



Lighting Poles & Masts – Hydraulic Range
Base-Hinged Octagonal Steel Column
Series S3 – from 10 up to 20 M Height

شركة البدرى لتصنيع الأعمدة والصواري
 إحدى شركات مجموعة البدرى للتنمية والاستثمار
BADRY Poles High Masts Fabrications Co.

Base-Hinged Octagonal Steel Column – Series 03

The hydraulic range of base-hinged, octagonal-steel columns (poles & masts), series 03 comes in a range of sizes from 10-20m covering a vast array of head weights suitable for various bracket designs. The pole is hinged via a hydraulically operated cylinder at the base for easy maintenance.

Specification

Octagonal base-hinged steel lighting columns are available in mounting heights from 10 to 20 meters. They are suitable for varying cross arm brackets and are ideally suited in sports lighting applications.

Corrosion Protection

The standard corrosion protection system is hot dip galvanized to BS EN 1461. In addition, a variety of root treatments and full paint specification options are available.

Quality Assurance

BADRY operates a Quality Assurance system which complies with requirements of BS EN ISO 9001:2000. Our welders and welding procedures are independently certified in accordance with BS EN 287 and 288.

Load and Dimensional Data

Flange Plated Option									
Light Duty	Column Height (MH)	Physical Sizes (mm) - See Elevation for Abbreviations				Loads & Foundation			
	A/F TOP	WB	SL x T x BC	Anchor Bolts	Mass (kg)	OTM (kNm)	Shear (kN)	Conc. Found. Sizes	
	10m	191	300	550 x 30 x 400	M30 X 1090	399	127.8	16	2100 sq x 1300 h
	12m	161	300	550 x 30 x 400	M30 X 1090	427	126.4	13.45	2000 sq x 1400 h
	15m	125	300	550 x 30 x 400	M30 X 1090	468	122.3	14.25	2100 sq x 1200 h
	18m	148	350	650 X 45 X 480	M39 X 1380	782	213.4	20.2	2500 sq x 1400 h
Heavy Duty	12m	160	300	550 x 35 x 420	M36 X 1400	539	147.23	17.2	2100 sq x 1500 h
	15m	125	300	550 x 35 x 420	M36 X 1400	627	157.5	14.02	2200 sq x 1400 h
	18m	155	350	650 x 45 x 480	M39 X 1380	887	241.1	20.6	2500 sq x 1600 h
	20m	127	350	650 x 45 x 480	M39 X 1380	917	240.3	19.45	2500 sq x 1600 h

Headload Capacity

	Column Height	Max Headweight (kg)	Max Effective Windage Area, Based on T CAT II (If site is located within 5km of coast refer to head office for revised figures)				
			Extra Light (m ²)	Light (m ²)	Medium (m ²)	Heavy (m ²)	Ex Heavy (m ²)
Light Duty	10m	100	9.98	8.92	8.16	7.4	5.76
		200	9.68	8.39	7.67	6.95	5.39
		300	9.25	8.02	7.32	6.64	5.13
	12m	100	7.2	6.21	5.62	5.05	3.82
		200	6.66	5.72	5.17	4.64	3.49
		300	6.28	5.39	4.86	4.37	3.28
15m	100	3.32	2.85	2.57	2.32	1.75	
	200	2.94	2.53	2.28	2.05	1.54	
	300	2.69	2.3	2.07	1.85	1.38	
18m	100	4.7	4.08	3.73	3.37	2.55	
	200	4.27	3.69	3.37	3.04	2.28	
	300	3.94	3.41	3.1	2.81	2.07	
Heavy Duty	12m	100	7.85	6.87	6.32	5.78	4.6
		200	7.34	6.4	5.89	5.39	4.29
		300	6.95	6.09	5.58	5.11	4.06
	15m	100	6.09	5.23	4.68	4.21	3.12
		200	5.58	4.76	4.25	3.82	2.81
		300	5.19	4.41	3.98	3.55	2.57
	18m	100	7.07	6.01	5.39	4.8	3.47
		200	6.48	5.5	4.92	4.37	3.12
		300	6.09	5.11	4.57	4.06	2.89
	20m	100	4.92	4.25	3.9	3.51	2.57
		200	4.45	3.86	3.51	3.16	2.22
		300	4.1	3.55	3.2	2.89	1.99

Base-Hinged Pole

