

GUYED K-MASTS SYSTEM

THE MODULAR K-SYSTEM

consists of square 2 meter high sections. The mast legs and diagonals are solid steel rods of high grade. The side of the sections range from 600 mm to 1050 mm. Tapered sections are used to connect two different section sizes. To support the mast, guy wires are used at multiple levels depending on the height of the mast.

FLEXIBILITY

We have a number of standard green field masts of different heights designed for specific antenna loads and wind speeds. If none of our standard masts suit your needs the masts can of course be built according to your specifications.

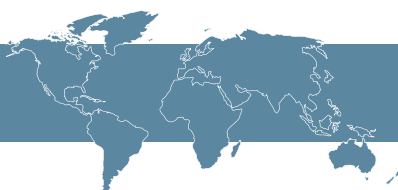
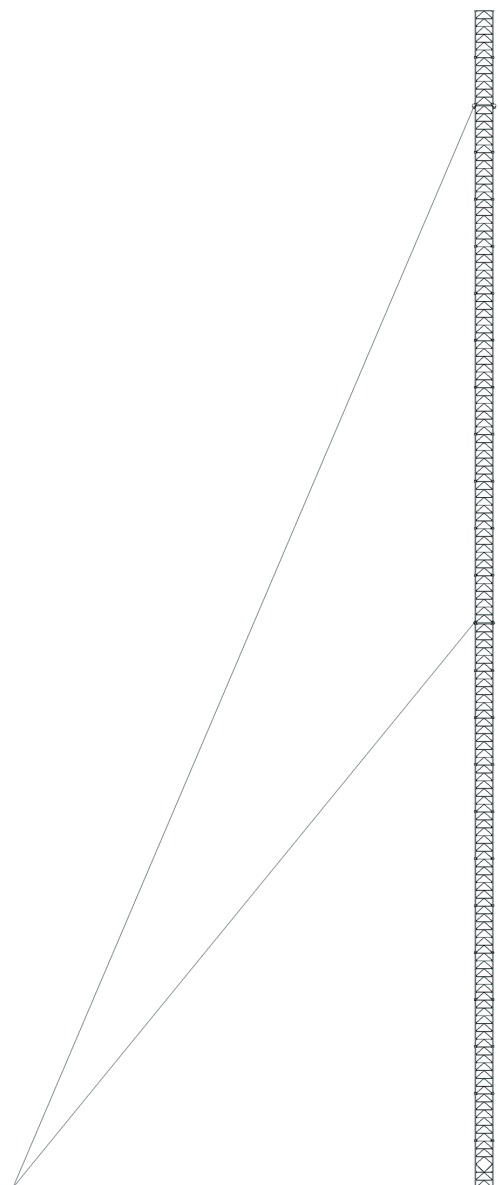
Just let us know what you are looking for and we will design a mast to suit your needs! There is no need for an external ladder since the masts are climbable on the inside and/or outside. The mast is possible to assemble by crane, helicopter or using gin pole.

QUALITY

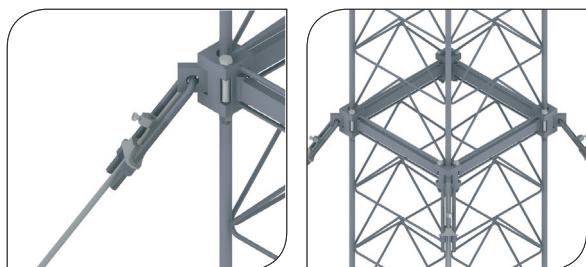
All mast sections are welded and CE-markeed according to EN-1090. The mast sections are made of galvanized steel components. This gives the system excellent corrosion resistance and a long life. All masts are calculated according to the Eurocode standard.

ACCESSORIES

Climbing barriers, lightning rods, booms, top spires, fall arrest system, obstruction lights, brackets, etc. are available on request.



Quality Design



TECHNICAL INFORMATION

GUYED K-MASTS SYSTEM

FUNCTION DESCRIPTION

The modular standard K-system consists of square modules with section width (leg c/c) from 600 mm to 1050 mm, that can be combined into guyed masts of desired height. Tapered sections creates a smooth transition between different sizes of straight modules. All modules, straight and tapered, are 2 meters high.

ORDERING P/N:	K600	K600 STRONG	K900	K1050-50	K1050-60	K1050-70
	1581	4933	1577	5343	5342	
MECHANICAL DATA:						
Section width:	600 mm (23,6 in)	600 mm (23,6 in)	900 mm (29,5 in)	1050 mm (41,4 in)	1050 mm (41,4 in)	1050 mm (41,4 in)
Section height:	2000 mm (78,7 in)	2000 mm (78,7 in)	2000 mm (78,7 in)	2000 mm (78,7 in)	2000 mm (78,7 in)	2000 mm (78,7 in)
Frame leg diameter:	Ø25 mm (0,98 in)	Ø30 mm (1,18 in)	Ø35 mm (1,37 in)	Ø50 mm (1,97 in)	Ø60 mm (2,4 in)	Ø70 mm (2,8 in)
Weight/section: (kg)	70 kg (154 lbs)	75,4 kg (166 lbs)	140 kg (309 lbs)	300 kg (661 lbs)	312 kg (688 lbs)	425 kg (937 lbs)
PERFORMANCE:						
Bending resistance (kN)	108	208	335	721	1133	1631
Shear resistance (kN)	21	21	42	37	83	179
Compression resistance	511	981	1158	1942	3054	4393
Wind drag (m ² /m)	0,18	0,235	0,33	0,35	0,40	0,45

Material: Hot Dip Galvanized steel
 Climbable: In and Outside
 Foundation: Concrete / rock

ANALYSES PERFORMED ACCORDING TO:

EN 1993-1-1 Eurocode 3: Design of steel structures – Part 1-1: General rules and rules for buildings
 EN 1993-1-8 Eurocode 3: Design of steel structures – Part 1-8: Design of joints
 EN 1993-3-1 Eurocode 3: Design of steel structures – Part 3-1: Towers, masts and chimneys – Towers and masts

NOTE! Please contact our sales or design department for configuration and optimizing of your K-mast system.

The verification is carried out in accordance with relevant parts of:

- EN 755-9:2008 Aluminium and aluminium alloys-Extruded rod/bars, tube and profiles
- EN 1999-1-1:2007 Eurocode 9: Design of aluminium structures – Part 1-1: General structural rules
- EN 1999-1-3:2007 Eurocode9: Design of aluminium structures – Part 1-3: Structures susceptible to fatigue
- EN 1991-1-4:2005 Eurocode1: Actions on structures – Part 1-4: General actions – Wind action

Compliance to ROHS 2 directives 2011/65/EU



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