



Product Detailer – Automatic Door Operator (Sliding)

30th June 2008.

Dear All,

A new business opportunity is booming in all residential & commercial establishments. Automatic door operator is now perceived as not only of safety measure but also a means of aesthetics, style, modernization and more importantly of greater convenience.

In line with this requirement and also as a natural extension of Door Control category, we introduce Godrej Automatic Door Operator.



Positioning:

The 1st and only Automatic Door Operator with UL listing & CE certifications in India. This is the most modern product to suit the requirement of today's world.

SKU Content:

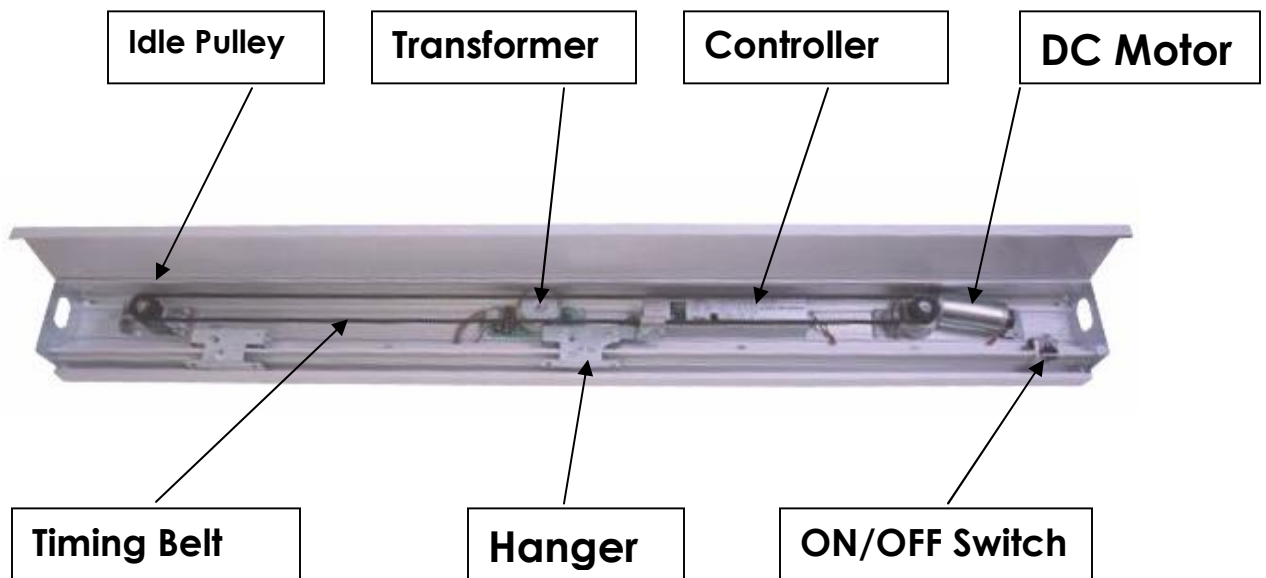
Automatic Door operator product consists of following elements, which have to be billed as separate SKUs.

- (A) Automatic door operator unit
- (B) Upper Sensor
- (C) Safety Sensor
- (D) Patch Fittings







As shown in below image, the door operator unit consists of following components,

- I. The main cover
- II. A DC Motor – Dunkern from Germany
- III. Controller
- IV. Transformer
- V. Pulleys
- VI. Timing belt
- VII. Hangers (for hanging the glass doors)
- VIII. A switch for Power On/Off

Parts Identification:



(A) Operator Contents :

S.No	Part	Part Picture	Function
1	DC Motor		Dunkern Motor German make, brush type with 100 Watt power. It moves glass doors by electrical energy to kinetic energy
2	Controller		Micom control system, it controls all the functions of operator.
3	Transformer		It transfers 22V to 24V & also minimizes the loss of electric power.
4	Hanger Roller		These are the rollers which hang the door in rail. They have provision for vertical as well as horizontal adjustment. With minimum angle of contact surface they make the movement of operator with least possible noise.
5	Timing belt		This is the element which makes glass door move directly with power from motor. The belt has saw tooth for it to get engaged properly so that it does not slip while in operation. Belt is 3 meters long for Single Door operator & 5 meters for double door operator.
6	On/Off Switch		It is stopper at one side & stopper as well as switch on other side. Stopper adjusts the length of the belt & stops the movement of glass doors at desired locations.

About Sensors -

(B) Upper Sensor – This is put on top of Operator from outside if the door is used only as entry door or on both sides i.e., inside & outside if the door is used as entry & exit door. The maximum sensing range of upper sensor is 3.5 Meters.



(C) Safety Sensor – This is put on sides at knee height on the structure or by making a false structure.



(D) About Patch Fittings –

Patch fittings are required to hold the movable glass along the rail of the operator. The patch fittings are attached to hangers which run over the timing belt & in turn provide the movement to moving glass panels. These are patch fittings specially made for Door Operator Glasses. Cutout of the patches is required to be submitted to customer before toughening of glass.

Type of Door Operator	Single Door Operator (2 Meter)	Double Door Operator (4 Meter)
No : of Patches required	2	4

Product features:

1. Tested for "**One Million Life Cycles**".
2. Smart – It reverses on impact with anything for safety. It has a unique micro controller which has high sensitivity to the minor change while in operation and provides adequate feedback signal to the motor.
3. Easy to install, thus reduces complication & time for installation.
4. One-wheel roller gives low noise operation.
5. Special function of preventing hanger from derailment thus making it adhere to the basic safety norms.
6. Built-in inter-lock function in controller (useful for application at purity zone like clean room).
7. Opens 100mm by itself for safety when power failure takes place thus no danger of getting locked in or locked out.
8. Easy to exchange each component, so repairing is not a problem.
9. Adjustable opening & closing speed.
10. Dunkern Motor - From Germany ensures high torque, enabling high speed and capable of driving higher door weights. Lower energy consumption and zero maintenance.
11. Stainless steel frame gives high strength & durability.
12. Backed by quality & technical certifications like UL Listing, CE marking, CUL marking and Q-Mark.

Product Characteristics:

1. Convenience:

- Designed for easy to change the parts and accessories.
- Reducing noise as lower angle between rail and order.
- Easy to install, reducing the time for installation.

2. Safety:

- Opens 100mm automatically on power failure, thus ensuring safety.
- The motor turns in reverse direction if glass comes in contact with any object.
- Adjustable opening & closing speed.

3. Security:

- Includes lock function in the controller.
- Possible to link with man less security system.

4. Functionality:

- Inter-lock function in the controller is useful to apply in purity zone like clean room.
- Setting can be done for various situations with the help of different functions provided on dip switch.
- Pushing function provided to prevent from reopening after closing door.

5. Efficiency:

- Using Dunkern motor (Germany) with high quality.
- Saving energy as adjustable width of door (50%, 100% open)

6. Confidence:

- Having various quality & technical Certifications (UL, ISO901, Q-Mark, and CE).

Technical Data Sheet:

	Single Door (ST10S & ST20S)	Double Door (ST10D & ST20D)
Model Name	Smart Door - Single	Smart Door - Double
Model No	ST 20 (S)	ST 20 (D)
Max Door Weight	1 X 180 Kgs	2 X 160 Kgs
Clear Passage Leaf	800 ~ 1,500 mm	800 ~ 2,800 mm
Clear Passage Height	2,100 ~ 3,000 mm	
Power Consumption	100 W	
Power Supply	AC 220V	
Open / Close Speed	100~450mm/sec (10 step)	
Opened Hold Time	0.5 ~ 5 Sec	
Power Failure	100 mm auto open	
Certifications	CE, UL, CUL, ISO9001,	
Life Cycle Tests	1 million Cycles	

Pricing SKU wise:

Pdt. Code	Baan Code	Product description	Unit MRP (Rs.)
9011	LKYGDA001	Door Automatic ST10 S	46125.00
9012	LKYGDA002	Door Automatic ST10 D	54325.00
9013	LKYGDA003	Door Automatic ST20 S	79710.00
9014	LKYGDA004	Door Automatic ST20 D	105065.00
9009	LKYGDA001	Safety Sensor	7250.00
9010	LKYGDA002	Upper Sensor	8700.00
-	LKYAPSDA1	Patch Fittings for Door Operator	1000.00

Product description : ST10 – Without Aluminium Cover
ST20 – With Aluminium cover
S – Single Door Operator
D – Double Door Operator