GENERAL CATALOG



# AUTOMATIC
## DOOR OPERATOR
MADE IN KOREA

AUTOMATIC DOOR
KUM YANG KOREA

# KYK NEW DC-90

## Layout of engine components



**Timming belt**
- S8M
- Silent & sturdy type



**Controller**
- Dual-chip Micro-processing type
- Obstacle Detection
- Self Circuit Protection



**DC Brushless Motor**
- Motorlock 90W
- Opening speed 150 - 550mm/s





**Pulley**
- Role in placing timing belt pulley
- Added to control unit of adjust the belt tension



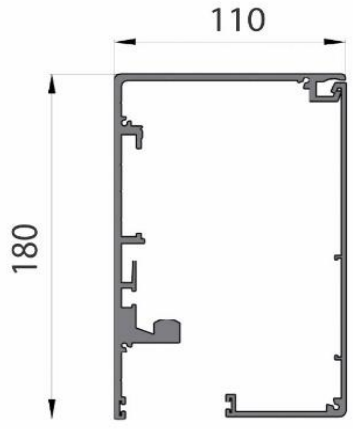
**Hanger Roller**
- Detailed adjustable door mounting
- Smooth and silent operation by hig and high elasticity roller
- Aluminum + Two structure of polyacetal

**On - Off switch**

## Specification

| Model Description | NEW DC - 90S (Single Door) | NEW DC - 90D (Double Door) |
|---|---|---|
| Door Weight | Up to150 kg x 1 | Up to 120 kg x 2 |
| Input Voltage | AC180V ~ 265V (50 / 60Hz) | |
| Motor | DC 24V 90W Brush DC Motor | |
| Opening Speed | 15-55 cm/s (adjustable) | |
| Closing Speed | 15-50 cm/s (adjustable) | |
| Operating Temperature | -20 ~ +45°C | |
| Sensor Input Contact | Non-voltage input signal | |
| Safety Sensor Contact | Non-voltage input signal | |

## Sectional Plan



AUTOMATIC DOOR
KUM YANG KOREA

# KYK NEW DC-90

## Features

- KYK NEW DC - 90 operator is Micom - control process way,so it can be easily adjusted speed control,interval setting, safety sensor setting.
- Operator can be quiet & exactly moved by high efficiency DC motor.
- More simple & convenient design for a built - in transformer and safety beam receiver in the controller.
- More soft & strong by installing new motor reducer technologies.
- Motor developed with advanced technology don't generate heat or noise even used for long hours and operates in an optimal state.
- Controller functions are controlled digitally with a micro processor and various control functions can be in put without difficulty for ease of use.



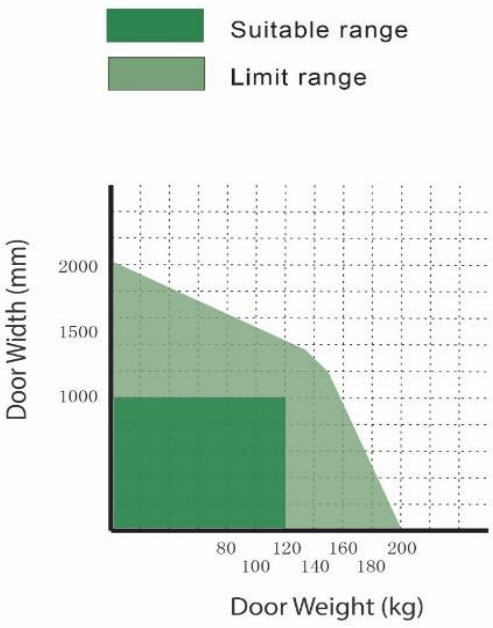




AUTOMATIC DOOR
KUM YANG KOREA

# SW-90

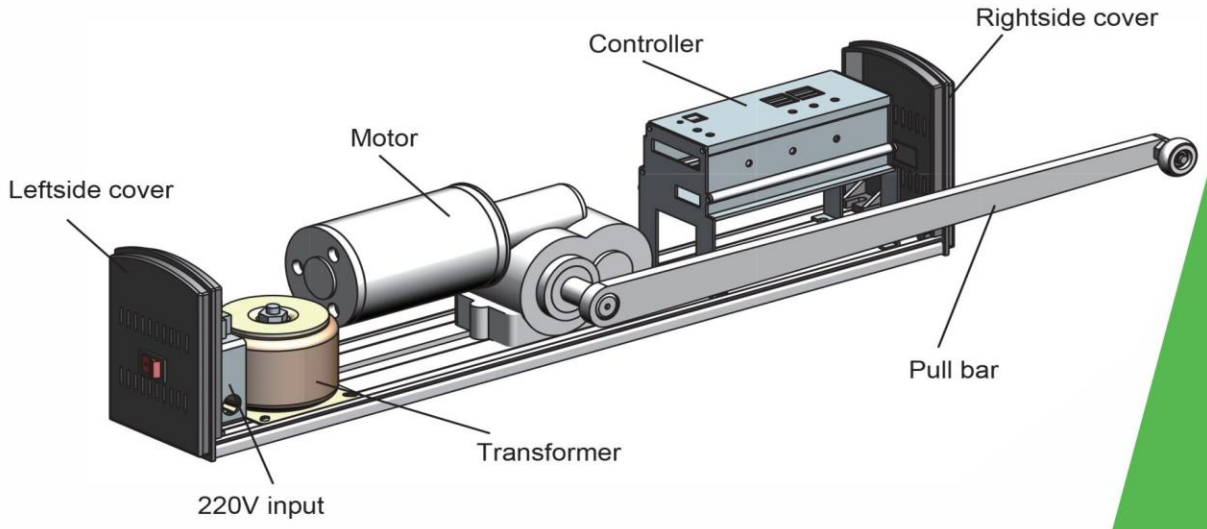


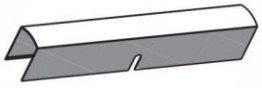
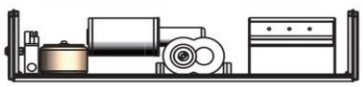



| Specification | |
|---|---|
| Dimensions | 515*80*115mm (LWH) |
| Weight | 8kg |
| Ambient Temperature | -20 ~ + 50 °C |
| Operation Voltage | AC 200V - 250V |
| Power Supply External Consumer | 24V DC ( ±10% ), 3A |
| Door Opening Angel | Max 120° |
| Opening Speed | 45°/s |
| Closing Speed | 45°/s |
| Hold-open Time | 0-60s |
| Protection Class | Ip42 |

- KYK Automatic sliding door SW90 is a stable and simple SWING DOOR OPERATOR. Max weight is 150kgs.
- Easy installation and adjustment, suitable for DIY!
- This model can connect with sensor and Photocell to active the door and offer safety.
- Extra automatic door components is also well fit, such as key switch,function pad, accessories.

## Layout of engine components



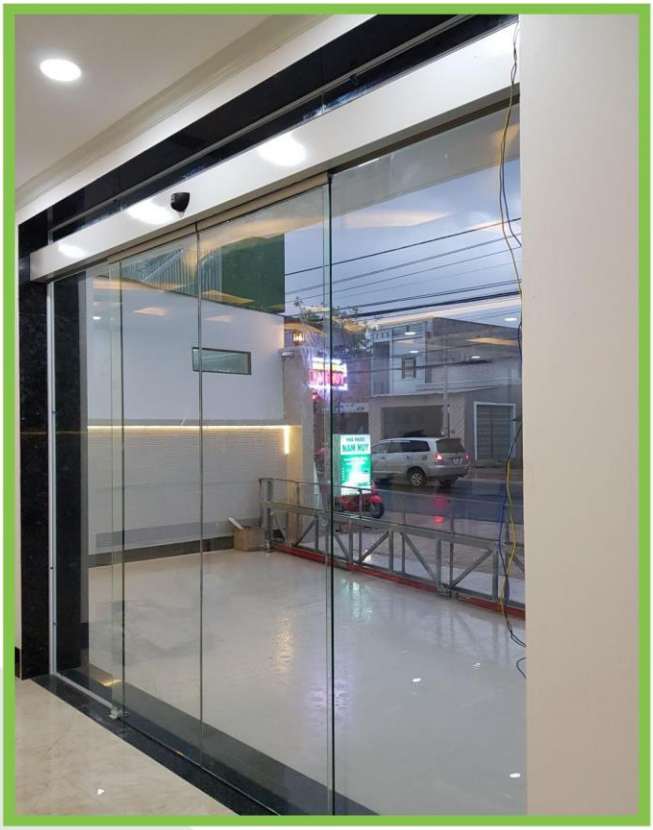

| | |
|---|---|
|  | Bottom plate |
|  | Pull bar |
|  | Cover |
|  | Pull guider |
|  | Mechanism |

# FALCON
## MODEL: KYK NEW DC-90

FALCON AUTODOOR

## FALCON
### MODEL: KYK NEW DC-90

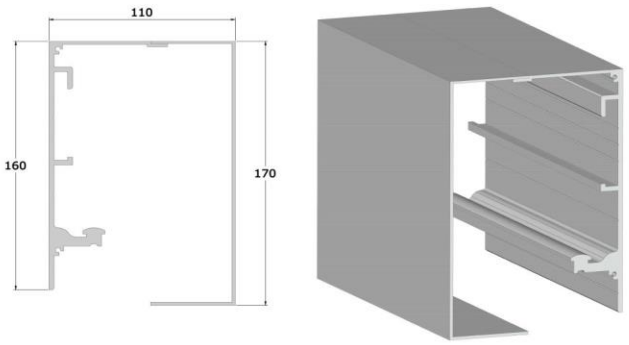
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- Operator can be quiet & exactly moved by high efficiency DC motor.
- More simple & convenient design for a built-in transformer and safety beam receiver in the controller.
- More soft & strong by installing new motor reducer technologies.
- Motor developed with advanced technology don't generate heat or noise even used for long hours and operates in an optimal state.
- Controller functions are controlled digitally with a micro processor and various control functions can be in put without difficulty for ease of use.



## Specification

| Model Description | NEW DC - 90S (Single Door) | NEW DC - 90D (Double Door) |
|---|---|---|
| Door Weight | Up to150 kg x 1 | Up to 120 kg x 2 |
| Input Voltage | AC180V ~ 265V (50 / 60Hz) | |
| Motor | DC 24V 90W Brush DC Motor | |
| Operating Temperature | -20 ~ +45°C | |
| Sensor Input Contact | Non-voltage input signal | |
| Safety Sensor Contact | Non-voltage input signal | |

## Sectional Plan



# FALCON
## MODEL: KYK NEW DC-90




## Layout of engine components



**Timming belt**
- S8M
- Silent & sturdy type




**Controller**
- Dual-chip Micro-processing type
- Obstacle Detection
- Self Circuit Protection



**DC Brushless Motor**
- Motorlock 90W
- Opening speed 100 - 600mm/s





**Pulley**
- Role in placing timing belt pulley
- Added to control unit of adjust the belt tension



**Hanger Roller**
- Detailed adjustable door mounting
- Smooth and silent operation by hig and high elasticity roller
- Aluminum + Two structure of polyacetal

**On - Off switch**

# FALCON
## MODEL: KYK BDLC - 150



## Layout of engine components



**Pulley**
- Role in placing timing belt pulley



**Timming belt**
- S8M
- Silent & sturdy type



**Controller**
- Dual-chip Micro-processing type
- Obstacle Detection
- Self Circuit Protection



**DC Brushless Motor**
- Motorlock 60W
- Opening speed 150 - 550mm/s



**Upper Sensor**
- Tilt angles: 0-90 degrees





**Hanger Roller**
- Detailed adjustable door mounting
- Smooth and silent operation by hig and high elasticity roller
- Aluminum + Two structure of polyacetal

**On - Off switch**

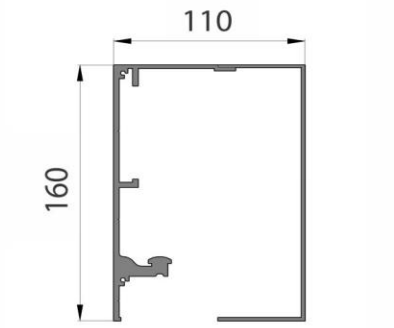
# FALCON
## MODEL: KYK BLDC - 150

- This is a 100kg heavy motor-driven door with worm and gear, such as normally open, locking by remote control and forcing to open.
- The motor is separately designed with the power switch, and slings for lifting loads. Adopt internationally first-rate two-period-form worm gearing transmission, starting powerfully with strong twisting force.
- Worm and gear is made from alloy materials, and operates in super high space without wear.
- Excellent transmission agent and innovative designs allow the motor to load more heavily and operate more steadily.
- The internally piloting and sound-proof closed design make the motor operate quietly. It both possesses good features of translational automatic doors and splendid gestures or surface structures.
- The arc door with a generous andcompact structure are divided into two kinds, outside arc and inner arc, which can match up specific requirements on entrance appearance design of fashionable buildings, to create good three-dimensional visual effect and build a comfortable, safe and quiet passing space.






## Sectional Plan






## Specification

| Model of door motor | KYK BLDC-150W (Single open type) | KYK BLDC-150WS (Both open type) |
|---|---|---|
| Weight of door leaf | 120kg x 1 | 100kg x 2 |
| Width of door leaf | DW = 750-1600mm | DW = 600-1250mm |
| Collision function | Rebound under the condition of collision | |
| Installation method | Hanging-type installation | |
| Supply voltage | AC 90 - 230V 50-60 Hz | |
| Complete machine power | Less than 100W | |
| Motor | DC 24V 60W | |
| Opening speed | 15-55 cm/s (adjustable) | |
| closing speed | 15-50 cm/s (adjustable) | |
| Opening range | Full opening / half open (remote-control unit setting) | |
| Environment temperature | -20 ~ +55 °C | |

# FALCON
## MODEL: KYK BLDC-350

## Layout of engine components



**Pulley**
- Role in placing timing belt pulley
- Added to control unit of adjust the belt tension



**Timming belt**
- S8M
- Silent & sturdy type



**Controller**
- Dual-chip Micro-processing type
- Obstacle Detection
- Self Circuit Protection



**DC Brushless Motor**
- Motorlock 120W
- Opening speed 150 - 550mm/s



**Upper Sensor**
- Tilt angles: 0-90 degrees







**Hanger Roller**
- Detailed adjustable door mounting
- Smooth and silent operation by hig and high elasticity roller
- Aluminum + Two structure of polyacetal

**Power Supply**
- AC 90-230V ±10% 50-60Hz

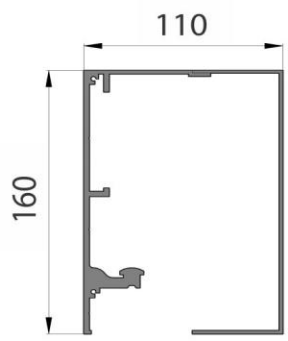


| Specification | | |
|---|---|---|
| Model Description | **KYK BLDC-350S** (Single door) | **KYK BLDC-350D** (Double door) |
| Weight Door | 200kg x 1 (Max 250) | 180kg x 2 |
| Hold Time | 1-20s | |
| Motor | DC 24V 120W | |
| Opening Speed | 15-55 cm/s (adjustable) | |
| Closing Speed | 15-50 cm/s (adjustable) | |
| Microcontroller | Microcomputer system | |
| Power Supply | AC 90-230V ±10% 50-60Hz | |
| Ambient Temperature | -20 _+ 50 °C | |
| Rail Size | Length: | Single leaf: 2m, 3m<br>Double leaf: 4m, 5m, 6m |





## Sectional Plan






# FALCON

## MODEL: KYK BLDC 350

- FALCON Model: KYK BLDC - 350 is a integrated full digital Auto Door Control System including BLDC motor drive and Motion Controller.
- BLDC Drive is a inverter system to drive the brushless DC motor with hall C.T's that encode the rotor flux position. The motion controller has some requence inputs and by them generates various motion profiles requested in Auto Door System - BLDC motor has exceedingly long life, and compared with DC motor.
- The hypoid gears motor will guarantee long life, and efficient power transmission.
- As the adaptive controller is applied in real time, the system control is optimized to the load or the weight variation of the door and the in put AC line voltage.
- By adding the e estimation algorithm, the controller realize very silent, fast and smooth motion.
- The door can be retracted hyper-sensitively, when people or obstacles hit against the door while closing by virtue of "Safety Return" function.
- Due to a "thermal protector", the motor will be protected at the over-load condition. - Selectable open speed (70%, 80%, 90%, 100%)

AUTOMATIC DOOR
KUM YANG KOREA

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