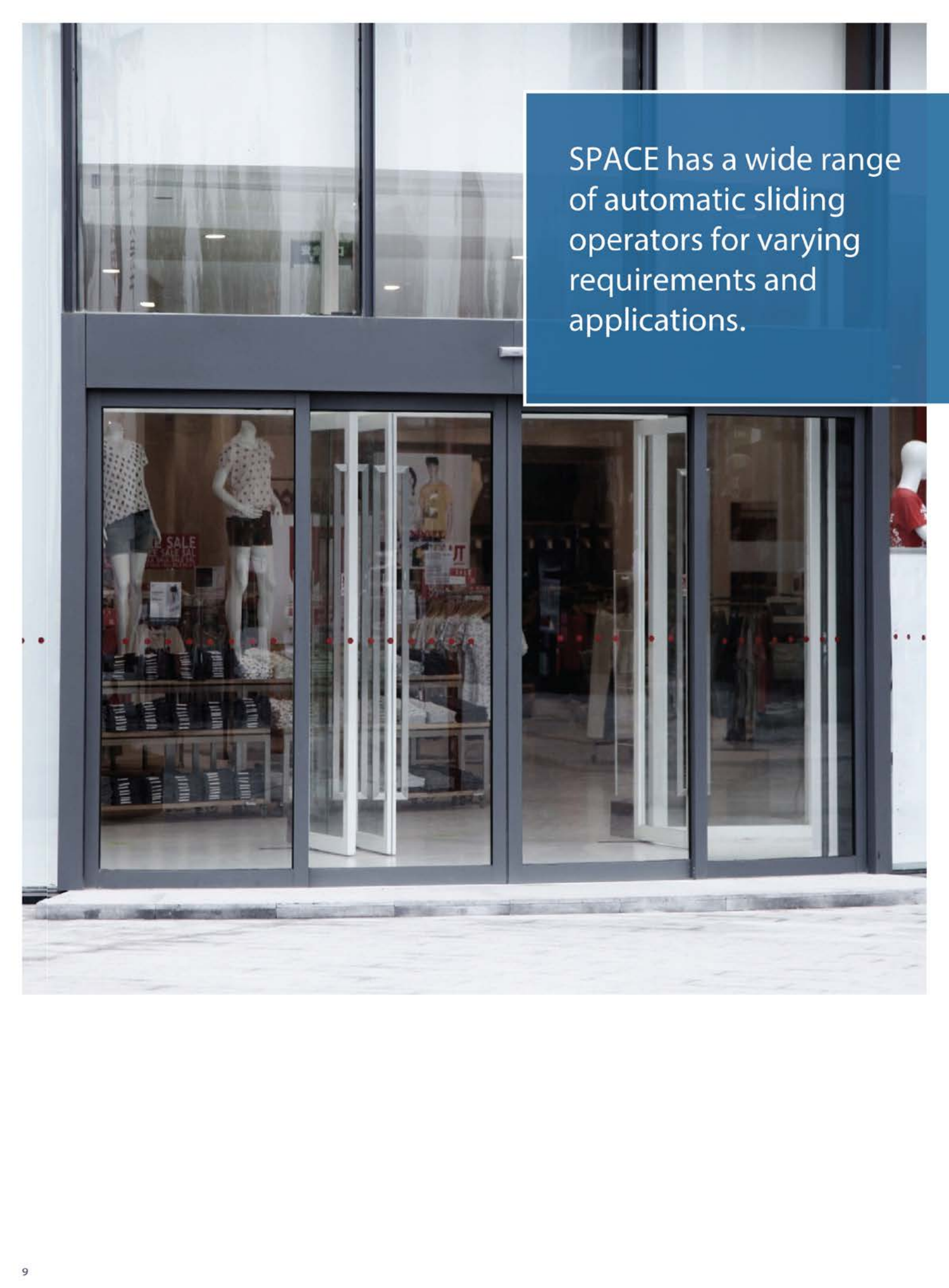




Product
Brochure
2013

SPACE[®]
AUTO DOOR



SPACE has a wide range of automatic sliding operators for varying requirements and applications.

CHOOSE AND COMPARE

SP-160	SP-180	SP-280	SPT-280	SP-380
for low traffic and simple application, for light doors	for high traffic and medium weight doors	for high traffic and all weight weight doors	telescopic door for used in tight spaces	for industrial use and heavy duty doors

Product features

Max. panel weight (2 panels)	2 x 80 kg	2 x 90 kg	2 x 140 kg	4 x 75 kg	2 x 190 kg
Max. panel weight (1 panel)	100 kg	100 kg	180 kg	2 x 100 kg	200 kg
Opening width 1-panel	500 - 3000 mm	500 - 3000 mm	500 - 3000 mm	1000 - 3000 mm	500 - 3000 mm
Opening width 2-panels	1000 - 3000 mm	1000 - 3000 mm	1000 - 3000 mm	1600 - 3600 mm	1000 - 4000 mm
Max. passage height	2500 mm	3000 mm	3000 mm	3000 mm	5000 mm
Opening / closing speed (max.)	0.6 / 0.5 mm/s	0.7 / 0.5 mm/s	0.9 / 0.8 mm/s	0.8 / 0.7 mm/s	0.4 / 0.3 mm/s

Adjustable parameters

Opening speed	YES	YES	YES	YES	YES
Closing speed	YES	YES	YES	YES	YES
Breaking and starting force	-	YES	YES	YES	YES
Hold open time	-	YES	YES	YES	YES
Ratchet (flip flop function)	-	YES	YES	YES	YES
Electromagnetic locking	-	YES	YES	YES	YES

Safety features

Obstacle detection with reverse	YES	YES	YES	YES	YES
Emergency battery operating	-	YES	YES	YES	YES
Emergency opening	YES	YES	YES	YES	YES
Emergency stop	-	YES	YES	YES	YES



SP-160

Sliding door operator

Max weight of 1 x 100 kg or 2 x 80 kg

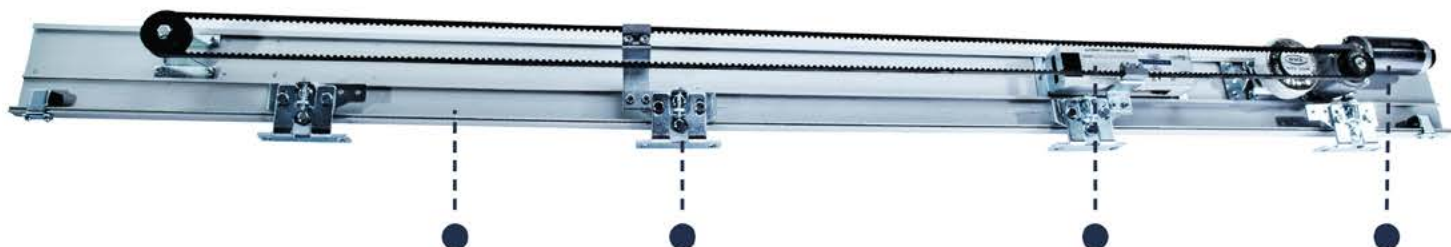
SP-160 automatic sliding door operator is a budget model designed to offer excellent price to quality ratio, for less demanding applications. Fitted with smaller, lighter electrical motor and a modified control unit, makes this operator remarkably economical on electrical consumption, providing excellent operational smoothness and efficiency and still meets the requirements for automatic sliding doors with light to medium door leaves.

Application

Ideal for indoor or outdoor entrances in less demanding areas, where smaller opening with lighter door leaves is required. It is suitable for entrances that are less demanding in terms of space and traffic levels. It is particularly suitable on single and double leaf doors in full glass configuration, whether it be toughened or insulation glass.

Specific product advantages

- Very simple and fast assembly
- Limited maintenance required
- Silent operation
- Safe operating
- Wear free operation
- Tested to 1,000,000 cycles.



- 1 **Motor** Manufactured in-house by SPACE, this high output, high speed and silent 50W motor can easily move door panels of up to 80kg. Equipped with sophisticated encoder, which can easily detect slightest of door movements
- 2 **Roller carriage** easy to install, limited wear and tear, silent, anti drop protection, with two dimensional compensation characteristics for structural tolerances.
- 3 **Running Track** manufactured using SPACE unique aluminium hardening process, suitable for light door weights of up to 80kp per panel. Very light for ease of transport.
- 4 **Control** Control unit installed in compact protective housing designed with SPACE smart door technology containing latest microcomputer technology. This control unit guarantees smooth and reliable closing and opening sequences.

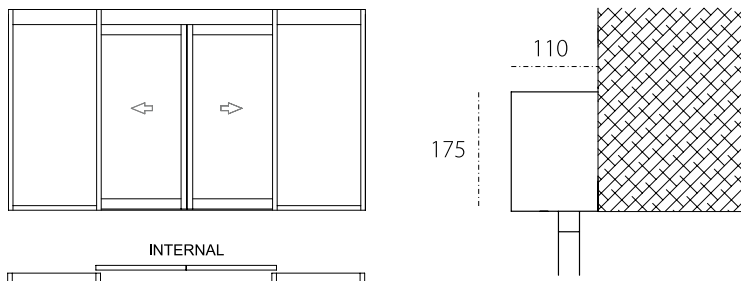
Obstacle detection with automatic reversing
 Emergency opening
 End point positioning
 Path measurement
 Simple adjustment of the below parameters:
 Closing speed
 Opening speed

Performance Data

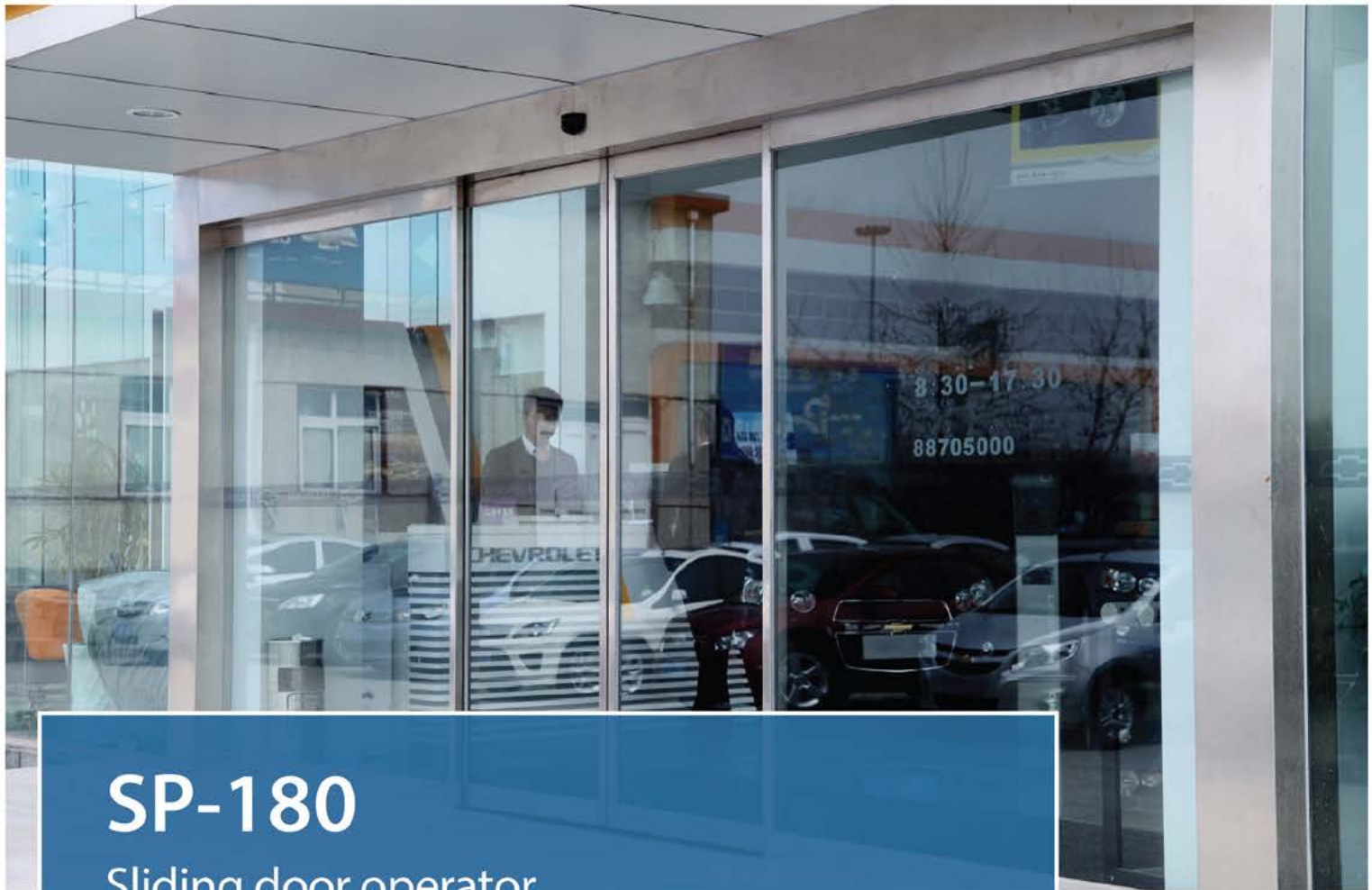
	Bi-parting	Single-winged
Max. wing weight	2 x 80 kg	1 x 100 kg
Clearance height	average 2100 - 2300 mm, maximum 2500 mm	
Clearance width	1000 to 3000mm	500 to 3000mm
Max. opening speed	0.6 m/s (adjustable)	
Max. closing speed	0.5 m/s (dependent on weight, adjustable)	

Technical Specifications

Dimensions	height	170 or 200mm
	depth	110 mm
Installation	flush mounted / wall mounted	
Mains power supply	AC 100 - 240V 5A 50/60Hz	
Power consumption	50 W	
Operating environment	-20°C to +50°C	10% to 90%RH



For further and more detailed technical information for this system, see SP-160 technical brochure.



SP-180

Sliding door operator

Max weight of 1 x 100 kg or 2 x 90 kg

SP-180 is particularly cost effective operator based on the SP-280 system, but modified for sliding door units of less weight to be used in areas of all applications. Reliability is guaranteed as many components are taken from the SP-280 system, which has a proven track record on international market,. Long working life, reliability and low maintenance costs are guaranteed and the movements of the door leaves are quiet, providing pleasant ambience in the rooms they serve.

Application

Perfectly suited for internal and external entrances with high traffic levels, for example in supermarkets, airports and banks and ideal for areas with frequent door movement. Some of the areas, but not limited to, where this system can be used include, administration buildings and public buildings, airports and railway stations, hotels, restaurants and other commercial and public buildings.

Specific product advantages

- Simple assembly and adjustment
- Easy to maintain
- Low wear due to high quality rollers
- Excellent cost/benefit ratio
- Extremely safe
- Fast opening and closing speeds
- Wide opening
- Tested to 1,000,000 cycles.



- ❶ **Motor** Manufactured in-house by SPACE, this very silent, lighter, new direct current, low wear and virtually maintenance free 60W motor is extremely efficient in energy use and can easily move door panels of up to 90kg. Equipped with sophisticated encoder that, a purpose built enclosed gear box, which provides silent and service free operation.
- ❷ **Roller carriage** optimal sliding characteristics, limited wear and tear, silent, anti drop protection, with two dimensional compensation characteristics for structural tolerances.
- ❸ **Running Track** manufactured using SPACE unique aluminium hardening process, ensures minimum friction, reduced noise levels and high service life
- ❹ **Control** Intelligent microprocessor control immaculately manages the door operational parameters, allows for adjustment of various parameters and features numerous safety functions:

- Obstacle detection with automatic reversing
- Emergency opening
- Emergency function in case of power failure
- Dynamic power limitations
- End point positioning
- Path measurement
- Ratchet (flip flop function)

Simple adjustment of the bellow parameters:

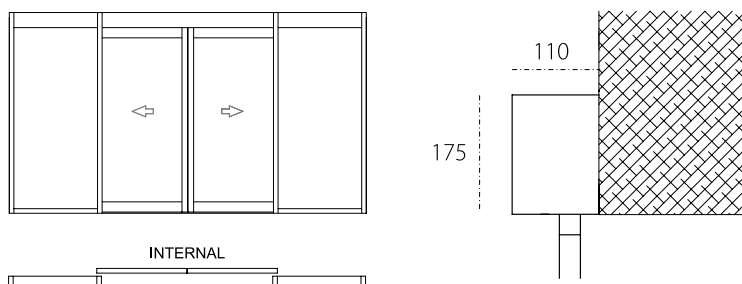
- Breaking and starting compensation
- Closing speed
- Opening speed
- Hold open time

Performance Data

	Bi-parting	Single-winged
Max. wing weight	2 x 90 kg	1 x 100 kg
Clearance height	average 2100 - 2300 mm, maximum 3000 mm	
Clearance width	1000 to 3000 mm	500 to 3000 mm
Max. opening speed	0.7 m/s (adjustable)	
Max. closing speed	0.5 m/s (dependent on weight, adjustable)	

Technical Specifications

Dimensions	height	170 or 200 mm
	depth	110 mm
Installation	flush mounted / wall mounted	
Mains power supply	AC 100 - 240V 5A 50/60Hz	
Power consumption	60 W	
Operating environment	-20°C to +50°C	10% to 90%RH



For further and more detailed technical information for this system, see SP-180 technical brochure.



SP-280

Sliding door operator

Max weight of 1 x 180 kg or 2 x 140 kg

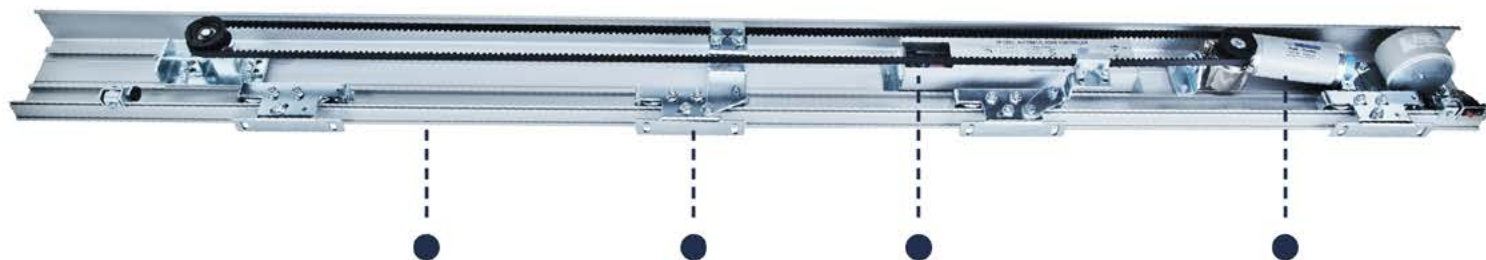
SP-280 is a top of the range, high performance automatic system designed to focus specifically on above average demands concerning high usage, reliability, superior performance and functionality. With proven track record in international markets, its high-quality materials and the latest motion sensor technology guarantee a premium performance. It can with gentle ease move heavy door leaves and at the same time, it offers the maximum opening speed on the market today.

Application

It is universally applicable and can be used for almost any entrance, whether commercial, private or public. Suitable for automatic sliding doors which are subject to high traffic volumes; where spacious entrance opening, functionality and safety are factor. It can be used with light or heavy, frameless and toughened glass panels. It can be used for exterior or interior doors and high security areas.

Specific product advantages

- Simple assembly and adjustment
- Elegant design
- Suitable for almost any entrance
- Low wear due to high quality materials
- Very silent
- High security
- Extremely safe
- Very fast opening and closing speeds
- Wide opening
- Tested to 3,000,000 cycles.



- ❶ **Motor** Manufactured in-house by SPACE, this high output, high speed and silent 80W motor can easily move even heavier door leaves. Equipped with sophisticated encoder, which can easily detect slightest of door movements. Features a purpose built enclosed hardened alloy gear box, which allows for faster door opening.
- ❷ **Roller carriage** optimal sliding characteristics, limited wear and tear, silent, anti-drop, with two dimensional compensation characteristics for structural tolerances.
- ❸ **Running track** manufactured using SPACE unique aluminium hardening process, ensures minimum friction, reduced noise levels and high service life
- ❹ **Control unit** Intelligent microprocessor control immaculately manages the door operational parameters, allows for adjustment of various parameters and features numerous safety functions;

- Obstacle detection with automatic reversing
- Emergency opening
- Emergency function in case of power failure
- Dynamic power limitations
- End point positioning
- Path measurement
- Ratchet (flip flop function)
- Electromagnetic locking

Simple adjustment of the below parameters:

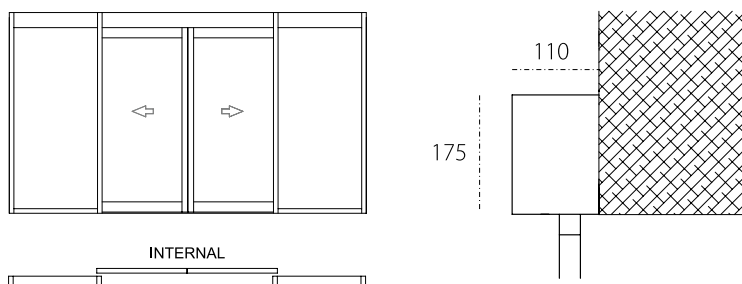
- Breaking and starting compensation
- Closing speed
- Opening speed
- Hold open time

Performance Data

	Bi-parting	Single-winged
Max. wing weight	2 x 180 kg	1 x 140 kg
Clearance height	average 2100 - 2300 mm, maximum 3000 mm	
Clearance width	1000 to 3000mm	500 to 3000mm
Max. opening speed	0.9 m/s (adjustable)	
Max. closing speed	0.8 m/s (dependent on weight, adjustable)	

Technical Specifications

Dimesions	height	175 and 200mm
	depth	110 mm
Installtion		fush mounted / wall mounted
Mains power supply		AC 100 - 240V 5A 50/60Hz
Power consumption		80 W
Operating environment		-20°C to +50°C 10% to 90%RH



For further and more detailed technical information for this system, see SP-280 technical brochure.



SPT-280

Telescopic sliding door operator

Max weight of 2 x 100 kg or 4 x 75 kg

Automatic telescopic door is an ideal solution where large opening is required with minimum space available and where good use of daylight is required. This system combines space saving versatility with the elegant look of a large clear opening. SPACE telescopic sliding doors is based on SP-280 mechanism and it uses 2 or 4 leaves to allow opening of up to 4000mm.

Application

Ideal where space is at minimum and is a great choice as a special entrance and to make any entrance stand out amongst other buildings. Particularly suitable for hotels and restaurants, airports, special retail outlets and personalized shops and other entrances where large opening is required, but space is limited.

Specific product advantages

- 25% larger opening widths
- Opening widths of up to 4000mm
- Durable design
- Single rail design
- Easier installation
- Design for high traffic areas
- Robust overall design



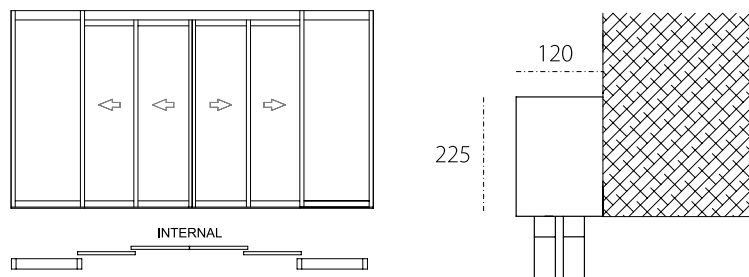
- ❶ **Motor** Manufactured in-house by SPACE, this high output, powerful 80W motor can easily move heavy door panels up to 200kg. Equipped with sophisticated encoder, which can easily detect slightest of door movements. Features a purpose built enclosed hardened alloy gear box, which allows for faster door opening.
 - ❷ **Roller carriage** optimal sliding characteristics, limited wear and tear, strenghtened material, anti-drop, with two dimensional compensation characteristics for structural tolerances.
 - ❸ **Running track** manufactured using SPACE unique aluminium hardening process, ensures minimum friction, reduced noise levels and high service life
 - ❹ **Control unit** Intelligent microprocessor control immaculately manages the door operational parameters, allows for adjustment of various parameters and features numerous safety functions;
 - Obstacle detection with automatic reversing
 - Emergency opening
 - Emergency function in case of power failure
 - Dynamic power limitations
 - End point positioning
 - Path measurement
 - Ratchet (flip flop function)
- Simple adjustment of the bellow parameters:
- Breaking and starting compensation
 - Closing speed
 - Opening speed
 - Hold open time

Performance Data

	Bi-parting	Single-winged
Max. wing weight	4 x 75 kg	2 x 100 kg
Clearance height	average 2100 - 2300 mm, maximum 3000 mm	
Clearance width	1000 to 3000 mm	1600 to 3600mm
Max. opening speed	0.8 m/s (adjustable)	
Max. closing speed	0.7 m/s (dependent on weight, adjustable)	

Technical Specifications

Dimesions	height	225 mm
	depth	120 mm
Installtion	fush mounted only	
Mains power supply	AC 100 - 240V 5A 50/60Hz	
Power consumption	80 W	
Operating environment	-20°C to +50°C	10% to 90%RH



For further and more detailed technical information for this system, see SPT-180 technical brochure.

A photograph of a person walking through a large glass sliding door in a modern building. The door is framed in a light-colored metal. The person is seen from behind, walking away from the camera. The background shows a multi-story building with many windows.

SP-380

Sliding door operator

Max weight of 1 x 200 kg or 2 x 190 kg

SP-280 is a heavy duty automatic sliding door that is tough operator that can be used for heavy applications. It is engineered to accommodate the extremes of automatic door weights while at the same time ensuring maximum safety. Utilizing sophisticated SP-280 electronics, its powerful purpose built 120W motor and steel gearbox provides high torque and great control over heaviest doors., making the movement of even large doors very safe.

Application

The SP-380 automatic door operator is suitable for heavy duty applications and is a proven performer for industrial and commercial applications. It can be used in airports, shopping centre's loading section, supermarkets, hotels, hospitals, sports stadiums, factories, warehouses and many other industrial and commercial sites that require a solution to the extremes of automatic door control..

Specific product advantages

- Designed for industrial use
- Powerful yet safe
- Easy to install
- Strengthened components
- High max height of opening
- High opening widths
- Robust overall design



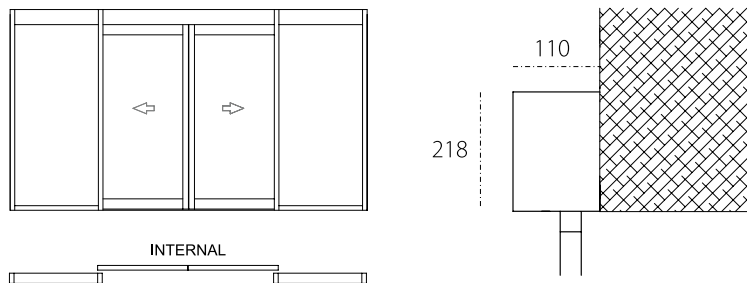
- ❶ **Motor** Manufactured in-house by SPACE, this high output, powerful 120W motor can easily move heavy door panels up to 200kg. Equipped with sophisticated encoder, which can easily detect slightest of door movements. Features a purpose built enclosed hardened alloy gear box, which allows for faster door opening.
- ❷ **Roller carriage** optimal sliding characteristics, limited wear and tear, strenghtened material, anti-drop, with two dimensional compensation characteristics for structural tolerances.
- ❸ **Running track** manufactured using SPACE unique aluminium hardening process, ensures minimum friction, reduced noise levels and high service life
- ❹ **Control unit** Intelligent microprocessor control immaculately manages the door operational parameters, allows for adjustment of various parameters and features numerous safety functions;
 - Obstacle detection with automatic reversing
 - Emergency opening
 - Emergency function in case of power failure
 - Dynamic power limitations
 - End point positioning
 - Path measurement
 - Ratchet (flip flop function)
 Simple adjustment of the bellow parameters:
 - Breaking and starting compensation
 - Closing speed
 - Opening speed
 - Hold open time

Performance Data

	Bi-parting	Single-winged
Max. wing weight	2 x 190 kg	1 x 200 kg
Clearance height	average 3100 - 3300 mm, maximum 5000 mm	
Clearance width	1000 to 4000mm	500 to 2000mm
Max. opening speed	0.4 m/s (adjustable)	
Max. closing speed	0.3 m/s (dependent on weight, adjustable)	

Technical Specifications

Dimesions	height	218 mm
	depth	110 mm
Installtion	fush mounted only	
Mains power supply	AC 100 - 240V 5A 50/60Hz	
Power consumption	120 W	
Operating environment	-20°C to +50°C	10% to 90%RH



For further and more detailed technical information for this system, see SP-380 technical brochure.



Activation devices

Every automatic door must be incorporated with an activation device. There are numerous activation devices for various uses and requirements. At SPACE we have a range of activation systems including microwave sensors, infrared sensor, push buttons, wireless devices and many other devices suitable for various applications.

Sensors

We have a wide range of sensors based on various technologies, which can detect all objects within the field of the sensor. We have microwave sensors as well as infrared sensors which can be used with our systems depending on what the requirements of the entrance are.

Push buttons

Various push buttons can also be used for activation of our systems. In some instances, especially places with passing by pedestrian traffic or in tight space, the use of push buttons is preferable to the use of sensors, in order to avoid unnecessary openings of the doors.

Wireless activation

The daily use of automatic doors can be made easier using wireless control devices. Disable, elderly and physically weaker citizens can be afforded easier mobility with such devices as tiny radio modules which can be carried in the pocket by multiple persons. With a range of at least 40 meters, the user has the ability to control the door functions over greater distances and even through walls.

Safety devices

Safety of the automatic doors can be guaranteed using various SPACE devices, which ensure that the entrance meets the highest operational safety standards.

Presence sensors

Various presence sensors, such as photocell and light curtains can provide protection against crushing by sliding doors during the closing and opening cycle.

Combined sensors

These sensors combine radar movement technology for opening the doors and active infrared technology for user protection. It is ideal as an opening activator and at the same time it prevents injuries from crushing.

SPACE can offer a full comprehensive range of safety and actuation devices that can be applied to specific context or requirements. Smart motion sensors, function selectors, items for safety and emergency, are just few of the many accessories that can be combined with SPACE automatic door systems.

Emergency battery

Battery is a must, especially where the doors are used for emergency exit. SPACE battery pack has been designed to ensure the functioning of the automatic door in case of power blackout. The battery guarantees backup operating power for the door to open and close for about 40 minutes and it can keep the system on standby mode for over 48 hours.

Security devices

Security of the automatic doors is another important feature. Automatic doors should be as secure as any other door and at SPACE we have numerous devices that can be effectively used to secure SPACE automatic doors.

Electromechanical lock

Specifically designed by SPACE and manufactured for use with automatic doors. It provides solid resistance against forceful attempts to open the doors and it can be easily installed within the profile. The lock is designed to be fail safe and fail secure, in combination with SPACE UPS battery backup system.

Access control systems

Whether it is the main entrance, side entrance or internal entrance into a room or an office, the entry can be controlled using various access control systems. At SPACE we can provide equipment to limit the access into restricted spaces via the use of cards, personalized codes, fingerprint, etc.

As shown in the above pages, the complete range of SPACE automatic sliding doors and systems have all the qualities that are required of automatic doors and as a result they can be used almost anywhere.

- Hotels • restaurants • health clubs • fitness facilities • bars • night clubs • theaters
- museums • car dealerships • banks • cloth shops • coffee shops • corner stores
- car dealerships • fuel stations • supermarkets • shopping malls • office buildings
- train stations • bus stations • bus stops • inside of houses • hospitals • doctors clinic
- pharmacies schools • universities • colleges • airports • airport smokers lounge
- departure/arrival gates • public toilets • security areas • car parks • disabled access
- isolation of elevators and stairs

Commercial sectors, where the main purpose of the organizations is to make profit, an elegant façade, such as automatic doors can distinguish businesses from competitors and attract people to enter. Places such as hotels often use automatic doors to enhance the experience for its guests. Hotels use automatic doors because they are not just places to stay they offer an experience and opportunities to relax. With high range of visitors who are often tired from business, hotel entrances and partitioning must be safe and convenient.

Automation entrances is a must have when it comes to various for various retail applications. Shops, stores, restaurants, bars, cafes, supermarkets are just few of the places where SPACE automation systems can be used. In retail sector particularly, an aesthetically pleasing entrance can distinguish your business from others and entice people to enter. The quick opening of SPACE sliding doors is useful, as pedestrians with baby buggies, luggage, and supermarket trolleys can be conveniently accommodated.



Train stations, airports and other public transport systems are exposed to numerous risks. The number of travelers and commuters is increasingly around the world, which increases the requirements of the entrances in this sector. SPACE can offer well thought out and numerous security and safety solutions for making for comfortable access. High traffic entrance doors, safety doors, controlled access high security areas to platform screen doors for terminal trains. SPACE automatic door systems can be used for all of these applications.

Entrances to a public facility should enhance the experience and ease of access for visitors as well as provide convenience and security for people who work there. In hospitals and scientific labs, automatic doors can be used to ensure clear and save working environment. They provide a convenient way of opening doors to dedicated facilities for disable and elderly users. Other public spaces such as government institutions, educational institutions, sports arenas and museums can all benefit from SPACE automatic entrance solutions.

All the latest news on SPACE automatic doors at



www.linkedin.com/company/space-automatic-doors



www.youtube.com/SPACEautomaticdoors



www.facebook.com/spaceautodoor

Find out more at **www.spaceautodoor.com**

