



## MCS58

- Reach: 2m to 10m20
- Built-in wear-resistant compression spring:  
> 3.000.000 movements
- Adjustable movement speed
- Master/slave
- Up to 5 year warranty
- Custom-made and delivered ready for installation

### 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 removeable 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 (Ø 90mm) with a plug at both ends or oval barrier arm (175 x 100mm)
- Red reflective strips (330 x 90 mm) are applied to both sides
- Balanced by a wear-resistant compression spring (> 3.000.000 movements)
- 3 types:
  - Type R = right-hand mounted barrier arm
  - Type L = left-hand mounted barrier arm
  - Type C = centrally mounted barrier arm
- Secured by 4 (R, L) or 3 (C) stainless steel bolts which makes the barrier arm easy to replace

### Finishing

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

### Opening

- Type S (fast): 4,2 sec (max. barrier arm length = 4000mm)
- Type N (normal): 6,9 sec (max. barrier arm length = 6000mm)
- Type T (slow): 8,2 sec (max. barrier arm length = 10000mm)

### Safety

Emergency release accessible through the access door at the front of the barrier box. When the door is opened, a circuit breaker prevents the barrier from opening automatically. The barrier can be opened manually using the emergency crank (found on the connecting rod).

#### 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 (45mm). 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

Built-in FEIG WU-A-BOR frequency drive microcontroller is suitable for a wide range of applications (such as 3-push button, switch pulse, start with automatic closing, loop start,...) and is supplied with a magnetic motor safety switch. This control system prevents slipping in the slip-action clutch, which makes it maintenance-free.

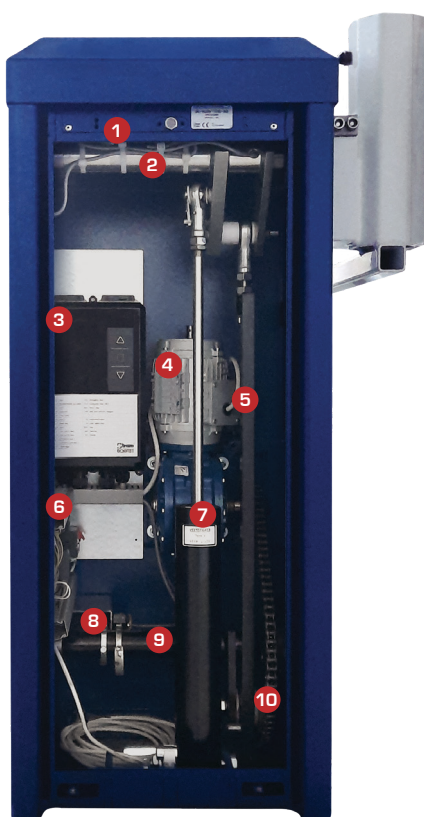
Microcontroller can be connected to and managed by other home management or domotic systems with additional communication software.

#### Operating temperature

The MCS58 has an operating temperature of -5°C to 50°C. With the optional heating mat, the operating temperature increases to -30°C to 50°C.

Your safe partner in access

## Technical information en accessories



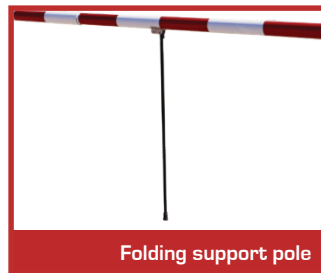
<b>1 Door switch</b>	
<b>2 Upper shaft</b>	
<b>3 Control + motor capacitor</b>	FEIG-WU-A-BOR
Power supply	230 VAC
Frequency	50 Hz
Power usage	30 Watt
<b>4 Motor gearbox with internal slip clutch</b>	
Pwer supply	230 VAC
Frequency	50 Hz
Power usage	370 Watt
Cosinus Phi	0.94
<b>5 Connecting rod</b>	
<b>6 Terminal strip</b>	
<b>7 Balance spring</b>	Max. 2
<b>8 Limit switches</b>	
<b>9 Bottom shaft</b>	
<b>10 Simplex chain</b>	

Position of the barrier arm

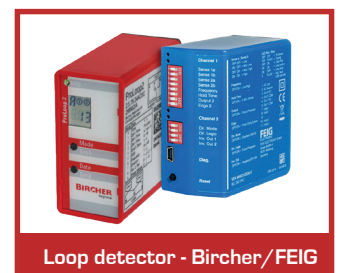
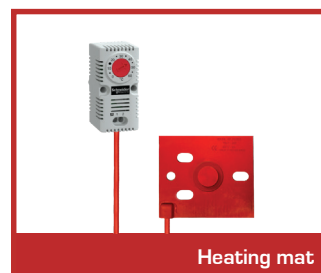
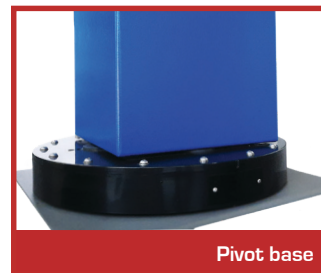
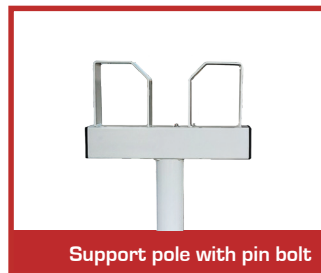


<b>Dimensions barrier box</b>	450 x 440 x 1100mm (WxDxH)
<b>Parts barrier box</b>	Folded and welded steel plate (3mm) with internal reinforcement up to 12mm, access door, removable lid, base plate (6mm)
<b>Ø boom barrier arm</b>	90mm
<b>Opening speed</b>	<i>*without options</i>
Type F	4,2 sec (max. barrier arm length= 4000mm)
Type N	6,9 sec (max. barrier arm length= 6000mm)
Type S	8,2 sec (max. barrier arm length= 10000mm)
<b>Control</b>	Relay control
<b>Operating temperature</b>	-5°C to 50°C
<b>Options</b>	
Frequency control	
Emergency crank	
Potential-free contact of the limit switches in the clamping strip	
Maritime coating	
Stainless steel	
Bottom skirt	To 7000mm
(opening speed type S)	
Top and bottom skirt	To 6000mm
(opening speed type S)	

Accessories - barrier arm

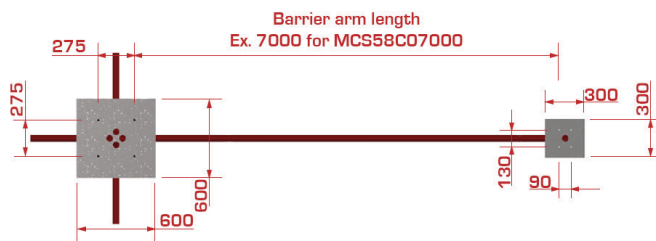
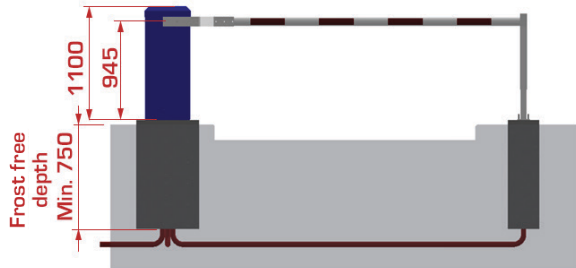


Accessories - general

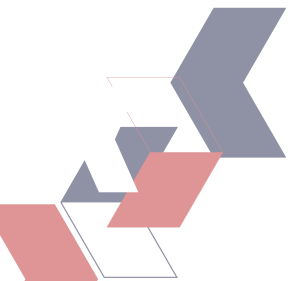
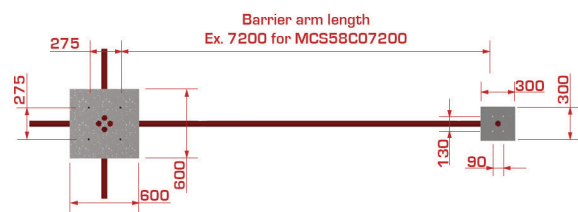
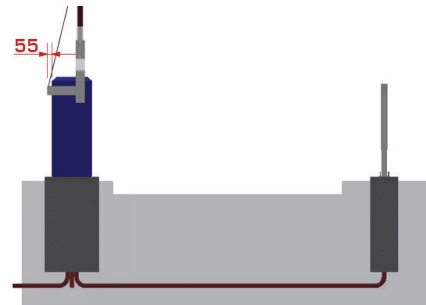
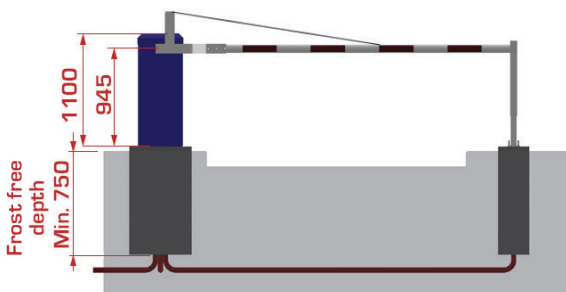


## Technical drawings

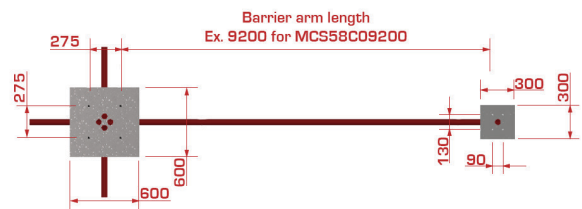
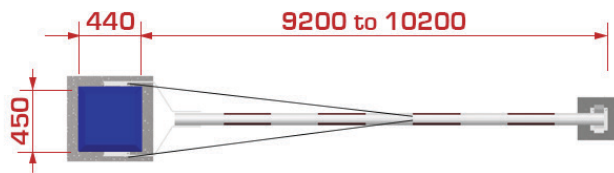
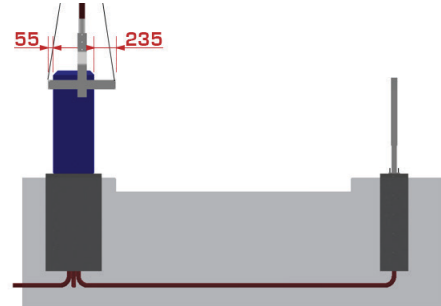
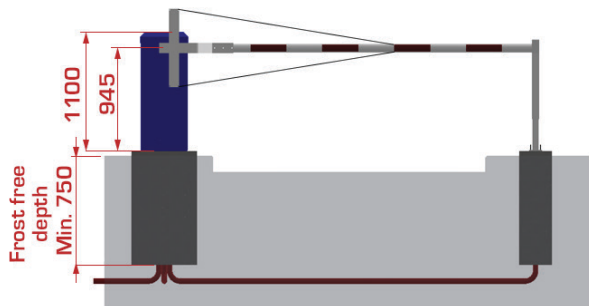
*MCS58 - central mounted barrier arm*



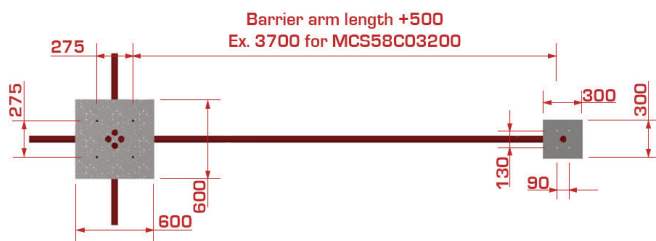
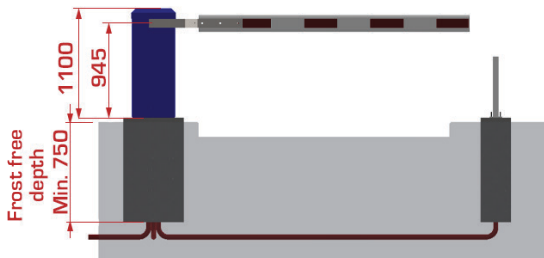
*MCS58 - with tension cables on top*



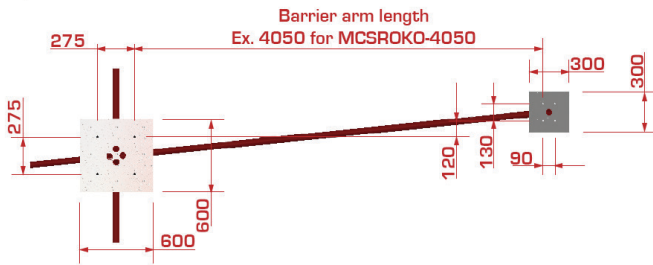
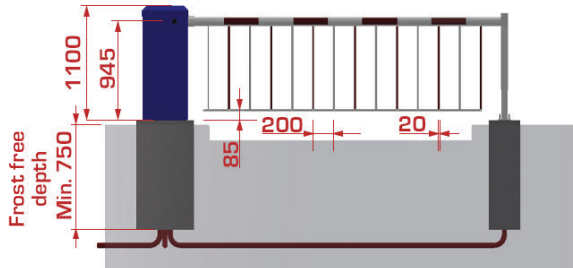
MCS58 - with tension cables on top and below



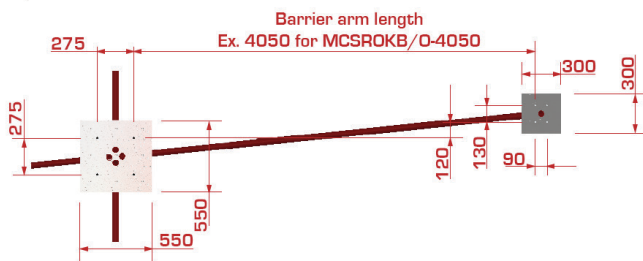
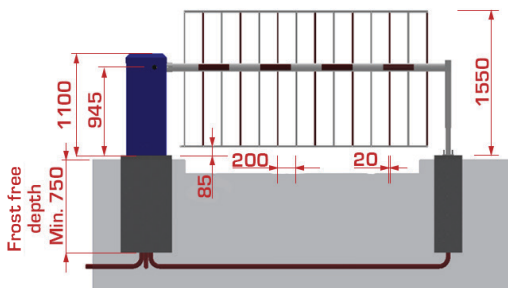
MCS58 - oval arm (175 x 100mm)



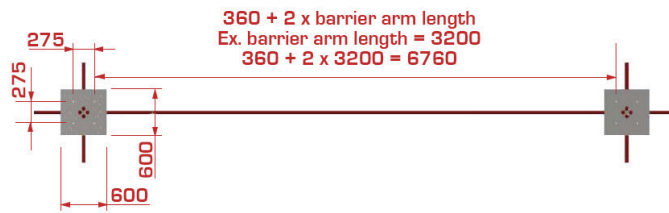
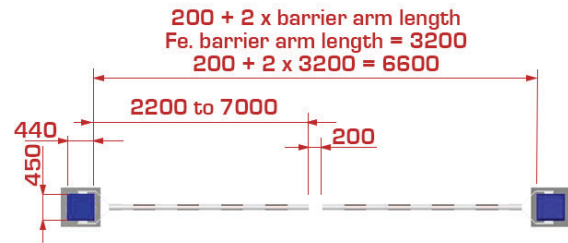
MCS58 - with bottom skirt



MCS58 - with top and bottom skirt



MCS58 - Master/slave



## MCS58 - Springs

	2200	2250	2450	2650	2850	3050	3200	3250	3450	3650		
<b>MCS58 central Ø90</b>	VEER 19x38 MCS58 type 2						VEER 25x51 MCS58 type 3					
<b>MCS58 bottom skirt</b>		VEER 25x51 MCS58 type 3	VEER 25x51 MCS58 type 3	VEER 25x51 MCS58 type 3	VEER 38x63 MCS58 type 4	VEER 38x63 MCS58 type 4		VEER 38x63 MCS58 type 4	VEER 38x63 MCS58 type 4	VEER 2x38x63 MCS58 type 6		
<b>MCS58 top and bottom skirt</b>		VEER 25x51 MCS58 type 3	VEER 25x51 MCS58 type 3	VEER 38x63 MCS58 type 4	VEER 38x63 MCS58 type 4	VEER 38x63 MCS58 type 4		VEER 2x38x63 MCS58 type 6	VEER 2x38x63 MCS58 type 6	VEER 2x38x63 MCS58 type 6		
	3850	4050	4200	4250	4450	4650	4850	5050	5200	5250	5450	5650
			VEER 38x63 MCS58 type 4						VEER 2x38x63 MCS58 type 6			
	VEER 2x38x63 MCS58 type 6	VEER 2x38x63 MCS58 type 6		VEER 2x38x63 MCS58 type 6	VEER 2x38x63 MCS58 type 6	VEER 2x38x63 MCS58 type 6 VEER 19x38 MCS58 type 2"	VEER 2x38x63 MCS58 type 6 VEER 19x38 MCS58 type 2"	VEER 2x38x63 MCS58 type 6 VEER 19x38 MCS58 type 2"		VEER 2x38x63 MCS58 type 6 VEER 25x51 MCS58 type 3"	VEER 2x38x63 MCS58 type 6 VEER 38x63 MCS58 type 4"	VEER 2x38x63 MCS58 type 6 VEER 38x63 MCS58 type 4"
	VEER 2x38x63 MCS58 type 6	VEER 2x38x63 MCS58 type 6		VEER 2x38x63 MCS58 type 6 VEER 19x38 MCS58 type 2"	VEER 2x38x63 MCS58 type 6 VEER 19x38 MCS58 type 2"	VEER 2x38x63 MCS58 type 6 VEER 25x51 MCS58 type 3"	VEER 2x38x63 MCS58 type 6 VEER 25x51 MCS58 type 3"	VEER 2x38x63 MCS58 type 6 VEER 38x63 MCS58 type 4"		VEER 2x38x63 MCS58 type 6 VEER 38x63 MCS58 type 4"	VEER 2x38x63 MCS58 type 6 VEER 2x38x63 MCS58 type 6"	VEER 2x38x63 MCS58 type 6 VEER 2x38x63 MCS58 type 6"
	5850	6050	6200	6250	6450	6650	6750	6850	7050	7200	8200	9200
			VEER 2x38x63 MCS58 type 6							VEER 2x38x63 MCS58 type 6 VEER 25x51 MCS58 type 3"	VEER 2x38x63 MCS58 type 6 VEER 38x63 MCS58 type 4"	VEER 2x38x63 MCS58 type 6 VEER 2x38x63 MCS58 type 6"
	VEER 2x38x63 MCS58 type 6 VEER 2x38x63 MCS58 type 6"	VEER 2x38x63 MCS58 type 6 VEER 2x38x63 MCS58 type 6"		VEER 2x38x63 MCS58 type 6 VEER 2x38x63 MCS58 type 6"	VEER 2x38x63 MCS58 type 6 VEER 2x38x63 MCS58 type 6"	VEER 2x38x63 MCS58 type 6 VEER 2x38x63 MCS58 type 7"		VEER 2x38x63 MCS58 type 6 VEER 2x38x63 MCS58 type 7"	VEER 2x38x63 MCS58 type 6 VEER 2x38x63 MCS58 type 7"		VEER 2x38x63 MCS58 type 6 VEER 2x38x63 MCS58 type 7"	VEER 2x38x63 MCS58 type 6 VEER 2x38x63 MCS58 type 7"

**10200**

VEER  
2x38x63  
MCS58  
type 6  
VEER  
2x38x63  
R MCS58  
type 7"



## 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 removeable 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 aluminum 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.

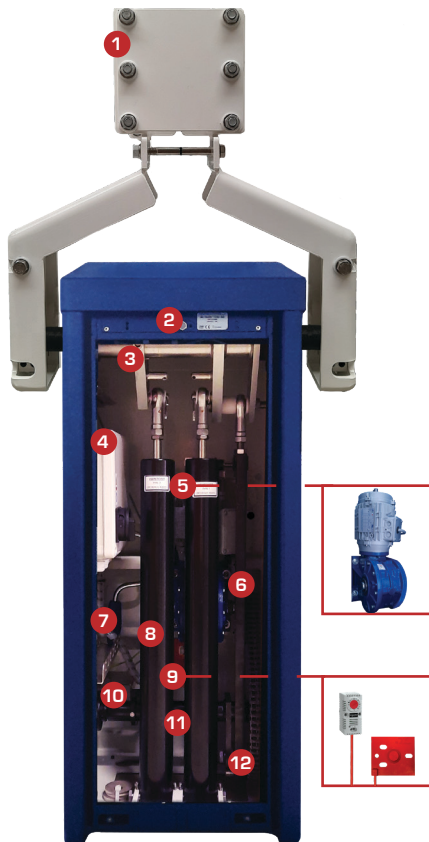
#### Operation without slip clutch

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 and accessories



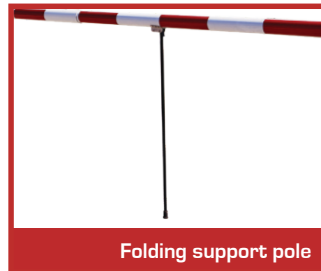
<b>1 Reinforced boom barrier holder</b>	
<b>2 Door switch</b>	
<b>3 Upper shaft</b>	
<b>4 Control + motor capacitor</b>	FEIG-WU-A-BOR
Power supply	3F 230 VAC/400VAC
Frequency	50 Hz
Power usage	30 Watt
<b>5 Motor gearbox without slip clutch</b>	
Power supply	230 VAC
Frequency	50 Hz
Power usage	550 Watt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

Position of the barrier arm

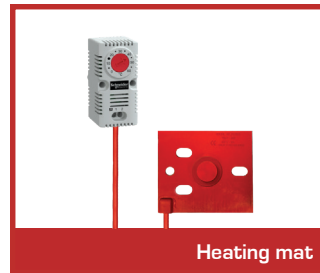
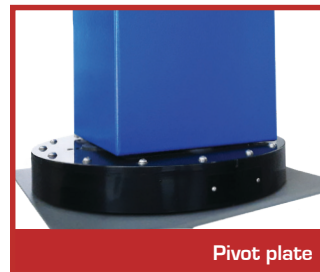
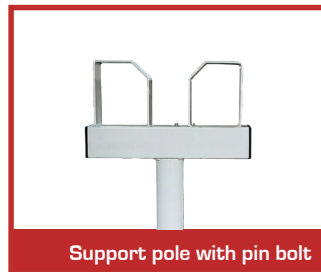


<b>Dimensions barrier box</b>	450 x 440 x 1100mm (WxDxH)
<b>Parts barrier box</b>	Folded and welded steel plate (3mm) with internal reinforcement (12mm), access door, removable lid, base plate (6mm)
<b>Ø boom barrier arm</b>	
Up to 7500 mm	Ø 120
From 7600 mm to 8500 mm	Variable
<b>Opening speed</b>	10 sec (min. 8,5 sec - max. 12 sec)
<b>Control</b>	Relay control
<b>Operating temperature</b>	-5°C to 50°C
<b>Options</b>	
Frequency control	
Potential-free contact of the limit switches in the clamping strip	
Maritime coating	
Stainless steel	

*Accessories - barrier arm*

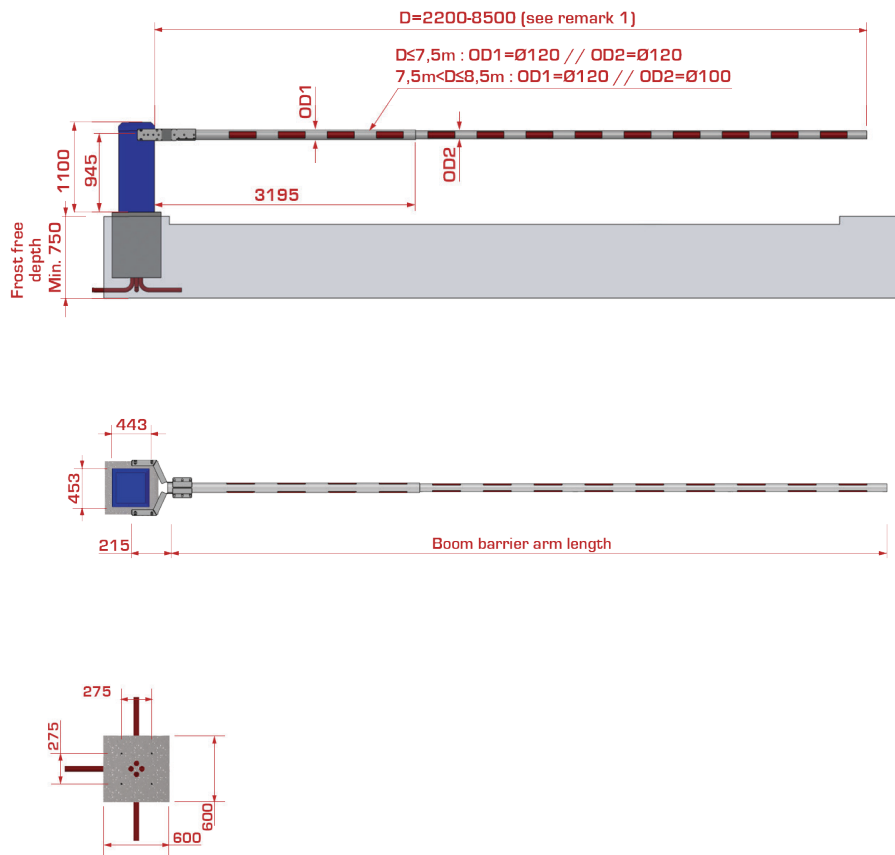


*Accessories - general*



## Technical drawings

MCS58 - Heavy duty



### Dimensions boom barrier arm

Dimensions "D"	OD1	OD2	Remarks
2200 - 6000	Ø 120x5	-	Note 1
2200 - 7500	Ø 120x5	-	
7600 - 8500	Ø 120x10	Ø 100x3	

Notes:

1. When choosing a barrier arm with a mechanical loadable weight of 10kg at the end of the barrier arm, dimension "D" is limited to 6000mm.
2. The maximum deflection of the barrier arm is 1%.



**BORMET**

Your safe partner in access

✉ [info@bambormet.be](mailto:info@bambormet.be)

☎ +32 11 31 26 56

📍 Ambachtstraat 1137, 3850 Nieuwerkerken, Belgium