



GENERAL DESCRIPTION

The IDTM series of composite telescopic masts are designed and manufactured to meet the demands of today's tactical communications market. S-IDTM series masts are available in heights ranging from 6 to 20 metres capable of supporting headloads up to 60kg*. H-IDTM series masts are available in heights ranging from 6 to 20 metres capable of supporting heavier headloads up to 100kg*.

APPLICATION

The IDTM series of masts are designed for supporting headloads such as line-of-sight (LOS) antennas, omni-directional antennas, electronic warfare (EW) antennas and cameras. Ground mounting kits are available for field deployment together with a range of vehicle and shelter bracket options.

CONSTRUCTION AND OPERATION

The mast sections are constructed using composite material. The S-IDTM uses glass/carbon fibre tubes, the H-IDTM uses carbon fibre tubes. Fittings are manufactured from aluminium and stainless steel. The mast is extended using a manual or motorised winch assembly attached to either a rope or internal belt. The S-IDTM mast tubes are deployed simultaneously, the H-IDTM sections are deployed sequentially (from the bottom) with the largest diameter tube extending first ^Δ. This allows the intermediate guys to be fully tensioned giving maximum stability as the mast is erected.

OPTIONS

- Rotator/tilter
- Motorised winch assembly (AC and DC)
- Lightning arrestor
- Night warning beacon
- LOS dish antennas

* Subject to wind surface area of headload

Δ Some versions deploy non-sequentially. See table for details.



Typical manual winch assembly (S-IDTM)



Motorised winch (option)



4-way guying



Azimuth rotation/alignment

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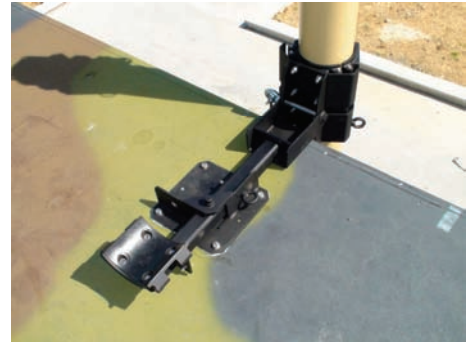
SHELTER MOUNTING OPTIONS



Typical shelter installation



Shelter fixed bracket



Shelter swivel bracket



Mast stowed on shelter roof

VEHICLE MOUNTING OPTIONS



Typical vehicle installation

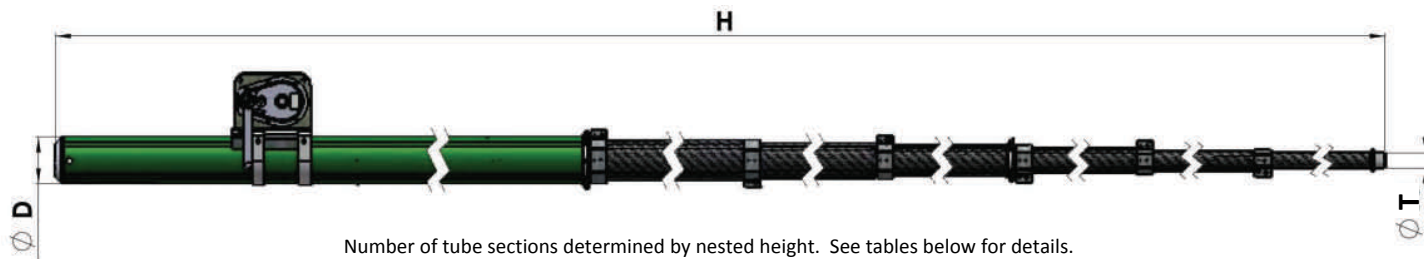


Roof mounted mast



Vehicle bracket

TECHNICAL CHARACTERISTICS



S-IDTM MAST SERIES

MAST TYPE	S-IDTM 6/2/120	S-IDTM 8/2.2/140	S-IDTM 15/3.2/160	S-IDTM 18/4.2/140	S-IDTM 18/3.0/160	S-IDTM 20/3.8/184
Deployed Height (H)	6 m	8 m	15 m	18.0 m	18 m	20 m
Nested length (N)	2.0 m	2.2 m	3.2 m	4.2 m	3.0 m	3.8 m
Base diameter (D)	120 mm	140 mm	160 mm	140 mm	160 mm	184 mm
Top tube diameter (T)	60 mm	60 mm	60 mm	60 mm	40 mm	60 mm
Number of sections	4	5	6	5	7	7
Top Load *	60 kg	60 Kg	60 Kg	60 kg	60 kg	60 Kg

H-IDTM MAST SERIES

MAST TYPE	H-IDTM 6/1.8/120	H-IDTM 8/2.2/140	H-IDTM 15/3.4/160	H-IDTM 18/4.5/140	H-IDTM 18/3.4/160	H-IDTM 20/4.4/184	H-IDTM 24/4.6/184
Deployed Height (H)	6 m	8 m	15 m	18 m	18 m	20 m	24 m
Nested length (N)	1.8 m	2.2 m	3.4 m	4.5 m	3.4 m	4.4 m	4.6 m
Base diameter (D)	120 mm	140 mm	160 mm	140 mm	160 mm	184 mm	184 mm
Top tube diameter (T)	60 mm	60 mm	60 mm	60 mm	60 mm	60 mm	60 mm
Number of sections	4	5	6	5	6	7	7
Top Load *	100 Kg	100 Kg	100 Kg	100 Kg	75 Kg	100 Kg	100 Kg