

Sliding masts



Lightweight aluminum telescopic masts are suitable for many applications, such as the installation of antennas, weather stations, sound level meters, construction site surveillance cameras, etc. Although the masts are primarily intended for temporary and portable use, they can also be installed permanently by providing proper attachment and strong guy lines. In addition to the height, the masts differ mainly by their transport length (1,25 m to 2,70 m depending on the model), the number of sections (from 3 to 11) and the diameter of the tubes (20 mm to 75 mm) depending on the height.

The load capacity of the masts is determined by the clamping length and height; weights up to 4 kg or more are possible. Sliding masts consist of several aluminum tubes split on one side, which can be extended to any length and are locked via strong clamps. The maximum extension length is limited. A marking approximately 20 cm before the end of the pipe indicates this limit.





Since there is no fixed stop, it is advisable to approach the marking slowly by sliding the tubes.

These tubes are made of weather resistant aluminum alloy. The wall thickness of the tubes is 2 mm. For mast lengths greater than 6 meters, calculated from the upper clamping point, the mast must be guyed. Additional added forces refer to a force applied horizontally at the end of the mast extended - without shrouds. The calculation includes the inherent wind load for a wind speed of 50 km / h.





Reference No	Model	Transport length [m]	Extended length [m]	Ø of tubes [mm]	Number of sections	Weight [kg]	Additional force [N]
18300.4	PM 4/1,5	1,50	4,0	30/20	3	2,2	39
18300.5XL	PMXL 5/1,25	1,25	5,0	65/45	5	5	110
18305.5	PM 5,0/1,9	1,90	5,0	50/40	3	4,0	109
18300.6	PM 6/1,5	1,50	6,0	40/20	5	4,0	38
18300.6XL	PMXL 6/1,3	1,30	6,0	65/40	6	6,0	90
18305.65	PM 6,5/1,9	1,90	6,5	55/40	4	6,0	87
18300.8	PM 8/1,5	1,50	8,0	50/20	7	6,5	38
18305.8	PM 8,0/1,9	1,90	8,0	60/40	5	8,0	75
18300.9	PMXL 9/1,5	1,50	9,2	70/35	8	9,5	70
18305.95	PM 9,5/1,9	1,90	9,5	65/40	6	11,0	68
18300.10	PM 10/1,5	1,50	10,0	60/20	9	8,5	38
18300.10XL	PMXL 10/1,5	1,50	10,0	70/30	9	11,5	
18300.11	PM 11/1,5	1,50	11,0	65/20	10	10,0	32
18305.114	PM 11,4/1,9	1,95	11,4	65/35	7	13,5	65
18300.12	PM 12/1,5	1,50	11,8	70/20	11	11,2	30
18305.13	PM 12,8/1,9	1,95	12,8	70/35	8	15,2	
18305.16	PM 16/2,7	2,70	16	75/30	10	15	22

Guy clamps

Reference No	Description
<p>23050</p> 	<p>Guy disc with cable guide gap (3 fixing points)</p>  <p>Smart guying attachment prevents the guying cables and the cables of the measuring devices at the top of the mast from becoming tangled. A sturdy metal disc with a sufficiently large cable guide space (25 mm) is suitable for most cables. The mast can still slide in the shroud mountings. Sockets for tubes with diameters of 50, 40, 30 and 20 mm are included in the delivery.</p>
<p>18315</p> 	<p>Aluminum guy ring (4 fixing points)</p>  <p>Solid aluminum guy ring 10 mm thick, very high tensile strength with 4 threads to screw in the four M6 stainless steel threaded eyelets. Four stainless steel M6 locknuts to secure screws are also part of the set. Available for tubes with an outside diameter of 20 to 70 mm. The inside diameter of the ring is slightly larger so that it fits well without too much play.</p>




Tripods








		<p>Mast tripods are suitable for portable applications because of their ability to quickly achieve temporary installation. The tripods can be folded in a single movement without the need for tools. Folded, their dimensions are very compact; the diameter of large tripods is around 250 mm when collapsed. The masts are fixed in the tripods by means of two large heads and secured with wing screws. The tripod heads and the legs are made of aluminum.</p>
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Reference No	18320	18322	18323	18324	
Transport length	1,35	1,50	1,90	1,90	m
Clamping length	1,20	1,35	1,80	1,80	m
For masts with tube Ø	25 - 60	35 - 70	35 - 70	50 - 90	mm
Weight	5,0	5,5	6,0	6,5	Kg
Type	ST1,35/60	ST1,5/70	ST2/70	ST2/90	

Tripod bases

Reference No	Description
<p>18312</p> 	<p>Tripod bases (Set of 3 pieces)</p> <p>Used to mount a 18320 - 18324 tripod on sandy soil and level the tripod up to a max. of 100 mm inclination. The sizes of the aluminum bases are 240 x 120 mm each and they are supplied in sets of 3 pieces.</p>

Mounting accessories

Reference No	Description
<p>23100</p> 	<p>Guy ropes</p> <p>Guy ropes in polyethylene fiber type "Dyneema", 3 mm thick, very resistant with a breaking load of 400 kg. The ropes are "pre-stretched" which means that it only expands very slightly when wet. (set of 3 or 4 lengths adapted to the chosen mast)</p>
<p>42260</p> 	<p>Ultra-fast tensioners</p> <p>Set of 3 or 4 ultra-fast aluminum rope tensioners (depending on the chosen guy clamps)</p>
<p>23012</p> 	<p>Wire turnbuckles</p> <p>Set of 3 or 4 rope tensioners 8 mm, in galvanized steel (depending on the chosen guy clamps)</p>
<p>23210</p> 	<p>Ground anchors</p> <p>Set of 3 or 4 hardened aluminum ground anchors, with transverse hole for fixing the guying wire. (depending on the chosen guy clamps) Length : 300mm</p>
<p>304 2A</p> 	<p>Orientation markings</p> <p>Marking on all the mast tubes to facilitate the orientation of a wind direction sensor.</p>
<p>304 2B</p> 	<p>Adapter for weather station</p> <p>Stainless steel adapter for fixing an ISS – DAVIS - ISS unit to a lower tube of the aluminum telescopic mast with a diameter of 55 to 65 mm. (not necessary on tubes of smaller diameters; not possible on tubes of larger diameters).</p>
	<p>Tool kit</p> <p>Recommended tools for the installation consisting of :</p> <ul style="list-style-type: none"> - 1 bubble water level - 1 handy ratchet wrench to tighten / loosen the telescopic mast clamps - 1 pair of gloves to avoid injuries when handling the mast