles using a captive 14 m long Galvanizing Plant with a 7 tank process.





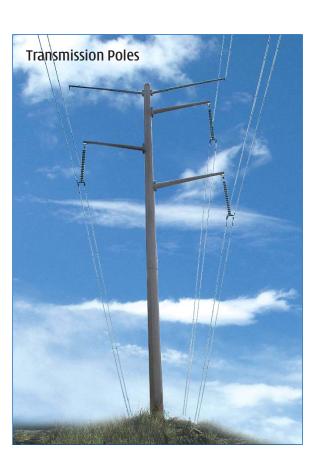


Octagonal Poles

Specifications

Pole Height (Mtrs.)	5 Mtrs	7 Mtrs	9 Mtrs	9 Mtrs	10 Mtrs	11 Mtrs	12 Mtrs
Cat. No.	HM 1105 P	HM 1107 P	HM 1109 PA	HM 1109 PB	HM 1110 P	HM 1111 P	HM 1112 P
Material of Construction	BSEN 10025						
Metal Protection Treatment	H.D. Galvanised						
Avg Thickness of Galvanisation	65 Microns						
Thickness of Sheet	3 mm						
Thickness of Base Plate	16 mm	16 mm	20 mm	20 mm	20 mm	20 mm	25 mm
Bottom Diameter	135 mm	150 mm	150 mm	200 mm	200 mm	200 mm	240 mm
Top Diameter	65 mm	75 mm	75 mm	100 mm	100 mm	100 mm	110 mm
Number of Foundation Bolts	4	4	4	4	4	4	4
PCD of Foundation Bolt	210 x 210 mm	240 x 240 mm	240 x 240 mm	310 x 310 mm	310 x 310 mm	310 x 310 mm	350 x 350 mm
Bolt Diameter	16 mm	16 mm	20 mm	20 mm	20 mm	25 mm	25 mm

Above products are available with single & double arm luminaire mounting brackets.





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Skipper Products

Angles: Rolling MS & HT Angle Section | Hot-rolled Skelp: To manufacture tubes, pipes, cold-rolled strips | Hot Rolled Sections: Angles, Channels, Joists, H-Beams | ERW Steel Pipes: Galvanized & Black Pipes, Hollow Sections | PVC Pipes & Fittings | SWR Pipes & Fittings | Poles: Swaged, High Mast & Octagonal Poles | Scaffolding Systems: Scaffold Tubes, Props & Jacks, Cuplock Systems | Towers: Transmission & Telecom Towers

