





Telescopic Trailer Mast

Comrods telescopic aluminium trailer mast is based upon the proven design that has passed through comprehensive environmental testing. The mast is made of extruded hexagonal and circular aluminium alloy tubes, with screws and riveted fittings in stainless steel. The sections move inside each other on plastic guide ways. The mast is elevated with a hand crank winch, equipped with a load reaction brake. The mast is guyed at four levels in three directions. The guys are connected to the ground anchors by guy tensioners. During elevation the mast will be stabilised by auto-guys in the third guy level. The unique feature of the mast design is the space between sections which allows the mast to be raised and lowered even with a build-up of ice or sand. Even when the mast is completely iced, it may be removed by connecting a vehicle exhaust with a suitable pipe to the opening provided in the base of the mast. Warm engine exhaust is ducted up the mast and as the mast is heated the ice is melted. The trailer is equipped with two dismountable supports on the backside. These supports together with the original front wheel prohibit tipping under erection. A separate hand crank drive winch mounted on the trailer is used to tilt the mast from transport stage to the ground. The trailer is constructed for driving in off-road easy terrain and on public highways. A cross-country trailer is available on request.

MAST TYPE	TM 128/18-4.2	TM 150/25-5.9
Elevated Height	18m (59ft)	25m (82ft)
Retracted Height	4.2m (14ft)	5.9m (19ft)
Max. Headload Area	1.0m ² (10.7ft ²)	0.8m ² (8.6ft ²)
Number of Sections	5	5
Bottom Section Diameter	128mm (5in)	150mm (6in)
Top Section Diameter	Ø50mm	Ø66mm
Wind Speed Operational	33m/s (74mph)	30m/s (67mph)
Wind Speed Survival	44m/s (98mph)	44m/s (98mph)
Max Vertical Topload	35kg (77lbs)	60kg (132lbs)
Number of guys / levels	4 x 3	3 x 4
Stay Radius	10m (33ft)	8.7m and 12m (28.5 and 39ft)
Weights	Mast 59kg (130kg) Accessories 42kg (92lbs) Trailer + Mast 630kg (1386lbs)	Mast 105kg (231lbs) Accessories 77kg (169lbs) Trailer + Mast 700kg (1540lbs)
Length (Trailer + Mast)	6.7m (22ft)	6.7m (22ft)

Options and Accessories

Antenna directioner

The antenna directioner allows a headload to rotate $\pm 360^\circ$ and tilt up to $\pm 10^\circ$. It is operated by ropes from the ground.

Stay support kit

The stay support kit completes the standard stay accessories included in the mast system (up to 20 m/s) with components for wind speeds up to 30 m/s.

Guy stake ramming equipment

Ramming equipment is used to push the guy stakes into particularly hard ground, eg. asphalt and permafrost.

Rock drilling equipment

The rock drilling equipment is used to drill holes for special rock guy stakes in solid rock or permafrost.