

# Boom Barrier MCS25

## Boom Barrier MCS25

### The entry-level model for small car parks

The Boom Barrier MCS25 is a barrier that is frequently used at private areas or car parks of smaller offices. The MCS25 is suitable for locations with not that much traffic, but where there is still the need for controlled closure. The arm length of the MCS25 varies between 2 and 4,5 meters. Depending on the arm length of the barrier, the opening speed is between 1,5 and 4 seconds. If required, the MCS25 can be equipped with a so-called 'break-out arm' to prevent serious damage in the event of a collision.

Whichever Boom Barrier you choose, at Bavak you are assured of quality. For more than 30 years, Bavak has been delivering and installing worldwide Boom Barriers in many different variations. This experience provides us with an enormous expertise in the field of total project guidance. We can even take care of the entire civil works. This way, you only have one reliable and professional point of contact for the purchase and installation of your Boom Barrier.

Bavak provides combined strength of knowledge and experience.

# Technical specification Boom Barrier MCS25

## Barrier housing

- Dimensions: 350 x 320 x 1.010 mm (w x d x h)
- Parts : Folded and welded steel plate of 2,5 mm with internal reinforcement till 10 mm, an access door, removable cover and a base plate (6 mm)
- The removable cover runs diagonally upwards to the centre
- Pivot points are mounted with bearings and tension rings

## Barrier arm

- Round aluminium tube (Ø 84 mm) with a plug at both ends
- Red reflective stripes on both sides (330 x 90 mm)
- Balanced by a wear-resistant compression spring (> 3.000.000 cycles)
- Secured by 4 stainless steel bolts which makes it easy to replace
- 3 types: Type R = Right-hand mounted barrier arm
  - : Type L = Left-hand mounted barrier arm
  - : Type C = Centrally mounted barrier arm

## Finishing

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

## Safety

- Emergency release accessible via access (locked) door in front of the column. When the door is opened, the safety interrupter prevents that the barrier opens automatically.

## Emergency crank

- The Barrier can be opened manually by using a crank on the right-hand side of the column. When the crank is installed, the motor power will shut off. Optionally, an emergency crank can be added on the outside.

## Drive mechanism

- The single bearing intermediate shaft (25 mm) is driven by a single-phase gear motor using a crankshaft-connecting rod mechanism to the single bearing output shaft (35 mm). This mechanism ensures a fluent acceleration and deceleration of movement and mechanical locking in the end position.

## Durability

- The torque exerted applied on the arm of the barrier ensures a safe ratio to the torque required. By combining the favourable power factor (1,3) and the clutch the Boom Barrier is maintenance free.

## Control system

- The built-in FEIG-controller is suitable for a wide range of applications (such as a 3-push button, switch pulse, start with automatic closing, loop start) and is provided with a magnetic motor safety switch. The control system prevents slipping and ensures a long service life of the motor. The controller can be connected to and managed by other security management- or domotics systems with additional communication software.

## Options

- Folding arm
- Articulated arm
- Support pole
- Master/slave configuration
- Frequency control
- External crank
- Potential free contact from limit switches in terminal block
- Maritime coating or stainless steel

**For more information, please visit [www.bavak.com](http://www.bavak.com)**

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# Boom Barrier MCS51

## Boom Barrier MCS51

### The multifunctional all-rounder

The Boom Barrier MCS51 is suitable for use at industrial projects and large car parks. The arm length of the MCS51 varies between 2 and 6,2 meters. Depending on the arm length of the barrier, the opening speed is between 1,5 and 5 seconds.

The MCS51 can be equipped with a pivot plate. In the event of a collision, the pivot plate ensures that the entire cabinet rotates aside which can prevent damage. The pivot plate is ideal for carrying out maintenance work due to the rotation of the housing, which allows the work can be carried out safely next to the road surface.

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# Technical specification Boom Barrier MCS51

## Barrier housing

- Dimensions: 400 x 410 x 1.010 mm (w x d x h)
- Parts : Folded and welded steel plate of 2,5 mm with internal reinforcement till 10 mm, an access door, removable cover and a base plate (6 mm)
- The removable cover runs diagonally upwards to the centre
- Pivot points are mounted with bearings and tension rings

## Barrier arm

- Round aluminium tube (Ø 84 mm) with a plug at both ends
- Red reflective stripes on both sides (330 x 90 mm)
- Balanced by a wear-resistant compression spring (> 3.000.000 cycles)
- Secured by 4 stainless steel bolts which makes it easy to replace
- 3 types: Type R = Right-hand mounted barrier arm
  - : Type L = Left-hand mounted barrier arm
  - : Type C = Centrally mounted barrier arm

## Finishing

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

## Safety

- Emergency release accessible via access (locked) door in front of the column. When the door is opened, the safety interrupter prevents that the barrier opens automatically.

## Emergency crank

- The Barrier can be opened manually by using a crank on the right-hand side of the column. When the crank is installed, the motor power will shut off. Optionally, an emergency crank can be added on the outside.

## Drive mechanism

- The double bearing intermediate shaft (45 mm) is driven by a single-phase gear motor using a chain transmission. This shaft transmits the movements using crankshaft-connection rod mechanism to the double bearing output shaft (35 mm). This mechanism ensures a fluent acceleration and deceleration of movement and mechanical locking in the end position.

## Durability

- The torque exerted applied on the arm of the barrier ensures a safe ratio to the torque required. By combining the favourable power factor (1,3) and the clutch the Boom Barrier is maintenance free.

## Control system

- The built-in FEIG-controller is suitable for a wide range of applications (such as a 3-push button, switch pulse, start with automatic closing, loop start) and is provided with a magnetic motor safety switch. The control system prevents slipping and ensures a long service life of the motor. The controller can be connected to and managed by other security management- or domotics systems with additional communication software.

## Options

- Skirt (up to 4 meters)
- Folding arm
- Articulated arm
- Support pole
- Master/slave configuration
- Frequency control
- External crank
- Potential free contact from limit switches in terminal block
- Maritime coating or stainless steel

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# Boom Barriers



## Boom Barrier MCS58

### Versatile and maximum use

The Boom Barrier MCS58 is the most versatile barrier and extremely suitable for intensive use. The arm length of the barrier varies between 2 and 10,2 meters. Depending on the arm length, the opening speed is between 2,7 and 8,5 seconds.

The MCS58 can be carried out with a skirt or folding gate. A Boom Barrier, equipped with a skirt or folding gate, makes it almost impossible for pedestrians to enter unnoticed. Besides that, the Boom Barrier MCS58 is vandalism resistant.

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# Technical Specification Boom Barrier MCS58

## Barrier housing

- Dimensions: 450 x 440 x 1.100 mm (w x d x h)
- Parts : Folded and welded steel plate of 3 mm with internal reinforcement till 12 mm, an access door, removable cover and a base plate (6 mm)
- The removable cover runs diagonally upwards to the centre
- Pivot points are mounted with bearings and tension rings

## Barrier arm

- Round aluminium tube (Ø 90 mm) with a plug at both ends
- Red reflective stripes on both sides (330 x 90 mm)
- Balanced by a wear-resistant compression spring (> 3.000.000 cycles)
- Secured by 4 stainless steel bolts which makes it easy to replace
- 3 types: Type R = Right-hand mounted barrier arm
  - : Type L = Left-hand mounted barrier arm
  - : Type C = Centrally mounted barrier arm

## Finishing

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

## Safety

- Emergency release accessible via access (locked) door in front of the column. When the door is opened, the safety interrupter prevents that the barrier opens automatically. Access is protected by a circuit breaker.

## Emergency crank

- The Barrier can be opened manually by using a crank on the right-hand side of the column. When the crank is installed, the motor power will shut off. Optionally, an emergency crank can be added on the outside.

## Drive mechanism

- The double bearing intermediate shaft (45 mm) is driven by a single-phase gear motor using a chain transmission. This shaft transmits the movements using crankshaft-connection rod mechanism to the double bearing output shaft (35 mm). This mechanism ensures a fluent acceleration and deceleration of movement and mechanical locking in the end position.

## Durability

- The torque exerted applied on the arm of the barrier ensures a safe ratio to the torque required. By combining the favourable power factor (1,2) and the clutch the Boom Barrier is maintenance free.

## Control system

- The built-in FEIG-controller is suitable for a wide range of applications (such as a 3-push button, switch pulse, start with automatic closing, loop start) and is provided with a magnetic motor safety switch. The control system prevents slipping and ensures a long service life of the motor. The controller can be connected to and managed by other security management- or domotics systems with additional communication software.

## Options

- |                                 |  |
|---------------------------------|--|
| - Skirt (up to 7 meters)        | - Frequency control  |
| - Folding gate (up to 6 meters) | - External crank   |
| - Support pole                  | - Potential free contact from limit switches in terminal block |
| - Master/slave configuration    | - Maritime coating or stainless steel                          |

The MCS58 can be equipped with a pivot plate under the barrier housing. In the event of a collision, the pivot plate ensures that the entire cabinet rotates aside which can prevent damage. The pivot plate is ideal for carrying out maintenance work due to the rotation of the housing, which allows the work can be carried out safely next to the road surface.

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# Boom Barrier MCS61

## Boom Barrier MCS61

### Up to an enormous span

The Boom Barrier MCS61 is by far the largest barrier in the series. The arm length of the MCS61 varies between 2 and 15 meters. Depending on the arm length, the opening speed is between 4 and 10,5 seconds.

The MCS61 is available with an oval or round arm. The arm length of an oval arm varies between 2 and 9,6 meters. The oval arm is an internally reinforced, aluminium tube of 175 mm with an extension of 100 mm. The round arm is available from 9,7 meters up to a maximum length of 15 meters. This version is mounted with tension cables for extra stability.

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# Technical Specification Boom Barrier MCS61

## Barrier housing

- Dimensions: 550 x 600 x 1.100 mm (w x d x h)
- Weight : 385 kg excluding barrier arm
- Parts : Folded and welded steel plate of 3 mm with internal reinforcement till 15 mm, an access door, removable cover and a base plate (6 mm)
- Reinforcements are welded to the inside of the column
- The removable cover runs diagonally upwards to the centre
- Pivot points are mounted with bearings and tension rings

## Barrier arm

- Oval (175 x 100 mm) or round aluminium tube\* (Ø 100 mm) with a plug at both ends
- Red reflective stripes on both sides (330 x 90 mm)
- Balanced by a wear-resistant compression spring (> 3.000.000 cycles)
- Secured by 4 stainless steel bolts which makes it easy to replace
- 3 types: Type R = Right-hand mounted barrier arm
  - : Type L = Left-hand mounted barrier arm
  - : Type C = Centrally mounted barrier arm

\* Only barrier arms longer than 9,6 meters have a round shape. The tension cables at the top and bottom provide additional stability.

## Finishing

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

## Safety

- The external emergency release is accessible via access door in front of the column

## Emergency crank

- The Barrier can be opened manually by using a crank on the right-hand side of the column. When the crank is installed, the motor power will shut off.

## Drive mechanism

The drive mechanism includes:

- Electric 3-phase asynchronous motor
- Speed gear unit with slip-action clutch
- Crankshaft-connecting rod mechanism
- Built-in compression springs
- The motor drives the speed gear unit using a serrated V-belt
- The double bearing intermediate shaft (45 mm) is driven by a speed gear unit using a chain transmission. This shaft transmits the movements using crankshaft-connection rod mechanism to the double bearing output shaft (60 mm)

## Durability

- The torque exerted applied on the arm of the barrier ensures a safe ration to the torque required. By combining the favourable power factor (1,2) and the clutch the Boom Barrier is maintenance free. The reductin gear continues to function even in exceptional circumstances.

## Options

- |                              |  |
|------------------------------|--|
| - Skirt                      | - Frequency control  |
| - Folding gate               | - External crank   |
| - Support pole               | - Potential free contact from limit switches in terminal block |
| - Master/slave configuration | - Maritime coating or stainless steel                          |

The MCS61 can be equipped with a pivot plate under the barrier housing. In the event of a collision, the pivot plate ensures that the entire cabinet rotates aside which can prevent damage. The pivot plate is ideal for carrying out maintenance work due to the rotation of the housing, which allows the work can be carried out safely next to the road surface.

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