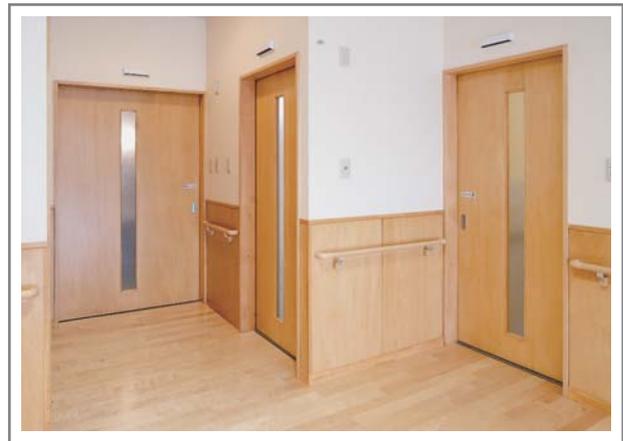


Japanese Technology

LINEAR MOTOR TYPE AUTOMATIC SLIDING DOOR



The door operates quietly, smoothly and less friction is generated with the same driving principle as an environmentally friendly linear motor car. Linear motor type automatic sliding door is most suitable for a hospital, a laboratory, an office and a food factory where generation of dust or noise is not desired.

Features

Quiet and Smooth

It opens and closes quietly and smoothly with a linear motor more than ever before.

High security

It reverses when a contact of a person or an object is detected due to a fine control.

Cleanliness

Low friction drive generates not so much dust.

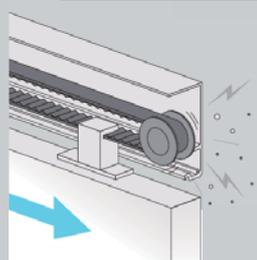
Securing safety at power failure

It can be opened as light as that of a manual door during power outage.

Operation principle

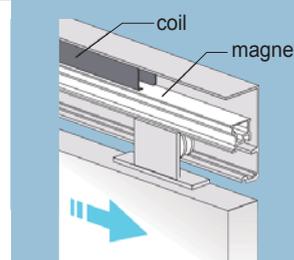
Conventional engine

A belt and a door are connected and it opens and closes by rotating motor to drive a belt. There are many places where friction is generated.



Linear Engine

A magnet and a coil (electromagnet) which are connected to a door are contactless. It opens and closes by the magnetic attraction • repulsive force between the magnet and the coil. There are less places where friction is generated.



● Function List

Functions	Automatic specification	Details
Assist function	Standard	The door is manually activated by moving it about 2cm.
Safety Stop	Standard	The door is stopped for safety when pinching is continued twice at the same position.
Sliding door synchronization	Standard	The sliding door is constituted by using 2 engines.
Fitting of electric lock	Option	Unlocking type during power failure (electricity synchronization)

● Operation sound comparisons

	(dBA)
Linear motor type automatic sliding door	47 *
Bell of the telephone	70
Quiet office	50
Library	40

*Measured value within a company for a single sliding door
(It was measured at 1m away from the object.)

● Manual operation force (during power outage)

Manual operation force is about 300g when the power source is OFF.

● Specification / Performance (For indoor use only)

Dimensions	Effective opening width	AW 750 ~ 1500 mm	
	Effective opening height	AH1100 ~ 2500 mm	
	Standard window	W340, 640, 940 × H640 mm (window W is depending on its AW)	
Door thickness		39 mm	
Material	Door main body	Paper core	
	Surface material	Colored steel plate (Ivory / White) 0.6t / Aluminum 0.8t / Electrogalvanized steel plate 0.8t / SUS 0.8t	
	Window / Window frame	53 Acrylic board (Clear) / Aluminum compound extrusion material	
Linear engine	Type of motor	MM50	
	Required power source capacity	AC100V±10% 50 / 60Hz MAX:4A	
	Service temperature range	-10 ~ 40°C	
	Door weight applied	Single sliding door 20 ~ 50kg	
	Electricity consumption	Average at the time of operation: 0.2Wh / times (Door weight 50kg / pc)	
		At standby: pressed all the time, 5.8W (Start-up sensor and auxiliary sensor are not included)	
	Kind of motor	Brushless moving-magnet type linear DC motor	
	Generated thrust	3pcs of stators are full-wrapped 40N	
	Opening speed	0.2 ~ 0.5m / sec (At the time of shipping 0.4m / sec)	
	Closing speed	0.2 ~ 0.5m / sec (At the time of shipping 0.3m / sec)	
Open-stop time	Ratchet operation for 1-10sec at the maximum setting. (3sec at the time of shipping)		

*The door cannot be easily closed at the place where the differential pressure is high.

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