

## MCS51

- Reach: 2m to 6m20
- 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: 400 W x 410 D x 1010 H
- Parts: folded and welded steel plate (2,5mm) with internal reinforcement (up to 10mm), 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 84mm or 90mm) with a plug at both ends
- 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): 1,5 sec (max. barrier arm length = 3470mm)
- Type N (normal): 3,3 sec (max. barrier arm length = 4500mm)
- Type T (slow): 5,0 sec (max. barrier arm length = 6200mm)

### 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 (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 (1,3) and this clutch, the gear unit is maintenance-free.

#### Control system

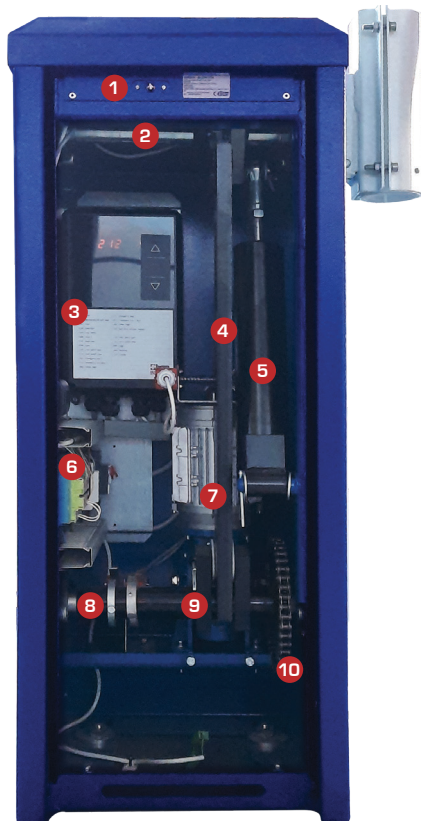
Built-in FEIG FUZ-2B frequency drive microcontroller is suitable for a wide range of applications (such as 3-push button, switch pulse, start with automatic closing, loop start,...) and is supplied with a magnetic motor safe-ty switch. This control system prevents slipping in the slip-action clutch, 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 MCS51 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.

## Technical information en accessoires



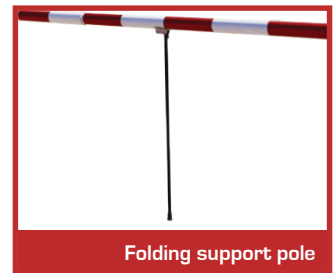
<b>1 Door switch</b>	
<b>2 Upper shaft</b>	
<b>3 Control + motor capacitor</b>	FEIG-WU-A-BOR
Power supply	1F 230 VAC
Frequency	50 Hz
Power usage	30 Watt
<b>4 Connecting rod</b>	
<b>5 Balance spring</b>	
<b>6 Terminal strip</b>	
<b>7 Motor gearbox with internal slip clutch</b>	
Power supply	230 VAC
Frequency	50 Hz
Power usage	370 Watt
Cosinus Phi	0,94
<b>8 Limit switches</b>	
<b>9 Lower shaft</b>	
<b>10 Simplex chain</b>	

Position of the barrier arm

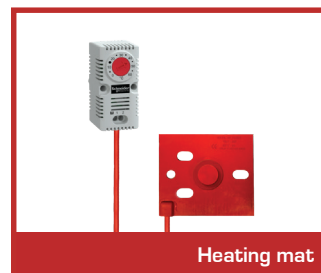
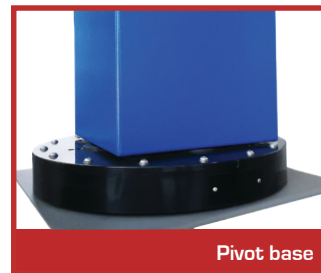
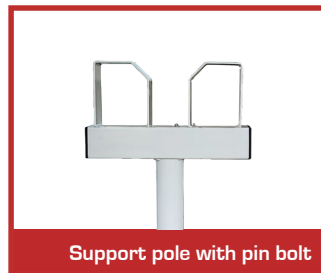


<b>Dimensions barrier box</b>	400 x 410 x 1010mm (WxDxH)
<b>Parts barrier box</b>	Folded and welded steel plate (2,5mm) with internal reinforcement (up to 10mm), an access door, a removeable cover and a base plate (6mm)
<b>Ø boom barrier arm</b>	84mm or 90mm
<b>Opening speed</b>	<i>*without options</i>
Type S	1,5 sec (max. barrier arm length= 3470mm)
Type N	4 sec (max. barrier arm length= 4500mm)
Type T	5 sec (max. barrier arm length= 6200mm)
<b>Control</b>	Relay control
<b>Operating temperature</b>	-5°C to 50°C
<b>Options</b>	
Frequency control	
Articulated arm	To 4500mm
Folding arm	To 4500mm (dependent on the height of the socle/ceiling)
Emergency crank	
Potential-free contact of the limit switches in the clamping strip	
Maritime coating	
Stainless steel	
Bottom skirt	
(opening speed type S)	To 4000mm
Top and bottom skirt	
(opening speed type S)	To 3800mm

Accessories - barrier arm

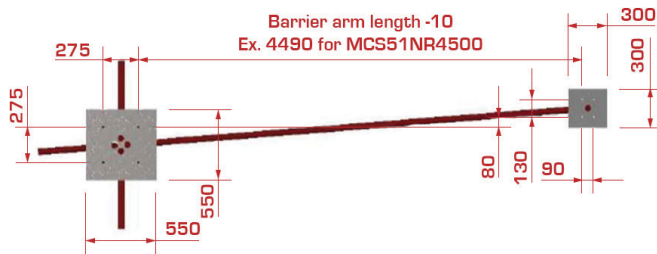
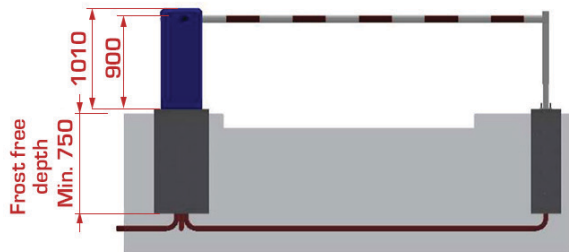


Accessories - general

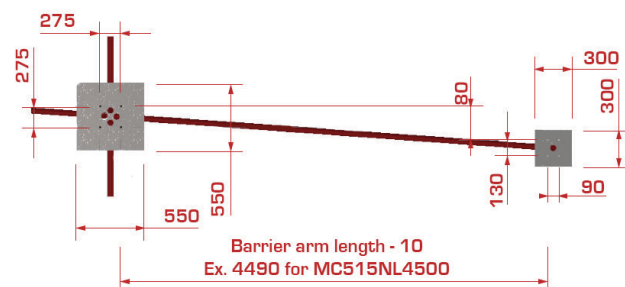
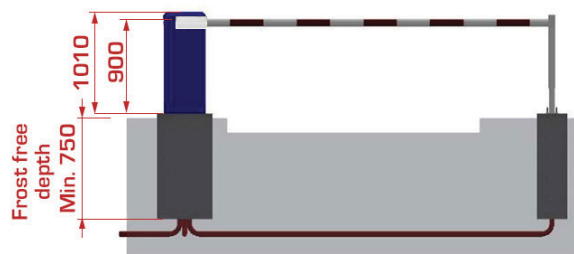


## Technical drawings

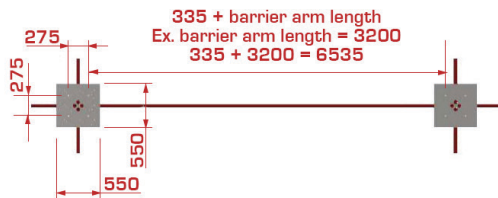
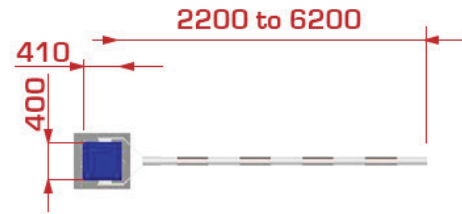
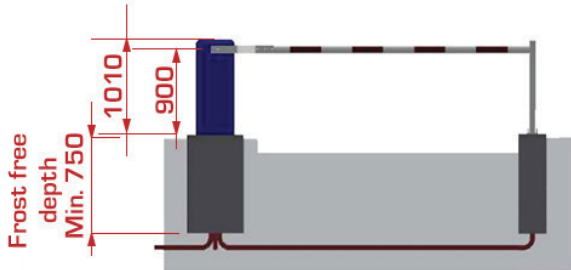
MCS51 - right-hand mounted barrier arm



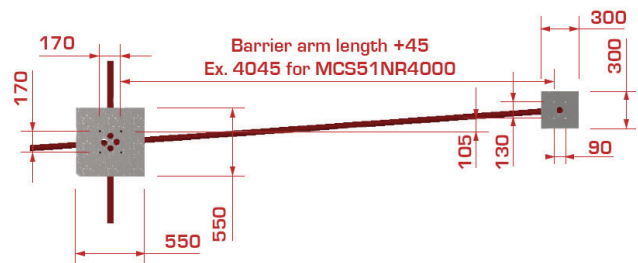
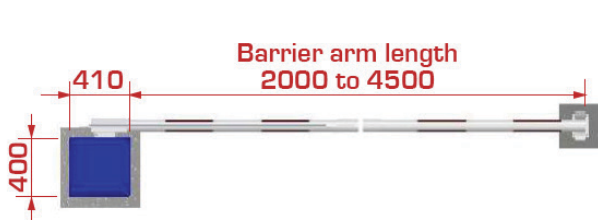
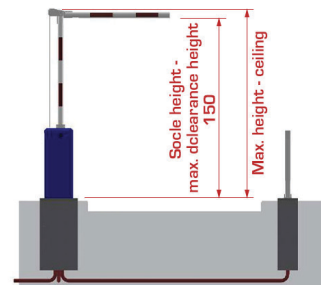
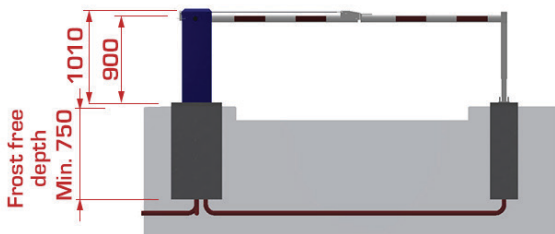
MCS51 - left-hand mounted barrier arm



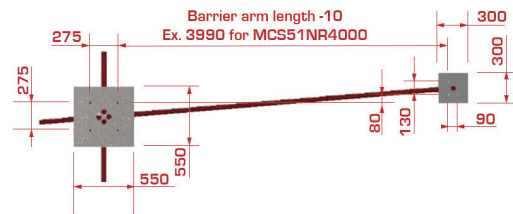
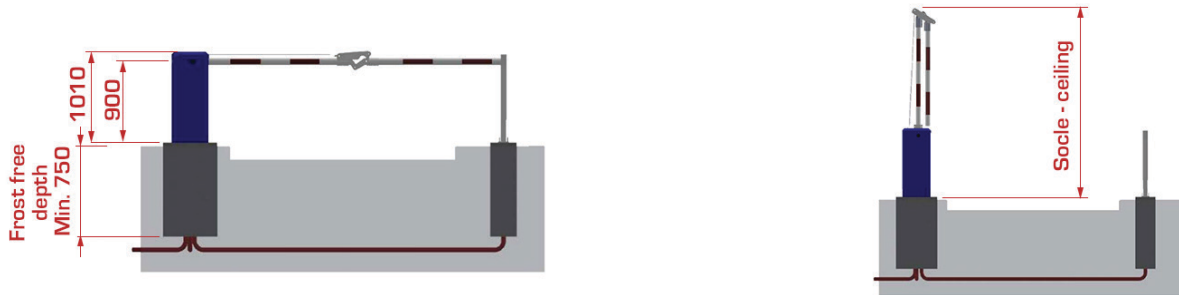
MCS51 - central mounted arm



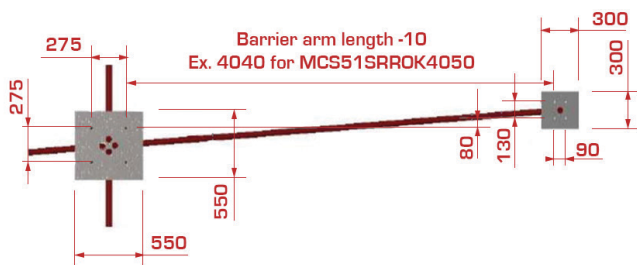
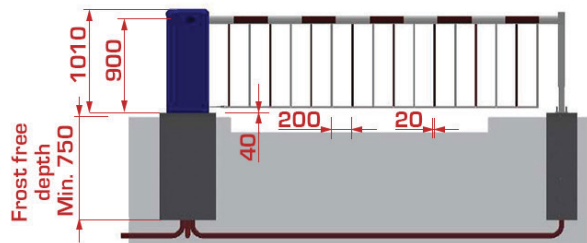
MCS51 - articulated arm



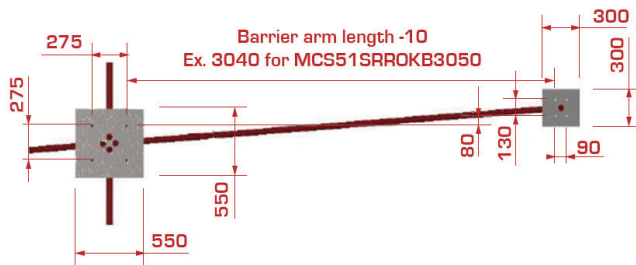
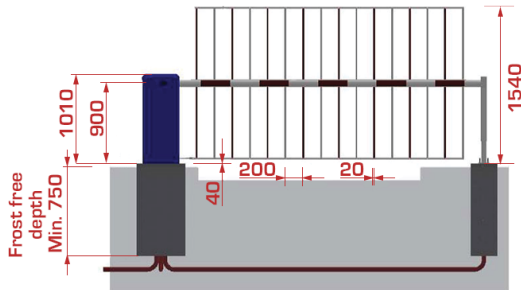
MCS51 - folding arm



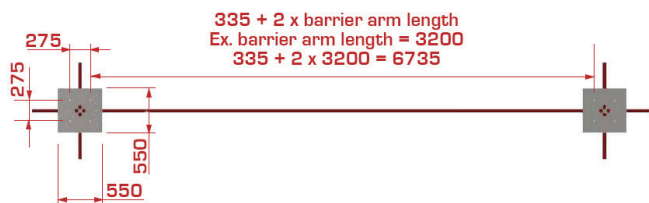
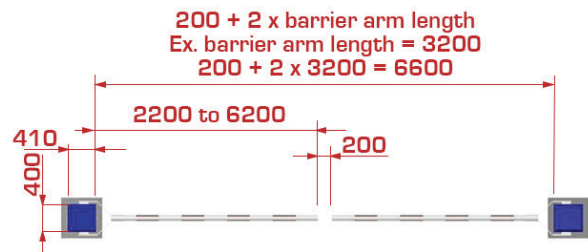
MCS51 - with bottom skirt



MCS51 - top and bottom skirt



MCS51 - Master/slave



## MCS51 - Springs

	1970	2200	2470	2970	3200	3470	3500	3700	4000	4200
<b>MCS51 right/left</b>	VEER 16x32 MCS25/51 type 1		VEER 16x32 MCS25/51 type 1	VEER 19x38 MCS25/51 type 2		VEER 19x38 MCS25/51 type 2	VEER 25x51 MCS25/51 type 3	VEER 25x51 MCS25/51 type 3	VEER 25x51 MCS25/51 type 3	
<b>MCS51 central Ø84</b>		VEER 16x32 MCS25/51 type 1				VEER 25x51 MCS25/51 type 3				VEER 38x63 MCS25/51 type 4
<b>MCS51 central Ø90</b>		VEER 16x32 MCS25/51 type 2				VEER 25x51 MCS25/51 type 3				VEER 38x63 MCS25/51 type 4

4500	5000	5200	6200
VEER 38x63 MCS25/51 type 4	VEER 38x63 MCS25/51 type 4		
		VEER 38x63 MCS25/51 type 4	VEER 38x63 R MCS25/51 type 5
		VEER 38x63 R MCS25/51 type 5	

	2250	2450	2650	2850	3050	3250	3450	3650	3850	4050
<b>MCS51 bottom skirt</b>	VEER 19x38 MCS25/51 type 2	VEER 25x51 MCS25/51 type 3	VEER 25x51 MCS25/51 type 3	VEER 25x51 MCS25/51 type 3	VEER 38x63 MCS25/51 type 4	VEER 38x63 MCS25/51 type 4	VEER 38x63 MCS25/51 type 4	VEER 38x63 MCS25/51 type 4	VEER 38x63 R MCS25/51 type 5	VEER 38x63 R MCS25/51 type 5
<b>MCS51 top and bottom skirt</b>	VEER 19x38 MCS25/51 type 2	VEER 19x38 MCS25/51 type 2	VEER 25x51 MCS25/51 type 3	VEER 25x51 MCS25/51 type 3	VEER 25x51 MCS25/51 type 3	VEER 38x63 R MCS25/51 type 5	VEER 38x63 R MCS25/51 type 5	VEER 38x63 R MCS25/51 type 5	VEER 38x63 R MCS25/51 type 5	





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