Parabolic antenna JRMC-900-23

www.jirous.com

Antenna JRMC-900-23 is designed for microwave links at the frequency band 23 GHz. Precise performance with deep reflector dish complies with standard ETSI class 3 and FCC Cat A.

Electrical parameters:

Frequency range	21.2 – 23.6 GHz
Gain – Low frequency	43.2 ± 1 dBi
Gain – High frequency	43.9 ± 1 dBi
Front to back ratio	≥ 68dB
Beamwidth – 3 dB	1.1 ± 0.1°
Return Loss	≥ 18 dB
Polarization	Dual Linear, vertical/horizontal
Electrical Compliance	**Class 3** ETSI EN 302-217-4-2 **Cat A** FCC 47 CFR 101.115

Mechanical parameters:

Parabola	Ø 900 mm , aluminium alloy
Radome	UV steady plastic ABS
Input / output	Circular waveguide Ø 9 mm
Installation for mast	Ø 40 – 120 mm
Operating wind load	140 km/h (87 mph)
Survival wind load	210 km/h (130 mph)
Weight of antenna **of holder**	8.2 kg (18.1 lbs.) 3.2 kg (7.1 lbs.)
Shipping dimensions	1000 x 990 x 430 mm / 18 kg (39.7 lbs.)

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Usage:

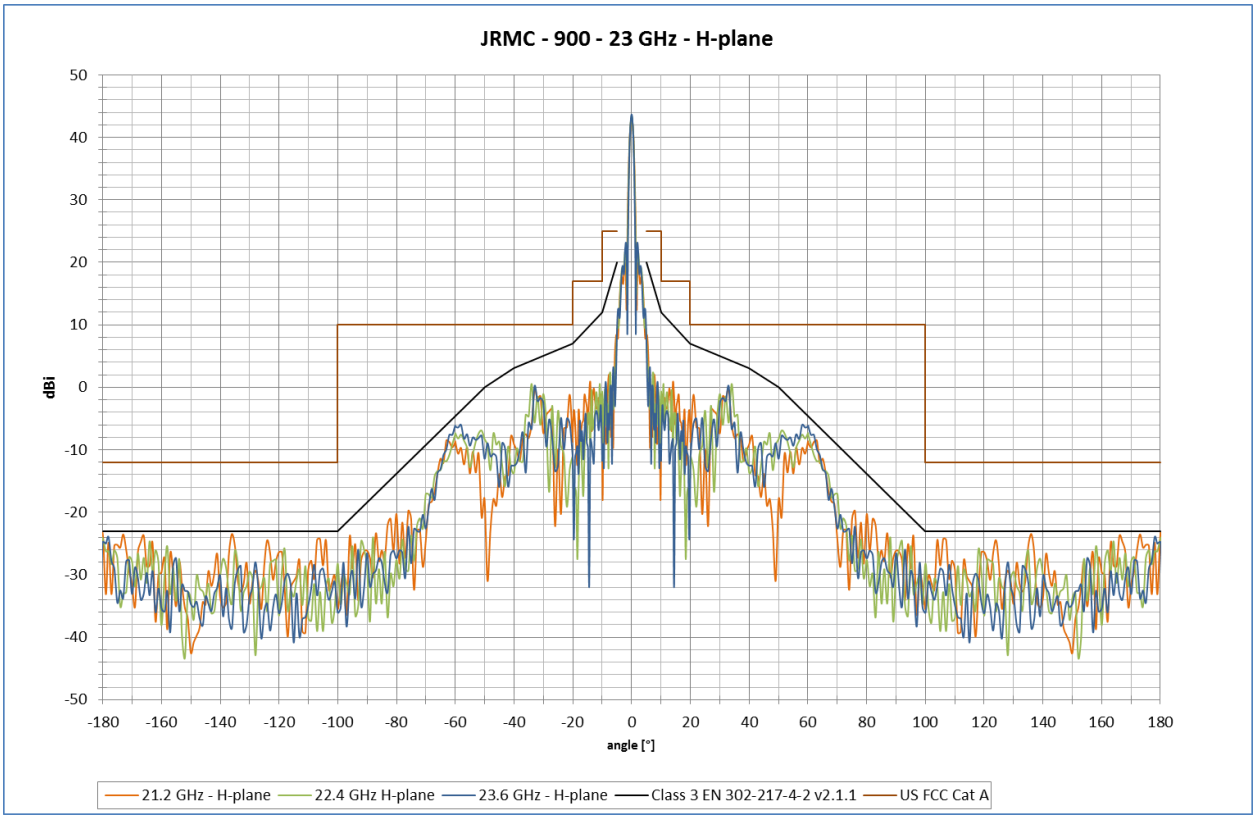
- deep parabola for better parameters
- **easy to assembly:** first the holder and then the antenna only by 2 screws
- **fine setting** elevation (of gradient) and azimuth ± 20°
- extreme wind stability

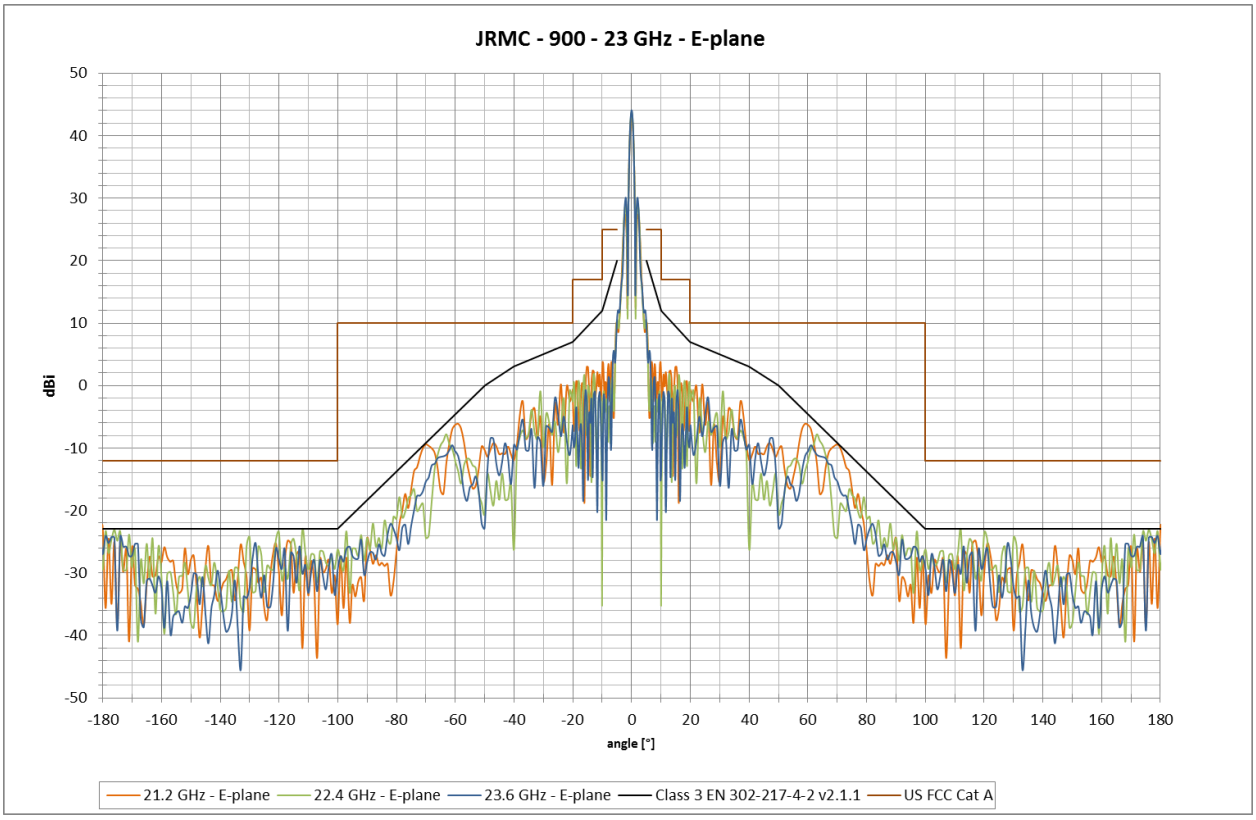
The antenna is supplied with a holder that allows easy mounting on a mast. The holder can be installed separately on the mast. Subsequently, you can simply hang up the antenna with microwave unit into it. The holder allows precise adjustment in both directions. Ready for right and left side mounting.

In the areas with the expected occurrence of the strong winds mounting on the mast with minimal ø 70 mm is recommended.

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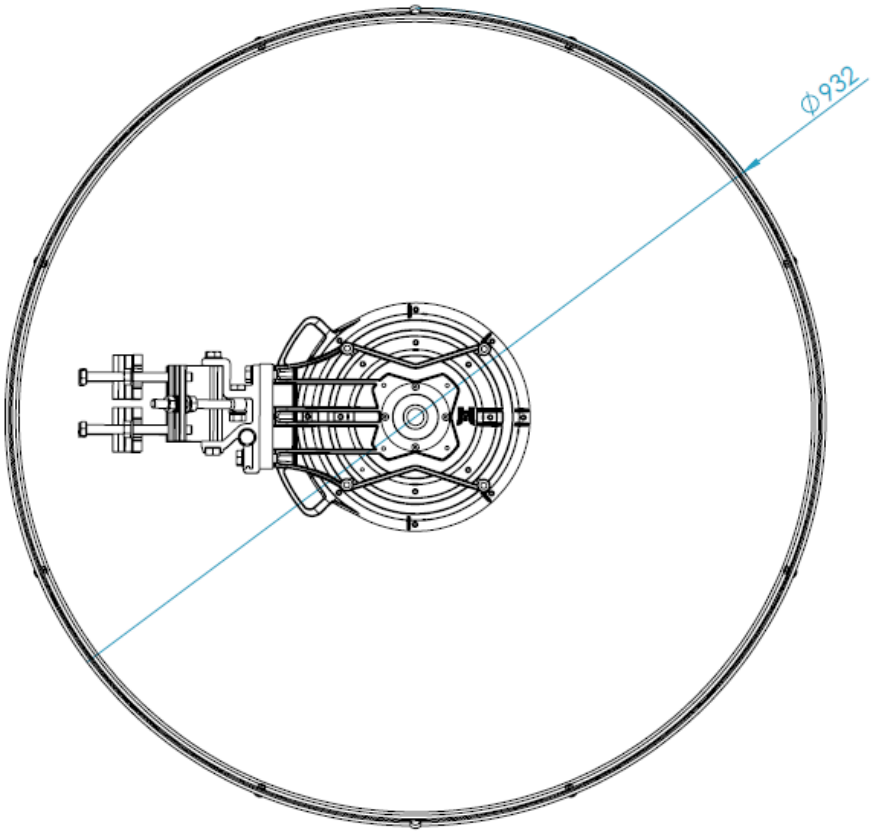
Measurement of radiation pattern:

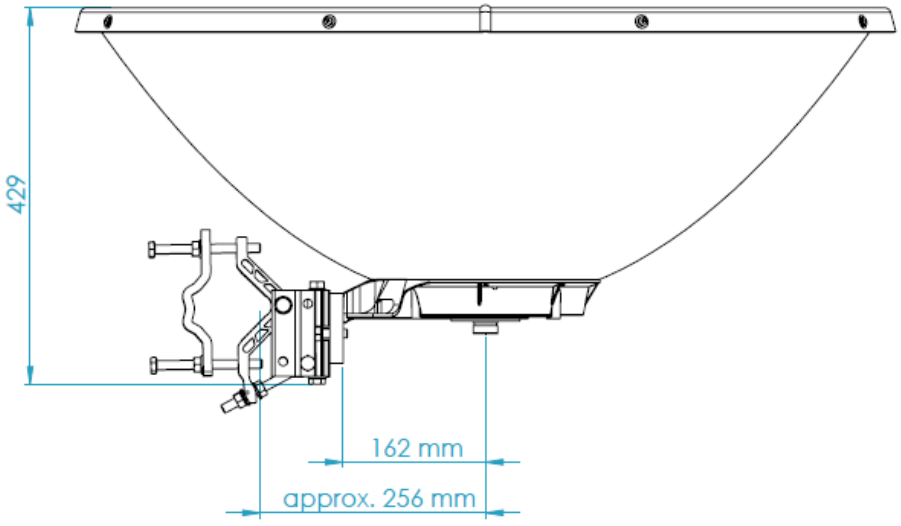




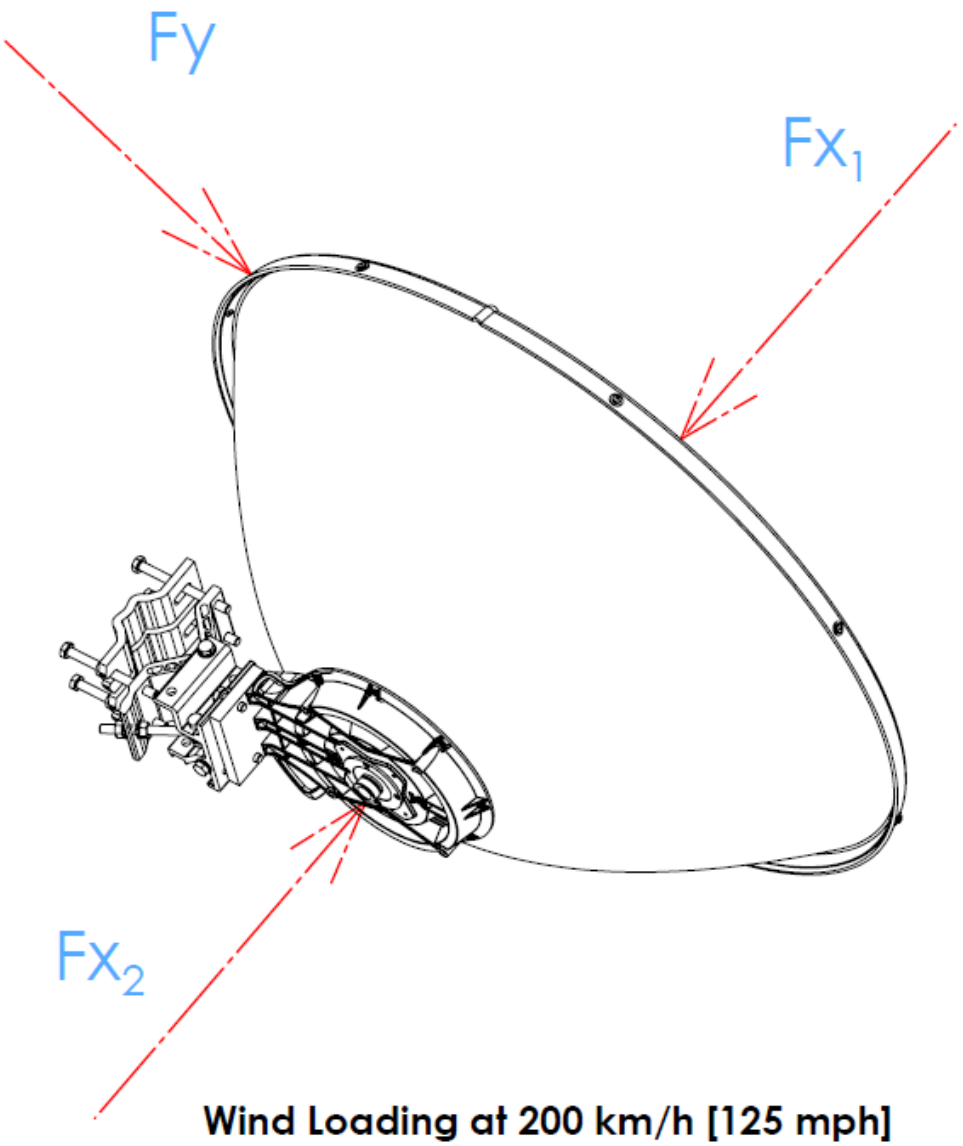
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Outline:





Wind loading:



Wind Loading at 200 km/h [125 mph]

Direction	Force [N]	Force [lbf]
Fx_1	1443	324,4
Fx_2	1324	297,4
Fy	91	20,4