



## **AUTOMATIC DOOR SYSTEM BESAM 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.

### **No compromise on safety**

To permit safe passage between closing door and frame, the door immediately reverse if an obstruction is detected, then resume its interrupted movement at low speed to check whether the obstruction has disappeared or not. If an obstruction is detected between the opening door and surrounding wall 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.

We recommend that you call your Besam area sales contact to assist you in specifying these products. We can help you to ensure that each installation meets the requirements and recommendations of BS7036:1996, BS8300, Building Regulations Part M and the DDA.

### **Self-monitoring**

The operator microprocessor has an integrated 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.

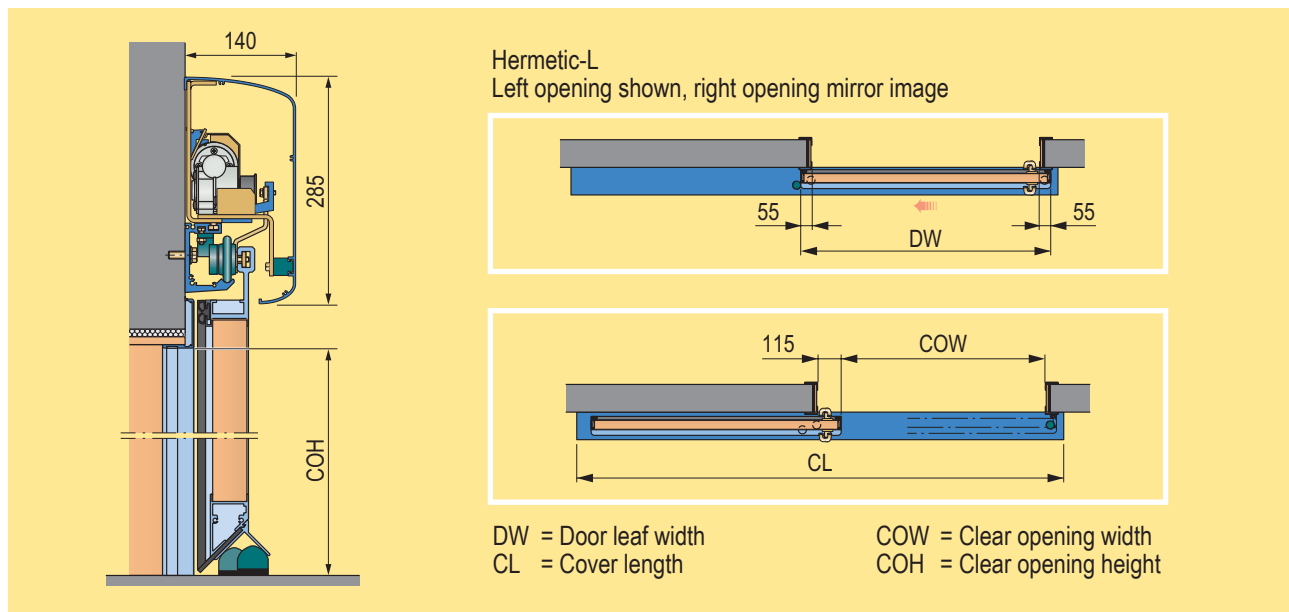
## Design

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 of injected polyurethane faced with 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.



## TECHNICAL DATA BESAM HERMETIC

### Models

#### Operation

- Hermetic-R Single slide, right hand
- Hermetic-L Single slide, left hand

### Standard equipment

#### Operator including:

- Electronic control unit with plug-in connections and power supply
- Door leaf faced with plastic laminate to both sides, including sliding track and handle 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
- Emergency button
- Besam approach and presence sensor
- Presence detection photocells
- 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 and materials 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

### Technical specifications

- Power supply: 100 V AC -15% 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°C
- Relative humidity (non-condensing): 5% to 85%



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