

APPLICATION

The mast is designed to support and quickly erect to an operational height of 10m from the ground an antenna or an antenna system. Mast + trailer assembly is particularly adapted to severe field conditions (sand, dust, ice, heat ...).



GENERAL DESCRIPTION

The MT10-DR is a tubular telescopic mast, made of composite materials sections (Carbon fibers reinforced Epoxy Resin, process of Filament Winding – FW).

The mast is installed on a trailer for fast deployment. The mast, horizontal in transport position, is articulated at its base to allow for tilting to vertical position by means of a hydraulic strut and a manual pump.

The trailer is provided with levelling legs.

Mast sections deployment is performed by a lifting winch integral with mast pillar. This winch drives the mast upward as well as downward. The lifting winch is drawn by an electrical motor, which can be always replaced by an emergency crank. Two batteries, located in a box, allow for at least 10 cycles of deployment / retraction.

The mast is self-supported below a wind speed of 40km/h. Over this limit, the mast is guyed by means of 3 guy cables at 120°, anchored at 10m by double guy stake system. The guy level is controlled from a 3-drums guy winch installed on a strut solid with the trailer. All 3 guy cables are continuously under tension during deployment operation thanks to the guy winch.

At the end of the deployment, guy cables are secured by fast tensioners.

Comrod A/S - Norway

Tel (+47) 51740500 • Fax (+47) 51740501
email: sales@comrod.com

Comrod SAS - France

Tel (+33) 327228550 • Fax (+33) 327228555
email: sales@comrod.fr

Comrod UK - United Kingdom

Tel (+44) 2380302494 • Fax (+44) 2380302195
email: salesuk@comrod.com

MECHANICAL SPECIFICATION

Height (extended)	10 m
Height (retracted)	3.285 m
Total weight (mast + trailer)	1200 kg
Max. headload	100 kg, 1 m ²
Deployment (2 people)	
Self supported	20 minutes
With guys	30 minutes
Guy radius	10 m
Maximum slope	10%
Wind:	
Deployment	40 km/h
Operational	100 km/h
Survival	130 km/h
Pointing Accuracy	±2° (under 98 km/h)
Temperature range:	
Operational	-30° to +50°C
Storage	-40° to +70°C
Humidity	5 to 100%

