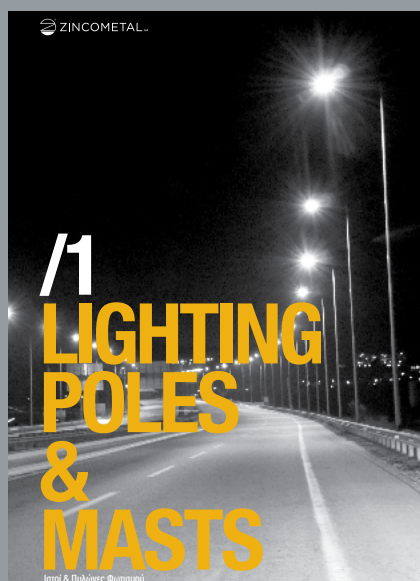


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PRODUCT NO:

DESCRIPTION:

IMAGE

base-hinged masts
with hydraulic jack unit



ZINCOMETAL S.A. is constantly developing and improving its products. For this reason, all product descriptions in this catalogue are intended as a general guide, and we may change specifications from time to time in the interest of product development, without prior notification or public announcement. Regarding the validity of the International Standards it is considered always the oldest edition.

Stay tuned with the company by signing up in ZINCOMETAL's Newsletter (www.zincometal.gr) and Social Media.

Hinged Masts

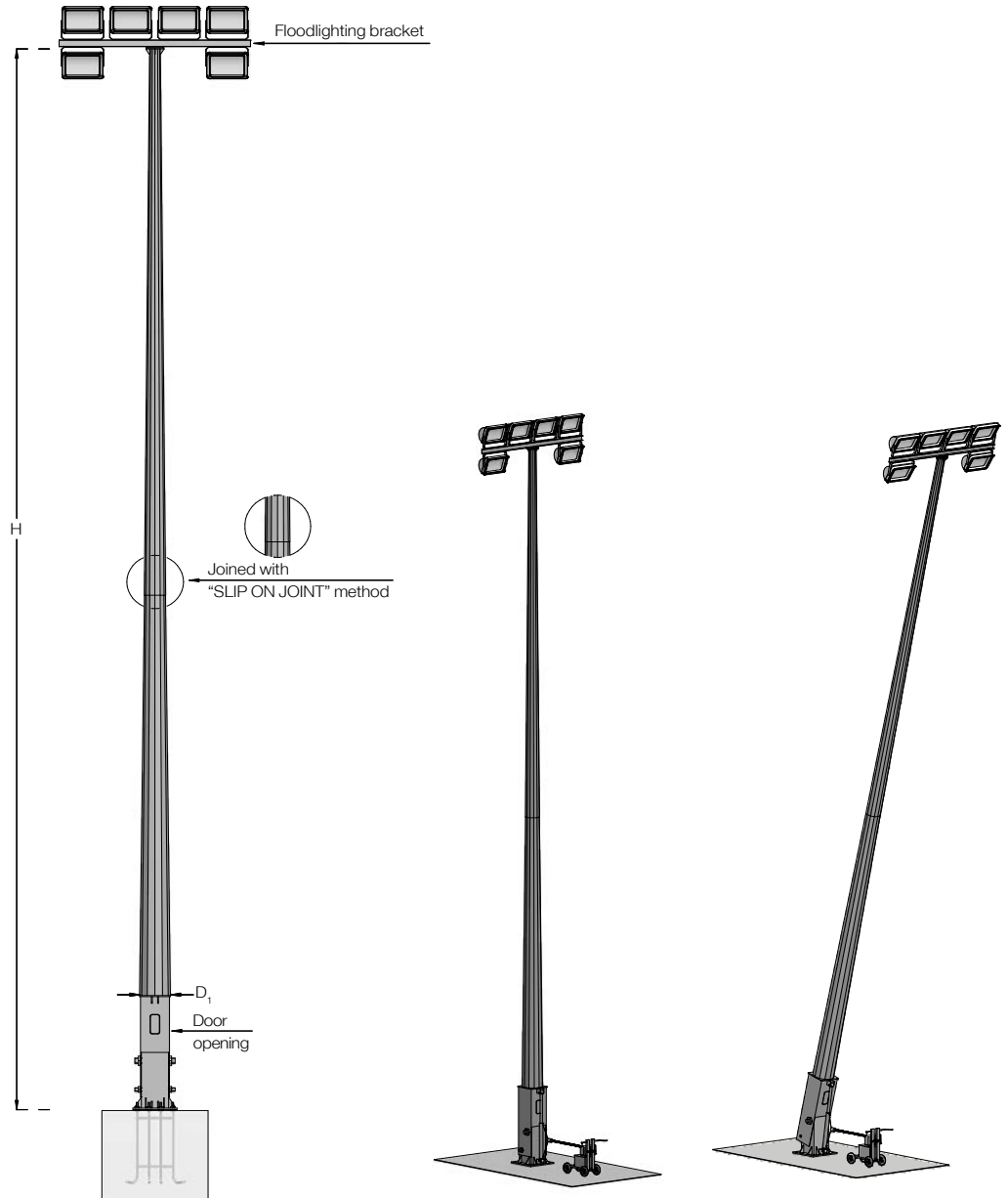
Base-hinged Masts with hydraulic jack unit

Image 1

Base-hinged masts with
floodlighting brackets and
ZINLUX floodlights.



Mast drawing model



Material Hot rolled steel grade S235JR according to EN 10025.

Surface protection Hot-dip galvanized according to International Standard EN ISO 1461.

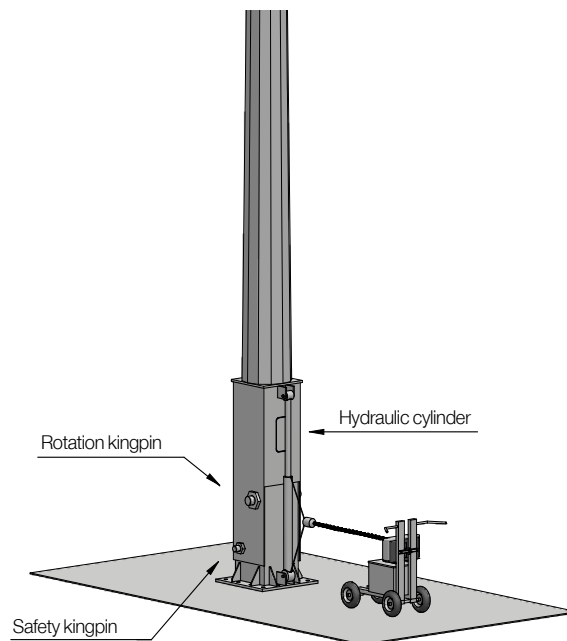
Manufacturing The mast is composed from two (2) parts: the solid base anchored to the ground (the stable part) and the movable part.

The stable part is a polygon with four (4) sides with base plate and triangular gussets.

The movable part is composed from the upper body, which is conical with polygonal cross-section, and the down body of the movable part which is a polygon with four (4) sides in order to allow the mast to raise or to lower smoothly in a failsafe operation.

Hinging by hydraulic jack designed with an articulation at the base, allowing the rotation of the whole mast. The masts are designed and manufactured up to 35m height according to EN 40 and Eurocodes 1 and 3.

Hydraulic jack unit



- Benefits**
- Fast installation.
 - Easy access for maintenance – no health and safety risks.
 - Practical easy maintenance which can be carried out at ground level.
 - Ideal for areas where lifting devices cannot access.

Considerations Enough ground space to enable masts to be lowered fully is needed.

Attached information Headload capacity tables for sports and area lighting poles and masts (see Appendix B).

Note The technical data tables have been calculated based on a specific load and wind speed for each product. In case of new customer requirements new calculations must be done!

The calculations have been done for ZINLUX floodlight 400W with wind surface 0.21m² and ZINLUX floodlight 1000W-2000W with wind surface 0.30m².

Table of Hinged Poles and Masts

Base-hinged Masts with hydraulic jack unit

Table 1 of 2

										
								Anchor base		
Code	mm	mm	mm	mm	mm	sided	kg	Code	mm	mm
AKY509T	9000	5	280	90	500x500x20	8	280	BAG M27/100/Z/400/6	6xM27x1000	400x400
AKY510T	10000	4	280	90	500x500x20	8	300	BAG M27/100/Z/400/6	6xM27x1000	400x400
AKY510T1		5					330			
AKY512T	12000	4	280	90	500x500x20	8	330	BAG M27/100/Z/400/6	6xM27x1000	400x400
AKY512T1		5					390			
AKY515T	15000	4-4	370	160	650x650x20	8	690	BAG M27/100/Z/540/8	8xM27x1000	540x540
AKY515T1		5-4					780			
AKY516T	16000	4-4	370	160	650x650x20	8	730	BAG M27/120/Z/540/8	8xM27x1200	540x540
AKY516T1		5-4					820			
AKY518T	18000	5-5	370	160	650x650x20	12	1030	BAG M27/120/Z/540/8	8xM27x1200	540x540
AKY518T1		5-5	520	180	750x750x20		1300	BAG M30/150/Z/600/8	8xM30x1500	600x600
AKY518T2		6-5					1450			
AKY520T	20000	5-5	520	180	750x750x25	12	1500	BAG M30/150/Z/600/8	8xM30x1500	600x600
AKY520T1		6-5					1730			
AKY522T	22000	6-5	520	180	750x750x25	12	1680	BAG M30/150/Z/600/8	8xM30x1500	600x600
AKY522T1		6-6					1810			

Table 2 of 2

								Anchor base		
Code	mm	mm	mm	mm	mm	sided	kg	Code	mm	mm
AKY525T	25000	6-5	520	180	750x750x25	16	1750	BAG M30/150/Z/600/8	8xM30x1500	600x600
AKY525T1		6-6	670	230	1100x1100x30		1960			
AKY525T2		8-6					2280			
AKY530T	30000	6-6	670	230	1100x1100x30	16	1985	BAG M30/180/Z/900/18	18xM30x1800	900x900
AKY530T1		8-6	760	340	1100x1100x35		2130			
AKY530T2		8-6					2470			
AKY535T	35000	8-6	900	340	1250x1250x40	16	4260	BAG M33/200/Z/1000/18	18xM33x2000	1000x1000
AKY535T1		10-8-6					4780			

Hinged Poles and Masts

Base-hinged Masts with hydraulic jack unit

Table
Hinged Poles and Masts
Base-hinged Masts with
hydraulic jack unit

Code	Zone I (36m/sec=129.6km/h)				Zone II (30m/sec=108km/h)			
	Floodlights (400W-0.21m ²)		Floodlights (1000W, 2000W-0.30m ²)		Floodlights (400W-0.21m ²)		Floodlights (1000W, 2000W-0.30m ²)	
	pcs	placement	pcs	placement	pcs	placement	pcs	placement
AKY509T	8	(3+3+2) - 2 trav.	6	(4+2) - 1 or 2 trav.	12	(4+4+4) - 2 trav.	8	(3+3+2) - 2 trav.
AKY510T	6 or 8	(4+2) - 1 trav. or (4+4) - 1 trav.	5	(3+2) - 1 trav.	8	(3+3+2) - 2 trav.	6	(4+2) - 1 or 2 trav.
AKY510T1	6 or 8	(4+2) - 1 or 2 trav. or (4+4) - 1 trav.	6	(4+2) - 1 trav.	9	(3+3+3) - 2 trav.	8	(4+4) - 1 or 2 trav.
AKY512T	5	(3+2) - 1 trav.	4	1 trav.	6	(4+2) - 1 or 2 trav.	6	(4+2) - 1 trav.
AKY512T1	6	(4+2) - 1 trav.	5	(3+2) - 1 trav.	8	(4+4) - 1 trav.	6	(4+2) - 1 or 2 trav.
AKY515T	5	(3+2) - 1 trav.	4	1 trav.	8	(4+4) - 1 trav.	6	(4+2) - 1 trav.
AKY515T1	8	(4+4) - 1 trav.	6	(4+2) - 1 trav.	10	(4+4+2) - 2 trav.	8	(4+4) - 1 or 2 trav.
AKY516T	4	1 trav.	3	1 trav.	8	(4+4) - 1 trav.	5	(3+2) - 1 trav.
AKY516T1	6	(4+2) - 1 trav.	5	(3+2) - 1 trav.	9	(3+3+3) - 2 trav.	8	(4+4) - 1 trav.
AKY518T	6	(4+2) - 1 trav.	4	1 trav.	8	(4+4) - 1 trav.	6	(4+2) - 1 trav.
AKY518T1	12	(4+4+4) - 2 trav.	9	(3+3+3) - 2 trav.	18	(6+4+4+4) - 2 trav.	12	(4+4+4) - 2 trav.
AKY518T2	16	(4+4+4+4) - 2 trav.	12	(4+4+4) - 2 trav.	>18		18	(6+4+4+4) - 2 trav.
AKY520T	8	(3+3+2) - 2 trav.	6	(4+2) - 2 trav.	16	(4+4+4+4) - 2 trav.	10	(4+4+2) - 2 trav.
AKY520T1	12	(4+4+4) - 2 trav.	9	(3+3+2) - 2 trav.	>18		18	(6+4+4+4) - 2 trav.
AKY522T	9	(3+3+3) - 2 trav.	8	(4+4) - 1 trav.	16	(4+4+4+4) - 2 trav.	12	(4+4+4) - 2 trav.
AKY522T1	9	(3+3+3) - 2 trav.	8	(4+4) - 1 trav.	16	(4+4+4+4) - 2 trav.	12	(4+4+4) - 2 trav.
AKY525T	8	(4+4) - 1 or 2 trav.	6	(4+2) - 1 trav.	12	(4+4+4) - 2 trav.	9	(3+3+3) - 2 trav.
AKY525T1	12	(4+4+4) - 2 trav.	10	(4+4+2) - 2 trav.	>18		16	(4+4+4+4) - 2 trav.
AKY525T2	18	(6+4+4+4) - 2 trav.	14	(4+4+4+2) - 2 trav.	>18		>18	
AKY530T	6	(4+2) - 1 trav.	5	(3+2) - 1 trav.	12	(4+4+4) - 2 trav.	9	(3+3+3) - 2 trav.
AKY530T1	8	(4+4) - 1 trav.	6	(4+2) - 1 trav.	16	(4+4+4+4) - 2 trav.	10	(4+4+2) - 2 trav.
AKY530T2	16	(4+4+4+4) - 2 trav.	10	(4+4+2) - 2 trav.	>18		18	(6+4+4+4) - 2 trav.
AKY535T	16	(4+4+4+4) - 2 trav.	10	(4+4+2) - 2 trav.	>18		18	(6+4+4+4) - 2 trav.
AKY535T1	>18		16	(4+4+4+4) - 2 trav.	>18		>18	

Note

trav: traverse (cross-arm)

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The logo for Zin Lux Lighting, featuring a stylized light fixture icon above the text "zin lux lighting".

zin
lux
lighting

The logo for Hellenic Griglia, featuring a stylized grid icon above the text "hellenic griglia".

hellenic griglia