

GLOBAL HIGH MAST AND STEEL POLE FABRICATORS
SOUTH AFRICA

Built for Strength. Engineered for Endurance



CATALOGUE '26



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As you explore Global High Mast and Steel Pole Fabricators, you'll discover a world of endless possibilities. Whether you're embarking on a large-scale project or seeking a customised steel solution, we are here to support you every step of the way.

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10+

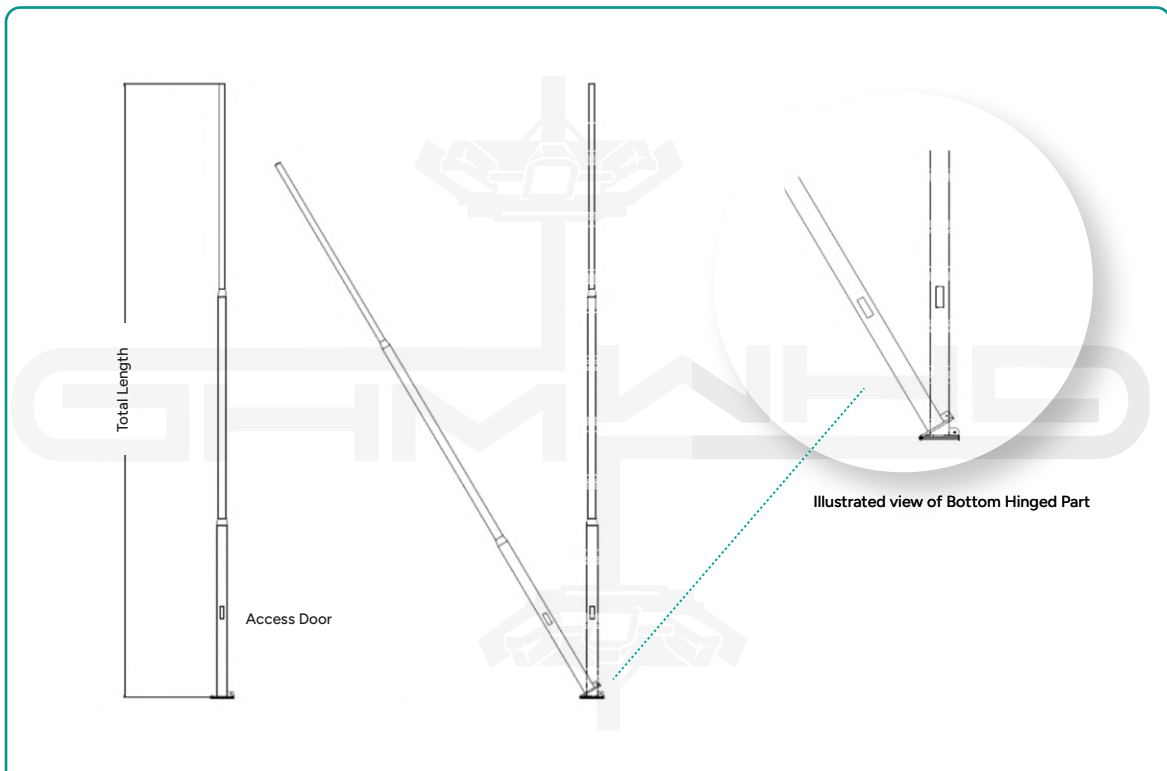
Years of
Engineering
Excellence

1000+

Projects
Delivered

01 | BOTTOM-HINGE POLES

BOTTOM-HINGE POLE DRAWING



BOTTOM-HINGE STEEL POLES
Options available: 2m to 15m



Proudly South African, locally built, globally trusted

02 | FLOOD LIGHT BRACKETS

FLOOD LIGHT BRACKETS MODEL DRAWINGS

4 WAY Flood Light Bracket	3 WAY Flood Light Bracket	2 WAY Flood Light Bracket	SINGLE Flood Light Bracket



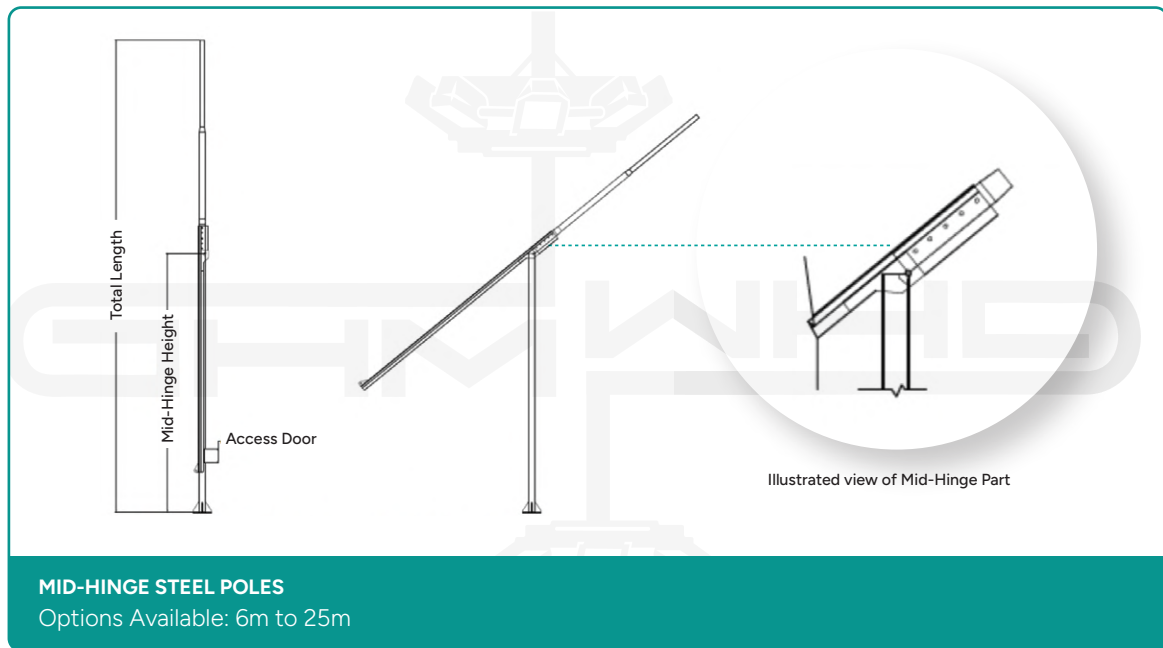
FLOOD LIGHT BRACKETS DRAWINGS

SINGLE	DOUBLE (180°)	3 WAY (120°)	3 WAY (90/180°)	4 WAY (180°)

T-ARM (180° & 360°) (hosting 1-4 floodlights)	H-ARM (180° & 360°) (hosting 4-8 floodlights)

03 | MID-HINGE POLES & MASTS

MID HINGE POLE DRAWINGS



MID-HINGE MAST DESIGN & SPECIFICATIONS

SANS 0225 The mast will be designed in accordance with SANS 0225

SANS 657 All poles are manufactured from Grade S 355 steel and is manufactured in accordance with SANS 657/1&3

ISO 9001 CERTIFIED The mast will be manufactured to ISO 9001: 2008

SABS SANS 121 Hot Dip Galvanised to SANS 121 / SABS 1461

APPROVED All designs, (signed by a registered Professional Engineer) are available on request

THE PURPOSE

Mid-Hinged Poles, also known as Collapsible pole, are designed for ease of maintenance, especially under restricted conditions.

The hinged mechanism enables the top half of the pole to swing down for maintenance at the ground level without needing the servicing personnel to climb up.

APPLICATIONS

- Area Lighting
- Township Lighting
- Solar Area Lighting
- Highways & Interchanges
- Prison Yards
- Railway Yards
- Ports and Airports



South Africa's leaders in high mast and steel pole fabrication

THE STRUCTURE

- The mast consists of a fixed lower section with a base plate secured by holding down bolts to the mast foundation
- The top section is fitted to the fixed lower portion by slip fitted and steel pins passing through both sections and secured by nuts and bolts
- Headframe is slip fitted on the top section and secured
- The hinge / counter-balance sleeve is secured with a round steel pin that passes through the side plates of the fixed lower section
- The hinge / counter-balance sleeve bottom section shall be secured to the fixed lower section by means of a bolt using a designed spanner to loosen the bolt
- The hinge / counter-balance sleeve bottom section is also secured to the fixed lower section with a removable safety chain to prevent accidental or unplanned opening of the bottom sleeve section
- Access [Rectangular shape] door is placed and accessible at the bottom section
- The door is secured with a tamper proof screw
- Electrical distribution board is mounted inside the access door
- The trailing cable is plug into the distribution board and is connected to the IP65 splitter box attached to the headframe
- Flexible cables are used for the connection between the floodlights and the IP65 splitter box
- The photocell is mounted at the lower section above the access door to control the on/off switch of the floodlights





OPTIONS & ACCESSORIES



6m to 25m height



Apron customised for weight balancing



Customise pole size for various application



Headframe to suit all types of fitting



Brackets for additional attachment



Portable hand-winch for maintenance



Nylon rope for maintenance



Lighting spike on top of the headframe



Tamper proof key is provided for access



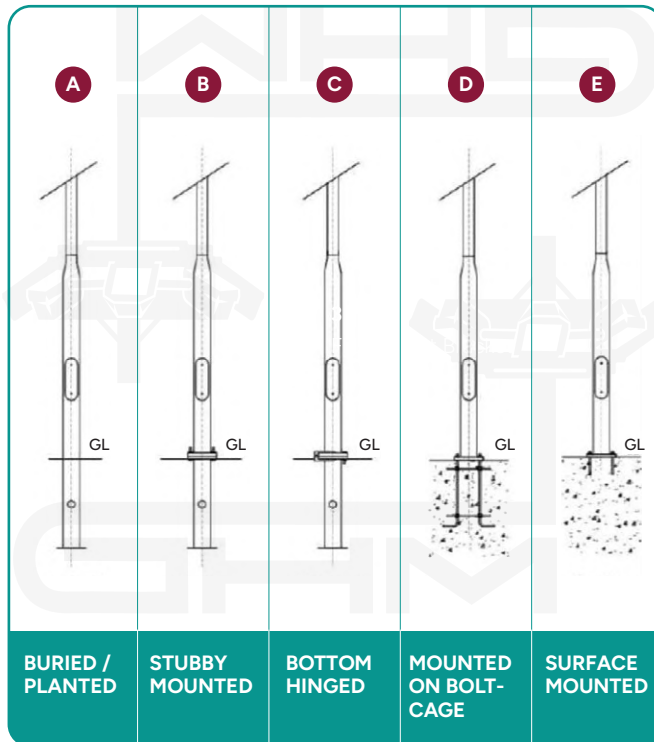
Test leads available on request for testing purposes



Installation ordered within South African borders

04 | MOUNTING + STEPPED POLES

MOUNTING OPTIONS DRAWING + STEPPED POLE OPTIONS DRAWINGS



STRAIGHT - 76MM

TL	MH	BD	ØBot	ØMid	ØTop	Base Plate	Gland Plate
2.0	1.5	0.5	76	-	76	FB	No
2.5	2.0	0.5	76	-	76	FB	No
3.0	2.5	0.5	76	-	76	FB	No
3.5	3.0	0.5	76	-	76	FB	No
4.0	3.5	0.5	76	-	76	FB	No
4.5	4.0	0.5	76	-	76	FB	No
5.0	4.5	0.5	76	-	76	FB	No
6.0	5.0	1.0	76	-	76	FB	No

STEPPED - 1 REDUCTION

TL	MH	BD	ØBot	ØMid	ØTop	Base Plate	Gland Plate
3.0	2.5	0.5	114	-	76	FB	Yes
3.5	3.0	0.5	114	-	76	FB	Yes
4.0	3.5	0.5	114	-	76	FB	Yes
4.5	4.0	0.5	114	-	76	FB	Yes
5.0	4.5	0.5	114	-	76	FB	Yes
6.0	5.0	1.0	114	-	76	FB	Yes
7.2	6.0	1.2	114	-	76	BP	Yes
8.2	7.0	1.2	127	-	76	BP	Yes

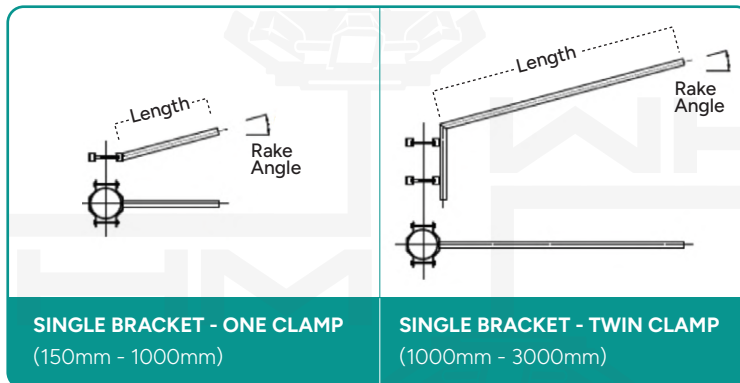
STEPPED - 2 REDUCTIONS

TL	MH	BD	ØBot	ØMid	ØTop	Base Plate	Gland Plate
8.2	7.0	1.2	127	89/114	76	BP	Yes
9.3	8.0	1.3	127	89/114	76	BP	Yes
10.5	9.0	1.5	127	114	76	BP	Yes
11.5	10.0	1.5	139	114	76	BP	Yes
13.7	12.0	1.7	152	114	76	BP	Yes

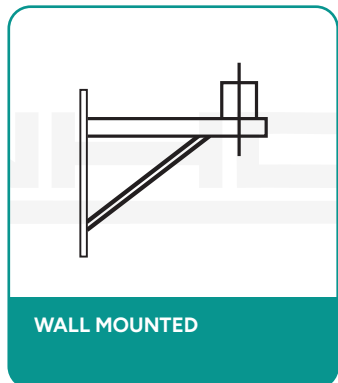
KEYS: TL- Total Length of Pole; MH - Mounting Height of Pole; BD - Buried Depth; FB - Flat bar welded to bottom of pole; BP - Loose base plate c/w hookbolts & nuts. Above configurations are subject to application of pole

05 | POLE CLAMP & POST TOP BRACKETS

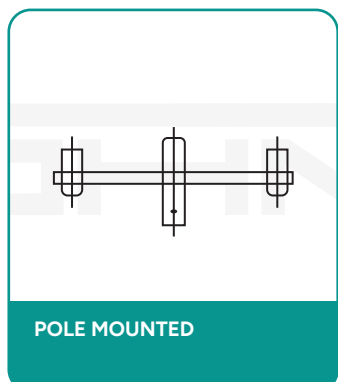
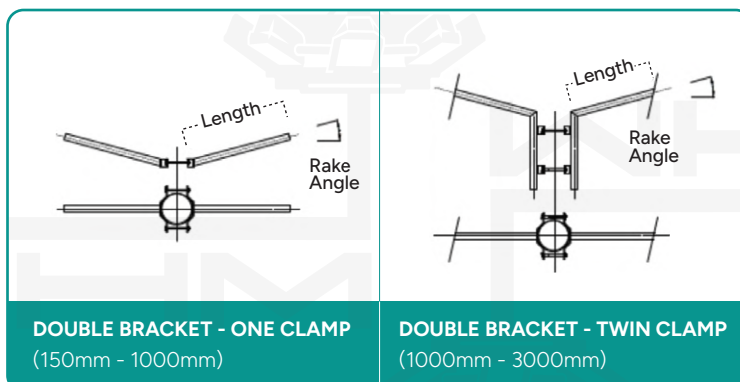
SINGLE POLE CLAMP BRACKETS DRAWINGS



POST TOP BRACKETS DRAWINGS

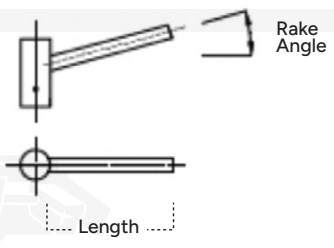
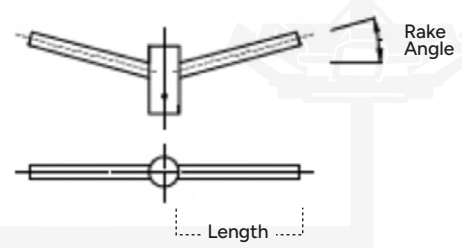
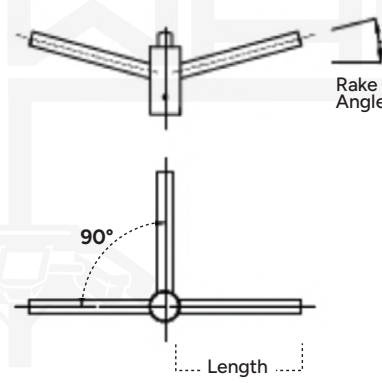
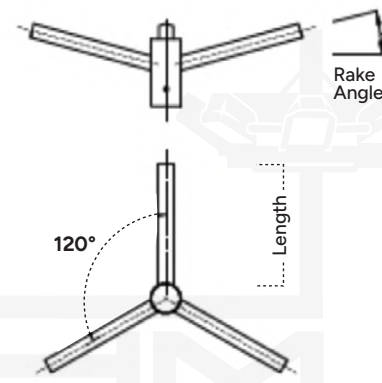
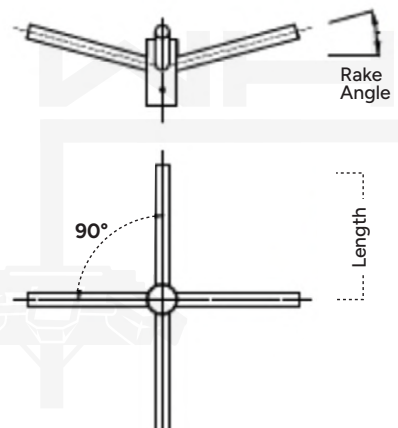


DOUBLE POLE CLAMP BRACKETS DRAWINGS



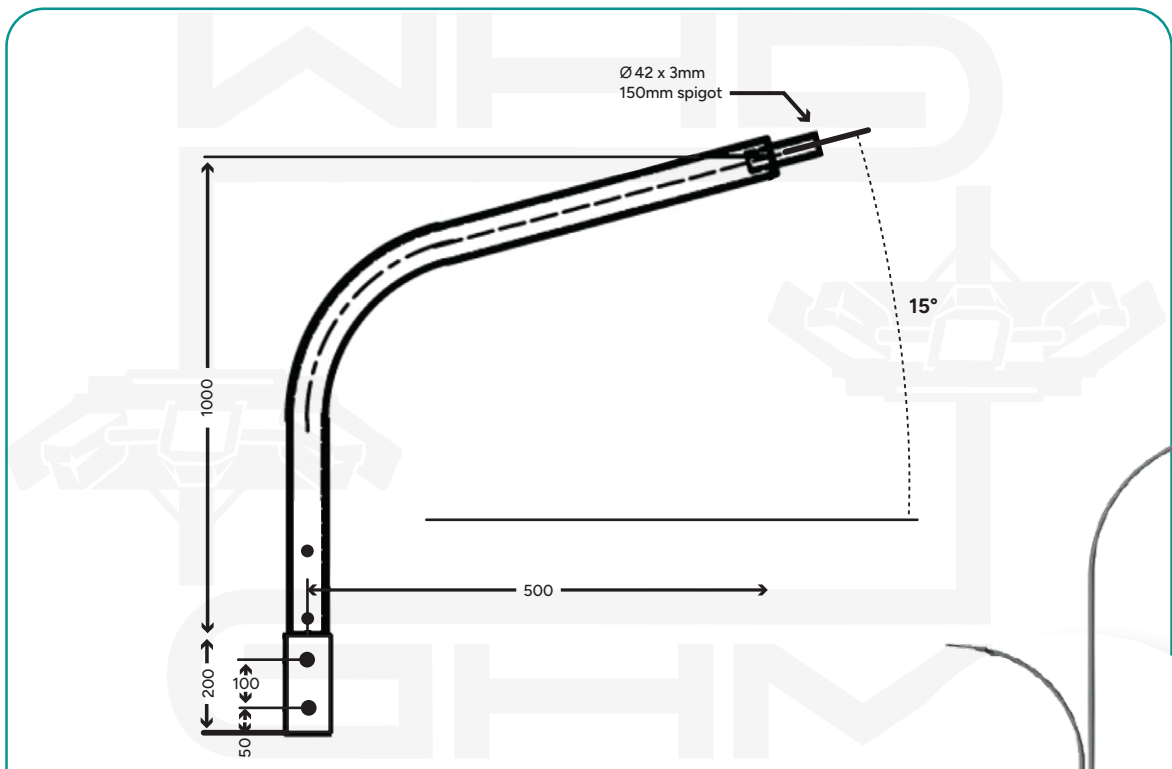
06 | SIDE ENTRY SPIGOTS

SIDE ENTRY SPIGOTS DRAWINGS

	
SINGLE (150mm - 2000mm length)	DOUBLE (150mm - 2000mm length)
	
3 WAY (90°) (150mm - 2000mm length)	3 WAY (120°) (150mm - 2000mm length)
	
4 WAY (350mm - 500mm length)	

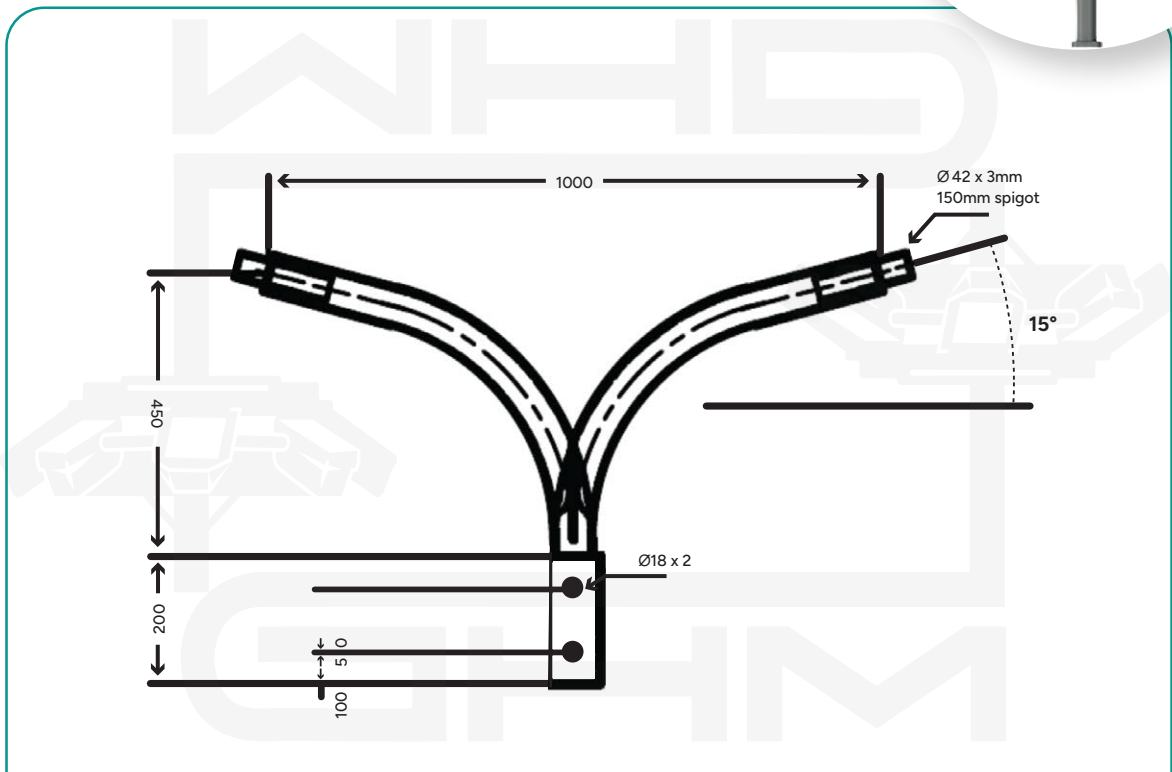
07 | SINGLE & DOUBLE CURVED OUTREACH

SINGLE CURVED OUTREACH DRAWING



SINGLE OUTREACH ARM

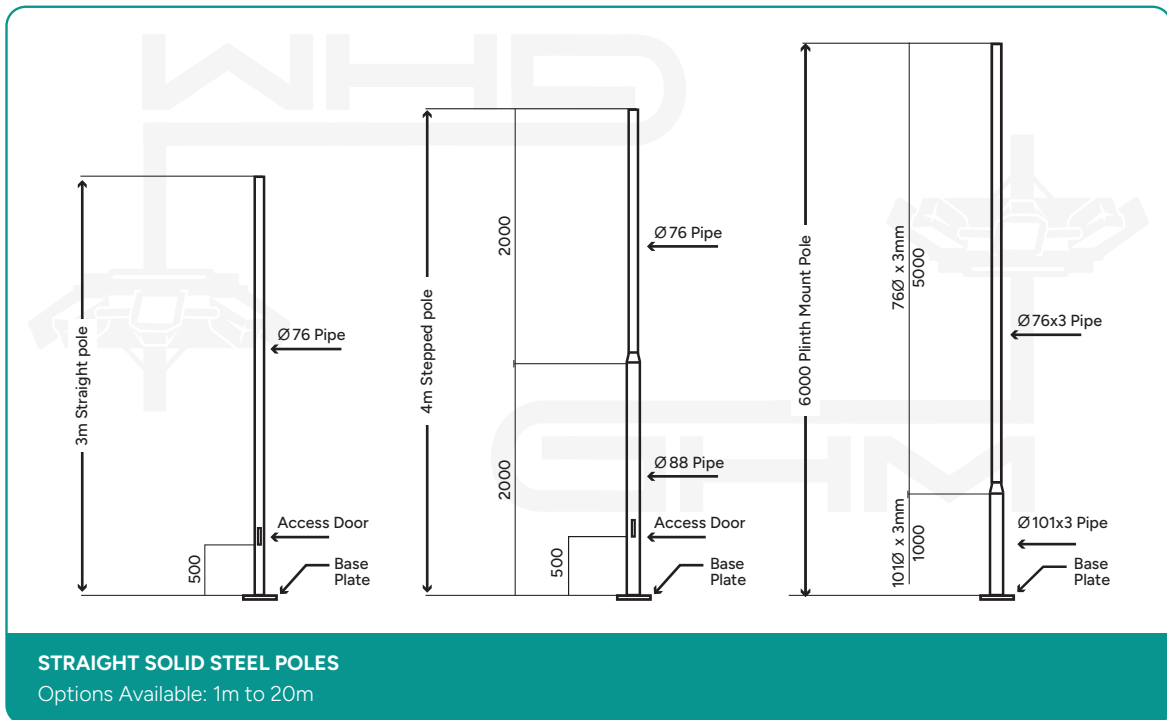
DOUBLE CURVED OUTREACH DRAWING



DOUBLE OUTREACH ARM

08 | STRAIGHT SOLID STEEL POLES

STRAIGHT SOLID STEEL POLE OPTIONS DRAWINGS



STEEL POLES SPECIFICATIONS

The steel poles will be designed in accordance with SANS 0225	The steel poles will be manufactured to ISO 9001: 2008	Hot Dip Galvanised to SANS 121 / SABS 1461
All poles are manufactured from Grade S 355 steel and is manufactured in accordance with SANS 657/1&3	All designs, (signed by a registered Professional Engineer) are available on request	



THE PURPOSE

Steel Poles are mainly use in certain applications, where lighting is required.

APPLICATIONS

- Roads (Main and Urban Roads, Residential Streets)
- Sidewalks poles
- Postop lighting poles
- Area lighting poles
- Sports Fields poles
- Council specification steel poles
- Parking areas

SECURITY / PERIMETER

- Service station poles
- Solar poles
- Robot / Camera / Flag poles
- Lighting arrestor / conductor poles





OPTIONS & ACCESSORIES



2m to 20m height



Flood light brackets



Decorative brackets



Spigots / Side entries



Straight or curved
outreach arms



Luminaires / Solar lights



Planted or Surface
mounted options



Stubby or Flange bolted
options in concrete
foundation



Base plate option on
concrete slab



Bottom-hinge option

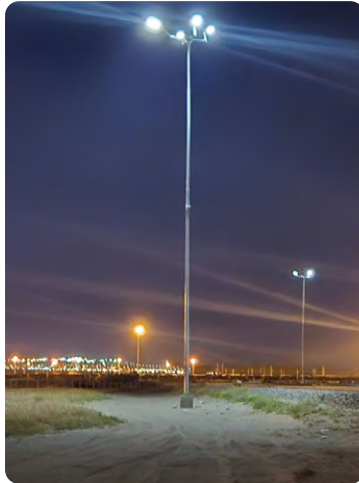


Reduced tapered poles



Swaged poles

09 | SOLAR & OCTAGONAL MAST



SABS COMPLIANCE LETTER



All designs in accordance with SANS 0225



Poles and Masts will be manufactured in accordance with SANS10214-1987-1



Hot Dip Galvanised to SANS 121 / SABS 1461



All poles and masts are manufactured from Grade S 355 steel and is manufactured in accordance with SANS 657/1&3



All designs, (signed by a registered Professional Engineer) are available on request



All products are 100% locally manufactured



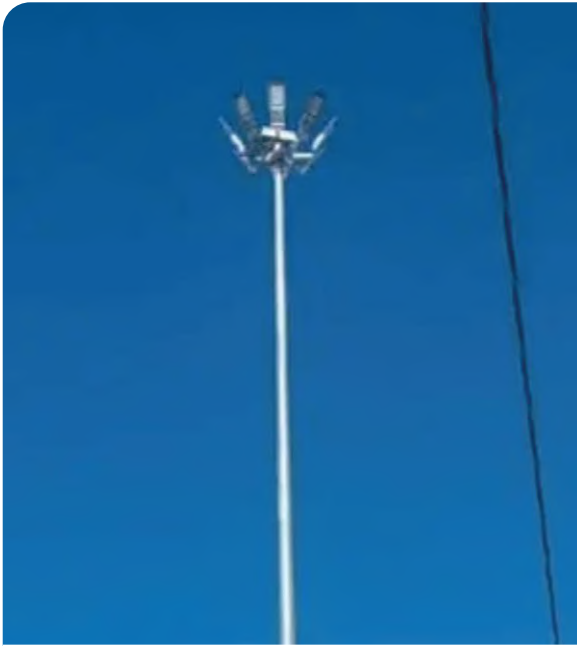
ISO 9001: 2015 certified



THE STRUCTURE

- The mast structure is cut and bent from flat steel sheets
- It is bent into sections that fits into each other to make up the total length
- The mast consists of a fixed lower section with a base plate secured by holding down bolts to the mast foundation
- Access [Rectangular shape] door is placed and accessible at the bottom section
- The door hinges and is secured with a tamper proof nut
- The raising and lowering is accessible through the access door
- The headframe is below the canopy and is attached with stainless steel cables, which is secured with stainless steel thimbles fitted to the wire rope ends with copper ferrules crimped with a hydraulic crimping tool
- Above the headframe is the canopy which is fixed accompanied by stainless steel wheels to accommodate the stainless-steel cables to move through to lower and raise the headframe
- The canopy shall be protected from the ingress of water by means of a steel plate fitted over the top of the head assembly
- Inside the access door is a safety pin that can be removed when the single drum winch is connected and in position
- Back-up safety chain is also placed inside the access door and must be un-clipped before the lowering of the headframe commence by means of the single drum winch





OPTIONS & ACCESSORIES



Customise mast size for various application



Headframe to suit all types of solar light fittings.



Lighting spike on top of the headframe



Maintenance Options:

- Single Drum Winch
- Electrical Power Tool
- Hydraulic Power Tool



Tamper proof key is provided for access

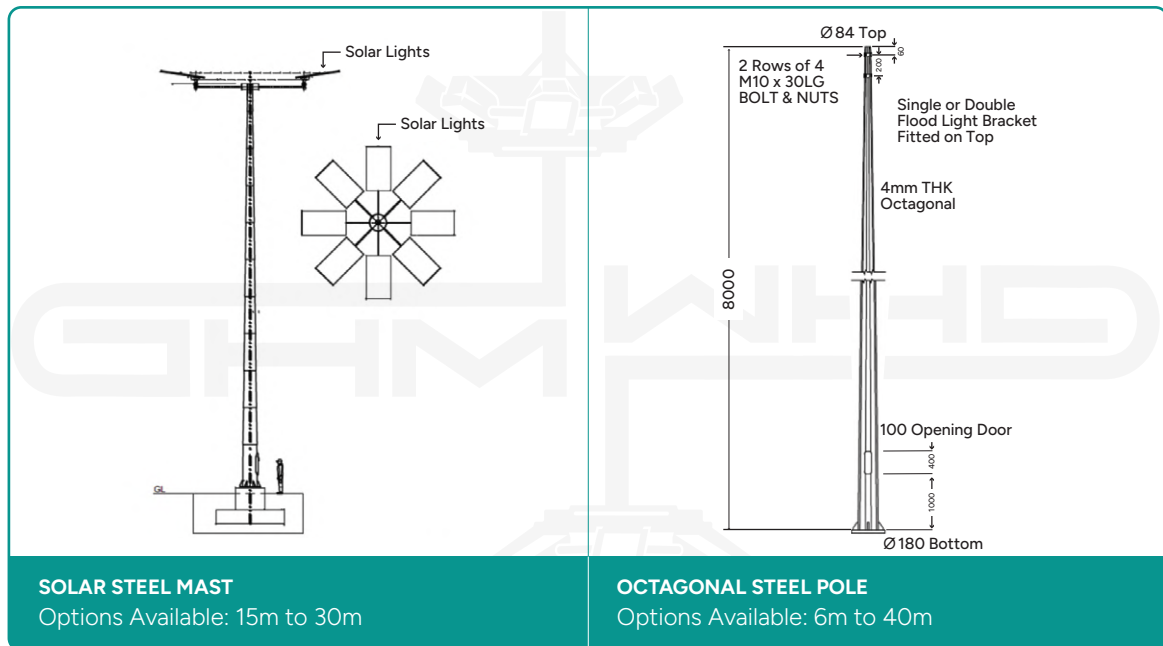


Installation ordered within South African borders



10 | CAT LADDER STADIUM & RAILWAY MAST

CAT LADDER STADIUM & RAILWAY MAST DRAWINGS



STADIUM / CAT LADDER MAST SPECIFICATIONS

SANS 0225 The mast will be designed in accordance with SANS 0225

SANS 657 All poles are manufactured from Grade S 355 steel and is manufactured in accordance with SANS 657/1&3

ISO 9001 CERTIFIED

The mast will be manufactured to ISO 9001: 2008

SABS SANS 121 Hot Dip Galvanised to SANS 121 / SABS 1461

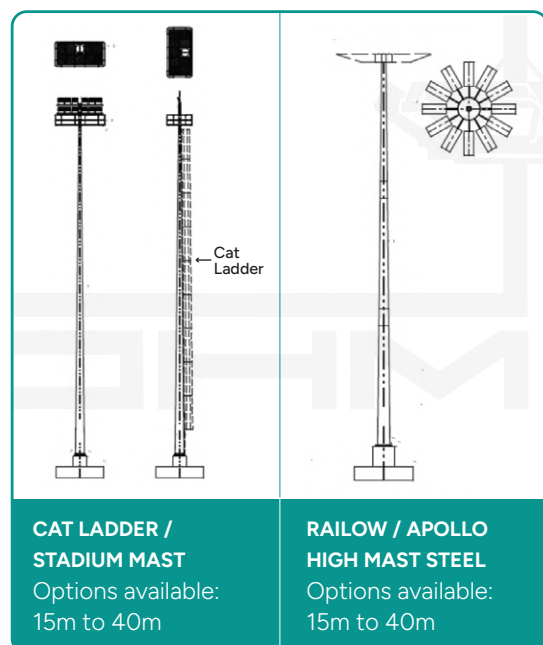
All designs, (signed by a registered Professional Engineer) are available on request

THE PURPOSE

Stadium / Cat Ladder Mast are available from 15m to 40m height. Purpose is to gain access by using an external ladder to do maintenance.

APPLICATIONS

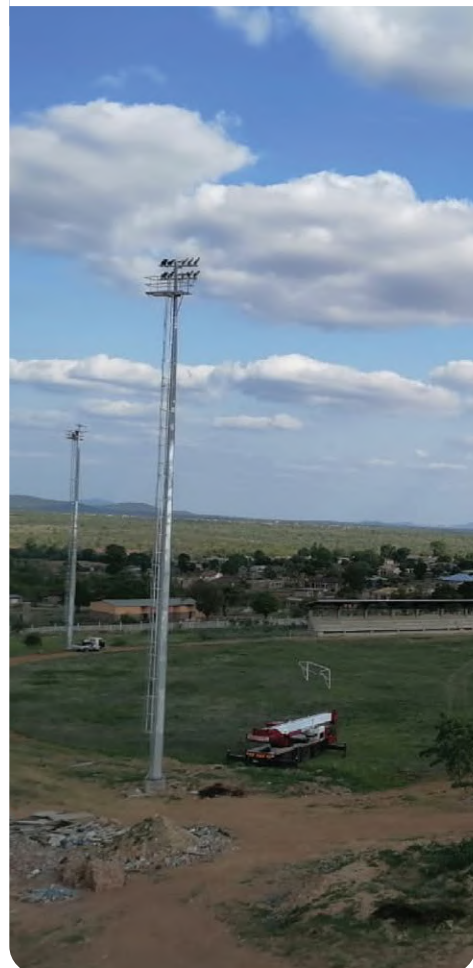
- Various Sports Field Applications
- Prison Yards
- Railway Yards
- Ports
- Airports
- Industrial
- Area Lighting

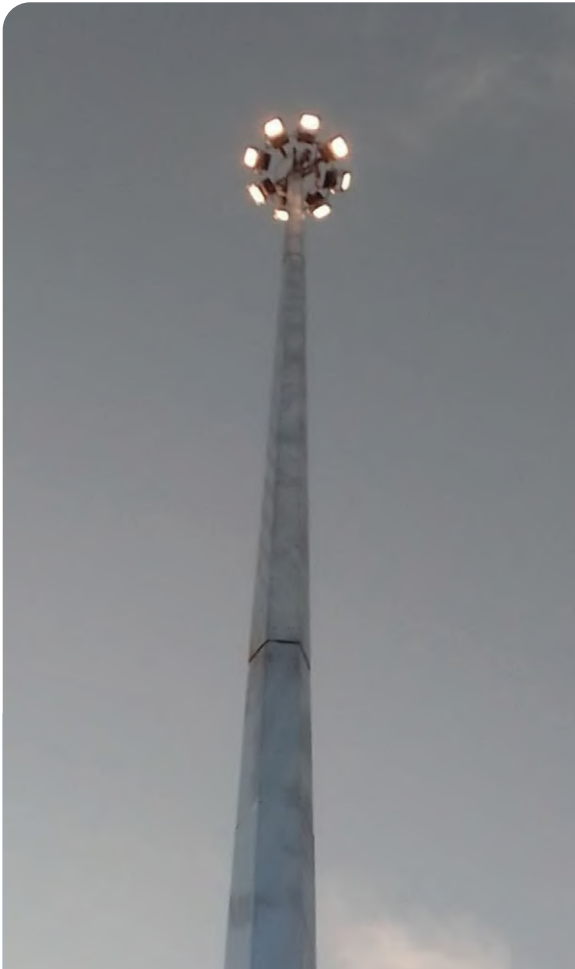


Discover endless possibilities with custom steel solutions, tailored to your needs.

THE STRUCTURE

- The mast structure is cut and bent from flat steel sheets
- It is bent into sections that fits into each other to make up the total length
- The mast consists of a fixed lower section with a base plate secured by holding down bolts to the mast foundation
- Access [Rectangular shape] door is placed and accessible at the bottom section
- The door hinges and is secured with a tamper proof nut
- By using the access Ladder, you gain access to the platform. Platform is secured with railings all around for safety
- Hinge door is opened to gain access on the platform. The platform provides the client the ability to do maintenance
- The amount of flood lights specified are mounted on top to the headframe
- Electrical distribution board is mounted inside the access door
- The trailing cable is plug into the distribution board and is connected to the IP65 splitter box attached to the headframe
- Flexible cables are used for the connection between the floodlights and the IP65 splitter box





OPTIONS & ACCESSORIES



Customise mast size for various application



Headframe to suit all types of fitting



Lighting spike on top of the headframe



Maintenance Options:
• External access ladder



Tamper proof key is provided for access



Installation ordered within South African borders



Aiming of lights – Options



11 | HIGH MAST REFURBISHMENT

METHOD STATEMENT

- Crane on-site in position
- Secure sling around the mast
- Loosen all nuts on the base plate
- Lower and place mast on trestles
- Disconnect the incoming power supply and remove old electrical material inside the mast
- Remove old flood lights
- Remove the old slings inside the mast
- Remove old stainless-steel wheels on canopy
- Supply and install new stainless-steel wheels on canopy
- Supply, install and connect new slings (6-8mm)
- Supply, install and connect new electrical material inside the mast
- Supply, install and connect new flood lights
- Secure the mast & make sure everything is connected & ready for rigging purposes
- Park and stabilize the crane in position
- Place slings around the mast
- Lift mast up with a crane and place it into position on top of the HD Bolts
- Use nuts to tighten the base plate to the HD Bolts
- Level the mast
- Remove the sling from the mast
- Test the high mast lights, by using a generator
- Test the maintenance operation of the mast by using a winch and power tool
- Grouting at the base & cleaning the area

TOOLS

		
Crane	Generator	Nuts & Washers
		
Trestles	Toolbox	Leveller
		
Full PPE	Sling	Steel Rope
		
Bakkie	Chain block	Grouting



12 | STAINLESS STEEL POLES



MATERIAL SPECIFICATIONS

The primary specification for stainless steel poles relates to the material grade, which dictates corrosion resistance and strength:

Grade 304 Stainless Steel:

This is a common, general-purpose grade used in many applications due to its good balance of corrosion resistance and cost.

Grade 316 Stainless Steel:

This grade is specifically recommended for highly corrosive environments, such as coastal areas etc.



STANDARDS

Stainless steel poles must conform to relevant national and international standards to ensure safety and quality:



Structural Design
SANS 10225: Design of steel poles



Material and Fabrication
AWS D1.1: Structural Welding Code.



ISO 9001
Quality management systems in manufacturing.



Finish
If galvanized, poles should meet ISO 1461 standards



Ultimately, the precise specification depends on the specific project requirements and the environmental conditions of the installation site.

DESIGN SPECIFICATIONS

Physical specifications depend heavily on the pole's function (e.g., lighting, shade sail, telecommunication):

Dimensions:

- **Height**
Varies widely, from under 3 meters for shade sails to over 25 meters for high masts
- **Diameter/Profile**
Can be round, square, or octagonal, with diameters often ranging from 70 mm to over 100 mm depending on load requirements
- **Wall Thickness**
Specified to provide necessary strength and durability, e.g., 2 mm (1/8") for lighter-duty poles
- **Load Capacity**
Poles are designed to withstand specific vertical and wind loads, often with defined deflection limits
- **Mounting**
Options include planted (in-ground) or surface-mounted with a base plate and anchor bolts.
- **Features**
May include handholes for access, vibration dampers, specific arm/bracket designs, and internal wiring provisions



OUR PRODUCTS INCLUDE

Robot Steel Poles

Postop Light Steel Poles

Sports Field Steel Poles

Streetlight Steel Poles

Turbine Steel Poles

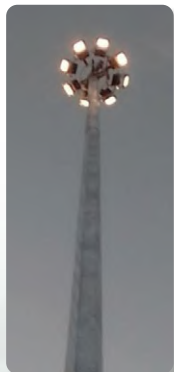
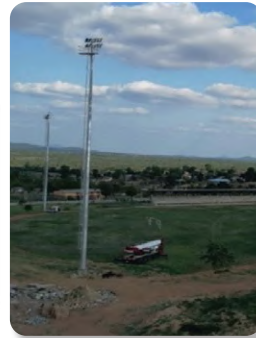
Bottom Hinge Steel Poles

Apollo / Solar / Railow masts

Mid-Hinged Poles

Steel cage fabrications

Concrete Foundations



Alternative drawings can be requested.

Please feel free to contact us regarding any alternative drawings.

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