www.stworld.net

AUTO DOORS

- Single sliding door
- Double sliding door
- Revolving door
- Security full height turnstile gate
- Speed gate

plus®

THE BEST AUTODOOR OPERATOR

STWORLD Co., Ltd.

Company words…

Satisfaction

Customer satisfaction is our biggest goal. We find out what you need from the first order to the last maintenance. We promise you to provide the best service until you are satisfied.

Technology

We are not satisfied with our technology now. We keep investing to develop more convenient and safe products based on the constant market research and customer feedback.

Worthiness

We hope all products you purchase will be worthwhile to you.
We put our heart into each product from small components to completed products.

Originality

We supply special products with our own original technology, design, and service.
STWORLD products can't be compared with others.

Readiness

We are always prepared. We always stand beside you to get your advice.

Leadership

We lead global automatic door market with development of advanced products and globalized service.

Desire

We hope to grow up with you.
We, STWORLD, will try with our best effort to win–win with you.

We keep running since 1999

2014 Passed 3 million cycling test

2013 Acquired GOST for Turnstile gate

2013 Acquired ISO9001

2012 Acquired GOST for Auto sliding door

2011 Acquired CE certificate for revolving door

2009 Acquired an auto sliding door CE certificate

2006 Got award from KOTRA
2005 Acquired Quality Assurance Mark
2002 Applied for a patent for automatic door operator
1999 Converted into a corporation
1997 Developed emergency-escape automatic door

Auto sliding door

It is inconvenient to open a door by hand. Automatic doors make us to open doors easily so they are being installed in many buildings. Automatic doors are used in sanitary places as hospitals or public buildings.
Many automatic doors are installed, especially in shopping center, government office, airport, hospital, office building, hotel, and restaurant.

PLUS Auto sliding door is…

Durablility

Our auto door is remarkably durable.
STWORLD automatic door passed 3 million cycling test. This is the test performed under the supervision of an institution approved by government to check how many times an automatic door can repeat opening and closing without stopping. Our door has been repeating opening and closing over 3 million times for over 9 months since we started the test. It means you can use our auto door which opens average 300 times a day for over 27 years.

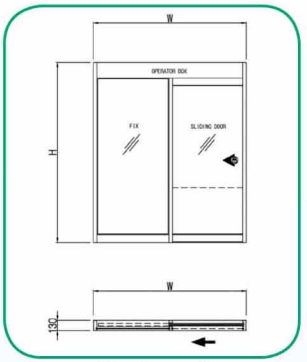
Safety Function

Auto door operates mechanically so the most important thing in manufacturing is the safety of persons. Our automatic door controller has safety sensor function and any safety sensor of other companies is compatible with our product.
When door hits people or objects, it immediately moves backward so passers can pass safely. 3S(Side Screen Sensor) function is special technology of STWORLD to protect the accident which can occur when door opens.

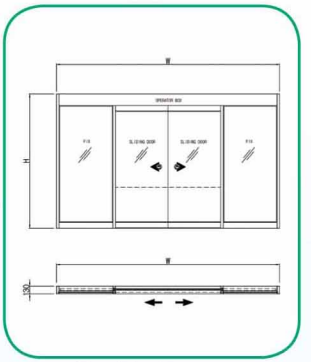
Easy Installation

The structure is convenient for installation and maintenance. Especially ST-25 can be completely installed by only fixing control box on the wall since components are already equipped in the system box. Component replacement is easy.
You can save your time for installation and maintenance.

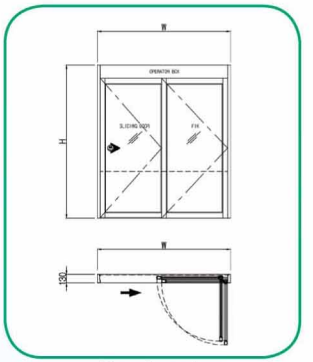
Standard drawings



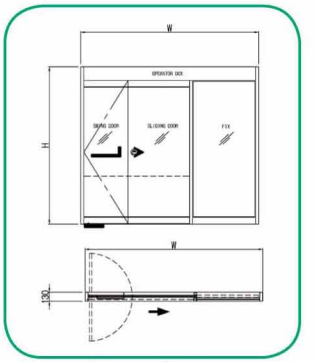
Single leaf



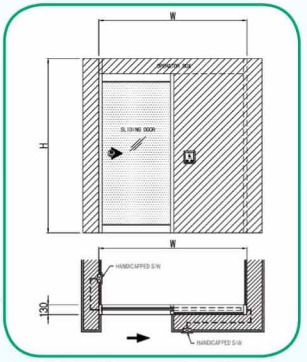
Double leaves



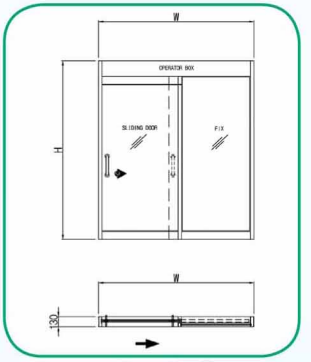
Break out



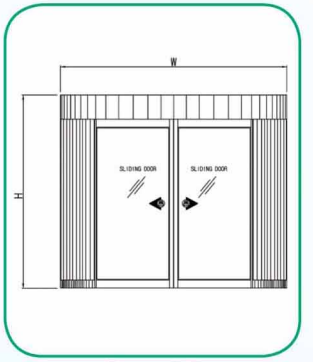
Three pieces



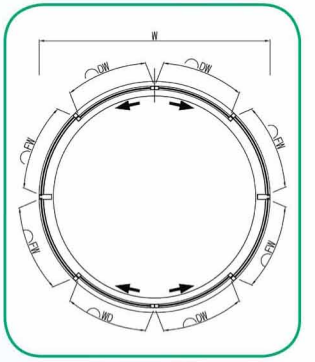
Handicapped toilet



Smooth



Curved 1



Curved 2

Various operator rail

	Single leaf	Double leaves	Ceiling mount	Wall mount	A/L Cover
ST-10S	●		●		
ST-10D		●	●		
ST-15S	●			●	
ST-15D		●		●	
ST-20S	●		●		●
ST-20D		●	●		●
ST-25S	●			●	●
ST-25D		●		●	●

Auto Sliding Door Technical Specifications

	ST-10, ST-15 (Coverless type)		ST-20, ST-25 (Cover type)	
Model No.	ST-10(S), ST-15(S), 2M	ST-10(D), ST-15(D), 4M	ST-20(S), ST-25(S), 2M	ST-20(D), ST-25(D), 4M
Max. Door Weight	130kg x 1	120kg x 2	130kg x 1	120kg x 2
Running Length	500~3,000mm	1,000~6,000mm	500~3,000mm	1,000~6,000mm
Power Supply	180 ~ 240V (SMPS Type)			
Rated Current	Max. 1A, Free Frequency			
Control Type	PI (Proportional Integrate) control			
Motor	100W, DC 24V Motor (Dunker motor: Germany)			
Power Transmission	S8M Timing Belt			
Open Speed	135mm/sec ~ 550mm/sec			
Close Speed	75mm/sec ~ 350mm/sec			
Opened Holding Time	Max. 60 hour			
Counting Function	Operating #, Bumping #, Power #			
Operation Temperature	-20℃ / +55℃			

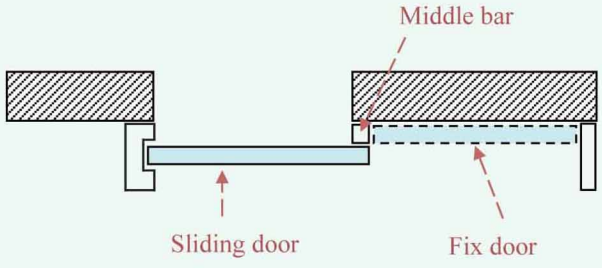
Ceiling mount type and Wall mount type

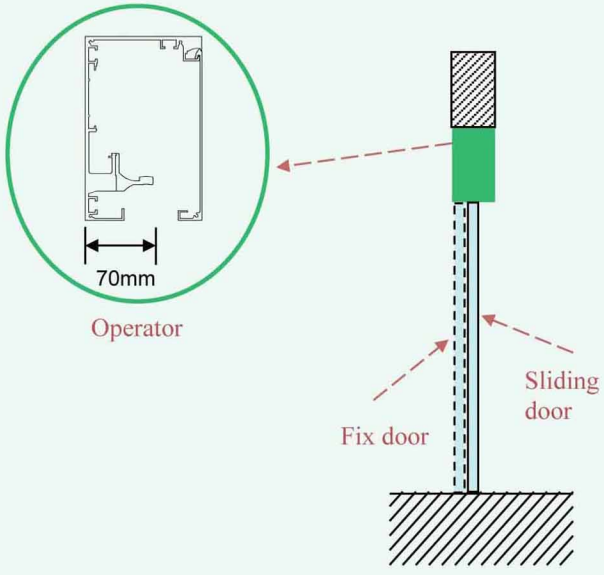
STWORLD offers wall mount type and ceiling mount type of automatic door rails.
You should choose appropriate rail according to installation way and place.

Ceiling mount type

We have ST-10 series without aluminum cover
and ST-20 series with aluminum cover.

The distance from left side to the end of track in operator box is 70mm. Generally, put the system box on the ceiling as the right picture. However, 50mm middle bar is needed for installing it on the wall as below.

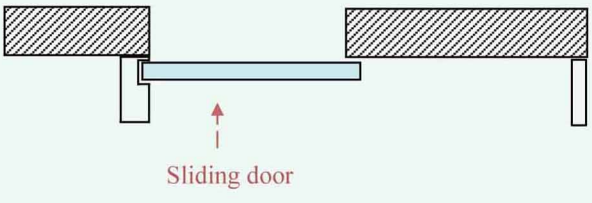


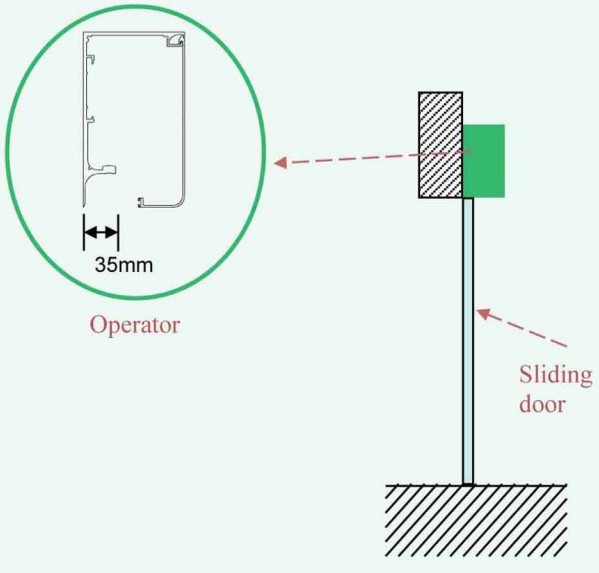


Wall mount type

We have ST-15 series without aluminum cover and
ST-25 series with aluminum cover.

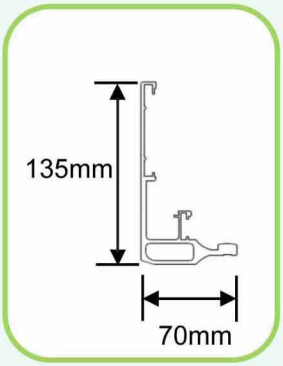
The distance from left side to the end of track in operator box is 35mm. Generally, put the system box on the wall as the right picture.





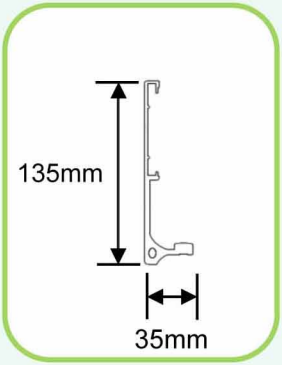
ST-10 Series

STWORLD offers Single(ST-10S) and Double(ST-10D).
Since aluminum system box is not included, you should manufacture stainless steel system box by yourself to use this product.
So it is better for you to use this product for more gorgeous exterior of automatic door. It is also used for matching color with surrounding windows and doors. (If you order double, we ship the product by cutting the rail in half.)
The distance to the track is 70mm. It is installed by ceiling mount.



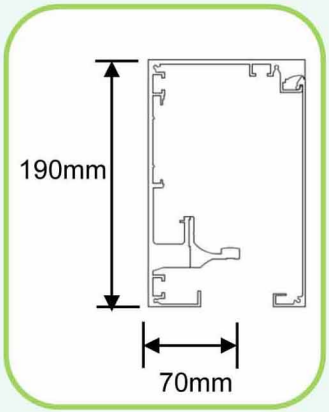
ST-15 Series

STWORLD offers Single(ST-15S) and Double(ST-15D).
Since aluminum system box is not included, you should manufacture stainless steel system box by yourself to use this product.
So it is better for you to use this product for more gorgeous exterior of automatic door. It is also used for matching color with surrounding windows and doors. (If you order double, we ship the product by cutting the rail in half.)
The distance to the track is 35mm. It is installed by wall mount.



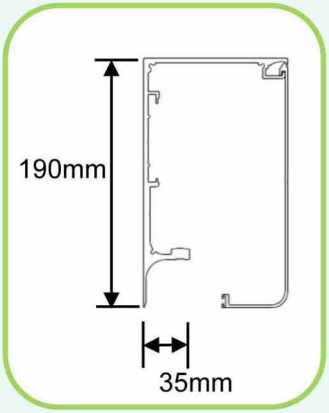
ST-20 Series

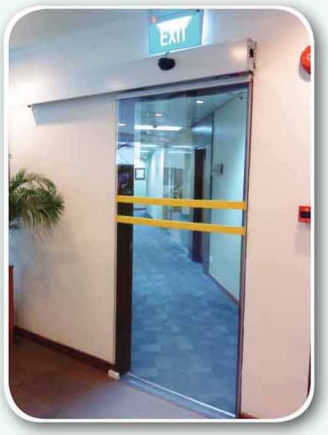
STWORLD offers Single(ST-20S) and Double(ST-20D).
Since aluminum system box is included, it is easy to install and install time is reduced.
It is better for you to paint aluminum with same color as surrounding windows and doors for more gorgeous exterior of automatic door. It is also used for matching color with surroundings.
The distance to the track is 70mm. It is installed by ceiling mount.



ST-25 Series

STWORLD offers Single(ST-25S) and Double(ST-25D).
Since aluminum system box is included, it is easy to install and install time is reduced.
It is better for you to paint aluminum with same color as surrounding windows and doors for more gorgeous exterior of automatic door. It is also used for matching color with surroundings.
The distance to the track is 35mm. It is installed by wall mount.





Sliding Door Packing Component

Part		ST–10S	ST–10D	ST–15S	ST–15D	ST–20S	ST–20D	ST–25S	ST–25D
Rail		2m	2+2m	2m	2+2m	2m	4m	2m	4m
Motor		1ea	1ea	1ea	1ea	1ea	1ea	1ea	1ea
Controller		1ea	1ea	1ea	1ea	1ea	1ea	1ea	1ea
Hanger roller		2ea	4ea	2ea	4ea	2ea	4ea	2ea	4ea
Idle pulley		1ea	1ea	1ea	1ea	1ea	1ea	1ea	1ea
On/off switch		1ea	1ea	1ea	1ea	1ea	1ea	1ea	1ea
Timing belt		3m	7m	3m	7m	3m	7m	3m	7m
Guide roller		1ea	2ea	1ea	2ea	1ea	2ea	1ea	2ea
Single belt connector		1ea	1ea	1ea	1ea	1ea	1ea	1ea	1ea
Double belt connector		–	1ea	–	1ea	–	1ea	–	1ea
Upper sensor		2ea	2ea	2ea	2ea	2ea	2ea	2ea	2ea
Safety sensor		1ea	1ea	1ea	1ea	1ea	1ea	1ea	1ea
Side bracket		–	–	–	–	1 pair	2 pairs	1 pair	2 pairs
Estimated Weight (kg)		20	26	20	26	27	48	21	35
Estimated Packing Size (mm)		2060 *166 *166	2060 *166 *166	2060 *160 *140	2060 *160 *140	2050 *140 *210	4070 *140 *205	2050 *140 *210	4070 *140 *205

Accessories

* Upper sensor

Maximum mounting height : 3m
Tilt angles : 15 ° –45 °
Max. detection field : 4m x 2m (mounting height = 2.2m)
Detection mode : motion
Minimum speed : 5 cm/s (measured in the sensor axis)
Supply voltage : 12V to 24V Ac+/–10%; 12V to 30V DC
Mains frequency : 50 to 60 Hz
Output hold time : 0.5s

* Safety sensor

Supply voltage : AC/DC 12V ~ 24V (Non–polarity)
Relay contact capacity : 24V/1A
Operation temperature : –20℃ ~ 60℃
Working distance : 10m Max
Current consumption : Standby 75mA/ Active 100mA
Weight : Control box 75g / Sensor 133g (Including 7m cable)

* Select switch

5 mode select : 1. Automatic
2. Continuously open
3. One way
4. Locked
5. Half open

* Glass door patch

Use for frameless door
1 pair for single door
2 pairs for double door
Distance between hole : 120mm
Diameter of each hole : 8mm
Weight : 0.88kg

* Key switch

2 mode select : 1. On
2. Off

* Battery pack

Voltage : DC24V
Current : 2.4A
300 cycles open & close on power failure
Waiting time : 24 hours

Revolving Door

STAR 100 (Manual revolving door)

STAR 300 (Glass typed revolving door)

STAR 500 (Automatic revolving door)

STAR 700 – 3W, 4W (Show cased revolving door)

STAR 700 – 2W (2–wing revolving door)

2–Y typed revolving door

Security Full Height Turnstile Gate

STAR-Turn (Metal)

Metal type	
Manual or semi-automatic	Operation
Outdoor	Installation
220AV 50/60Hz, 10A	Power
24VDC, 2A (Self supply)	Control
1200 person / hour	Capacity
Stainless steel hairline 1.5T (changeable)	Finish
Motor brake base on the PLC control system	Control
RF card, fingerprint verification, etc.	Access
X	Illumination
Military base, chemical factory, power plant, sanitary place, sports center, etc.	Application

STAR-Turn (Glass)

	Glass type
type	Full-automatic
place	Indoor
supply	220AV 50/60Hz, 10A
power	24VDC, 2A (Self supply)
per hour	700 person / hour
material	Wing : 12mm tempered glass Wall : 8mm bent glass
system	Motor brake base on the PLC control system
device	RF card, fingerprint verification, etc.
device	50W halogen lamp
place	Airport, public office, research facility, subway station, exhibition area, etc.

Speed Gate

Specification

Mainboard	CPU : 32 bit ARM Microprocess Memory : 256 kbit RAM : 48 kbit
Communication	RS 485 / USB
Drive System	Germany DUNKER DC Motor Drive System
Use Mode	Normal Close, Open, Free pass
Door Height	900~1,800 mm
Passage Width	550mm~600mm
Operation Speed	0.5sec~1.0sec
Material	Stainless Steel, Acryl, Tempered glass
Power Supply	AC 110V ~ 220V (±10%)
Temperature	−15℃ to 45℃
Maximum Door Weight	150Kg
Operation Method	Direct sliding method
Special Function	Check error. Check frequency of use.
Passage Indication	Front pictogram and upper led light.
Door Size	1,400mm(W) x 1,000mm(H) x 330mm(D)

Feature

- Outstanding durability and stability compare to down sliding by applying direct sliding type
- Introduction of Intelligent Recognition system by using security sensor and safety sensor
- Completion of high quality design by using LED / Attaching and detaching of front and back finishing material
- Enhancement of security by adjusting the height of Sliding Glass

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plus®

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