

APPROACH MASTS

DESCRIPTION

Pollite supply a complete range of frangible masts for airfield approach lighting; from a single light mast to a five light cross arm with an SFL/Flash Unit. We can also offer custom solutions for complex design challenges.

Manufactured in the UK from glassfibre with a unique monopole design and hollow construction to conceal cables, they are low maintenance and non-corrosive.

All Pollite masts are fully ICAO and FAA approved for frangibility. Masts have also been tested to ensure compliance with deflection, wind speed, UV and salt spray requirements. Their corrosion free design means an expected lifespan of over 30 years, coming with an industry leading 10 year warranty.

All masts come with a light height adjuster to allow for any final adjustments on site.

FEATURES

- » Non-Corrosive
- » Non-Conductive
- » Environmentally Durable – No Wind Fatigue / Resistant To Extremes Of Temperature
- » Frangible - ICAO/FAA Compliant
- » Easy To Install
- » Extreme Strength
- » Low Environmental Impact
- » Low Maintenance
- » No Electro-Magnetic Interference
- » UV & Salt Spray Resistant
- » Hollow Construction For Concealment Of Cables

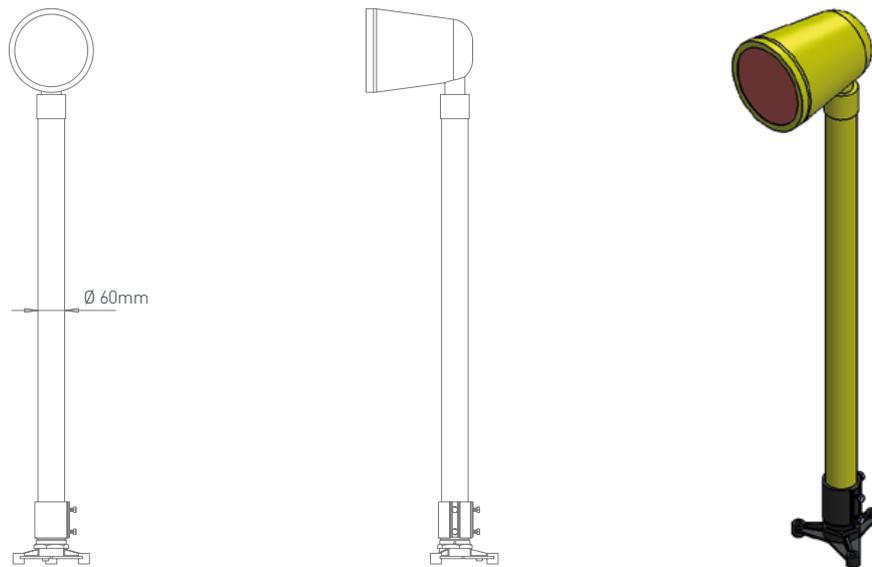
CERTIFICATION

- » FAA L-891 Low Impact Resistant Structures (AC150/5345-45C)
- » ICAO Doc 9157 #N/901 ADM Part 6 - Frangibility
- » ISO 9001:2015

TECHNICAL DATA

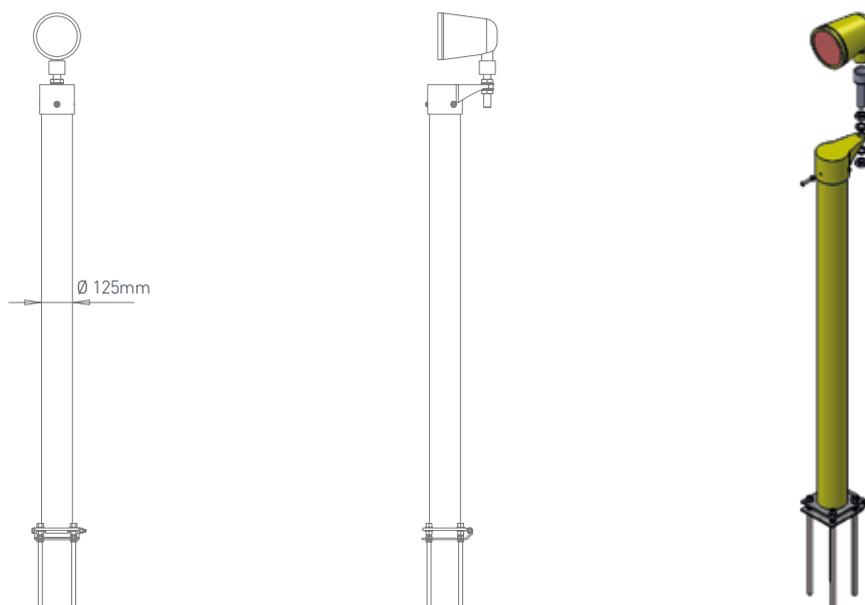
60MM SINGLE LIGHT MASTS

Suitable for lights up to 1800mm. It is mounted with the Pollite frangible coupling and secured to the ground using expansion bolts and our tripod base.



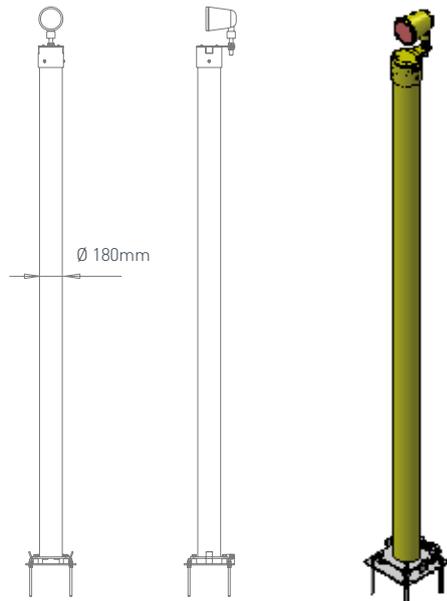
125 MM SINGLE LIGHT MASTS

Suitable for light heights from 1800mm to 6000mm. It is mounted on a hinged base plate for easy installation and maintenance.



180MM SINGLE LIGHT MAST

Suitable for light heights from 5000mm to 12000mm. It is mounted on a hinged base plate for easy installation and maintenance.



Single Light Approach Mast Weight and Measurement Chart

Mast Height	Mast Weight (average)	Mast Section: Diameter	Base Plate: Dimension	Base Plate: Thickness	Ground Plate: Dimension	Ground Plate: Thickness	Ground Rod: Length**	Ground Rod: Diameter	Cable Hold: Diameter	Foundation Detail***
m	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm
0.5	8.5	60	175*	n/a	n/a	n/a	n/a	M10	33	N/A
1	9	60	175*	n/a	n/a	n/a	n/a	M10	33	N/A
1.5	9.5	60	175*	n/a	n/a	n/a	n/a	M10	33	N/A
2	15	125	180x180	10	180x180	10	500	16	50	500x500x1000
2.5	17	125	180x180	10	180x180	10	500	16	50	500x500x1000
3	18	125	180x180	10	180x180	10	500	16	50	500x500x1000
3.5	20	125	180x180	10	180x180	10	500	16	50	500x500x1000
4	21	125	180x180	10	180x180	10	500	16	50	500x500x1000
4.5	25	125	180x180	10	180x180	10	500	16	50	500x500x1000
5	40	180	300x300	12	400x400	10	500	16	80	650x650x1000
5.5	45	180	300x300	12	400x400	10	500	16	80	650x650x1000
6	58	180	300x300	12	400x400	10	500	16	80	650x650x1000
6.5	61	180	300x300	12	400x400	10	500	16	80	650x650x1000
7	64	180	300x300	12	400x400	10	500	16	80	650x650x1000
7.5	67	180	300x300	12	400x400	10	500	16	80	650x650x1000
8	78	180	300x300	12	400x400	10	500	16	80	650x650x1000
8.5	81	180	300x300	12	400x400	10	500	16	80	650x650x1250
9	84	180	300x300	12	400x400	10	500	16	80	650x650x1250
9.5	87	180	300x300	12	400x400	10	500	16	80	650x650x1250
10	90	180	300x300	12	400x400	10	500	16	80	650x650x1250
10.5	97	180	300x300	12	400x400	10	500	16	80	650x650x1250
11	153	180	300x300	12	400x400	10	500	16	80	650x650x1250
11.5	156	180	300x300	12	400x400	10	500	16	80	650x650x1250
12	160	180	300x300	12	400x400	10	500	16	80	650x650x1250

*Glass re-inforced plastic tripod base.

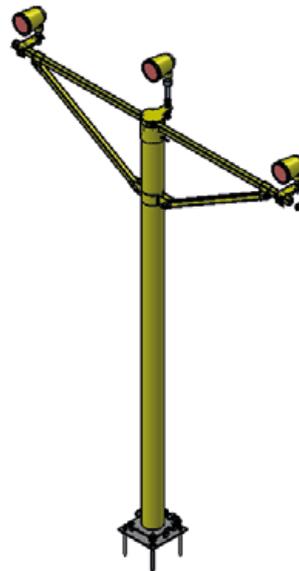
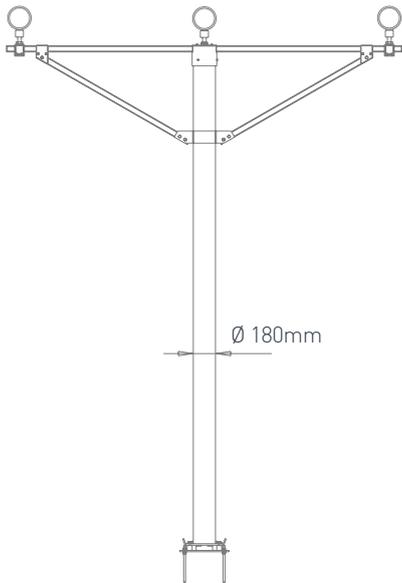
**Ground Rod length dependent on foundation size.

***Guide only.

Mast height measured from bottom of base plate. Weight based on exact heights shown, please allow for some variance for masts measuring between 500mm intervals.

180MM MULTIPLE LIGHT MAST

180MM Multiple Light Approach Mast – Suitable for light heights of between 2000mm and 12000mm. Can mount up to 5 lights and SFL. For cross arms longer than 4000mm we provide a double support arm assembly to provide extra strength. It is mounted on a hinged base plate for easy installation and maintenance. For masts over 5000mm we provide a winch for assist with raising and lowering the mast.

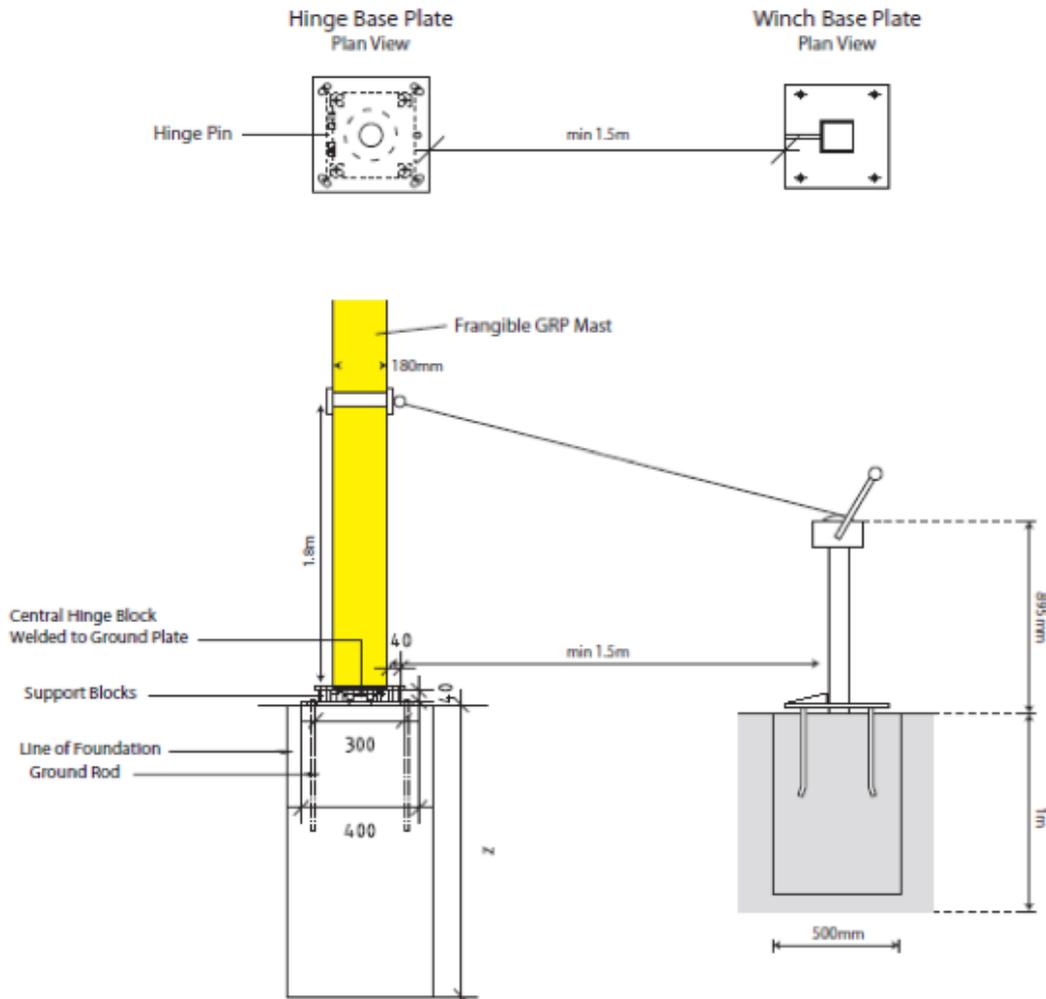


Cross Arm Approach Mast Weight and Measurement Chart

Mast Height	Mast and Foot only	2 lights, 1.2m centres	2 lights, 1.5m centres	3 lights, 1.5m centres	3 lights, 2.7m centres	2 lights, 2.7m centres	4 lights, 1m centres	4 lights, 1.5m centres	5 lights, 1.5m centres	Mast Height	Mast Section: Diameter (Cross Arm Arrangement)	Cross Arm Section: Diameter	Base Plate: Dimension	Base Plate: Thickness	Ground Plate: Dimension	Ground Plate: Thickness	Ground Rod: Length	Ground Rod: Diameter	Cable Hold: Diameter	Foundation Details***
m	kg	kg	kg	kg	kg	kg	kg	kg	kg	m	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2	30	40	41	47	52	45	52	52	58	2	180	50	300x300	12	400x400	10	500	16	80	500x500x1250
2.5	32	42	43	49	54	47	54	54	60	2.5	180	50	300x300	12	400x400	10	500	16	80	500x500x1250
3	34	44	45	51	56	49	56	56	62	3	180	50	300x300	12	400x400	10	500	16	80	500x500x1250
3.5	37	47	48	54	59	52	59	59	65	3.5	180	50	300x300	12	400x400	10	500	16	80	500x500x1250
4	39	49	50	56	61	54	61	61	67	4	180	50	300x300	12	400x400	10	500	16	80	500x500x1250
4.5	42	52	53	59	64	57	64	64	70	4.5	180	50	300x300	12	400x400	10	500	16	80	650x650x1250
5	43	53	54	60	65	58	65	65	71	5	180	50	300x300	12	400x400	10	500	16	80	650x650x1250
5.5	45	56	56	62	67	60	67	67	73	5.5	180	50	300x300	12	400x400	10	500	16	80	650x650x1250
6	70	80	81	87	92	85	92	92	98	6	180	50	300x300	12	400x400	10	500	16	80	650x650x1250
6.5	73	83	84	90	95	88	95	95	101	6.5	180	50	300x300	12	400x400	10	500	16	80	650x650x1250
7	76	86	87	93	98	91	98	98	104	7	180	50	300x300	12	400x400	10	500	16	80	650x650x1250
7.5	79	89	90	96	101	94	101	101	107	7.5	180	50	300x300	12	400x400	10	500	16	80	650x650x1250
8	98	108	109	115	120	113	120	120	126	8	180	50	300x300	12	400x400	10	500	16	80	650x650x1250
8.5	102	112	113	119	124	117	124	124	130	8.5	180	50	300x300	12	400x400	10	500	16	80	650x650x1250
9	106	116	117	123	128	121	128	128	134	9	180	50	300x300	12	400x400	10	500	16	80	650x650x1250
9.5	119	129	130	136	141	134	141	141	147	9.5	180	50	300x300	12	400x400	10	500	16	80	650x650x1250
10	135	145	146	152	157	150	157	157	163	10	180	50	300x300	12	400x400	10	1000	16	80	750x750x1500
10.5	140	150	151	157	162	155	162	162	168	10.5	180	50	300x300	12	400x400	10	1000	16	80	1000x1000x1500
11	185	195	196	202	207	200	207	207	213	11	180	50	300x300	12	400x400	10	1000	16	80	1000x1000x1500
11.5	191	201	202	208	213	206	213	213	219	11.5	180	50	300x300	12	400x400	10	1000	16	80	1000x1000x1500
12	197	207	208	214	219	212	219	219	225	12	180	50	300x300	12	400x400	10	1000	16	80	1000x1000x1500

***Guide only.

Optional Extras:



WINCH

DESCRIPTION

The Pollite winch system is a simple way of raising and lowering masts over 5 metres tall. A collar is bolted to the mast and additional ground rods are installed in the base. When the winch is required the tower is attached to the ground rods and a strap attached to the collar. The same winch tower can be used on several masts and is easily moved between locations.

FEATURES

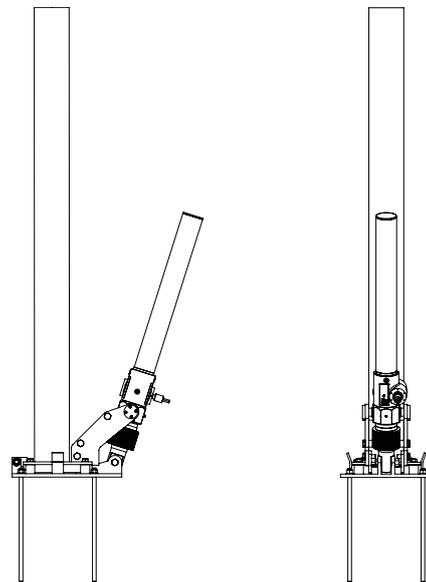
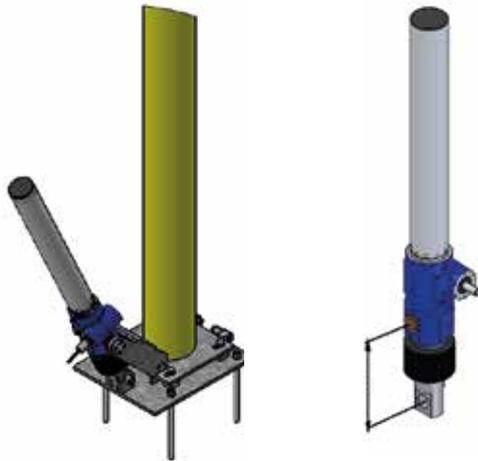
- » User friendly
- » Used on masts 5–12m
- » Maintenance free

SPECIFICATION

For use with	1800 Ø Mast 5–12m
Foundation footprint	1500mm x 1500mm
Collar position from base	2000mm



Optional Extras:



SCREW JACK DESCRIPTION

The Pollite screw jack is an easy and effective method of raising and lowering large masts, and is recommended for all masts of 5m and above. The jack effortlessly connects directly to the mast and ground plate, and is operated by using a hand held, battery powered drill, which means minimum effort is required to lift even the largest Pollite masts.

FEATURES

- » User Friendly
- » Used On Mast 5M-13M
- » Easy To Connect Maintenance Free

SPECIFICATION (mm)

For Use With	180Ø Mast 5-13m
Thread Type	Acme Screw
Lead Screw Diameter	40 x 7mm
Linear Travel Per Turn	0.16mm
Dynamic Force	50,000N
Static Force	50,000N
Stroke Length	600mm

