

TekMast™



Mechanically extended tubular sectional light-weight field mast

“TekMast” is a new light-weight tactical field mast, rapid deployable in less than 20 minutes with only 2 operators. Guy ropes and antennas are attached to the mast at ground level resulting in a simultaneous lifting of the antenna as well as the tubular aluminium mast sections in one operation with a mechanical or electrical removable winch.

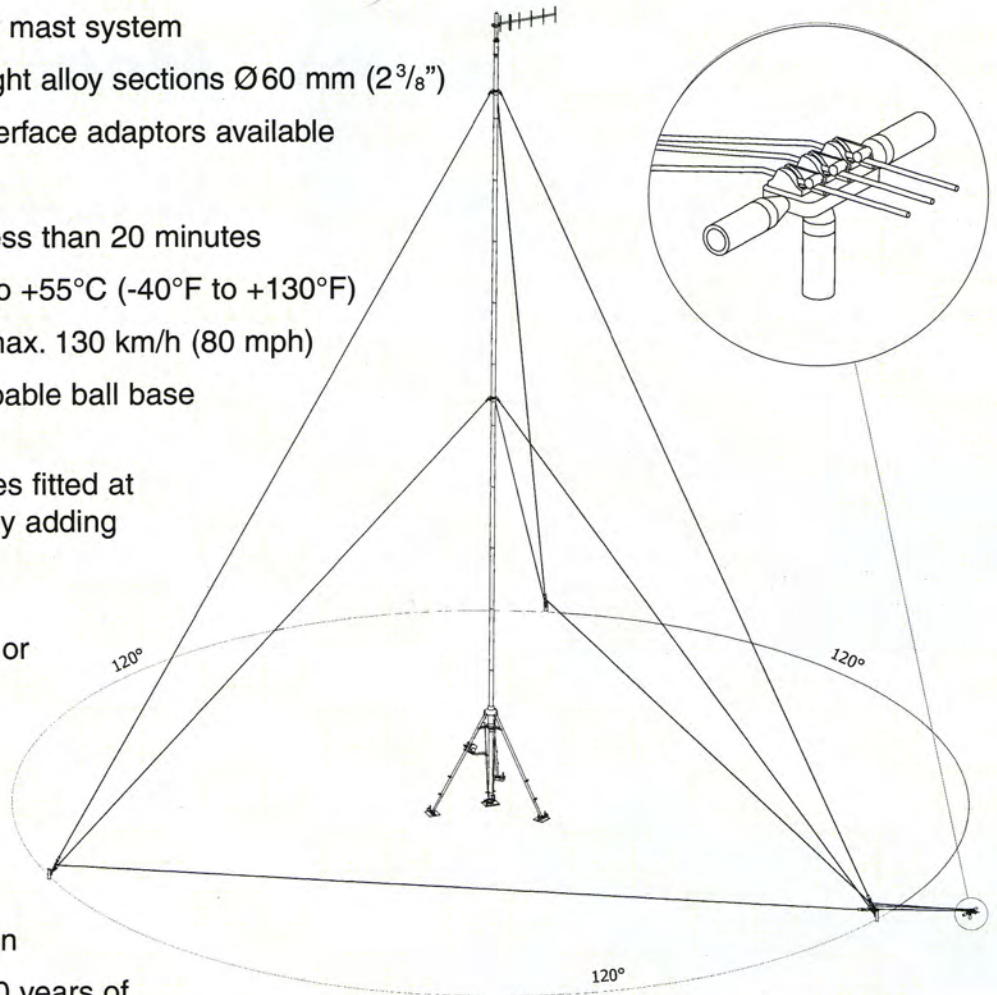
An easy erection communications mast for short period

TekMast™ - Tactical Field Mast

Suitable for antennas from wire HF to highly directional VHF

TekMast™ Characteristics of Standard Mast

- Portable sectional tubular mast system
- Mechanically extended light alloy sections Ø60 mm (2³/₈"")
- Various antenna/mast interface adaptors available
- Number of operators : 2
- Average erection time : less than 20 minutes
- Operating temp. : -40°C to +55°C (-40°F to +130°F)
- Operating wind speed : max. 130 km/h (80 mph)
- Mast rotatable with clampable ball base on the ground
- Antenna and feeder cables fitted at ground level and raised by adding mast sections
- Extension by manual mechanical winch on leg or by optional electrical winch drive device kit
- Mast section torsional play virtually eliminated by accurate tooth/notch joint
- Supporting documentation
- Construction based on 40 years of experience in manufacturing of light-weight mast systems according to military standards
- MIL-STD-810G qualified : high temperature, low temperature, solar radiation, humidity, salt fog, blowing sand and dust, vibration and transit drop



Standard TekMast™ Field Mast Kits (int. patents pending/registered designs)

TekMast Kit Model	Cat. No.	Ext. Height		Number of Sections	Max. vertical Headload		Max. horizontal Headload		Guying Levels	Number of Bags	Total Weight of Mast Kit	
		(m)	(ft)		(kg)	(lb)	(kg)	(lb)			(kg)	(lb)
VMS-6-M	33906	6	20	6	50,0 (**)	110	60,0 (**)	130	1	3	67	150
VMS-8-M	33890	8	25	8	50,0 (**)	110	55,0 (**)	120	2	3	78	170
VMS-10-M	33892	10	33	10	50,0 (**)	110	50,0 (**)	110	2	3	82	180
VMS-12-M	33894	12	39	12	35,0 (**)	75	45,0 (**)	100	2	3	86	190
VMS-15-M	33897	15	49	15	22,5 (**)	50	40,0 (**)	90	3	4	99	220
VMS-18-M	33900	18	59	18	12,5 (*)	25	30,0 (*)	65	3	4	105	230
VMS-21-M	33903	21	69	21	5,0 (*)	10	30,0 (*)	65	4	4	117	260

(*) Maximum wind speed during erection : 30 km/h (20 mph)

(**) Maximum wind speed during erection : 50 km/h (30 mph)

General Description

Tekmast is built around special designed and machined aluminium alloy tube sections, 60 mm ($2\frac{3}{8}$ " diameter by 1 metre (39.37 inch) effective length. These plug into each other with a generous overlap and are finally rotationally locked by tightening a wing nut on the field base plate.

The erection gear consists of a mast guide unit on three folding legs which are fitted with large feet for soft ground. Tube sections are introduced into the mast guide unit from underneath and lifted by a hand cranked winch fitted with automatic brake. A battery powered electrical winch drive device kit is available as an option. Guy collars and antenna are attached to the mast at ground level before erection which results in simultaneous lifting of antenna as well as tubular mast sections in one operation.



A unique manually operated guy control system allows a safe erection/retraction of the mast in a very simple and easy way by a single person, even in windy conditions.

All the equipment is carried in a set of canvas bags. The heaviest individual bag has a weight of approx. 30 kg (65 lb). All materials and finishes are to military standards of quality. Only materials proved to be totally reliable in a military environment are used.

Many features of TekMast are subject to patent applications.

A range of antenna attachments is available on request.



TekMast VMS-12-M Field Mast Kit

TekMast™ - Optional Equipment

TekMast Accessories



24/40/50 mm
Socket Adaptor



Halyard Adaptor



4/6/8 Holes
Nato Top Flange



Round Mast
Top Flange



Square Mast
Top Flange



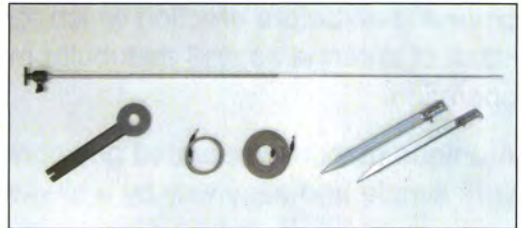
Halyard Rope
Assembly



Side Mounting
Antenna Adaptor



Feeder Cable
Strap



Lightning Protection Kit



Antenna
Tilt Unit (15°)



24/40/50 mm
Antenna Spigot
Flange



Picket
Extractor



Electrical Winch Drive Device Kit
Battery powered, standard foreseen with:
a) 230 Volt AC Charger
b) 12/24 Volt DC Car Charger



NOTE : other accessories are available on request.

The policy of **Clark Masts Teksam** is to use only materials whose long life is assured beyond all doubt. In addition, all products are designed to enable repairs to be carried out using only standard tools. Availability of spare parts is guaranteed.

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All details given in this publication are approximate and may be subject to change without notice.

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