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Hermetic

Automatic Hygiene Door

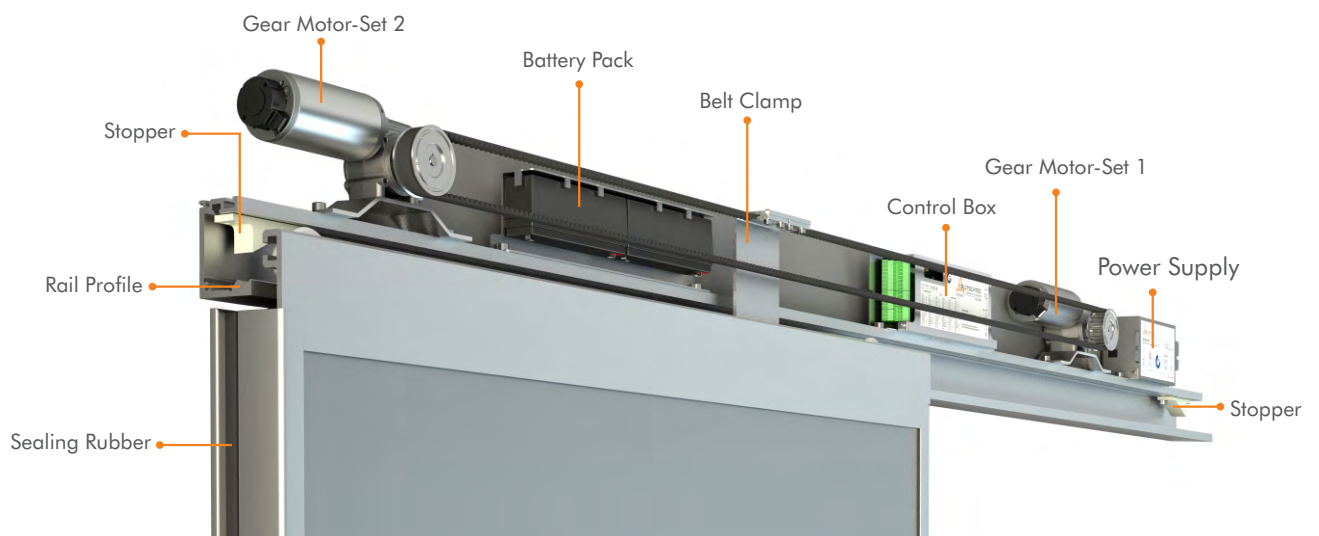
Hermetic Door

Environments such as hospitals, health clinics and medical centers require close attention to every detail as these places play a key role in the most significant aspect of our lives; our health. For this reason, we at Deutschtec have made sure that a wide variety of sleek yet highly efficient solutions are available to satisfy all requirements.

Our hermetic doors are designed, engineered and manufactured to comply with the highest and most recent standards and legislation regarding hygiene and contamination control.

Our hygiene products are shining examples of how safety, functionality, stability and durability can come together with exquisiteness. The hermetically sealing sliding door has been specifically designed for use in areas where hygiene and the control of air leakage is critical. The door has a unique patented track system which enables it to seal perfectly when closed helping to reduce air handling costs, cross contamination and wound infections.

The operator has been designed for normal operation as pedestrian sliding door or alternatively for an impenetrable sealing of dry rooms.



CONTROL UNIT

By drawing on the most advanced German engineering technology together with a fruitful collaboration with German electronic manufacturers, Deuschtec controlling microprocessor circuit boards have been designed and manufactured to meet the requirements set out by European Union and German regulations and guidelines such as the Machinery Directive (Decision (EU) 2019/436 of 18 March 2019 including EN12100, EN349, EN547), Electromagnetic Compatibility (EMS) including EN61000, EN550155 and Low Voltage Directives (LVD (2014/35/EU)) including EN60335, EN13637. Moreover, its software and electronic design meet all relevant German and European standards such as DIN18650, EN16005 and ENISO13849. These distinguishing features guarantee the highest levels of security and a long operating life cycle. Furthermore, due to the use of sophisticated energy and resource saving technologies you can enjoy sustainable technology.



GEAR MOTOR

Like its other state-of-the-art parts Deuschtec Hermetic series' motors are exclusively manufactured in Germany. Their 100W motors are absolutely indestructible and are there to ensure reliable performance for a lifetime. Great efficiency and enhanced function are achieved through employing years of experience and the latest technologies in the process of our motors' design and production. These brushed DC motors are so quiet that while in action, you will hear nothing but a muffled sound.







Hermetic Door

Standards	Hermetic
Compliant with German standard DIN 18650	✓
Compliant with EU standard EN 16005	✓
Compliant with EU standard EN 60335	✓
Compliant with EU standard EN ISO 13849-1	✓
Manufactured according to ISO 9001	✓

Standards	Hermetic
Compliant with EU low voltage directives	✓
Compliant with EU EMC directives	✓
Tested and classified based on NF EN 12207*	✓
Tested and classified based on NF EN 1026**	✓
Tested and classified based on DIN EN 20 140-3***	✓

*NF EN 12207

This European Standard defines the classification of test results for completely assembled windows and external and internal pedestrian doorsets of any material after testing in accordance with EN 1026. The classification is based on a comparison of the air permeability of the test specimen related to overall area and on the air permeability related to the length of opening joint. There are four different classes for each classification method.

**NF EN 1026

This European Standard defines the test method to be used to determine the air permeability of completely assembled windows and doorsets of any material, when submitted to positive or negative test pressures. This test method is designed to take account of conditions in use, when the window or doorset is installed in accordance with the manufacturer's specification and the requirements of relevant European Standards and codes of practice.

***DIN EN 20 140-3

This standard specifies a laboratory method of measuring the airborne sound insulation of building elements such as walls, floors, doors, windows, facade elements and facades, except those classified as small building elements. The results obtained can be used to design building elements with appropriate acoustic properties, to compare the sound insulation properties of building elements and to classify such elements according to their sound insulation capabilities. The measurements are performed in laboratory test facilities in which transmission of sound on flanking paths is suppressed. Results of measurements made in accordance with this standard therefore shall not be applied directly in the field without accounting for other factors affecting sound insulation, especially flanking transmission and loss factor.

Technical Detail **Hermetic**

Opening width - single panel	up to 3000mm
Max leaf weight, single	1 x 200kg / 2 x100kg
Max Opening height	up to 2500mm
Operator height	212 mm
Operator depth	117 mm
Opening speed	Adjustable from 0.1 – 0.4m/s
Closing speed	Adjustable from 0.1 – 0.4m/s
Hold-open time	0 - 30 s
Ambient temperature	-15 to +50°C
Protection class	IP 20
External protected power supply	✓
Power supply unit	230V/33V,50VA (Peak 120VA)
Gear motor power	2 x 100 W
Max power consumption	250 W
Possibility to adjust force limitation according to DIN18650 and EN16005	✓
Possibility to use safety sensors with testing signal	✓

Technical Detail **Hermetic**

Floor guides	Reinforced Plastic guides
Sealing frame	Aluminum
Surround frame	Aluminum
Integrated window in door leaves (optional)	✓
Touchless button (optional)	✓
Electromechanical lock(optional)	✓
Inside and outside lever handle set (Optional)	Stainless steel

Door Panel Finishes

HPL panel for air-tight rooms	✓
Powder coated steel panel	✓
Stainless steel panel	✓
Lead panel for x-ray rooms	✓
Double or triple glazed panel	✓

Door Panel Finishes

High Pressure Laminated panel for air-tight rooms

High-pressure laminated plates (HPL) consist of several sheets of paper layered on top of each other, which are saturated with special phenolic resin. These paper are pressed into the desired shape of plate by means of hydraulic presses via pressure and temperature. As a result of this combined manufacturing process the chemical and physical properties of the material are irreversibly modified, which can be put down to the polycondensation of the resins used.

HPL panels are resistant to impact, scratches, water and moisture. They have expansion and shrinkage properties. And they are not poisonous and behaves well in the event of fire.

Lead-lined door panels for x-ray rooms

Duetschtec's hermetic doors can be presented by lead lined panels. Duetschtec's lead lined doors that are ideally suited to hospitals, laboratories and other clean areas where hygiene and x-ray protection are of utmost importance. With this objective in mind, we have combined engineering and design in an integral manner to offer a customizable door. Our lead-lined door sets incorporate lead sheeting in a range of thicknesses. This protection extends through the door frames, forming an effective barrier to radiation in all directions. These specialist lead-lined doors can be supplied in a wide variety of styles and specifications to offer effective protection from radiation.

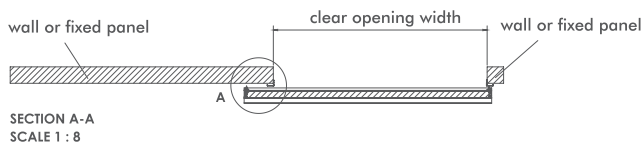
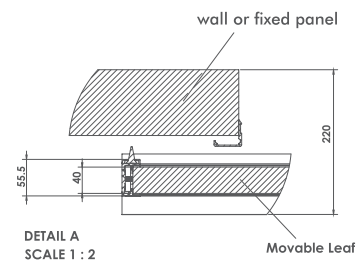
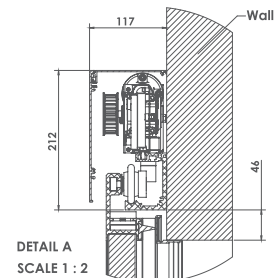
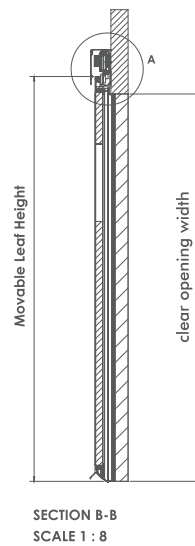
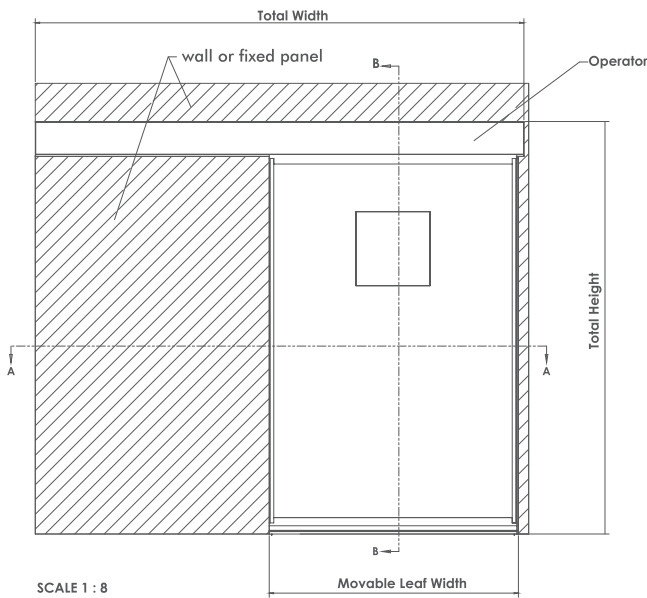
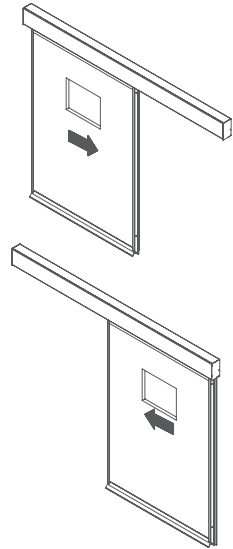
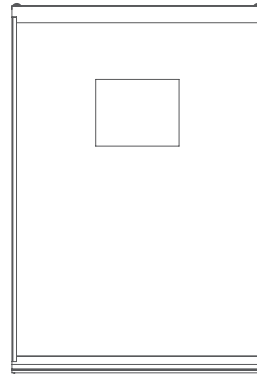
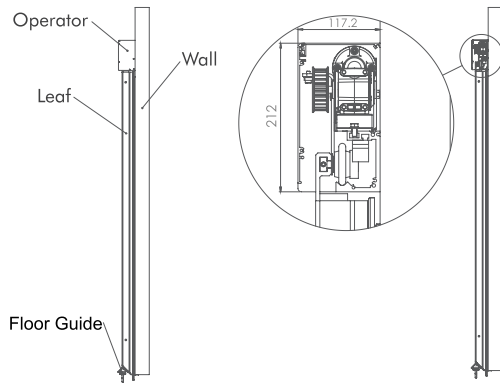
Double glazed panels

Full glass panels are obvious choice for observation rooms due to high transparency and visibility of the room whilst ensuring the door is hermetically sealed and the patient is kept in a controlled environment where the chances of cross contamination are reduced to a minimum.



Designed • Developed • Made in Germany

OVERVIEW



Surface Data DIN ISO 1302	Workpiece Edges ISO 13715
General Tolerances DIN EN 2768-M	Angle Tolerances ±0.5

ACCESSORIES

Battery

This series will continue functioning even after a power-cut thanks to their powerful 2.2 Ah batteries. Needless to say, the number of operation cycles depends on some key factors such as door leaves' weight, traffic, speed adjustment, etc.

Digital Programme Switch

User-friendly has been given a whole new meaning with this digital programme switch's easy-to-read, full-text display. You will get easy access to all performance data and parameters and for any special need you might have, its adjustment and diagnostic processes can be accurately duplicated or customized. Protection password code is another significant feature of this digital programme switch. Such a terrific "optional" part cannot be ignored!

Electromechanical lock

Deuschtec Electromechanical lock has been a reliable way to safeguard your security all the time. It utilizes steel pins to lock both leaves simultaneously and therefore offers increased safety compared to systems which lock only one door leaf or lock by means of timing belt. Furthermore, since it employs a bi-stable mechanism, system's power reset does not affect the lock's state. Due to using powerful batteries and an intelligent circuit, battery usage is reduced to zero when the door is locked and there is a power-cut.*

Mechanical Key Switch

Deuschtec presents its mechanical key switch with the five modes of full open, partial open, lock, automatic and one-way. Simple yet functional, this is another accessory which will definitely come in handy.

Touchless Button

The Touchless Button is an intentional contactless microwave sensor. One hand motion in front of the sensor can activate a door opening. It is mainly used in hygienic applications where the lack of contact with the sensor is required, but also for comfort reasons in hospital environments, hotels, restaurants, in the retail and pharmaceutical industries and in logistics.



*Thus, even weeks after the input electricity has been cut, the system can open the lock and the door by the key switch, which is an optional accessory and can be installed outside of the entry area.



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