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Door Automations

DT Electric Swing Door Operator
DT Electric Sliding Door Operator

Applications:

Pharmaceutical (API, secondary) and biotech facilities
Food Manufacturing
Hospitals
Retail stores
Airports
Schools
Canteens/ Restaurants

wen-plast

Dortek®
Retail door systems

Dortek automation systems are designed to provide safe, efficient and convenient means of opening and closing doors in a controlled environment. Our systems can be connected to many types of activation devices from a basic push button to a fully integrated building management system.

Our products are available to install as part of a door package or separately to existing doors. Designed and assembled by Dortek in our own factory, automations can be installed at the same time as the doors offering a one stop, seamless installation.

Why use Dortek Automations?

Enhanced Hygiene

Automations eliminate the need to touch the door surface, therefore reducing contamination. In a controlled environment, particularly where rooms are operating under air pressure, using automations gives smooth effortless operation. They are ideal for use in operating theatres, throughout hospitals, pharmaceutical cleanrooms, food manufacturing and the retail sector.

Overall Life Cycle Cost

Automated doors will sustain far less damage and wear from trolleys and other aggressive traffic due to the limited amount of contact with the door leaf. This increases the life of the doorset and reduces maintenance costs. With sustainability a major concern in modern construction, automations can also contribute towards reducing energy by ensuring doors are shut efficiently, safely and securely.

Safety/Protection

Where security is a high priority access can be controlled by means of automation using key operated switches or swipe cards. In emergencies automatic doors can save lives, preventing smoke and fire from escaping. All our automations are approved for use on both smoke and fire doors.

Ease of operation

Automations are particularly suitable for high volumes of traffic. Easing congestion in door ways and generally providing comfort for the users especially in public buildings.

Legislation

With the Disability Discrimination Act (DDA) now a major factor in pedestrian access areas, building regulations state that a way of achieving compliance is to fit automatic operators to existing manual swing doors on entrances and travel routes or replace existing doors with either new automatic sliding or swing doors

Guarantee

All Dortek automations are fully guaranteed and are installed by our own BS7036 certified engineers without the use of sub-contractors. To ensure your automations remain in peak operating condition throughout their life, service & maintenance contracts are also available. Dortek are approved members of ADSA (Automatic Door Suppliers Association).

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DT Electric Swing Door Operator

Open and close - Reliably

When a door is too heavy to operate manually, an automatic swing door system is the perfect solution. It may sound simple but this requires highly sophisticated technology. The DT Electric Swing Door automation makes sure that everything runs smoothly, day after day. At the same time it offers maximum convenience and safety. It is ideal for use in a wide range of applications including hospitals, food manufacturing and pharmaceutical industry as well as schools, shops and offices.

A powerful automatic-hydraulic swing door operator, the TSA 160 by Dortek can easily cope with the frequent tough demands of everyday function. Reliable operation of the drive is achieved with a maintenance free high performance motor with low wear characteristics and state of the art control technology. An additional safety feature is the sensors, which control the action of opening and closing. These sensors will stop movement of the door if persons or movable objects are within the swing of the door.

Features

- Designed for door widths up to 1400mm
- Small dimensions make it particularly easy for the designer
- They fit well in a retrofit situation
- Optically and acoustically unobtrusive
- Construction with vibration dampers makes them low in noise
- They require little energy and service
- In case of a power cut the doors can be opened manually

Technical Information

Application:	Single or double leaf
Function:	Pushing or pulling
Max leaf width:	1400mm
Max leaf weight:	250kg
Electric:	230 V AC 50/60Hz + 10%/-14%
Power consumption:	200 VA
Integrated programme switch:	Permanently open - Off - Automatic
In case of power failure:	Door closer function
Closing force:	Size 3 - 6
Hold open time:	0-60 seconds
Door opening angle:	Max 115°

DT Electric Sliding Door Operator

Sliding door technology - Safe and Precise

Automatic sliding door systems are often the focus of above average demands concerning functionality and economic efficiency. High quality material and the latest actuation technology guarantee a premium performance. Due to the Dortek canopy design there are no compromises to a clean attractive appearance. A self learning micro-chip control system coordinates the smooth and extremely quiet sequence of movements of the door leafs. With the help of permanent path measurement the control system is informed about the current door position at any time.

The DT 04 Sliding operator is exceptionally reliable where areas need to be locked, interlocked or where air control, air tightness, cleanliness and durability are absolutely essential. The intelligent control system senses if an obstruction is present and prevents the door from closing, eliminating the need for a safety strip, leaving the edge clean and ledge free. Additional safety is also provided by means of a photo cell across the door opening.

Features

- Safety systems such as light barriers and presence sensors
- Soft opening and closing
- Automatic reversing when the door hits an obstacle during its closing action
- Battery pack for closing and opening during a power failure
- Connection to fire alarm system or full building management system
- System is quick to install and start up
- Different hold open times for different functions

Technical Information

Application:	Single or Bi-parting
Function:	Sliding
Max leaf width:	4 metres
Max leaf weight:	Up to 450kg
In case of power failure:	Door can be opened manually
Opening speed:	800mm/s (adjustable)

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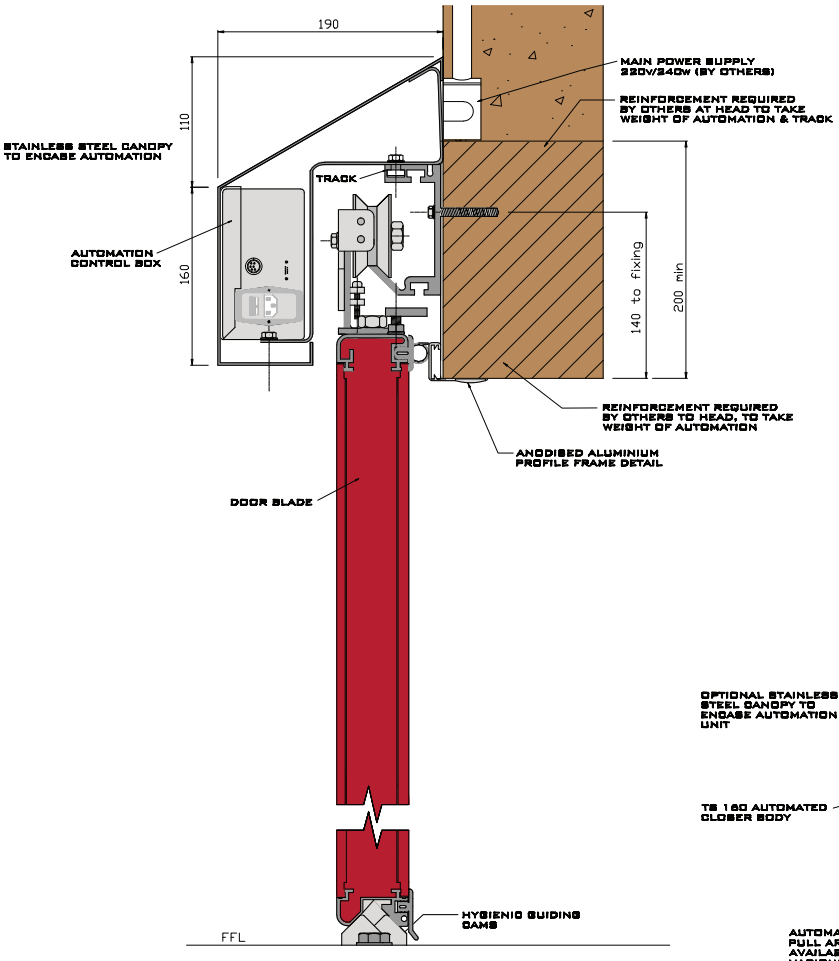
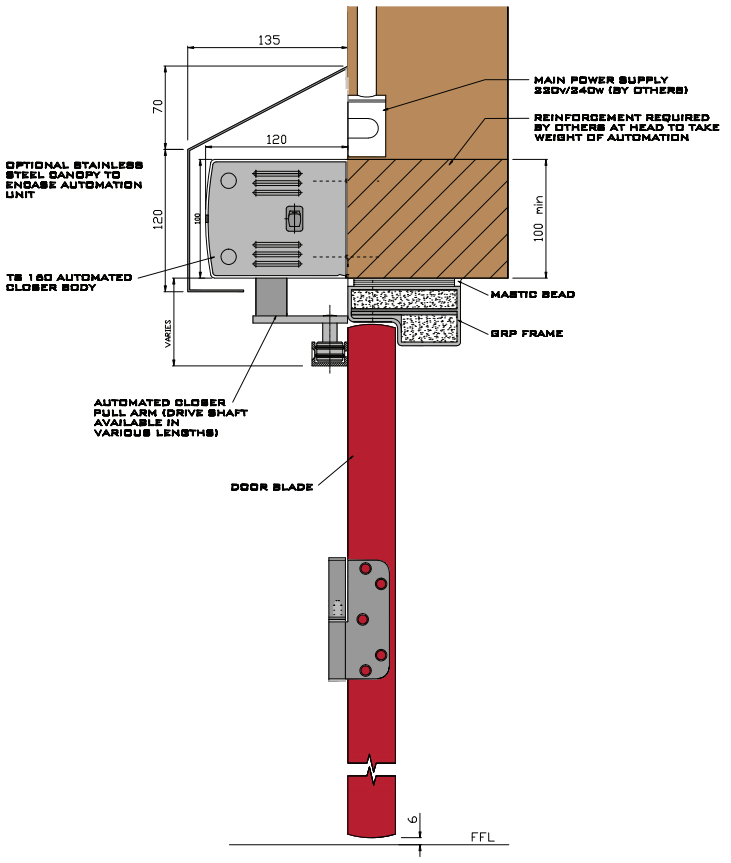
Side section, DT-94 automation with canopy

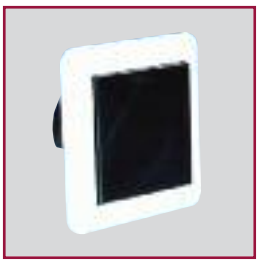
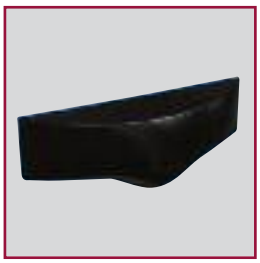
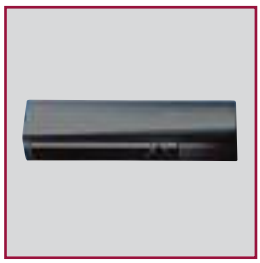


Side section, TS 160 automation with GRP frame detail



NOTE: DETAIL ABOVE SHOWS 'PULL SIDE' MOUNTED AUTOMATION. OPTION FOR 'PUSH SIDE' MOUNTED UNIT AVAILABLE.



Choosing your Activation

Choosing a suitable activation method depends greatly on the use of the door. Actuation should be set in such a way that normal walking speed is sufficient to pass the door, but in areas of high volume traffic this might need to be adjusted. If the door is accessed by wheel chairs, stretchers or persons carrying bulky objects, this will greatly influence the selection. In this instance a detection system may be the optimum device. For restricted access a key operated switch could be required. Whatever the situation, selecting the correct actuation device is very important.

Standard options for activation include:

- Radar movement detectors detect all objects moving within the radar field. All movements within the detection area cause a reflection which is transferred as the door opening impulse.
- Active infared movement detectors detect persons and objects in accordance with the reflection principle of short wave infared radiation. In addition to persons, trolleys or hospital beds also trigger the door opening impulse.
- Passive infared movement detectors react to heat radiation connected with movement and are therefore suited to detect persons only.
- Push button, key operated switch
- Remote controls

Our automatic door systems can be electronically actuated by:

- Radar movement detectors
- Active infared movement detectors
- Push button switch
- Touchless Sensor
- Key operated switch
- Pull switch
- Foot operated contact switch
- Radio control
- Photocell
- Code cards
- Push pad
- Clean scan

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Dortek Interlock Systems

Interlock systems can be applied to any number of doors from two doors (to form an air or light lock) to an entire building. Doors can be hinged, sliding, roller, manual, automatic or any combination. Interlocking can be either electrical or pneumatic. Access can be gained by all the standard actuation devices.

Interlocking can be

- Interlinked, Interlocked or Sequenced
- Locked or Unlocked (manual doors must be locked)
- Electrical, pneumatic or both
- Fully fail safe

Typical Interlock Matrix (3 door system)

Door No	DO1	DO3	DO5
-	Active	Active	Active
-	Open	Locked	Locked
-	Locked	Open	Locked
-	Locked	Locked	Open

Dortek Pneumatic Automation Systems

Where Dortek Electrical automations are not suitable for the environment, pneumatic systems are available.
The standard door closer with hold open device is operated by a pneumatic locking cylinder, which requires positive air supply to hold open. When pressure fails the door will close.

Features

- Smooth silent operation
- Compact track system 100mm x 150mm
- Safety slow down open/close position
- Inline pneumatic safety system
- Half opening operation
- Safe and reliable

Technical Information

Application:	Single or double leaf
Function:	Pushing or pulling
Max leaf width:	3000mm
Max leaf weight:	120kg
Opening speed:	max 0.4m/s
Closing speed:	max 0.3m/s

Dortek door systems


K Type


X Ray


MF5


S Type


Chiller


Fast Acting

Other products from Dortek


Transfer Hatch


Windows


Blinds


Retail

Mobile exhibition

Dortek's mobile exhibition vehicle is available for site visits, demonstrations and CPD's throughout the UK, Ireland and Europe.

With fully automated working models of our hygienic door systems it provides a thorough overview of our product range. This combined with a detailed sales presentation or RIBA accredited CPD by one of our regional managers, offers a unique introduction to the benefits of GRP doors and Dortek's comprehensive service on your own premises.

To arrange a booking e-mail **marketing@dortek.com**

Service Contracts

Three levels of service contracts to suit individual requirements include:

- Two service visits per annum
- Check and adjustment of key components such as rollers, gear boxes, pivots, sensors and controls
- Recommendations for preventative maintenance
- A full report of all works carried out
- BS7036 trained and certified engineer

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