

60 & 70 m HiMast

Your "Next Day Wind Mast"

We maintain availability of stock of all tubular masts and can offer a "next day" installation anywhere throughout Romania and Bulgaria and some other countries of South East Europe.

Reaching new heights

The lightweight mast tubes are constructed by winding steel in a spiralling technique, increasing the structure's stability and strenght whilst reducing the vibrations which can pose serios problems for traditional tall towers.

All masts in the HiMast series are specifically designed for remote monitoring and have been extensively tested for high wind conditions of up to 150 mph.

The HiMast's lightweight components make it possible to transport in easy to carry sections, without the need for heavy vehichles.

Fast installation times prove a great advantage in adverse conditions and with delivery right to your door we make your job as easy as possible.



Only Footprints

Once installed, the HiMast enables accurate wind monitoring with minimal visual impact. Depending on soil structure minimum or no concrete is needed for installation. The HiMast can be easily lowered and removed without trace, leaving only footprints at the end of the project.

Down-to-earth

The HiMast is assembled at ground level, so there's no need for specialist equipment for working at heights. All the instruments you need can be fitted and tested prior to erecting the mast.

And it's just as easy to install. Only a hand wich is required to tilt the HiMast skywards. The main mast is pulled vertical using a ginpole, hinged at the baseplate by a heavily reinforced pivot.

All himasts are designed for easy transportation and installation. They are lightweight and simple to erect and remove.



60 & 70 m HiMast

Design Specification

Technical Specification

MAST	60 m	70 m
Mast Height	60.2 m nominal +0.1/-0.2 m	70.2 m nominal +0.1/-0.2 m
Guy Wire	7 guy sets, each with 4 guys 7/19, 6 mm RHRL galvanised wire	7 guy sets, each with 4 guys 7/19, 6 mm RHRL galvanised wire
Grips	DIN 1142, tightening torque of 3,5 Nm	DIN 1142, tightening torque of 3,5 Nm
Tubing Standards	150 mm and 220 mm tubing to EN 10219-2	150 mm and 220 mm tubing to EN 10219-2
Galvanising Standards	Hot-dip BS EN1461:1999	Hot-dip BS EN1461:1999
Tube Lengths	3000 mm (28 kg, 40 kg) and 1500 mm (14 kg)	3000 mm (28 kg, 40 kg)
Tube OD	Approx 155 mm and 225 mm	Approx 155 mm and 225 mm

GINPOLE

The mast is erected using a pivotal ginpole, which is itself erected by a fixed mini-ginpole. The main ginpole is fitted with restraining wires which enable the winching point to be sited at a convenient location.

Ginpole Length	15 m +/-0.1 m	15 m +/-0.1 m
Mini Ginpole	3 m	3 m

Wind loading capabilities

Designed to meet the structural integrity standard BS5950: 1990 for IEC Wind Class One site conditions.

Mast Base	(10 m) 54 m/sec (120mph)	(10 m) 49 m/sec (109 mph)
Mast Top	(60 m) 70 m/sec (156mph)	(70 m) 63 m/sec (141 mph)

Icing conditions

The Class One HiMast meets BS5950 standards in the following wind and ice conditions; 6.35m ice cover evenly over the mast and guys

Mast Base	(10 m) 33 m/sec (74 mph)	(10 m) 29 m/sec (65 mph)
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During no wind these masts can withstand up to 37 mm all-over ice.

Anchor loads & positioning

There could be problems when trying to accurately position the anchors if the site has not been visited and assessed before installation. We supply sufficient guy wire to enable the lower guy sets anchored at the specified radius or any intermediate to 45m if the site conditions require it. A reasonably level site is assumed when determining guy wire length.

Inner Anchor Load	Sets 1, 2 & 3: 1900 kg	Sets 1, 2 & 3 at 25 m: 1800 kg
Inner Anchor Radius	35 m	38 m
Outer Anchor Load	Sets 4, 5, 6 & 7: 4600 kg	Sets 4, 5, 6 & 7: 3500 kg
Outer Anchor Radius	42 m	45 m
Baseplate Load	12,000 kg	12,000 kg
Lifting Anchor Load	3,200 kg (bare mast)	3,800 kg (bare mast)

Crate dimensions & weights

Mast Crate	311 cm x 99 cm x 104 cm, 1321 kg + 1 x pallet 110 cm x 83 cm x 74 cm, 130 kg	311 cm x 99 cm x 104 cm, 1321 kg + 1 x pallet 110 cm x 83 cm x 74 cm, 130 kg
Erection Kit Crate	311 cm x 99 cm x 65 cm, 475 kg	311 cm x 99 cm x 65 cm, 475 kg