

EX141 Series Telescopic Composite Crank-Up Support Mast

Type EX141

Racal Antennas series of composite telescopic support masts are manufactured by their subsidiary company Mastsystem Int'l Oy.

The EX141 series mast is designed for headloads up to 40 kg with heights available up to 30 meters. Mast sections are made from pultruded composite tubes with aluminium and stainless steel fittings. Masts can be elevated using a manual winch or with an optional electrically operated winch. EX141 masts sections move inside each other on guides which prevent the sections from turning. Once erected the mast can still be rotated by 360 degrees and locked in position. Mounting kits are available for ground, vehicles and shelters, as well as a variety of other ancillary equipment.

Mastsystem Int'l Oy manufactures six main mast product series: TM, TR, TX, EX, EXL and EXB, with masts heights available from three to fifty metres. All masts are designed to meet the demanding requirements of mobile communications systems. Typical applications include defence, emergency services, survey, broadcast and temporary illumination. Every mast is designed and manufactured to operate in environmental extremes such as the arctic, desert and the tropics.



EX128 Mast
Project Parakeet - Australia

STANDARD MAST TYPES	EX141 18-4	EXA141 24-5.7	EXA141 30-5.8	EXA141 30-6.9
P/N, Complete system (Ground Mounted)	303821	304274	300695	302958
P/N, Mast Only	303822	302419	304277	304162
System height with extension tube [m]	18.5	24.5	30.5	30.5
Mast extended height [m]	18.0	24.0	30.0	30.0
Retracted length [m]	4.0	5.7	5.8	6.9
Max. vertical top load [kg]	40	40	30	25
Max. wind area CxA [m2]	1.2	0.9	0.5	0.5
Max. wind speed [m/s]	35	35	35	30
Guy radius [m]	12	16	18	16
Qty of guys x levels	4x3	4x4	4x5	4x4
Qty of sections	6	5	6	5
Mast weight [kg]	48	62	75	75
Accessories weight [kg]	39	60	80	63

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