

Aluminum Telescopic Masts and Accessories



Example of a 9m aluminum mast with a wind measurement instrument.

The telescopic masts are manufactured from sideways slotted aluminum tubes. The mast can be extended to any length and securely locked into place by means of a massive clamp. The maximum allowed extended length is marked by a color ring approx. 20cm before the end of each tube. There is no fixed stop which makes it advisable to approach the marking slowly when extending the telescopes.

These masts are ideally suited for portable applications due to the low weight and the telescopic mechanism. When setting up the mast, please pay special attention to the clamping length; the clamping length of the mast must be at least 1/6th of the extended length, or at least 1 meter at the minimum. When extending the mast more than 6 meters measured from the uppermost clamping point additional guys are mandatory.

The tubes are made of weather-proof aluminum alloy. The tubes are tapered by 5mm and the tube thickness is 2mm. Please refer to the following table for weight and dimensions. The stated additional forces refer to a horizontally applied force at the tip of the extended mast - without guys and a mast clamping length of 1/6th. The calculation includes the inherent load at a wind speed of 50 km/h (which is equivalent to a wind force of 7).



Reference No.	Model	Transport length [m]	Extended length [m]	Tube diameter [mm]	Number of segments	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
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
18300.8	PM 8/1,5	1,50	8,0	50/20	7	6,5	38
18300.9	PMXL 9/1,5	1,50	9,2	70/35	8	9,5	70
18300.10	PM10/1,5	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	PM11/1,5	1,50	11,0	65/20	10	10,0	32
18300.12	PM12/1,5	1,50	11,8	70/20	11	11,2	30
18299	PM16/2,7	2,70	16	65/35	7	15	22
18305.5	PM 5,0/1,9	1,90	5,0	50/40	3	4,0	109
18305.65	PM 6,5/1,9	1,90	6,5	55/40	4	6,0	87
18305.8	PM 8,0/1,9	1,90	8,0	60/40	5	8,0	75
18305.95	PM 9,5/1,9	1,90	9,5	65/40	6	11,0	68
18305.11,4	PM11,4/1,9	1,95	11,4	65/35	7	13,5	65
18305.13	PM12,8/1,9	1,95	12,8	70/35	8	15,2	

Guy clamp



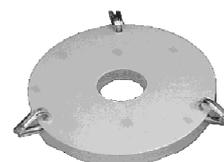
Smart construction which avoiding that the guy wires and antenna cables get entangled. This happens most often at the topmost guying.

Built as a solid metal disc, the gap for the cable guide is wide enough (25mm) to accommodate most rotor connectors. The same product can be used to guy a mast in several heights. Included in the shipment are bushings for 50, 40, 30 and 20mm mast diameter. Of course the mast can still be rotated in the guy clamp.

Reference No.	Description
23050	Guy Clamp

Guying clamp

for telescopic masts with three guying thimbles made of fibre-glass reinforced plastic. The clamps attach themselves to the tapered section of the mast thus enabling to rotate the mast even when fixed with guys and pegs.



Reference No.	Description
18310.20	20mm inner diameter
18310.40	40mm inner diameter
18310.50	50mm inner diameter
18310.60	60mm inner diameter

Tripods



Mast tripods are well suited for portable applications because of the ability to quickly achieve a temporary installation. The tripods are folded together in one move without any tools. When collapsed the dimensions are very compact; the diameter of the large tripods only amount to 250mm when collapsed. The masts are fixed within the tripods by means of two large tripod heads and secured by wing screws. The tripod heads as well as the legs are made of aluminum.

Type	ST1,35/60	ST2/60	ST1,5/70	ST2/70	ST2/90	
Transport length	1,35	2,0	1,5	2	2	m
Clamping length	1,2	1,8	1,35	1,8	1,8	m
Mast diameter	25-60	25-60	35-70	35-70	50-90	mm
Weight	5	5,5	5,5	6	6,5	Kg
Reference No.	18320	18321	18322	18323	18324	

Tripod mounts



Used to erect the tripod on sandy soil and to equalize the tripod up to max. 100mm inclination. The mount size is 240 x 120 mm, the plates are made of aluminum and come in packages of 3 pieces per set.

Reference No.	Description
18312	Tripod mounts (set)

Mast tripod M55



Compact, heavy steel tripod for masts from 40 to 55mm diameter.
Collapsible in one move, well suited for portable applications
just drive the car onto one of the tripod legs (park-on mount)
Made of galvanized steel
New model with modified clamping device: features now more clamping
space and a slot, in addition one leg can be height adjusted.
Collapsed dimensions 55x18x18 cm, weight 15 Kg

Reference No.

18320

Mast base



Embase en acier zingué pour mâts de 40 à 55 mm, pourvu de 4 rails démontables
pour l'insertion de plaques en béton de 40x40 cm ou 50x50 cm.
Dimensions: (démonté) : 42x17x16 cm
Poids : 5 kg

Reference No.	Description
18326	Embase pour mât

Mast base PH-55



Mast base for 4 paving stones 40 x 40cm or 50 x 50cm, for tubes with diameters
from 48 to 55mm Ø. Weight c. 6.8kg, galvanized.

Reference No.	Description
18327	Mast base PH-55

Drive-on mast base E light version



Drive-on mastbase for portable masts

« *Just drive-on it* »

light model, adjustable, dismantable, yellow zinc galvanized.
suited for smaller portable masts up to 50mm diameter.
span length: 150 mm,
width of base: 220 mm
Length : 500 mm
Fixing screws included

Reference No.	Description
18380	Drive-on mast base, light version

Mast base for vehicles, heavy version



Drive-on mastbase for portable masts

« *Just drive-on it* »

heavy model for larger antennas, tiltable, hot dip galvanized
suited for mast diameter 25-50mm.
Length for fixing tube: 380mm
With : 180 mm
Length : 480 mm
Transport handle
Fixing screws included
Weight : 6,5 kg

Reference No.	Description
18381	Drive-on mastbase, heavy model

Quick Release Clamps for Portable Masts



PM6XL/1.5 mast with 4 quick release clamps

Usually these masts require a flat or socket wrench, with the quick release clamps you can raise and lower the masts without any tools.

Even with limited space these quick clamps can be easily used, because the lever can be adjusted at any position. Just pull out and release the lever, the strong spring latches the lever at the desired position. In contrast to the usual tommy screws (star grip screws) the quick release clamps allow for secure tightening of the clamp without using too much force.

How many quick release clamps are needed for a mast?

The table above shows a column "Number of Segments". The particular mast requires this number of segments minus one clamp. Example: The mast "PMXL 6/1.5 (18300.6XL)" consists of five segments you would need four quick release clamps.

Reference No.	Description
23046	M8 Quick Release Clamps for Portable Masts