

# Besam Automatic Door System - Hermetic



## Sealed – Silent – Reliable

Besam hermetically sealing sliding door system Besam Hermetic is especially designed for use in clean room environments, such as operating theatres, pharmaceutical production facilities, food preparation facilities, laboratories and other areas where clean, hygienic, well-sealing doors are required.

The Besam Hermetic system consists of operator, door and door frames. It is easy to install for both new construction and retrofit applications. Although the operator is small and slim in appearance, it is entirely suitable for the heaviest duty applications. During the installation the operator is programmed to comply with the customer's specific requirements.

## Standard equipment

Electronic control unit with plug-in connections and power supply

Door leaf faced with plastic laminate to both sides, including sliding track and handles for manual opening

## Accessories and Options

Cover:

- clear anodized aluminium (other anodizing optional)
- paint finished in colour according to RAL chart

Programme selectors

Convenience battery

Besam approach and presence sensors

Electromechanical locking device

Manual open/close impulse

Full (bed) and partial (nurse) opening

Interlocking between operators

Key switch

Limit switch for indication of closed door

Besam Automatic Door systems:

- Door leaf in optional laminates and in stainless steel
- Reveal plate system consisting of a lining, faced with laminate in optional colours or stainless steel designed to cloak the door opening on both sides
- Window in the door leaf
- Mechanical cylinder lock
- Earthing of door leaf and frame
- Handle on one side only - outside or inside

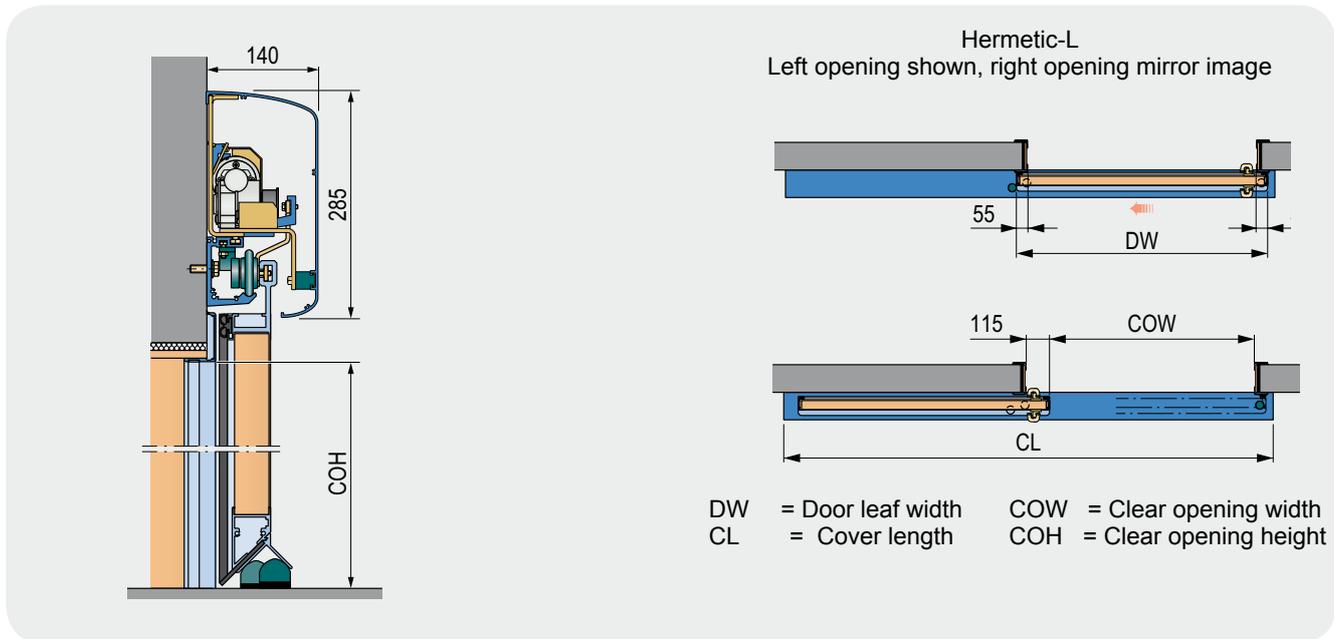
## Design

The operator cover is designed to prevent collection of dust and is easy to clean. The Besam Hermetic is tailored to different customer requirements. The motor, control unit and transmission are all assembled on the door sliding track. The movement is transmitted to the door leaf by means of a tooth belt. A linear actuator is used to lift the door leaf from closed position onto the sliding track.

The door leaf consists either of a core faced with plastic laminate to both sides or stainless steel on both sides. The door is hung on two plastic wheels, which together with the

sliding track give exceptionally smooth and silent operation. The sealing against the wall is made by a rubber seal. A flat rubber gasket is fitted to the underside of the door to seal against the floor. This will give full hermetic seal. The doors can be delivered with lead for radiation protection. Window, mechanical lock and earthing kit are other options.

The door can also be manually opened by means of handles on both sides of the door. To make the manual opening easier, a push & go function will automatically control the opening and closing of the door.



## No compromise on safety

To permit safe passage between closing doors, the doors immediately reverse if an obstruction is detected, then resume their interrupted movement at low speed to check whether the obstruction has disappeared or not. If an obstruction is detected between opening doors and surrounding walls or interior fittings, the door immediately stops and then closes after a time delay.

The safety can be further improved by using a Besam presence detection system. People or objects in the doorway are detected and the door is then prevented from closing until it is safe to do so. A convenience battery is available as an accessory. This is a standby supply, which gives continued operation during a short power failure.

## Self-monitoring

The microprocessor has an integral self-monitoring device which detects any interference or faulty signals in door operation and takes necessary measures to ensure a safe operation. The electronics are grouped in plug-in units. Each unit is subjected to a programme of stringent quality tests before delivery.

## Models

Hermetic-R Single slide, right hand

Hermetic-L Single slide, left hand

## Technical specifications

Power supply: 120 V AC -10% to 240 V AC +10%; 50/60 Hz

Power consumption: max. 250 W

Recommended max. door weight: 200 kg

Clear opening: 800 – 2500 mm

Opening and closing speed: variable up to 0.7 m/s

Hold open time: 0 – 60 s

Ambient temperature: -20°C to +50°

Relative humidity (non-condensing): 5% to 85%

This equipment should be installed, regularly inspected, maintained and serviced by trained and authorized personnel.

Preventive maintenance plans are highly recommended for a proper and safe operation.

Talk to your Besam representative to learn more about Besam Pro-Active Care!

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