



MCS58 - HEAVY DUTY

- Barrier resistant to freezing weather, strong winds and other extreme weather conditions
- Without slip clutch
- No tension cables required
- More powerful motor with duplex chain
- Mechanically loadable weight: 10kg at end of barrier arm in closed position*
- Reinforced barrier arm holder
- Opening speed: 10 sec.

PARTS

Barrier box

- Dimension: 450 W x 440 D x 1100 H
- Parts: folded and welded steel plate (3mm) with internal reinforcement (up to 12mm), an access door, a removable cover and a base plate (6mm)
- Removable cover runs diagonally upwards to the center
- Pivot points are mounted with bearings and tension ring mounts

Barrier arm

- Round aluminium tube (120 Ø) with a plug at both ends up to 7500 mm
- Round aluminium tube (variable Ø) with a cover cap at both ends from 7600mm to 8500mm
- Red reflective strips (330 x 90 mm) are applied to both sides
- Balanced by a wear-resistant compression spring (> 3.000.000 movements)
- 1 type:
 - Type C = centrally mounted barrier arm
- Secured by 9 stainless steel bolts which makes the barrier arm easy to replace for extra stability

FINISHING

- Surface treatment: blasted and metallized
- Finished off with a thermo-hardened polyester coating

OPENING

- Type N (normal): 10 sec (min. 8,5 - max. 12 sec)

SAFETY

Emergency release accessible via access door in front of column. When the door is opened, the safety interrupter prevents that the barrier moves automatically.

Emergency crank (optional)

When the emergency crank is used, the current is automatically interrupted by a limit switch that is in contact with the motor gearbox. To use the emergency crank, swivel the cover on the right side of the barrier box.

MECHANISM

Drive

Single bearing intermediate shaft (45mm) is driven by a single-phase gear motor using a crankshaft-connecting rod mechanism to the single bearing output shaft (35mm). This mechanism ensures a fluent movement when opening or closing and is locked in both end positions.

Durability

Slip action clutch in the gear unit ensures a safe ratio between the torque exerted and the torque required. By combining the favourable power factor (1,2) and this clutch, the gear unit is maintenance-free.

Control system

The built-in microcontroller is suitable for various applications (such as 3-push button, change pulse, start with automatic reclosing, loop start, ...) and is provided with a magnetic motor protection switch. This control prevents prolonged slipping and ensures a long service life of the motor. The microcontroller can be connected to other building management or home automation systems with associated software.

Operating temperature

The MCS58 Heavy duty has an operating temperature of -5°C to 50°C. Optional: The thermometer of the heating mat is set to maintain a temperature of >0°C. As a result the temperature of the engine and oil always above freezing. The operating temperature is -30°C to 50°C.

Operation without slip clutch

The MCS-Heavy duty range was designed without a slipping clutch to maintain a constant opening and closing speed under high bending stress in open or closed position (e.g. during heavy snowfall, buildup of frost on the barrier arm, strong winds, gusts or sudden change of wind direction). The MCS-Heavy duty range can be equipped with a slip clutch if desired.

*Max. length of barrier arm 6000mm. For more information see table section "Technical drawings".

TECHNICAL INFORMATION



1 Reinforced boom barrier holder	
2 Door switch	
3 Upper shaft	
4 Control + motor capacitor	FEIG-WU-A-BOR
Power supply	3F 230 VAC/400VAC
Frequency	50 Hz
Power usage	30 Watt
5 Motor gearbox without slip clutch	
Power supply	230 VAC
Frequency	50 Hz
Power usage	550 Watt
Cosinus Phi	0.94
6 Connecting rod	
7 Terminal strip	
8 Balance spring	Max. 2
9 Heating mat	Optional
10 Limit switches	
11 Bottom shaft	
12 Duplex chain	

Position of the barrier arm

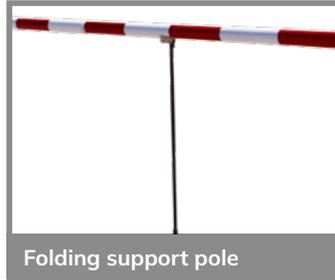


Central

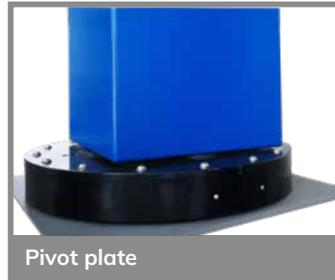
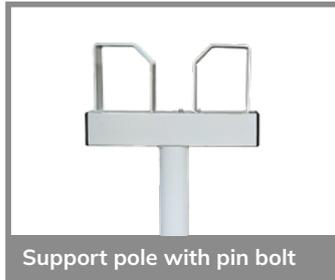
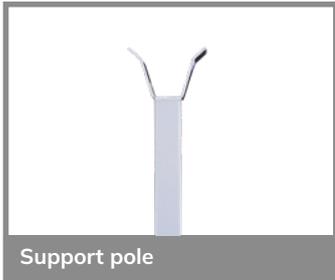
Dimensions barrier box	450 x 440 x 1100mm (WxDxH)
Parts barrier box	Folded and welded steel plate (3mm) with internal reinforcement (up to 12mm), access door,removable lid, base plate (6mm)
Ø boom barrier arm	
Up to 7500mm	Ø 120
From 7608mm to 8500mm	Variable
Opening speed	10 sec (min. 8,5 sec - max. 12 sec)
Control	Relay control
Operating temperature	-5°C to 50°C
Options	
Frequency control	
Potential-free contact of the limit switches in the clamping strip	
Maritime coating	
Stainless steel	

ACCESSORIES

Barrier arm



General





**/ YOUR SAFE PARTNER
IN ACCESS**

info@bambormet.be

+32 11 31 26 56

Ambachtstraat 1137,
B-3850 Nieuwerkerken
Belgium

bambormet.be