Magnetic Base for Mobile Antennas

DESCRIPTION

- Heavy-duty magnetic mount with toggle joint.
- Provided with FME connecting system (FME-cable must be ordered separately).
- Can be used at: 27 - 400 MHz using standard whips and at: 400 - 470 MHz using specially accommodated whips.
- Extraordinarily high attaching power: takes up to 1.6 m long whips.
- Silicone layer on contact surface protects the car roof and ensures maximum friction.
- Whips are fixed on the mount using a “hat”-screw which is supplied with the mounttogether with a special fastening key.

ORDERING DESIGNATION

TYPE	PRODUCT NO.
MG-Mount	130000345
BMG-Mount	130000349

ORDERING	
Generally:	Order this magnetic base by simply asking for MG. (FME-cable and FME-connector are ordered separately).
Complete antennas within 27 – 400 MHz:	The whip and the MG are ordered separately. All whips available in normal Z-mount version also fit the MG. Whips are tuned with an SWR-meter using the Z-version cutting diagrams as a guide.
Complete antennas within 400 – 470 MHz:	The whip and the MG-Mount are ordered together by coding MG-Mount into the antenna designation as e.g. MU 4-MG/h. Please consult the Z-mount leaflet for the particular whip type in question to check if the whip is available with MG-Mount.

FME-SYSTEM ACCESSORIES

FME-CABLES	PRODUCT NO.
1 m FME	130000437
2 m FME	130000447
3 m FME	130000457
4 m FME	130000466
5 m FME	130000474
6 m FME	130000483
4 m FME-white	110000064
6 m FME-white	110000066
12 m FME-white	110000068
18 m FME-white	110000069

SPECIFICATIONS

Electrical	
Frequency	27 - 400 MHz using standard whips 400 - 470 MHz using special -MG--whips
Application	Magnetic mount for toggle-joint type mobile antenna whips. With "hat"-screw and key

Mechanical	
Connection(s)	FME system
Materials	Stainless steel Bright or black chromed brass Environment-proof plastics
Dimensions	Total height: Approx. 64 mm. Diameter: 130 mm.
Whip Connection	Toggle joint (Hat screw with key)
Weight	0.9 kg / 1.98 lb
Mounting	Centre of vehicle roof for best omnidirectionalcoverage
Maximum Car Speed	Depending on whip height. See curve below

FME-CONNECTORS

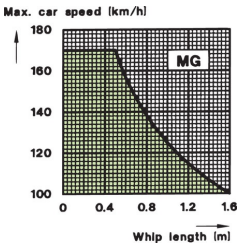
TYPE	PRODUCT NO.
FME-FME	130000583
FME-P Prolongation	130000565
FME-N	130000571
FME-FSMA (Female-SMA)	130000578
FME-BNC	130000566
FME.TNC	130000569
FME-UHF	130000572
FME-MUHF (Mini-UHF)	130000573
FME-EMUHF (Elbow-MUHF)	130000582
FME-EBNC (Elbow-BNC)	130000580
FME-ETNC (Elbow-TNC)	130000581
FME-SMA	130000577

For further information about other types of FME-cables please compare the cable data sheets under accessories in our catalogue.

USING THE MG-MOUNT

This magnetic mount is used to make an occasional antenna installation where it is not desirable to drill holes in the mobileunit.
A magnetic mount antenna can advantageously serve several mobile units by shifting it from one unit to another.
The MG is provided with a large-diameter, thoroughly magnetized permanent ring magnet positioned in a carefully shapedmagnetic circuit which yields an extraordinarily high attaching effect.
The further extension of the supporting surface beyondthe magnet area makes this mount stand for astounding values of bending moment and mechanical shock.
The low profile of the MG ensures low wind load.
A silicone layer applied to the whole contact surface protects the car roof and ensures maximum friction.
The magnetic mount cannot be used together with the usual wing screw normally employed when fastening mobile whips. Onthe MG the whip is mounted by means of a special “hat”-screw which together with a special fastening key is always suppliedtogether with the mount.

CURVE



INSTALLATION

The magnetic mount should be mounted in the middle of the vehicle roof or rear locker to produce best omnidirectional coverage.

TUNING

TUNING	
Below 400 MHz	Use the cutting diagram for the corresponding Z-mount model using the same type of whip as a guide while using an SWR-meter to tune the whip.
Above 400 MHz	Whips tuned by cutting: Use an SWR-meter. Whips tuned with disc: Adjustment diagram accompanies the antenna.