

## Description

**BO 400 omnidirectional base antenna** is designed for mobile and data radio networks.

Antenna is mounted to different diameters of masts by separately ordered antenna holders. Antenna holders are made of stainless or hot-dip zinc steel. They are fastened to the masts by stainless U-bolts and nuts. Antenna can be mounted to any position on the mast.

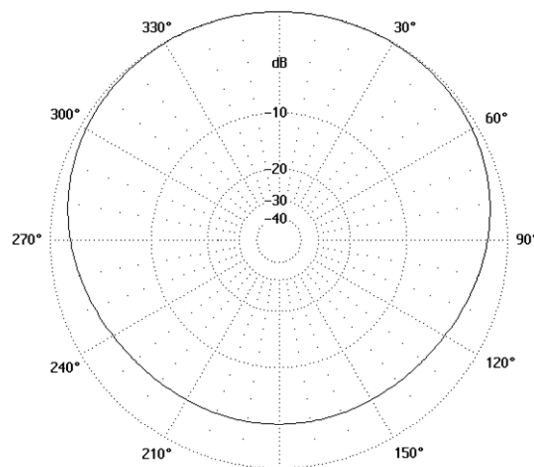
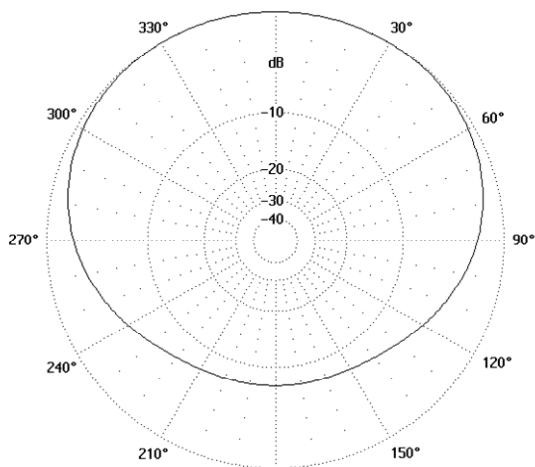
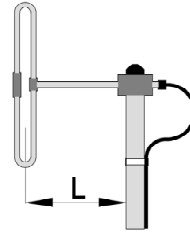
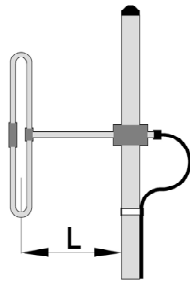
Influence of mast to radiation pattern is obvious from enclosed diagrams.

## Technical Specifications

Type	<b>BO 400</b>	
Frequency range	MHz	400 ÷ 470
Gain in front / back direction *	dBi	4.7 / -3.3
Gain in side direction (90°, 270°) **	dBi	4.6
Radiation pattern (at * / **)	offset (omnidirectional with shift axis) / elliptic	
Polarization	vertical	
Impedance	Ω	50
VSWR	< 1.5	
Maximum input power	W	200
Grounding	all metal parts of antenna including mounting kit are DC grounded	
Material of antenna	lacquered aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCAK 400 43 – Ø 35 ÷ 76 (standard)
		RCAK 400 53 – Ø 60 ÷ 90
		RCK 100 000 – Ø 90 ÷ 120
Material of holder	aluminium alloy, hot-dip zinc steel; all screws and nuts: stainless steel	
Weight of antenna / holder	kg	0.7 / 0.5
Maximum wind velocity	km/h	160
Wind load (at 160 km/h)	N	30
Dimensions l × h	mm	580 × 310
Connector type	N female	

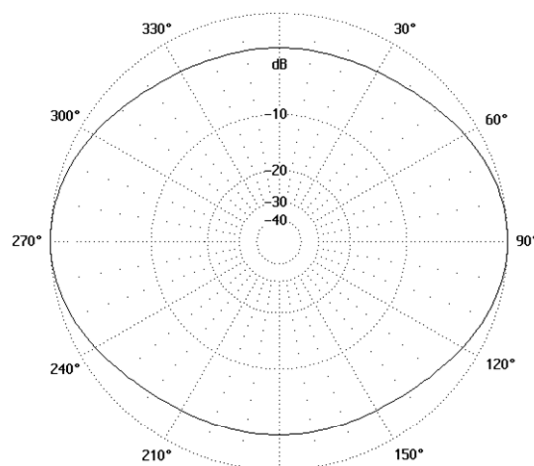
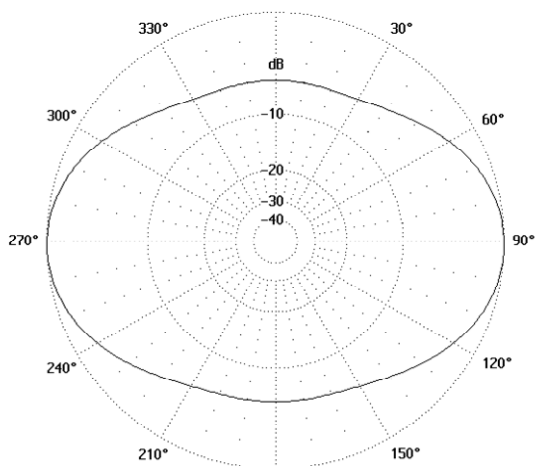
\* Distance (L) from the mast  $\lambda/4$  (~ 165 mm)

\*\* Distance (L) from the mast  $\lambda/2$  (~ 330 mm)



Radiation pattern – H plane  
Antenna is mounted **in the middle of the mast**,  
frequency 455 MHz,  $L = (\lambda/4)$  165 mm \*

Radiation pattern – H plane  
Antenna is mounted **on the top of the mast**,  
frequency 455 MHz,  $L = (\lambda/4)$  165 mm \*



Radiation pattern – H plane  
Antenna is mounted **in the middle of the mast**,  
frequency 455 MHz,  $L = (\lambda/2)$  330 mm \*\*

Radiation pattern – H plane  
Antenna is mounted **on the top of the mast**,  
frequency 455 MHz,  $L = (\lambda/2)$  330 mm \*\*