

Military Masts for Mobility



WIBE

All weather capability

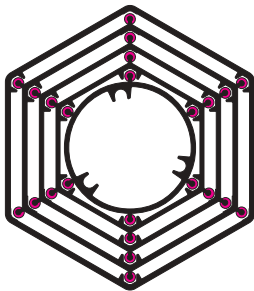
All of Wibe's telescopic mast systems, both military and commercial, feature the unique and proven all-weather design features of space between sections allowing the masts to be raised or lowered with an accretion of ice or sand. It has been proven that the masts perform excellently in arctic and tropical areas as well as in desert environment. In Arctic conditions, heated air can be ducted up the mast which acts like a chimney. As the system is heated the ice is shed. This feature of the WIBE design has been used by the North American and Scandinavian Forces for many years. This is an extremely critical feature, especially when the system is mounted and erected on a prime mover when icing occurs. Benefits experienced in the desert with blowing sand passing harmlessly through the system like rain adds significantly to system reliability.



Aiming retention/stiffness

All of Wibe's telescopic masts are based on the same rugged design. Extruded aluminium alloy sections of progressively smaller size and tracked telescopic action insulated by plastic guides which provide the masts with excellent torsional resistance.

The hoisting cables are protected and run in the free space between the sections. All fixtures – such as: hoisting cables, pulleys and pins are of stainless steel.



The hexagonal sections move inside each other on plastic guideways which provide the mast with excellent torsional resistance.





Assist mechanisms

Modern telescopic mast headload demands are increasing. Larger and heavier antennas, requiring more precise aiming, erected to greater heights by fewer crewmen are trends being experienced.

To effectively and safely meet these increasing demands, WIBE offers a wide variety of mounting brackets and launching mechanisms designed to allow a crew of one or two operators to quickly and safely deploy heavily loaded telescopic mast systems.

WIBE's experienced engineering staff stands ready to tailor our proven transport and operational assist technology to your requirement.



A rugged easy to operate design

Wibe military masts are light-weight, compact and easy to transport and erect with our new family of vehicle mounting accessories. All elements of Wibe mast systems are designed for "gloves-on" operations. A wide variety of accessories are available to tailor the mast system to the specific requirement.

Telescopic Masts for High Demands

Wibe patented telescopic masts are designed to meet the most demanding requirements of modern communication, eg. police and military, where they are used to support various types of antennas.

Every mast detail and stay assembly is designed to resist external forces and to insure quick, safe erection.

Wibe manufactures military masts for a wide range of head loads up to an extended height of 27 m. They are normally hand cranked but can also as an option be electric powered. Wibe's telescopic masts can be rotated 360°.

Wibe is proud of its engineering capability and experience in advanced mast technologies and stands ready to support the customer in formulating mast solutions to his requirements.



Technical Data

Mast Type	TM 100/10-2.4	TM 128/9-2.8	TM 128/10-3.1	TM 128/15-2.9	TM 170/25-4.8
Elevated length over all m (ft)	10 (33)	9 (30)	10 (33)	15 (49)	25.2 (83)
Retracted length over all m (ft)	2.4 (8)	2.8 (9)	3.1 (10)	2.9 (9.5)	4.8 (16)
Max antenna area CxA m ² (ft ²)	0.16 (1.7)	0.6 (6.5)	1.25 (13.5)	0.3 (3.2)	0.8 (8.6)
Weight: Mast kg (lbs)	19 (42)	36 (79)	45 (99)	50(110)	123 (271)
Accessories kg (lbs)	19 (42)	33 (73)	45 (99)	45 (99)	102 (224)
Stay radius m (ft)	5.5 (18)	8 (26)	8 (26)	10 resp. 8 (33 and 26)	8.7 resp. 12 (28 and 39)
Number of sections	5	4	4	6	6
Number of stays x levels	3 x 2	4 x 2	4 x 3	4 x 3	3 x 4
Max wind speed m/s (mph)	36 (80)	42 (94)	35.6 (80)	36 (80)	27.8 (62)
Max vertical topload N (lbf)	120 (27)	300 (67)	500 (112)	200 (45)	400 (90)
Max horizontal topload N (lbf)	130 (29)	660 (148)	560 (126)	250 (56)	
Antenna attachment	Ø 50 x 75	Ø 50 x 75	Ø 50 x 75	Ø 50 x 75	Ø 66 x 100

Hammarlund Reklam 99.11. 5000.03

WIBE
MAST AND TOWER SYSTEMS

Approval and Quality Assurance

Wibe's policy is to offer products that meet international and national standards. We operate quality assurance and quality control systems certified according to ISO 9001.



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