



**MADE IN KOREA**

# **AUTOMATIC DOOR OPERATOR**

## **WOOSUNG AUTO DOOR**



**Woosung Auto Door Co.,Ltd.**

86 (Seongsu-dong 2-ga), Seongdong-gu, Seoul, Korea.



# AUTOMATIC DOOR SLIDING

**DIGITAL SERVO CONTROLLED 120W DC MOTOR**

WS-F Series Microprocessor Controlled Automatic Door adopts intelligent operator containing an ergonomic mechanical engine and artificial intelligence idea. Therefore, this product is better most of Royal Automatic Door with smooth operation and high Quality of multi-function.

## Automatic Return Function for Safety

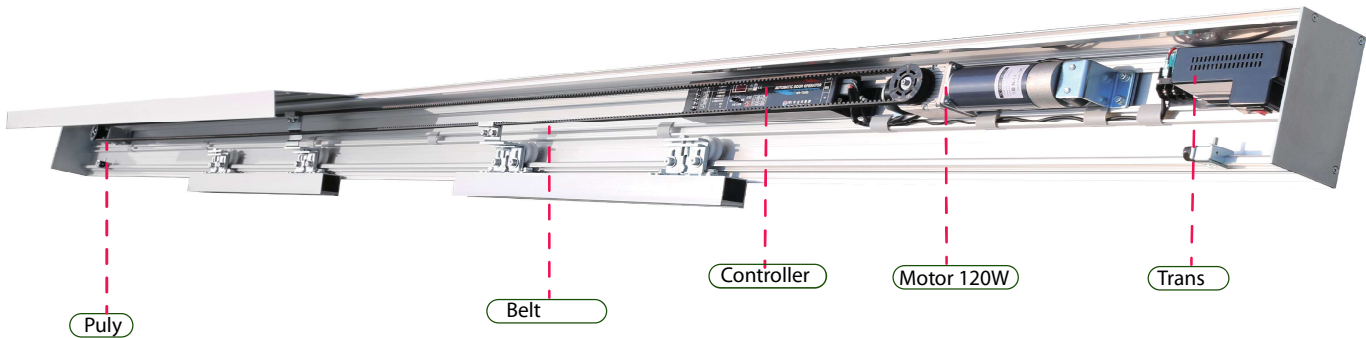
When the thing or the person interferes in the duty of automatic door's opening and shutting, operation returns or stops and identifies the obstacle which secure safety.

## P,I,D Servo Controlling Compensation Function

Using P.I.D Servo for the automatic door operation control which makes the door to operate in exact position without any slip or elongation of the door belt.

## Emergency Opening Function

When a fire or a power failure occurs, the back-up power operates immediately making possible to open the door automatically (it is option).



## MicroPreocessor Controller

Self-protection mechanism is in the control unit of microprocessor that always controlled at constant speed and position by micro processor and speed servo system. In addition, it is highly delicate and smooth with long life cycle of the operator

## Expansion S/W for the future high performance

This is the expansion switch which satisfies the civilizational need of the user which contains the strong will of future-oriented Royal Automatic Door, meeting the highly intensed information industrial

## Door weight indicate table

	Weight(kg)	10	20	30	40	50	60	70	80	90	100
AL 6mm (Aluminum)	1,100X2,400							45			
	1,100X2,100							40			
	900X2,400							35			
	900X2,100							30			
TG 10mm (Tempered Glass)	750X2,100							25			
	1,100X2,400							75			
	1,100X2,100							70			
	900X2,400							65			
TG 12mm (Tempered Glass)	900X2,100							60			
	750X2,100							55			
	1,067X2,438							100			
	914X2,438							90			
TG 12mm (Tempered Glass)	1,067X2,134							80			
	914X2,134							70			
	762X2,134							60			

DWxDH(mm) kg



# AUTOMATIC DOOR SLIDING



## Energy saving Type

By using the power circuit of high efficiency, the automatic door, as to steady opening and shutting are possible in the rapid voltage change. And, it is the energy-saving type minimizing the power loss by the motor control of PWM method.

## Set up the function by using Remote control

Easy to control the necessary functions of the automatic door by digital volume and remote control.

## Specification

Model	WS-F150(S)	WS-F150(D)	WS-F150(D)
Weight of the door	130kg	120kg x 2	150kg x 2
Rail size	2.4M (standard)	4.8M (standard)	6M (standard)
Width of the door	450-3000 mm		
Speed of the opening and shutting	200-600mm/sec (Controlled by 10 Stages)		
Opening maintenance time	0-50s (Variable)		
Input Voltage	AC220V 50/60 Hz		
Controlling Type	Digital microprocessor control		
Motor	120W	120W	150W
Operating temp	-20°C - + 55°C		

## 120W DC Motor

By using strong torque of the DC Motor and high-quality of the gearhead material, it operates strongly and smoothly from the start, not causing the overheating condition, helping the motoer life cycle be semipermant.



## Improved the operating convenience

All of the operators' positions are possible to set-up freely that it satisfies the several functioning conditions. For the power is operated by free-voltage (AC90V~250V), it is possible to set-up where the voltage is unstabilized. In addition, the contact-less reciver and the automatic lock function is in the control system that is improved the convenience of extending set-up.



## AUTOMATIC DOOR SLIDING



Single-Sliding Door      WS-F150 (S)

Double-Sliding Door      WS-F150 (D)

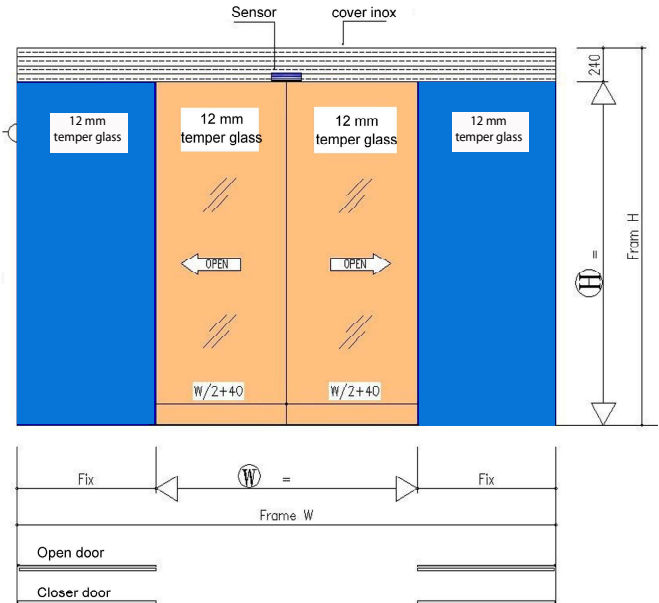
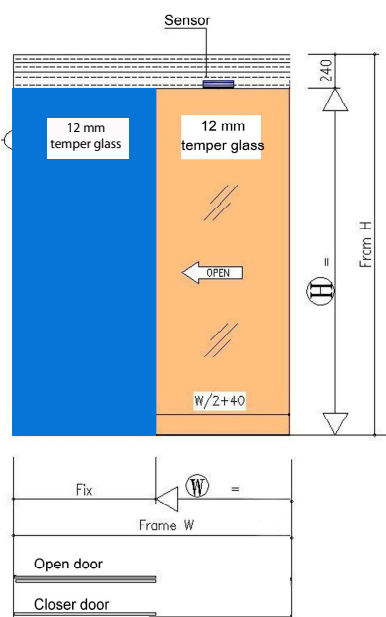
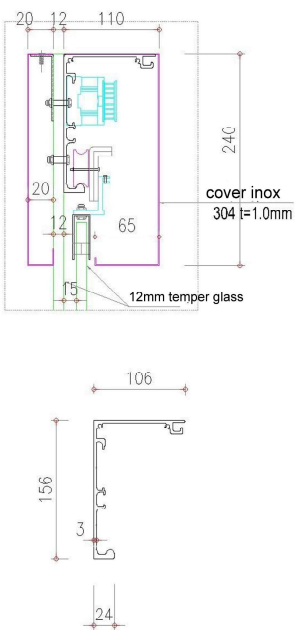
From the very sharrow type to very wide type of the door and from very light type to very heavy type of the door. All types can be applied to this built-in sliding automatic Door. It is highly favored at where the frequent access takes place.

Model	WS-F150(S)	WS-F150 (D)
Weight of the door	130kg	120kg x 2
Rail size	2,4M (standard)	4,8M(standard)
Width of the door	450-3000 mm	
Speed of the opening and shutting	200-600mm/sec (Controlled by 10 Stages)	
Opening maintenance time	0-50s (Variable)	
Input Voltage	AC220V 50/60 Hz	
Controlling Type	Digital microprocessor control	
Motor	120W DC Motor	
Operating temp	-20° C - + 55° C	

Section

Single

Double



unit : mm



## TELESCOPIC SLIDING AUTOMATIC DOOR

This is suitable for entrance with narrow space to drag door.

Single-Sliding Door      WS-F200 (S)

Double-Sliding Door      WS-F400 (D)

Because this door is Telescopic sliding type by interlocking two door at place which has little space and dragging in same direction. It is possible to utilize door's space.

This door is suitable for hospital where bed is moving or warehouse storing huge stuffs.

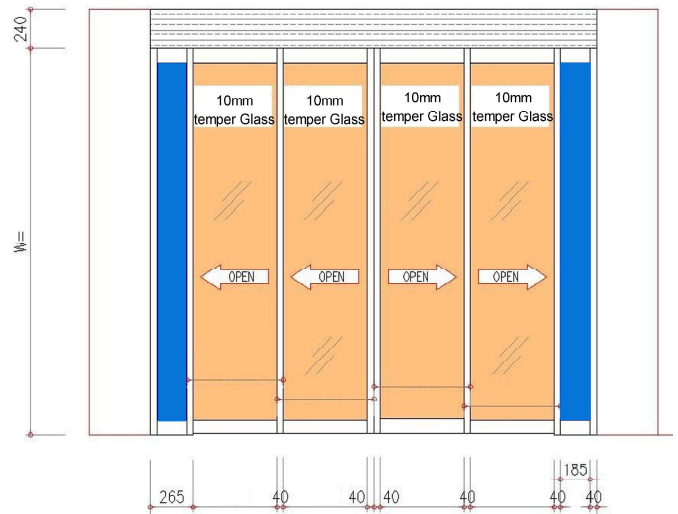
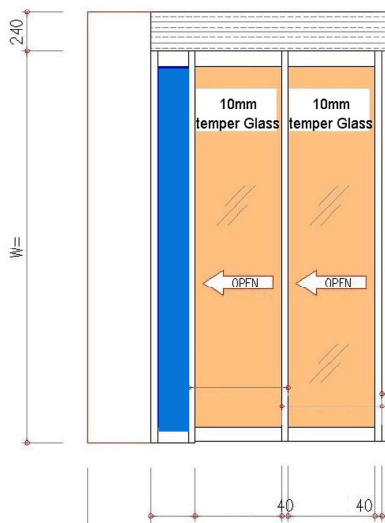
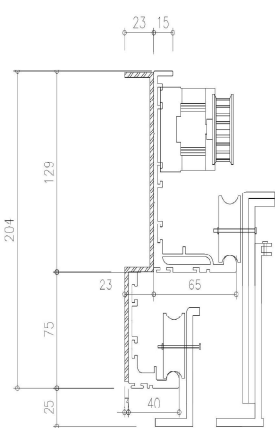


Model	WS-F200 (S)	WS-F400 (D)
Weight of the door	60kg x 2	60kg x 4
Rail size	2,4M (standard)	4,8M (standard)
Width of the door	450-3000 mm	
Speed of the opening and shutting	200-600mm/s	
Opening maintenance time	0-50s (tùy chọn)	
Input Voltage	AC220V 50/60 Hz	
Controlling Type	Digital microprocessor	
Motor	Motor 120W DC Motor	
Operating temp	-20°C - + 55°C	

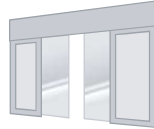
Section

Single

Double



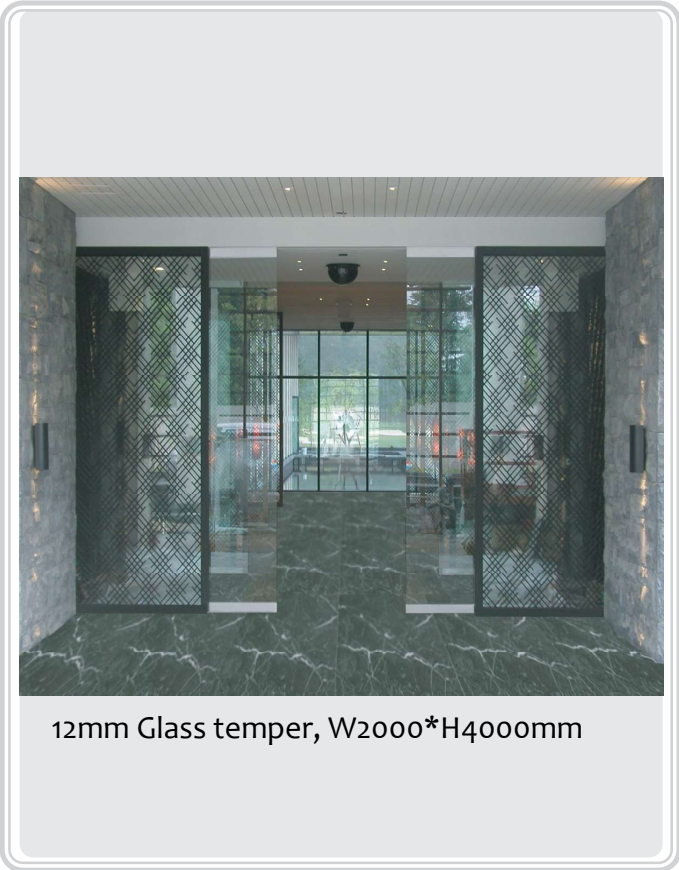
unit : mm



# INDUSTRIAL SLIDING AUTOMATIC DOOR

Smooth opening and closing movement helps factory's rationalization (to) product.

Single-Sliding Door	WS-F300 (S)
Double-Sliding Door	WS-F600 (D)



12mm Glass temper, W2000\*H4000mm

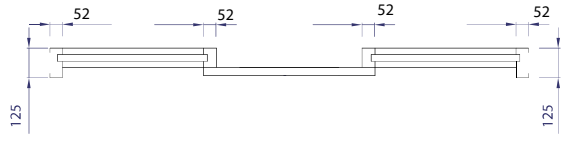
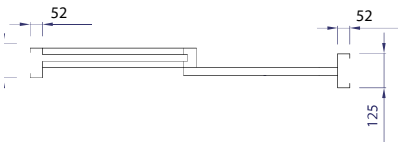
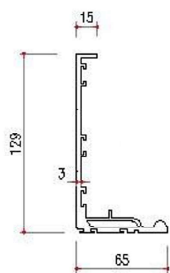
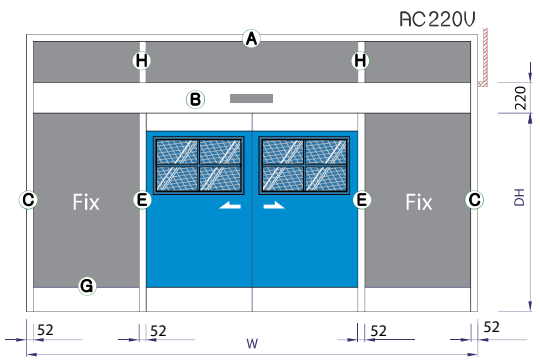
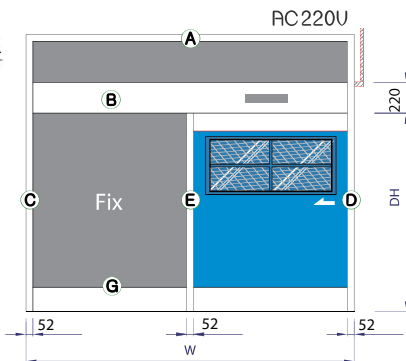
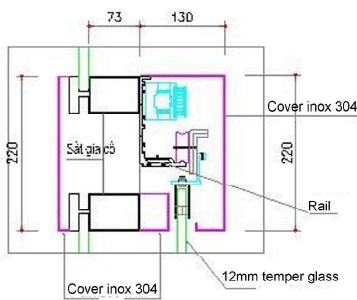
This door helps to transport safety and efficiently and makes reasonable working and energy conservation. There are many kinds of door in heavy weight of factory warehouse and cold storage. Therefore choose one suitable at site.

Model	WS-F300 (S)	WS-F600 (D)
Weight of the door	300kg	220kg x 2
Rail size	3M, 4M	6M, 8M
Width of the door	450-3000 mm	
Speed of the opening and shutting	200-600mm/s	
Opening maintenance time	0-50s (tùy chọn)	
Input Voltage	AC220V 50/60 Hz	
Controlling Type	Digital microprocessor	
Motor	Motor 150W DC	
Operating temp	-20°C - + 55°C	

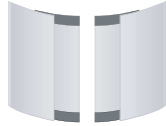
**Section**

**Single**

**Double**



unit : mm



# CIRCLE AUTOMATIC DOOR

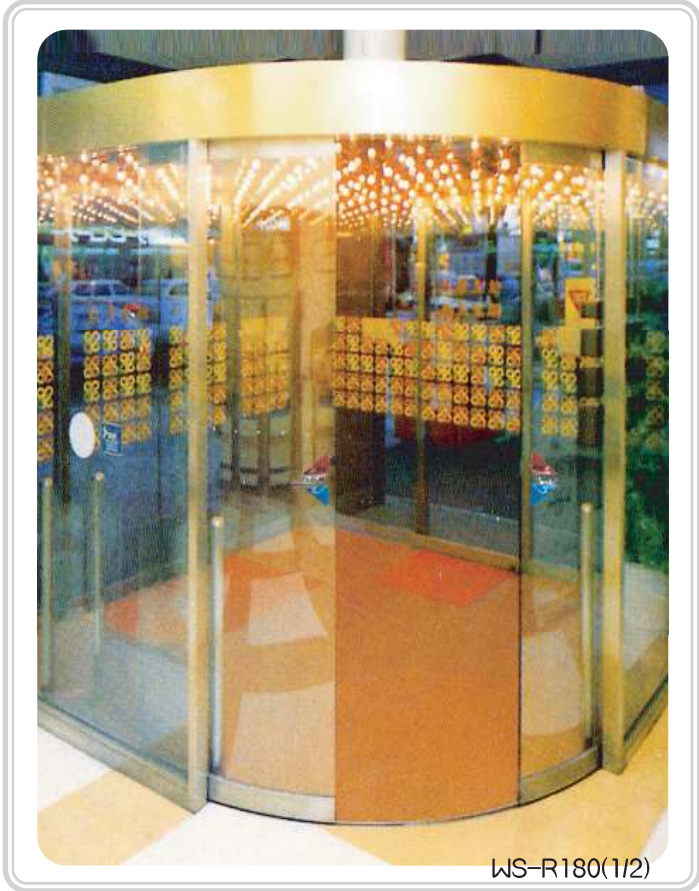
Circle automatic door to ennoble entrance

Single-Sliding Door	WS-R180(1/2)
Double-Sliding Door	WS-R360

The installation of circle automatic door at hotel, department store, high building and etc. enable the entrance and satisfy good appearance. There are two standard size, 1200R and 1500R, but the combination by 1/4 circle be able to make variable type of entrance and it makes be able to design according to different spaces because it keeps heating and cooling inside building by blocking wind

## Specification

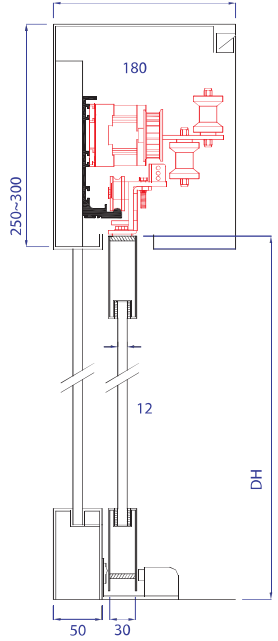
Model	WS-R180(1/2)	WS-R360
Weight of the door	130kg	120kgx2
Size	1.200R~1.500R	
Width of the door	450-3000mm	
Speed of the opening and shutting	200-600mm/ giây (được kiểm soát bởi 10 bước)	
Opening maintenance time	0-50sec (tùy chọn)	
Input Voltage	AC 90V~250V 50/60Hz	
Controlling Type	Digital microprocessor control	
Motor	Động cơ 120W DC	
Operating temp	-200C ~ + 550C	



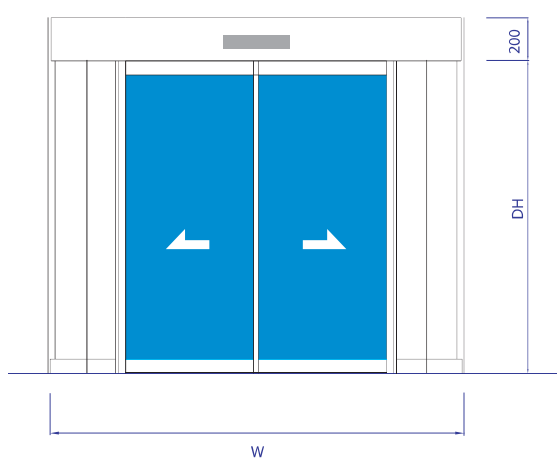
WS-R180(1/2)

## DRAWING

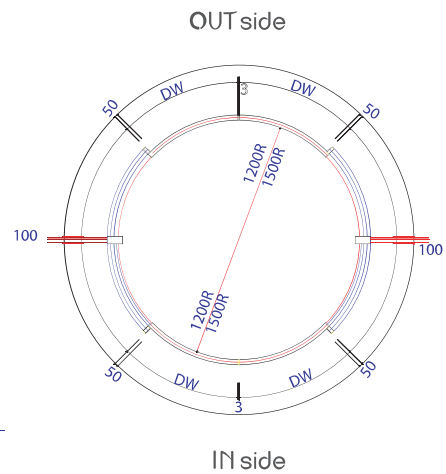
Section



Font view



Plane figure



unit : mm

# ACCESSORIES KOREA



Sensor motion MS805



Sensor motion TC500



Safety safe



Beam sensor  
TC R



Safety sensor  
SK 10DA



Soleid Lock



Wireless proximity  
switch R200



lot remote control reader  
TCW-835A



Interlock system  
TC- LOCK



Switch for the Handicapped  
WHD4



Remote controller  
TC 2600



Wireless touch switch  
TC 2500



Wireless proximity  
switch Y200



Number key  
Inno 95