



HANYCO
HAMOUN NYZEH CO.

DUCTILE IRON LIGHTING POLE



Beautiful, Durable, Cost-Effective



Hamoun Nyzeh (HANYCO) was established in 2006 in KASHAN City-IRAN. HANYCO is manufacturer of ductile iron pipes and fittings for water and wastewater distribution and transportation lines with about 100,000 tons/year annual capacity.

After more than 10 years of the successful production of waterline pipes and fittings, HANYCO proudly announced that this company is the first producer of ductile iron utility and lighting poles in the Middle East according to the latest International and national standards.

HANYCO uses more than 14 years of experience and the latest technologies in the field of ductile iron pipes and fittings production to design and produce ductile iron poles.



Ductile Iron Lighting Pole

Ductile Iron Lighting poles from 1 to 12m height are the newest product of HANYCO. Besides the beautiful appearance and wide range of colors, these poles are durable and suitable for harsh environments Susceptible to corrosion.



Ductile Iron Lighting Pole Advantages

- Long service life and suitable for harsh environment that is susceptible to corrosion.
- Beautiful appearance and a wide range of colors.
- Engineering design according to finite element software simulations, international standards, and performance tests.
- Easy to install and transfer (frame and body can transfer separately).
- Eco-friendly and recyclable product.
- Powerful corrosion-resistant external coating including thermal spray Zinc coating, polyurethane paint, and bituminous paint.
- A Seamless and uniform cylindrical shape of the body.
- Ability to install in two modes: on the foundation or buried.



1 to 12 m ductile iron lighting poles

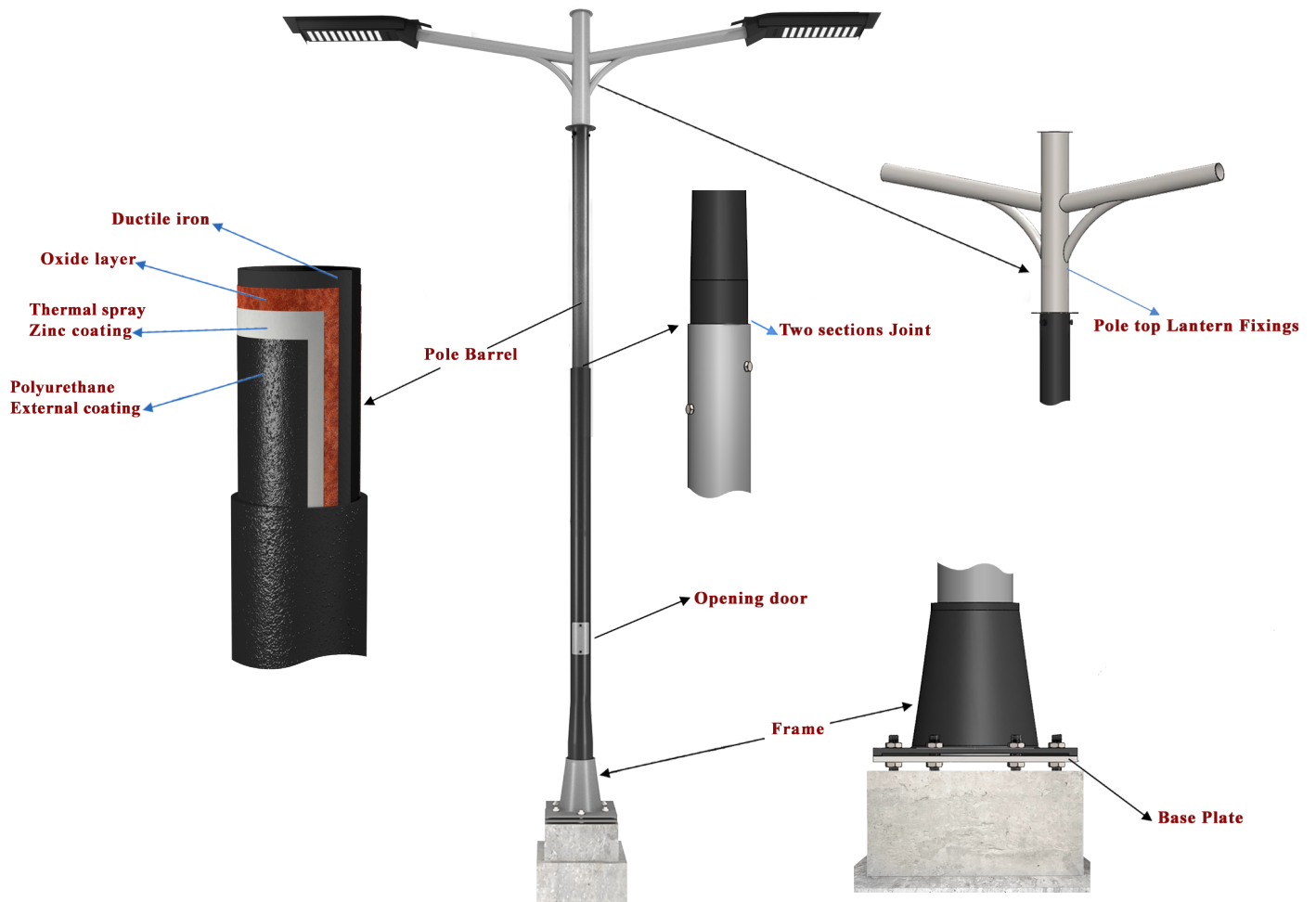


1 to 6 m ductile iron lighting poles



7 to 12 m ductile iron lighting poles

Ductile iron lighting pole components

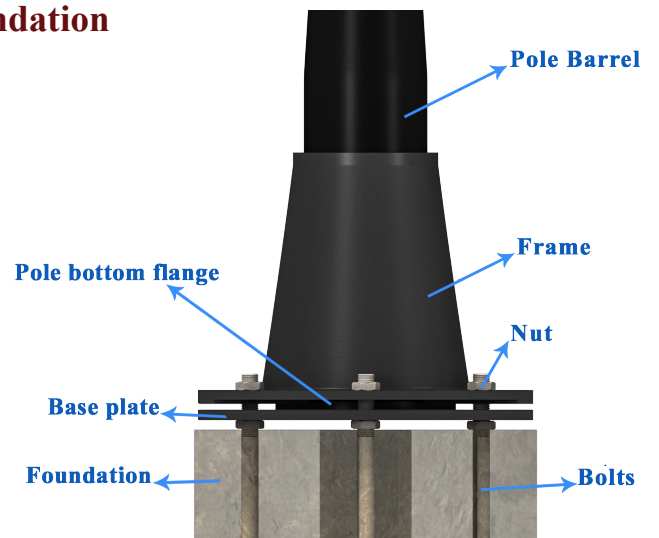


Mechanism of lighting pole installation on Foundation

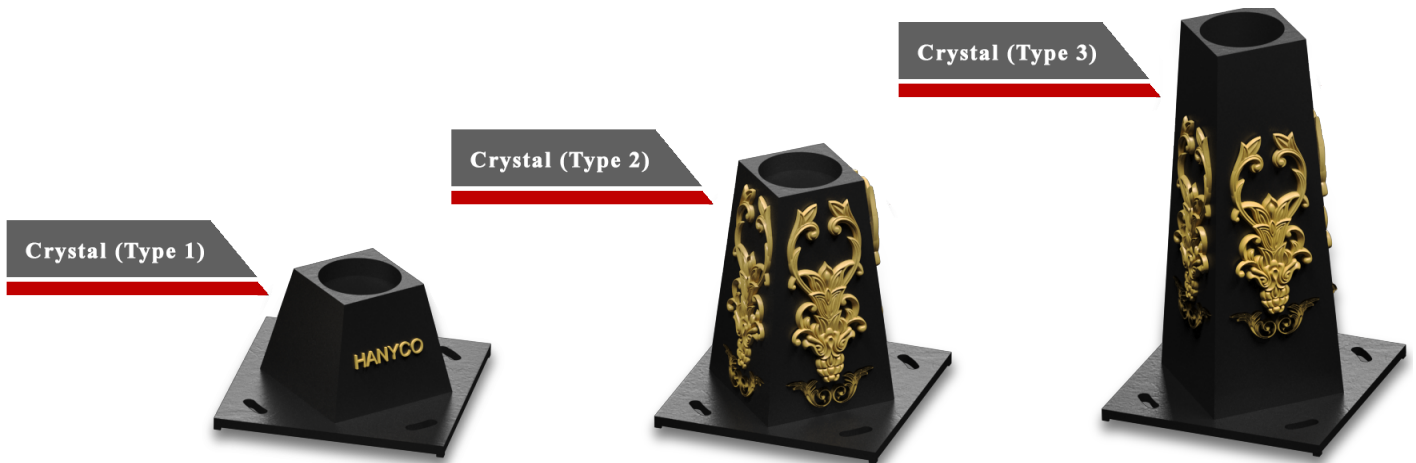
Step 1: Base plate is leveled by adjustment of bottom nuts.

Step 2: bottom Flange of pole barrel located between base plate and frame.

Step 3: Top nuts and washers are tightened to level the pole barrel.



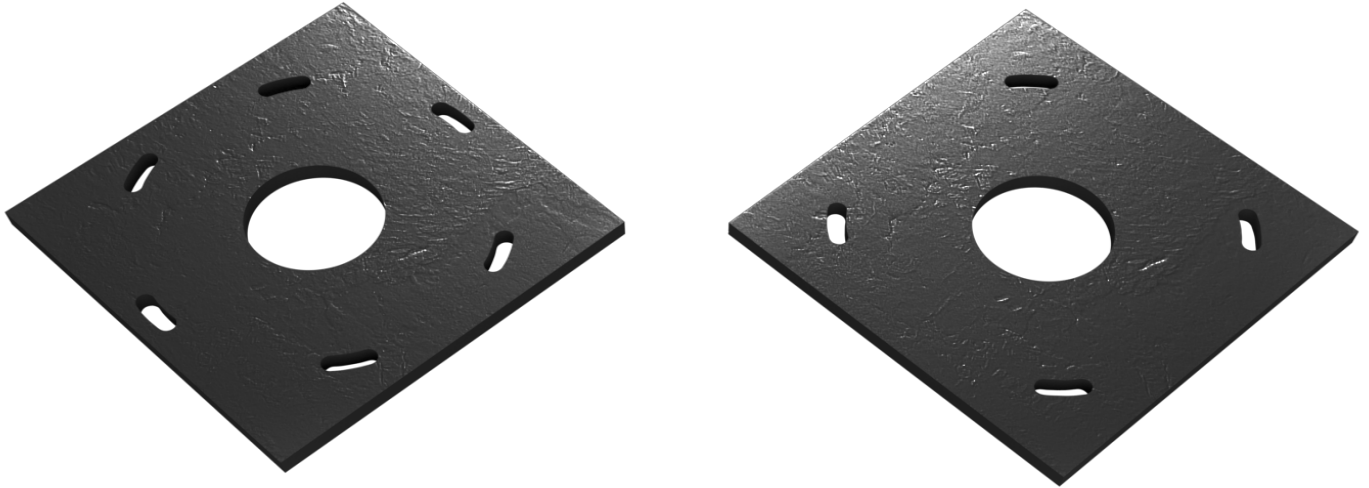
Frames



Frame Type	Height (mm)	No. of holes	Weight (Kg)	Dimension (mm)	Suitable for
Crystal (type1)	125	4	5	400×400(300×300)	1 to 3m
Crystal (type2)	257	4	8	400×400(300×300)	3 to 5m
Crystal(type3)	410	4	12	400×400(300×300)	4 to 6m
Marshal(type1)	150	6(4)	20	400×400(300×300)	1 to 6 m
Marshal(type2)	300	6(4)	25	400×400	7 to 12m
Royal(type1&2)	900	6(4)	56	400×400	7 to 12m

Base Plate

The most important application of the Base Plate is leveling the pole also bottom flange located between base plate and frame. The Base plate can be presented with 4 or 6 holes. In addition, the dimension of the base plate can change according to the request. Customized base plates according to customer needs are available.



Door Opening

The dimension of the door opening for 7 to 12m poles is 75×200mm and it is 45×186mm for 1 to 6m poles. Three types of doors are available for lighting pole door openings. Hinged door with two type of locking segment and simple type door. A normal person cannot easily open the opening door of ductile iron lighting poles. The level of protection is IP34 for all types of door openings.



Technical information

1 to 6 pole							
Height (m)	Nominal Thickness (mm)	External diameter (mm)	Internal diameter (mm)	Weight (kg)	Top cap weight (kg)	Frame type	Base Plate dimension (mm)
1	6	98	86	13	0.4	Crystal (type1)	400×400
						Marshal (type2)	
						-	
2	6	98	86	26	0.4	Crystal (type1)	400×400
						Marshal (type2)	
						-	
3	6	98	86	38	0.4	Crystal(type1)	400×400
						Crystal(type2)	
						Marshal (type2)	
4	6	98	86	50	0.4	Crystal(type2)	400×400
						Crystal(type3)	
						Marshal (type2)	
5	6	98	86	62	0.4	Crystal(type2)	400×400
						Crystal(type3)	
						Marshal (type2)	
6	6	98	86	74	0.4	Crystal(type2)	400×400
						Crystal(type3)	
						Marshal (type2)	

7 to 12 pole										
Height (m)	Top section height (m)	Bottom section height (m)	Nominal Thickness (mm)	Top diameter of top section (mm)	Base diameter of top section (mm)	Top diameter of bottom section (mm)	Base diameter of bottom section (mm)	diameter of flange (mm)	Weight (kg)	Frame type
7	1	6	6	98	108	118	148	216	112	Royal(type1)
										Marshal(type1)
8	2	6	6	98	108	118	148	216	125	Royal(type1)
										Marshal(type1)
9	3	6	6	98	108	118	148	216	138	Royal(type1)
										Marshal(type1)
10	4	6	6	98	108	118	148	216	151	Royal(type1)
										Marshal(type1)
11	5	6	6	98	108	118	148	216	165	Royal(type1)
										Marshal(type1)
12	6	6	6	98	108	118	148	216	177	Royal(type1)
										Marshal(type1)

Other Street lighting products (High mast, Flag-pole and Camera pole)



Ductile Iron High Mast

Height	No. of Sections	Bottom Diameter (mm)	Top Diameter (mm)	Nominal Thickness (mm)	Weight (Kg)	Max Diameter of basket (mm)	*Weight of basket (kg)	Basket type	Elevator type	Installation mode	Buried Depth (mm)	Height from ground level (m)	Door Opening dimension (mm)
18	3	421.2	187.9	7-9	989	1930	191	Moveable	motor	burial	2400	15.5	800×300

External coating of high masts Zinc coating, polyurethane paint bituminous paint for buried sections.

*Weight of basket without projectors is about 140kg.



Ductile iron Camera pole

Height (m)	No. Sections	Bottom Diameter (mm)	Top Diameter (mm)	Nominal Thickness (mm)	Weight (Kg)	Installation mode	Frame height (mm)	Frame weight (kg)	Buried Depth (mm)	Height from ground level (m)	Base plate dimension (mm)
6	1	275	188	5	155	Foundation or burial	900	95	1200	4.8	150×150
12	2	348	188	5	359	Burial	-	-	1800	10.2	-
18	3	421	188	5	675	Burial	-	-	2400	15.5	-



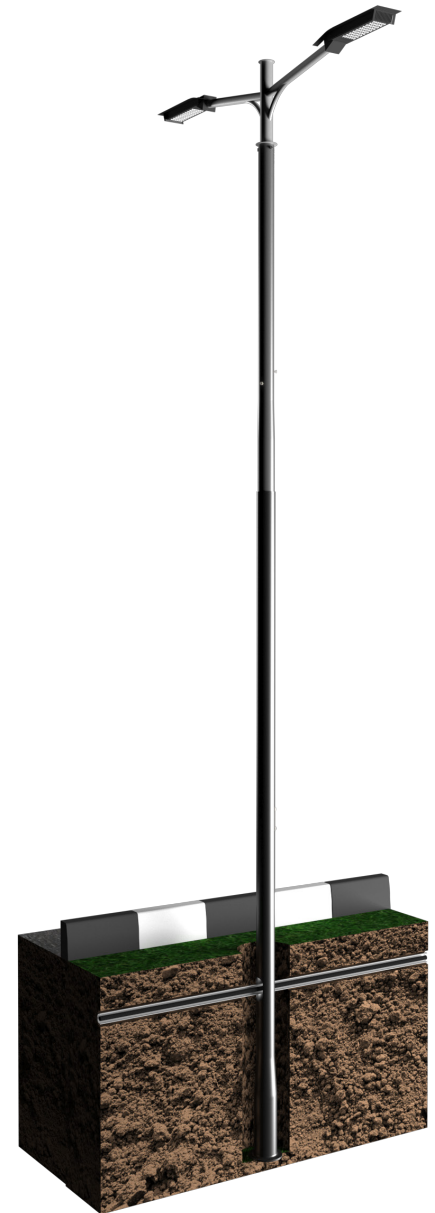
Ductile iron Flag Pole

Height (m)	No. Sections	Bottom Diameter (mm)	Top Diameter (mm)	Nominal Thickness (mm)	Weight (Kg)	Elevator type	Installation type	Buried Depth (mm)	Height from ground level (m)
18	3	421	188	5	675	manual	buried	2400	15.5
12	2	348	188	5	359	manual	buried	1800	10.2

For more information please contact us

Ductile Iron lighting poles in burial mode

One of the most important advantages of this product is the possibility of installing it in two ways. Ductile iron lighting poles can be installed in two forms: burial and on the foundation. The good inherent corrosion resistance of ductile iron makes this product capable to install in burial mode. Various types of corrosion-resistant external coatings apply on the burial and above ground surface of lighting poles. Zinc coating and polyurethane paint apply on the above-ground surface of lighting poles. Besides, zinc coating, polyurethane paint, and bituminous paint applied on the surface of burial surface of lighting poles. Special cable entry is designed for burial-type lighting poles that make end-users capable to use this product most efficiently.



Height above ground (mm)	Buried depth (mm)	Total height (mm)	Top section height (mm)	Bottom section (mm)	Cable entry distance from pole end (mm)	Opening door distance from pole end (mm)	Opening door dimension (mm)	Cable entry dimension (mm)
1000	800	1800	0	1800	300	1600	45x186	50x150
2000	800	2800	0	2800	300	1600	45x186	50x150
3000	1000	4000	0	4000	500	1600	45x186	50x150
4000	1000	5000	0	5000	500	2400	45x186	50x150
5000	1000	6000	0	6000	500	2400	75x200	50x150
6000	1200	7200	1500	6000	700	2600	75x200	50x150
7000	1500	8500	2800	6000	1000	2900	75x200	50x150
8000	1500	9500	3800	6000	1000	2900	75x200	50x150
9000	1700	10700	5000	6000	1200	3100	75x200	50x150
10000	1700	11700	6000	6000	1200	3100	75x200	50x150

Standards

- 1-BS EN 40-1: "Lighting columns- Part 1: Definitions and terms", 1992.
- 2-BS EN 40-2: "Lighting columns- Part 2: General requirements and dimensions", 2004.
- 3-BS EN 40-3-1: "Lighting columns- Part 3-1: Design and Verification-Specification for characteristic loads", 2013.
- 4-BS EN 40-3-2: "Lighting columns- Part 3-2: Design and Verification-Verification by testing", 2013.
- 5-BS EN 40-3-3: "Lighting columns- Part 3-3: Design and verification- Verification by Calculation", 2013.



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