

GRACE ENGINEERING GREETINGS

- Mutual trust and providing continuous development in new technology are the **Grace Engineering's** ways of serving its valuable clients.
- To ensure customers' safety and convenience, we continue our efforts through systematic development and keeping the quality control in our relevant field of activity which ranging from installation to service.
- We win confidence of our clients by providing solid profiled products and look forward to have your favor through our honesty and dedication to work.
- While concluding we express our feeling of gratitude and assure you of our best service and attention on all future occasions.

Thanks

Shamraiz Ilyas

COMPANY OVERVIEW

Firm Name	:	Grace Engineering
Registration No.	:	1606
Established	:	1995
Office Address	:	J block, Gulshan e ravi,Bund Road Lahore
Workshop	:	Bund Road, Lahore
Phone	:	0300-4234126 / 0321-4234126
Email	:	gracetech9077@gmail.com
URL	:	https://graceengineering.net/
Item of Business	:	Installing and Maintenance of Elevators, Escalators, Automatic Doors & Gates, Automatic Rolling Shutters, Control Panels and Industrial Automation.

INTRODUCTION

We are pleased to give a brief introduction of our company **Grace engineering** which was established in 1995 and has been engaged in the field of:

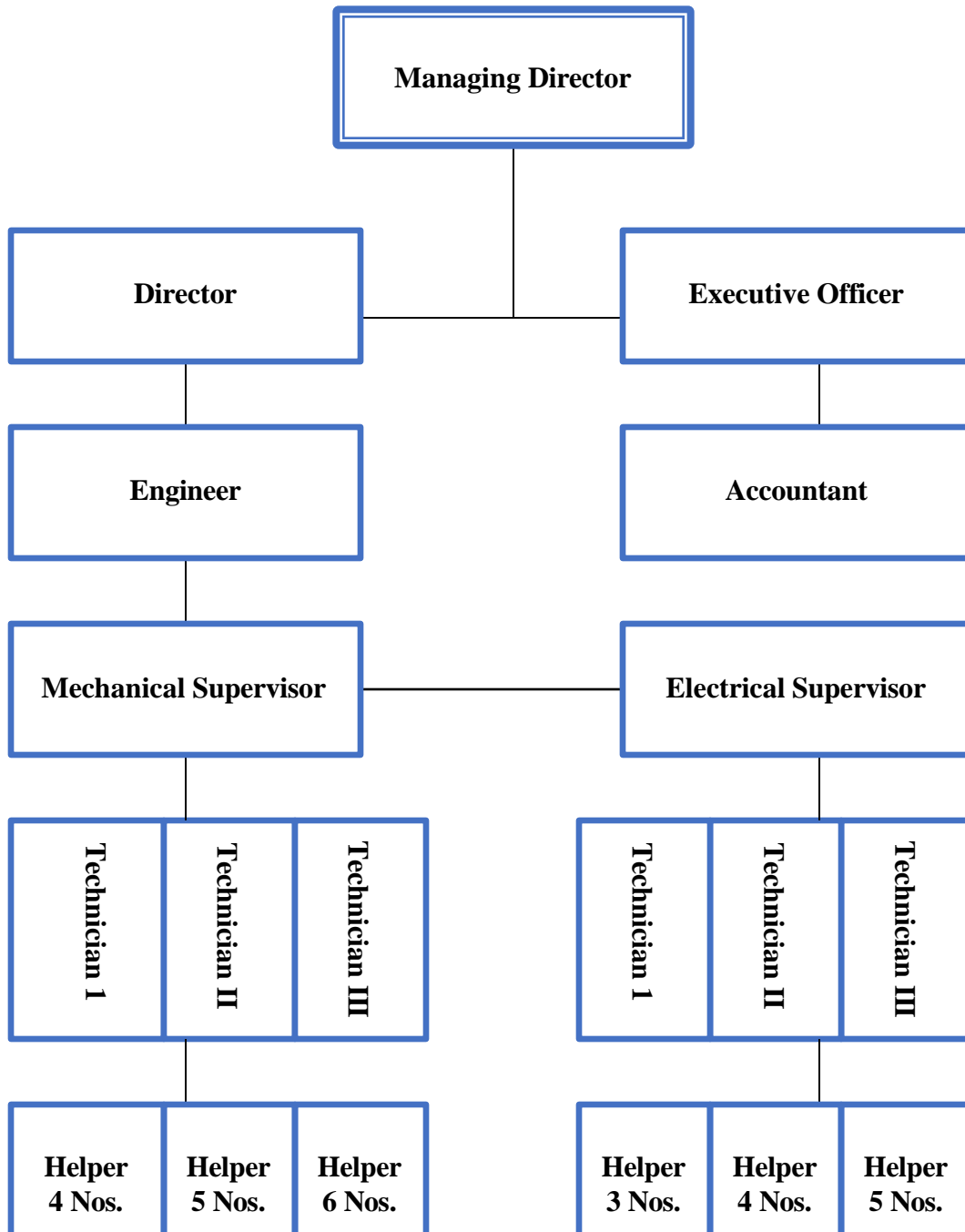
- a.** ***Elevators** Imported & Semi imported (Passenger, Capsule / Panoramic, Hospital / Bed, Cargo / Freight, Dumbwaiter Lifts)*
- b.** *Escalators (Imported)*
- c.** *Automatic Doors & Gates (Imported)*
- d.** *Automatic & Manual Rolling Shutters*
- e.** *Automatic Barriers (Imported)*
- f.** *Control Panels & Industrial Automation*
- g.** *Access Control Systems*

We have undertaken and successfully completed projects of varied nature and magnitude in our field of activity, to the best satisfaction of our valuable clients. As a result of our specialized attention to every job, together with extending best services and efficient backup we enjoy a good repute among our clients who always prefer us for the job of new installations or refurbishment of their old ones.

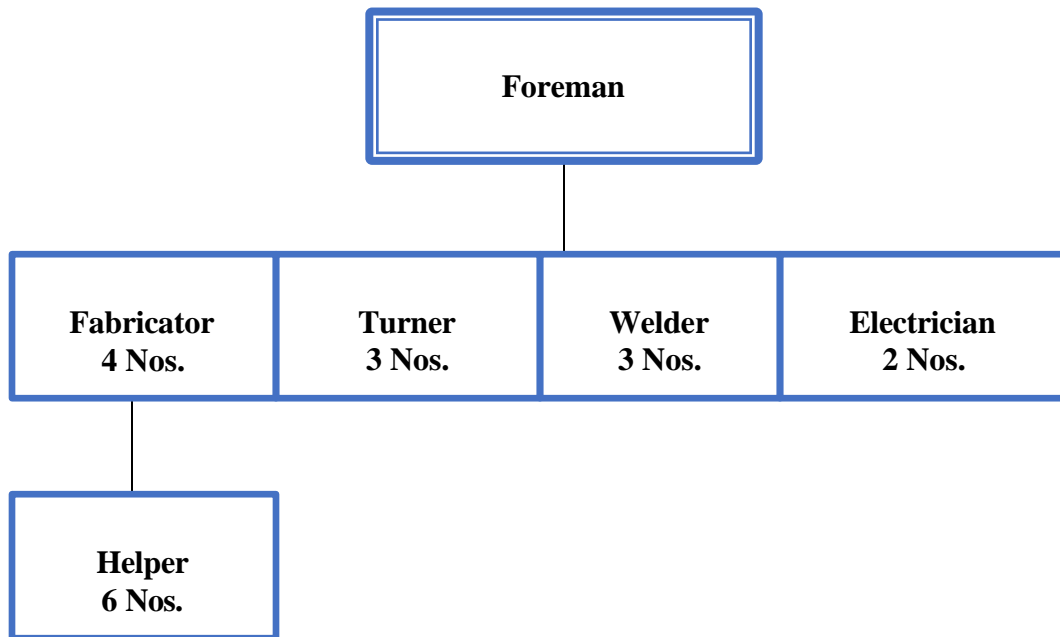
Our vision is to become a Leading Quality Solutions providing company in the architectural automation through cost effective solutions and customer support.

We look forward to afford us an opportunity to serve your esteemed organization. We shall always respond to your inquiries prounptly and render our best services for the same.

ORGANIZATION CHART



WORKSHOP STAFF



LIST OF TOOLS / INSTRUMENTS

Sr. #	Tool Name	Qty
1-	Drill Machine	9 Nos.
2-	Hilty	4 Nos.
3-	Grinder	8 Nos.
4-	Welding Plant	7 Nos.
5-	Stool	8 Nos.
6-	Chain Pulley Block	7 Nos.
7-	Hand Press Heavy	4 Nos.
8-	Hand Press Light	5 Nos.
9-	Painting Unit	5 Nos.
10-	Mugger	4 Nos.
11-	Earth Tester	3 Nos.
12-	I.C. Tester	4 Nos.
13-	Avow meter	7 Nos.
14-	Complete Tool Kit set	8 Nos.
15-	Thimble Punching Device	6 Nos.
16-	Hoist	4 Nos.
17-	Cutter	5 Nos.

STAFF DUTIES

Sr. #.	Post	Responsibilities
1-	Engineer	General guidance for installing of lifts, and automatic doors/gates. Research for developing new techniques for promoting the products.
2-	Electrical Supervisor	Supervision of installing lifts escalators and automatic door/gates (electrical Work). Servicing, trouble shooting and maintenance of electrical systems.
3-	Mechanical Supervisor	Supervision of installing lifts, escalators and automatic doors (electrical Work). Servicing, trouble shooting and maintenance of electrical systems.
4-	Technician (<i>Electrical</i>)	Installation, servicing and maintenance of lifts, doors/gates and escalators.
5-	Technician (<i>Mechanical</i>)	Installation, servicing and maintenance of mechanical system of lifts, doors/gates and escalators.

Elevator's Major Projects Completed

Hospitals:

Sr.#.	Client/Site Name	Description	Qty
1-	Farhat Maternity Home, Peshawar	Supply, Installation & Commissioning of Hospital bed lift.	01 No.
2-	Sajeela Skin & Laser Clinic, Satellite Town, Sargodha.	Supply, Installation & Commissioning of Hospital bed lift.	01 No.
3-	Zia Hospital, Awan Market, Ferozpur Road Lahore.	Supply, Installation & Commissioning of Hospital bed lift.	01 No.
4-	Holy Family Hospital, Rawalpindi.	Supply, Installation & Commissioning of Passenger lift.	01 No.
5-	King Edward Medical University, Lahore.	Supply, Installation & Commissioning of Passenger lift for Disable Students.	01 No.
6-	Iram Shahzad Hospital Opp. Civil hospital, Sialkot	Supply, Installation & Commissioning of Hospital bed lift.	01 No.

Industry:

Sr.#.	Client/Site Name	Description	Qty
1-	Olympia Chemicals 23- Davis Road, Lahore.	Supply, Installation & Commissioning of Passenger lift.	01 No.
2-	Shahzad Siddique Textile Faisalabad.	Supply, Installation & Commissioning of Cargo lift.	01 No.
3-	Shahid Malik Factory Lahore.	Supply, Installation & Commissioning of Cargo lift.	01 No.
4-	Firdous Cloth Mill Faisalabad.	Supply, Installation & Commissioning of Cargo lift.	01 No.
5-	Shahkam Industries (Pvt) Ltd. Multan Road, Lahore	Supply, Installation & Commissioning of Cargo lift.	01 No.
6-	Nishat, Ferozpur Road Lahore.	Supply, Installation & Commissioning of Cargo lift.	01 No.
7-	Legler Nafees Denim Mills Manga Raiwand Road, Lahore.	Supply, Installation & Commissioning of Cargo lift.	01 No.
8-	Nishat, Ferozpur Road Lahore.	Supply, Installation & Commissioning of Cargo lift.	01 No.
9-	DWP (Pvt.) Ltd. Lahore.	Supply, Installation & Commissioning of Cargo lift.	03 No.

10-	SanPak Engineering (Pvt) Ltd., Raiwand Manga Road Lahore.	Supply, Installation & Commissioning of Cargo lift.	01 No.
11-	New Allied Motors (Pvt) Ltd., Raiwand Manga Road Lahore.	Supply, Installation & Commissioning of Cargo lift.	02 No.
12-	Gharibwal Cement Ltd. Ismailwal, Distt. Chakwal.	Installation & Commissioning of Cargo cum Passenger lift.	01 No.
13-	Mustehkam Cement Ltd. Faroqia Hattar, Distt. Haripur.	Installation & Commissioning of Cargo cum Passenger lift.	01 No.
14-	Chawla Aluminium Pvt.Ltd. Kachha Road, Lahore.	Installation & Commissioning of Cargo cum Passenger lift.	01 No.
15-	Elmetch (Pvt) Ltd. 19-Km, Ferozepur Road, Lahore.	Installation & Commissioning of Cargo lift.	01 No.
16-	Haji Sh. Noor-Ud-Din & Sons (Pvt) Ltd. 4-Km Kacha Road, Lahore.	Installation & Commissioning of Cargo lift.	01 No.
17-	DWP Group (Pvt) Ltd Multan Road.	Supply & Installation of Cargo lift.	01 No.
18-	Nishat Mills Ltd. 7-KM Office 22 KM Ferozepur Road, Lahore	Supply & Installation of Passenger Lift.	01 No.
19-	Nishat Mills Ltd. 7-KM Office 22 KM Ferozepur Road, Lahore	Supply & Installation of Dumbwaiter	01 No.
20-	Nishat Mills Ltd. 7-KM Office 22 KM Ferozepur Road, Lahore	Supply & Installation of Cargo Lift.	04 No.
21-	Limelight Factory - Lahore	Supply & Installation of Cargo Lift	01 No
22-	Minha Edible Oil	Supply & Installation of Cargo Lift	01 No
23-	Digital World Pakistan	Supply & Installation of Cargo Lift	02 No

Buildings:

Sr.#.	Client/Site Name	Description	Qty
1-	Suzuki Oriental Motors Bypass Chowk, Multan Road, Sahiwal.	Supply, Installation & Commissioning of Car lift.	01 No.
2-	30-Raza Block, Allama Iqbal Town, Lahore.	Supply, Installation & Commissioning of Passenger lift.	01 No.
3-	Bahria Town, Lahore.	Supply, Installation & Commissioning of Passenger lift.	02 No.
4-	Suzuki Sialkot Motors Daburji Chowk, Sialkot.	Supply, Installation & Commissioning of Cargo lift.	01 No.
5-	Suzuki Sialkot Motors Daburji Chowk, Sialkot.	Supply, Installation & Commissioning of Car washing lift.	01 No.
6-	Rafique Centre, Gojra.	Supply, Installation & Commissioning of Passenger lift.	01 No.
7-	National Science Museum, G.T Road, Lahore.	Supply, Installation & Commissioning of Passenger lift.	01 No.
8-	CTI Building 27-Empress Road, Lahore.	Supply, Installation & Commissioning of Capsule lift.	01 No.
9-	Bless Banquet Hall Saidpur Road, Rawalpindi.	Supply, Installation & Commissioning of Passenger lift.	01 No.
10-	Bless Banquet Hall Saidpur Road, Rawalpindi.	Supply, Installation & Commissioning of cargo cum passenger lift.	01 No.
11-	Walls Street, Main Bazar, Gojra.	Supply, Installation & Commissioning of Passenger lift.	01 No.
12-	Ahsaan Paper Mart Urdu Bazaar, Lahore.	Supply, Installation & Com. of Cargo Cum. Passenger lift.	01 No.
13-	Suzuki Khalid Motors 65-Link Ferozepur Road, Lahore.	Supply, Installation & Com. of Cargo Cum. Passenger lift.	01 No.
14-	The Mall 94, Main Boulevard Gulberg, Lahore.	Supply, Installation & Commissioning of Passenger lift.	01 No.
15-	LDA Parking Plaza Moon Market Iqbal Town Lahore	Supply, Installation & Commissioning of Passenger lift.	02 No.
16-	LDA Marriage Hall Garden Town Lahore	Supply, Installation & Commissioning of Passenger lift.	02 No.
17-	Telenor Mall Road, Peshawar	Supply, Installation & Commissioning of Passenger lift Capacity 630 Kg.	01 No.
18-	LDA Community Center Garden Town Lahore	Supply, Installation & Commissioning of Passenger lift Capacity 600 Kg.	01 No.

19-	Ravi Road – House Lift	Supply, Installation & Commissioning of Passenger lift.	01 No.
20-	Chawla Group – House lift	Supply, Installation & Commissioning of Passenger lift.	02 No.

Automatic Doors' Major Projects Completed

Buildings:

Sr. #	Client/Site Name	Description	Qty
1-	Pakistan Atomic Energy Commission, Islamabad.	Supply & Installation of automatic door system.	02 No.
2-	Pakistan Atomic Energy Commission, Fateh Jang Road, Rawalpindi.	Supply & Installation of automatic door system.	01 No.
3-	LESCO, Ganga Ram Hospital, Lahore.	Supply & Installation of automatic door system.	02 No.
4-	Madina Electronics Temple Road, Lahore.	Supply & Installation of automatic door system.	01 No.
5-	Fauji Foundation Rawalpindi.	Supply & Installation of automatic door system.	01 No.
6-	Bank Al-Falah Gulberg III, Lahore.	Supply & Installation of automatic door system.	01 No.
7-	Telenor, Gulberg Lahore.	Supply & Installation of automatic door system.	01 No.
8-	Telenor Building University Road, Peshawar.	Supply & Installation of automatic door system.	01 No.
9-	Telenor Franchise G.T. Road, Gujranwala.	Supply & Installation of automatic door system.	01 No.
10-	Habib Bank Limited, Sialkot.	Supply & Installation of automatic door system.	01 No.
11-	U.K. Immigration Queens Road, Lahore.	Supply & Installation of automatic door system.	01 No.
12-	Wali Oil Office Shadman, Lahore.	Supply & Installation of automatic door system.	01 No.
13-	Allam Iqbal Air Port, Lahore.	Supply & Installation of automatic door system.	10 No.
14-	Ayesha's Beauty Salon Lahore.	Supply & Installation of automatic door system.	01 No.
15-	JUGNU (Opticmart) 127-G, Phase 1, DHA Lahore, Cantt.	Supply & Installation of automatic door system.	01 No.
16-	Bahria Town, Safari Park Lahore.	Supply & Installation of automatic door system.	02 No.

17-	Bahria Town Office The Mall, Lahore.	Supply & Installation of automatic door system.	03 No.
18-	University of Engineering & Technology, Lahore.	Supply & Installation of automatic door system.	03 No.
19-	Touch Stone, Islamabad.	Supply & Installation of automatic door system.	02 No.
20-	Al-Raheem Sanitary Lahore.	Supply & Installation of automatic door system.	01 No.
21-	Hyundai Motors, Gujranwala.	Supply & Installation of automatic door system.	01 No.
22-	King Estate Raiwand Road, Lahore.	Supply & Installation of automatic door system.	01 No.
23-	Sadar Shoes, Sheikhpura.	Supply & Installation of automatic door system.	01 No.
24-	New Auriga Centre, Gulberg, Lahore.	Supply & Installation of automatic door system.	03 No.
25-	Chicken Hut, Chandani Chowk Sadar, Rawalpindi.	Supply & Installation of automatic door system.	01 No.
26-	City Centre, Bhorewala.	Supply & Installation of automatic door system.	01 No.
27-	Bank Alfalah, Gulberg, Lahore.	Supply & Installation of automatic door system.	01 No.
28-	Bank Alfalah, Gujranwala.	Supply & Installation of automatic door system.	01 No.
29-	Rabi Centre Gulberg, Lahore.	Supply & Installation of automatic door system.	11 No.
30-	Mobilink House Mini Market, Gulberg Lahore.	Supply & Installation of automatic door system.	01 No.
31-	Mobilink, Industrial Area, Township, Lahore.	Supply & Installation of automatic door system.	01 No.
32-	Panorama Shopping Centre, Mall Road, Lahore.	Supply & Installation of automatic door system.	01 No.
33-	Mari Gas, Islamabad.	Supply & Installation of automatic door system.	01 No.
34-	Rizwan Arcade, Saddar Bazar, Rawalpindi	Supply & Installation of automatic door system.	05 No.
35-	DFC Restaurant Fortress Stadium, Lahore.	Supply & Installation of automatic door system.	01 No.
36-	MEC, Lawrence Road, Lahore.	Supply & Installation of automatic door system.	01 No.
37-	Super General Store Main Bazar, Chungi, Ammarsaddu, Lahore.	Supply & Installation of automatic door system.	01 No.
38-	Japan Garments Link Shalimar Road, Lahore.	Supply & Installation of automatic door system.	01 No.

39-	Air Avenue Opp. Allama Iqbal Air Port Lahore.	Supply & Installation of automatic door system.	01 No.
40-	Hamza Garments Anarkali, Lahore.	Supply & Installation of automatic door system.	01 No.
41-	Suzuki Sialkot Motors Daburji Cowk, Sialkot.	Supply & Installation of automatic door system.	01 No.
42-	AFC Restaurant Satellite Town, Gujranwala	Supply & Installation of automatic door system.	01 No.
43-	Craze Store 2-Chenab Block, Allama Iqbal Town, Lahore.	Supply & Installation of automatic door system.	01 No.
44-	Super Store, Sialkot	Supply & Installation of automatic door system.	01 No.
45-	Saudi Pak Bank, Paris Road, Sialkot.	Supply & Installation of automatic door system.	01 No.
46-	Telenor Shafi mention Mint -Ghumbri Road, Lahore.	Supply & Installation of automatic door system.	01 No.
47-	Ahmad Medical Complex Islamabad.	Supply & Installation of automatic door system.	02 No.
48-	Umar Group, Sea View Karachi.	Supply & Installation of automatic door system.	01 No.
49-	National Highway Authority Multan Road. Lahore.	Supply & Installation of automatic door system.	01 No.
50-	Telenor Building, Chandni Chowk, Rawalpindi	Supply & Installation of automatic door system.	01 No.
51-	New Auriga Centre Gulberg, Lahore.	Supply & Installation of automatic door system.	01 No.
52-	Telenor, Belle view Nishtar Road, Lesbela Chorangi Karachi.	Supply & Installation of automatic door system.	02 No.
53-	Telenor, Near D.C.O Office Rahim Yaar Khan.	Supply & Installation of automatic door system.	01 No.
54-	Data Super Store, Scheem Mor, Main Multan Road, Lahore.	Supply & Installation of automatic door system.	01 No.
55-	Niazi Medical Complex Sarghoda.	Supply & Installation of automatic door system.	01 No.
56-	Ahmed Hospital Faisalabad	Supply & Installation of automatic door system.	01 No.
57-	UET (Laser and Optronics System) G.T. Road, Lahore.	Supply & Installation of automatic door system.	01 No.
58-	Superior College Raiwind Road, Lahore.	Supply & Installation of automatic door system.	01 No.
59-	Barclays Commercial Bank, F-7 Markaz, Islamabad.	Supply & Installation of automatic door system.	01 No.
60-	Barclays Commercial Bank, DHA Y Block, Lahore.	Supply & Installation of automatic door system.	01 No.

61-	Kids and Mummies Commercial Market, BBC Plaza, Rawalpindi	Supply & Installation of automatic door system.	01 No.
62-	Gul bhaar Centre, Embassy Area, Kabul Afghanistan	Supply & Installation of automatic door system.	04 No.
63-	Safari Homes Plot # 03, Behria Town, Rawalpindi	Supply & Installation of automatic door system.	01 No.
64-	NUST University H-12 Sector, Islamabad.	Supply & Installation of automatic door system.	01 No.
65-	Marco Polo Banquet Hall, Phase-III Chowk, Jamroad Road, Peshawar.	Supply & Installation of automatic door system.	01 No.
66-	Shaheen Complex Abbot Road, Lahore.	Supply & Installation of automatic door system.	02 No.
67-	Habib Bank Ltd Wapda Town, Gujranwala.	Supply & Installation of automatic door system.	01 No.
68-	Archie's Cafe Thokar Niaz Baig, Lahore.	Supply & Installation of automatic door system.	01 No.
69-	Mobilink Franchise, Pindi Stop, Kot Lukhpat, Lahore.	Supply & Installation of automatic door system.	01 No.

70-	UET Faisalabad Campus Khariayn Wala Bipaas, Faisalabad.	Supply & Installation of automatic door system.	02 No.
71-	Mobilink House Zia Town, Near Kashmir Bridge Faisalabad.	Supply & Installation of automatic door system.	01 No.
72-	ISE Tower, 55-Jinah Avenue, Blue Area, Islamabad.	Supply & Installation of automatic door system.	02 No.
73-	Automation Dept. UET G.T. Road, Lahore.	Supply & Installation of automatic door system.	02 No.
74-	UET, Kalasha Kaku Campus, Lahore.	Supply & Installation of automatic door system.	04 No.
75-	CSD, Store R.A Bazzar, Lahore.	Supply & Installation of automatic door system.	05 No.
76-	Souq Al-Qwait Hariyan Wala Chowk Near McDonald, Faisalabad	Supply & Installation of automatic door system.	04 No.
77-	Al-Habib Marriage Hall Faisalabad.	Supply & Installation of automatic door system.	01 No.
78-	Sumaya Corner Alamgeer Road, Karachi.	Supply & Installation of automatic door system.	01 No.
80-	Anmol Hospital Lahore	Supply & Installation of automatic door system.	01 No.
81-	Mod Ways Gulberg II, Lahore.	Supply & Installation of automatic door system.	01 No.

82-	United Medical Store Main Bazar, Mansehra.	Supply & Installation of automatic door system.	01 No.
83-	Iraq Embassy Islamabad.	Supply & Installation of automatic door system.	01 No.
84-	Public Health Engineering Dept. 2-Lake Road, Chuburji, Lahore.	Supply & Installation of automatic door system.	01 No.
85-	Hyper Mart, Safari Mall. Beharai Town, Lahore.	Supply & Installation of automatic door system.	01 No.
86-	Zarina Shopping Mall. Liberty Market, Lahore.	Supply & Installation of automatic door system.	01 No.
87-	Oxford Grammar School. Shalimar Town, Lahore.	Supply & Installation of automatic door system.	01 No.
88-	PTCL Customer Service Center. Wefaki Colony, Lahore.	Supply & Installation of automatic door system.	02 No.
89-	Vogue Mall MM Alam Road, Lahore.	Supply & Installation of automatic door system.	01 No.
90-	BTB Enterprises Usman Centre, Railway Road, Sheikhupura.	Supply & Installation of automatic door system.	01 No.
91-	Gulf Club Bahria Town, Rawalpindi.	Supply & Installation of automatic door system.	01 No.
92-	Pakistan Atomic Energy KCP-III Jauhar Abad.	Supply & Installation of automatic door system.	01 No.
93-	Pakistan Atomic Energy KCP-IV Jauhar Abad.	Supply & Installation of automatic door systems.	03 No.
94-	BTB Enterprises 1189-Tufail Road, Lahore Cantt.	Supply & Installation of automatic door system.	01 No.
95-	Al- Syed Plaza Shingari Road, Mansehra.	Supply & Installation of automatic door system.	01 No.
96-	Salar Center New Garden Town, Lahore.	Supply & Installation of automatic door system.	02 No.
97-	Chawla House, Plot# 192, Abubakar Block, New Garden Town, Lahore.	Supply & Installation of automatic door system.	03 No.
98-	Telenor Franchise, F-11 Markaz, Islamabad.	Supply & Installation of automatic door system.	01 No.
99-	House of Ittehad Doburj Plaza, Jaranwala Road, Faisalabad.	Supply & Installation of automatic door system.	01 No.
100-	BTB Enterprises Near Gourmet Bakery, Akbar Chowk, Lahore.	Supply & Installation of automatic door system.	01 No.
101-	ANS Mart Main Ghazi Road, Lahore.	Supply & Installation of automatic door system.	01 No.

102-	ZIC Lubricants GOR, Jail Road, Lahore.	Supply & Installation of automatic door system.	01 No.
103-	Golf City Behria Town, Murree Road, Islamabad.	Supply & Installation of automatic door system.	01 No.
104-	Lahore Books & Satationers 21-Circular Road, Lahore.	Supply & Installation of automatic door system.	01 No.
105-	Jinnah Super Market F7 Markaz, Blue Area Islamabad.	Supply & Installation of automatic door system.	01 No.
106-	Telenor Franchise Autobahn Near LFC, Hyderabad.	Supply & Installation of automatic door system.	01 No.
107-	Toyota Sargodha Motors 5-Km, Lahore Road, Sargodha.	Supply & Installation of automatic door system.	01 No.
108-	BTB Enterprises Punjab Co-operative Housing Society, DHA, Lahore.	Supply & Installation of automatic door system.	01 No.
109-	Ittefaq Cloths Sheikhupura.	Supply & Installation of automatic door system.	01 No.
110-	Navy Marriage Hall F7, Islamabad.	Supply & Installation of automatic door system.	01 No.
111-	Jamia Masjid Jamal-E-Musfata Kot Hassan Khan, Hafizabad.	Supply & Installation of automatic door system.	01 No.
112-	Main Store Bahria Golf City Murree Road, Islamabad.	Supply & Installation of automatic door system.	02 No.
113-	BTB Enterprises Sialkot Cantt.	Supply & Installation of automatic door system.	01 No.
114-	Ays Electronics Shop#5, Saif Shopping Mall, Near 1 st Turn Hayatabad, Jamrud Road, Hayatabad, Peshawar.	Supply & Installation of automatic door system.	01 No.
115-	City Housing Society Gujranwala.	Supply & Installation of automatic door system.	01 No.
116-	Iqra National University Hayatabad Phase-II, Neasr Bagh-e- Navan, Peshawar.	Supply & Installation of automatic door system.	03 No.
117-	Kulsum International Hospital Blue Area, Islamabad.	Supply & Installation of automatic door system.	01 No.
118-	Asif Glass & Aluminium Akbar Market, Jamrud Road, Peshawar.	Supply & Installation of automatic door system.	01 No.
119-	The Centaurus 1-Jinah Avenue, F-8 Markaz, Islamabad	Supply & Installation of automatic door systems.	16 No.
120-	Ghurki Hospital Jallo Morr, Lahore.	Supply & Installation of automatic door system.	05 No.
121-	CSD Store	Supply & Installation of automatic door	04 No.

	Fortress Stadium, Lahore.	systems.	
122-	Banquet Hall China Chowk, Sialkot.	Supply & Installation of automatic door system.	01 No.
123-	Saudi Pak Tower Blue Area Islamabad	Supply & Installation of automatic door systems.	02 No.
124-	Fri Chicks 91-Y Block, DHA Lahore.	Supply & Installation of automatic door system.	01 No.
125-	ABL Kalma Tower, Kalma Chowk Branch, Lahore.	Supply & Installation of automatic door systems.	03 No.
126-	Al-Razi Health Care Medical Diagnostic Centre. 2-C-II, MM Alam Road, Lahore.	Supply & Installation of automatic door systems.	02 No.
127-	Burj Huraira Shopping Mall Satellite Town, Sargodha.	Supply & Installation of automatic door systems.	03 No.
128-	Anees Factory Manga Bypass Raiwind Road, Lahore.	Supply & Installation of automatic door system.	01 No.
129-	Imperial Fabrics Cantt Chowk, Multan-Cantt.	Supply & Installation of automatic door systems.	02 No.

130-	Benazir International Airport Islamabad.	Supply & Installation of automatic door system.	01 No.
131-	NRTC Near TIP Building, Batti Chowk, Hari Pur	Supply & Installation of automatic door system.	05 No.
132-	General Headquarters Rawalpindi Cantt.	Supply & Installation of automatic door system.	02 No.
133-	Modren Shopping Mall University Road, Sargodha.	Supply & Installation of automatic door system.	01 No.
134-	Asmat Steel Art University Road, Sargodha.	Supply & Installation of automatic door system.	01 No.
135-	NDC Medical Store I-10/3, Islamabad.	Supply & Installation of automatic door system.	01 No.
136-	Al-Raheem Store Dubai Chowk, Iqbal Town.	Supply & Installation of automatic door system.	01 No.
137-	Ericsson Pakistan (Pvt) Ltd. 3 rd Floor Saudi Pak Tower Blue Area, Islamabad.	Supply & Installation of automatic door system.	01 No.
138-	Zong Head Office chak Shahzad, Islamabad.	Supply & Installation of automatic Door system.	01 No.
139-	Punjab Book store Sargoodha Road.	Supply & Installation of automatic Door system.	02 No.
140-	Kalsoon Hospital Blue area, Islamabad.	Supply & Installation of automatic Door system.	01 No.
141-	Pepsi Haidri Beverage Islamabad	Supply & Installation of automatic Door system.	01 No.
	Ministry of National Science	Supply & Installation of automatic	03 No.

142-	and Technology	Door system.	
143-	Sialkot Marriage hall	Supply & Installation of automatic Door system.	01 No.
144-	Sialkot College	Supply & Installation of automatic Door system.	01 No.
145-	Saleem Fabric face(5) Defense, Lahore.	Supply & Installation of automatic Door system.	01 No.
146-	Niazi Medical Complex Allah Hu Chowk, Lahore.	Supply & Installation of automatic Door system.	01 No.
147-	Nibaf Colony Opposite Al-Shifa Hospital, Islamabad.	Supply & Installation of automatic Door system.	02 No.
148-	Saudi Pak Bahawalpur.	Supply & Installation of automatic Door system.	01 No.
149-	Saudi Cloth Bhalwal.	Supply & Installation of automatic Door system.	01 No.
150-	Chaklala Air Base Scheme-3, Rawalpindi.	Supply & Installation of automatic Door system.	01 No.
151-	Sakhar Cant.	Supply & Installation of automatic Door system.	01 No.
152-	Thokar Riwand Road.	Supply & Installation of automatic Door system.	03 No.
153-	Mansehra Hafiz Medical Store Shankiari Road.	Supply & Installation of automatic Door system.	01 No.
154-	Al-Farooq Shopping Mall University Road Near 47 Adah.	Supply & Installation of automatic Door system.	01 No.
155-	Burj Huraira Mall Old Satellite Town, Sargodha.	Supply & Installation of automatic Door system.	02 No.
156-	NDC Medical Store I-10/3, Islamabad.	Supply & Installation of automatic door system.	01 No.
157-	Nescom I10, Islamabad.	Supply & Installation of automatic door system.	02 No.
158-	dgs Aitcheson Street, 1-Km from Thokar Niaz Baig, Raiwind Road, Lahore.	Supply & Installation of automatic door system.	03 No.
159-	Bilal Daewoo Niazi Ada, Lahore.	Supply & Installation of automatic door system.	01 No.
160-	Pakistan Atomic Energy Chakri Rawalpindi	Supply & Installation of automatic door system.	02 No.
161-	Behram Jewelers Defense Mor, DHA Lahore.	Supply & Installation of automatic door system.	01 No.
162-	Maaz Co., Rice Mills Maaz Chowk, Jalalpur Battian.	Supply & Installation of automatic door system.	01 No.
163-	Hospital Haideri Chowk, Commerical Market, Satellite Town, Rawalpindi	Supply & Installation of automatic door system.	01 No.
164-	OGDCL Blue Area, Islamabad.	Supply & Installation of automatic door system.	01 No.
165-	Office of Shahab Town, Dina City.	Supply & Installation of automatic door system.	01 No.

166-	Shalimar Hospital G.T. Road, Lahore.	Supply & Installation of automatic door system.	01 No.
167-	Sui Northern Gas Pipeline Ltd. 28-30 Sector I-9, Industrial Area Islamabad.	Supply & Installation of automatic door system.	01 No.
168-	Leisure Club Karim Block Market, Allama Iqbal Market, Lahore.	Supply & Installation of automatic door system.	01 No.
169-	Millennium Mall Gulistan Road, Quetta.	Supply & Installation of automatic door system.	01 No.
170-	Site for School Valencia Town, Lahore. (Ref: Akbari Glass)	Supply & Installation of automatic door system.	01 No.
171-	Gujjar Khan Atomic Energy Islamabad.	Supply & Installation of automatic door system.	01 No.
172-	Aero Hassan Abdul Islamabad.	Supply & Installation of automatic door system.	02 No.
173-	Miltry Hospital Rawalpindi.	Supply & Installation of automatic door system.	01 No.
174-	Abbas Enterprises 60D, sector 1-11/2 Islamabad.	Supply & Installation of automatic door system.	01 No.
175-	AirRail Service Shalamar Lahore.	Supply & Installation of automatic door system.	04 No.
176-	Pace Model Town, Lahore.	Supply & Installation of automatic door system.	05 No.
177-	Nasir Ali Mirz Army Office Ghalah Mandi Multan	Supply & Installation of automatic door system.	01 No.
178-	Red Crescent Hospital Rawalpindi.	Supply & Installation of automatic door system.	01 No.
179-	Nescom Islamabad.	Supply & Installation of automatic door system.	01 No.
180-	Hiyat Hospital G.T Road Gujrat.	Supply & Installation of automatic door system.	01 No.
181-	Punjab Mega Mall University Road, Sargodah	Supply & Installation of automatic door system.	01 No.
182-	Sadaqat Textile Faisalabad	Supply & Installation of automatic door system.	01 No.
183-	Thandi Sadark	Supply & Installation of automatic door system.	01 No.
184-	Bank Alfalah Main Boulevard Gulberg Lahore	Supply & Installation of automatic door system.	01 No.
185-	Royal Dream Marriage Garden Near Daska Canal	Supply & Installation of automatic door system.	01 No.
186-	General Hospital Lahore	Supply & Installation of automatic door system.	02 No.
187-	Mian & Sons Office No. E-14 Khawaja Arcade	Supply & Installation of automatic door system.	01 No.

	Main Wahdat Road, Lahore		
188-	Al-Jalil Garden Sharkpur Road, Lahore	Supply & Installation of automatic door system.	01 No.
189-	EOBI Office 105-A Ghari Shahu Lahore	Supply & Installation of automatic door system.	01 No.
190-	Ibrahim Fibers (Pvt.) Ltd. Shahkot, Faisalabad	Supply & Installation of automatic door system.	02 No.
191-	Master Beverages And Food Limited GT Rd, Sadhoke	Supply & Installation of automatic door system.	02 No.
192-	Netsol Technologies Main Ghazi Road, Lahore	Supply & Installation of automatic door system.	01 No.
193-	Chenab College, Jhang Chenab College, Chiniot Rd, Jhang	Supply & Installation of automatic door system.	01 No.
194-	Al Hayat Residence Raiwind Road near Safari Park, Lahore	Supply & Installation of automatic door system.	01 No.
195-	Motorway Service Area Bhera Interchange	Supply & Installation of automatic door system.	01 No.
196-	CMH Hospital Lahore Cantt	Supply & Installation of automatic door system.	01 No.
197-	Mega Mall Near Metro Stop # 2, Daroghewala Lahore	Supply & Installation of automatic door system.	02 No.
198-	Fun Duniya Fazal Centre Rahwali Cantt Lahore	Supply & Installation of automatic door system.	04 No.
199-	Vertex Medical (Pvt) Ltd - Multan	Supply & Installation of automatic door system.	08 No.
198-	Jamal Pipe - Lahore	Supply & Installation of automatic door system.	01 No.
198-	SA Garden – Lahore	Supply & Installation of automatic door system.	02 No.
199-	Mehmood Textile Mills – Multan	Supply & Installation of automatic door system.	03 Nos
200-	Serene Super Mart - Peshawar	Supply & Installation of automatic door system.	02 Nos
201-	Nestle Pakistan – Kabirwala	Supply & Installation of automatic door system.	01 Nos
202-	Pakistan Tobacco Company – Akora Khattak	Supply & Installation of automatic door system.	02 Nos
203-	Sultan Shopping Mall - Arifwala	Supply & Installation of automatic door system.	01 Nos
204-	Jaranwala	Supply & Installation of automatic door system.	01 Nos
205-	Pakistan Tobacco Company – Jehlum	Supply & Installation of automatic door system.	01 Nos
206-	Airbase - Sargodha	Supply & Installation of automatic door system.	01 Nos
207-	Tara Group – Raiwind Road, Lahore	Supply & Installation of automatic door system.	01 Nos

Industry:

Sr.#.	Client/Site Name	Description	Qty
1-	Pakistan Tobacco Company G.T. Road, Jhelum.	Supply & Installation of automatic door system.	13 No.
2-	Pepsi Factory Rawalpindi	Supply & Installation of automatic door system.	01 No.
3-	Chawla Industry (Pvt.) Ltd. Industrial Area, Township Lahore.	Supply & Installation of automatic door system.	01 No.
4-	Pharmaceutical Manga Road, Lahore.	Supply & Installation of automatic door system.	01 No.
5-	Shahzad Siddiqui Textile Faisalabad.	Supply & Installation of automatic door system.	01 No.
6-	Suzuki Khalid Motors Near LOS Stop, Lahore.	Supply & Installation of automatic door system.	01 No.
7-	VIP Factory Sialkot.	Supply & Installation of automatic door system.	01 No.
8-	Medi Pak Pharmaceutical Peco Road, Industrial Area, Kot Lakhat, Lahore.	Supply & Installation of automatic door system.	01 No.
9-	Packages Ltd. BUF Dept. Shahrah-e-Roomi, P.O. Amer Sidhu Lahore.	Supply & Installation of automatic door systems.	08 No.
10-	M.H Hospital Islamabad.	Supply & Installation of automatic door systems.	01 No.
11-	Army Mess Noshehra.	Supply & Installation of automatic door systems.	03 No
12-	Pakistan Tobacco Pvt. Ltd. Acora Khatak	Supply & Installation of automatic door system.	03 No.
13-	Thermec Engineering company Karachi.	Supply & Installation of automatic door system.	01 No.
14-	Nestle Pakistan Limited 3-K-Block Commercial Plaza Model Town, Lahore	Supply & Installation of automatic door system.	01 No.
15-	Medi Pak Sundar Estate	Supply & Installation of automatic door system.	01 No.
16-	Façade Solution Sunder Estate	Supply & Installation of automatic door system.	01 No.

Automatic Gates' Major Projects Completed

Buildings:

Sr.#.	Client/Site Name	Description	Qty
1-	Japan Embassy Kabul, Afghanistan.	Supply & Installation of automatic gate system.	01 No.
2-	Izhar House Tech Society, Lahore	Supply & Installation of automatic gate system.	01 No.
3-	Wali Oil House Tech Society, Lahore.	Supply & Installation of automatic gate system.	02 No.
4-	141-Chinab Block, Allama Iqbal Town, Lahore.	Supply & Installation of automatic gate system.	02 No.
5-	T.R Corporation House Johar Town, Lahore.	Supply & Installation of automatic gate system.	02 No.
6-	EME Colony Multan Road, Lahore.	Supply & Installation of automatic gate system.	01 No.
7-	Sector A1, Township Lahore.	Supply & Installation of automatic gate system.	01 No.
8-	Formanites Housing Scheme, Kamah Road, Lahore.	Supply & Installation of automatic gate system.	01 No.
9-	VIP Hanger, Section, Old Airport Lahore.	Supply & Installation of automatic gate system.	01 No.
10-	Man Diesel, Raiwind Road, Lahore.	Supply & Installation of automatic gate system.	01 No.
11-	Rawat, Street 16, Sector 15, Defence, Gate No.3 Rawalpindi	Supply & Installation of automatic gate system.	02 No.
12-	GHQ, Rawalpindi	Supply & Installation of automatic gate system.	05 No.
13-	Sharaf, Logistics (Pvt)Ltd., 45-Km Multan Road. Lahore.	Supply & Installation of automatic gate system.	01 No.
14-	Atok Cantt, Bharti Chowk, Attok Cantt.	Supply & Installation of automatic gate system.	04 No.
15-	Residence, Plot# 26, St#77, E11/2, Markaz, Islamabad.	Supply & Installation of automatic gate system.	01 No.
16-	Residence, Plot# 26, St#88, E11/2, Markaz, Islamabad.	Supply & Installation of automatic gate system.	01 No.
17-	Residence, Plot# 186, Karim Block, Allama Iqbal Town, Lahore.	Supply & Installation of automatic gate system.	01 No.
18-	Chawla House, Plot# 01, New Garden Town, Lahore.	Supply & Installation of automatic gate system.	02 No.
19-	Residence House #19, Block – A, Linkers Colon, Lahore.	Supply & Installation of automatic gate system.	01 No.
20-	Residential H#261, St. 7, Phase-1, Bahria Town,	Supply & Installation of automatic gate system.	01 No.

	Rawalpindi.		
21-	Residential Link Poonch Road Samnabad, Lahore.	Supply & Installation of automatic gate system.	01 No.
22-	Residential 197-B, DHA Phase-VI, Lahore.	Supply & Installation of automatic gate system.	01 No.
23-	Derbar China Chowk, Sialkot	Supply & Installation of automatic gate system.	01 No.
24-	Residence 454, Block – S, DHA, Lahore.	Supply & Installation of automatic gate system.	01 No.
25-	Packages Ltd. CPD Dept. Shahrah-e-Roomi, P.O. Amer Sidhu Lahore.	Supply & Installation of automatic gate systems.	03 No.
26-	Packages Ltd. BUF Dept. Shahrah-e-Roomi, P.O. Amer Sidhu Lahore.	Supply & Installation of automatic gate systems.	03 No.
27-	Residential 448-N Block, Near Masjid Chowk, DHA, Lahore.	Supply & Installation of automatic gate system.	01 No.
28-	Japan Embassy Shatel Service Islamabad	Supply & Installation of automatic gate system.	01 No.
29-	TUV Austria Main Zafar Ali Road, Lahore.	Supply & Installation of automatic gate system.	01 No.
30-	PAF Base Minhas Kamra, Attock District, Punjab	Supply & Installation of automatic gate system.	02 No.
31-	Netsol Technologies Main Ghazi Road, Lahore	Supply & Installation of automatic gate system.	01 No.
32-	Epesol (Pvt) Ltd 71-B, Nazir St, Lahore	Supply & Installation of automatic gate system.	01 No.
33-	Mehmood Textile Mills – Multan	Supply & Installation of automatic gate system.	01 No.

Automatic Rolling Shutters' Major Projects Completed

Buildings:

Sr.#.	Client/Site Name	Description	Qty
1-	Hang Ten The Mall, Lahore.	Supply & Installation of automatic rolling shutter system.	03 No.
2-	Suzuki Sialkot Motors Daburji Chowk, Sialkot.	Supply & Installation of automatic rolling shutter system.	03 No.

3-	Standard Chartered Bank F-8, Islamabad.	Supply & Installation of automatic rolling shutter system.	01 No.
4-	Standard Chartered Bank I-9, Islamabad	Supply & Installation of automatic rolling shutter system.	01 No.
5-	Standard Chartered Bank Abbotabad.	Supply & Installation of automatic rolling shutter system.	01 No.
6-	Standard Chartered Bank University Road, Peshawar.	Supply & Installation of automatic rolling shutter system.	01 No.
7-	Standard Chartered Bank Haider Road, Rawalpindi.	Supply & Installation of automatic rolling shutter system.	01 No.
8-	Standard Chartered Bank Adyala Road, Rawalpindi.	Supply & Installation of automatic rolling shutter system.	01 No.
9-	Standard Chartered Bank Super Market, Islamabad.	Supply & Installation of automatic rolling shutter system.	01 No.
10-	Standard Chartered Bank G-11, Islamabad.	Supply & Installation of automatic rolling shutter system.	02 No.
11-	Standard Chartered Bank F-8 Markaz, Islamabad.	Supply & Installation of automatic rolling shutter system.	01 No.
12-	Standard Chartered Bank Chaklala Road, Rawalpindi.	Supply & Installation of automatic rolling shutter system.	01 No.
13-	Standard Chartered Bank Model Town, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
14-	Standard Chartered Bank Allam Iqbal Town, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
15-	Standard Chartered Bank Circular Road, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
16-	Standard Chartered Bank D. Ground, Faisalabad.	Supply & Installation of automatic rolling shutter system.	01 No.
17-	Standard Chartered Bank T-Block, Defense, Lahore	Supply & Installation of automatic rolling shutter system.	01 No.
18-	Standard Chartered Bank Rehmanpura, Ferozpur Road, Lahore.	Supply & Installation of automatic rolling shutter system.	02 No.
19-	Dubai Islamic Bank G.T Rd, Gujrat.	Supply & Installation of automatic rolling shutter system.	01 No.
20-	Standard Chartered Bank G-9 Islamabad.	Supply & Installation of automatic rolling shutter system.	01 No.
21-	Standard Chartered Bank Multan.	Supply & Installation of automatic rolling shutter system.	01 No.
22-	Standard Chartered Bank 1st Round About Samn Abad Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
23-	Telenor Building University Road, Peshawar.	Supply & Installation of automatic rolling shutter system.	03 No.

24-	Telenor Call Center, University Road, Peshawar.	Supply & Installation of automatic rolling shutter system.	01 No.
25-	Telenor, Nearest Ghala Mandi, Sahiwal.	Supply & Installation of automatic rolling shutter system.	01 No.
26-	Telenor Building, Muzafar Abad	Supply & Installation of automatic rolling shutter system.	03 No.
27-	Dubai Islamic Bank Mehran Building, Karachi.	Supply & Installation of automatic rolling shutter system.	01 No.
28-	Dubai Islamic Bank Saddar, Rawalpindi.	Supply & Installation of automatic rolling shutter system.	01 No.
29-	City Bank Cantt, Sialkot.	Supply & Installation of automatic rolling shutter system.	01 No.
30-	City Bank Cavalary Ground, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
31-	City Bank Garden Town, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
32-	Arif Habib Investment Bank Commercial Area, Y-Block DHA, Lahore.	Supply & Installation of automatic rolling shutter system.	02 No.
33-	Dubai Islamic Bank Gulberg, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
34-	Standard Chartered Bank Dharampura Branch, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
35-	Standard Chartered Bank Urdu Bazae, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
36-	Standard Chartered Bank Lohari Gate Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
37-	Standard Chartered Bank Walton Lahore.	Supply & Installation of automatic rolling shutter system.	02 No.
38-	Standard Chartered Bank Haleem Ghar Islamabad	Supply & Installation of automatic rolling shutter system.	02 No.
39-	Standard Chartered Bank Secretariat Lahore.	Supply & Installation of automatic rolling shutter system.	02 No.
40-	Standard Chartered Bank M.M Alam Road, Gulberg Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
41-	Standard Chartered Bank Mazang Chungi Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
42-	Standard Chartered Bank Shah Alam Market, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
43-	Standard Chartered Bank Tajpura Shad Bag Lahore.	Supply & Installation of automatic rolling shutter system.	02 No.
44-	Standard Chartered Bank Tayab Plaza Shahdra, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.

45-	Standard Chartered Bank Bullah-E-Shah Road, Kasur	Supply & Installation of automatic rolling shutter system.	02 No.
46-	Standard Chartered Bank Sheikhupura Branch	Supply & Installation of automatic rolling shutter system.	01 No.
47-	Dubai Islamic Bank Saddar Peshawar	Supply & Installation of automatic rolling shutter system.	01 No.
48-	Telenor Building Chandni Chowk, Rawalpindi.	Supply & Installation of automatic rolling shutter system.	03 No.
49-	Standard Chartered Bank Ayubia Market, Lahore.	Supply & Installation of automatic rolling shutter system.	02 No.
50-	Standard Chartered Bank Rubi Plaza Cantt Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
51-	Standard Chartered Bank Lal Pul Lahore.	Supply & Installation of automatic rolling shutter system.	03 No.
52-	Standard Chartered Bank Thokar Niaz Baig, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
53-	Telenor, Nearest D.C.O office Rahim Yaar Khan.	Supply & Installation of automatic rolling shutter system.	07 No.
54-	Standard Chartered Bank Lakshami Chowk, Lahore	Supply & Installation of automatic rolling shutter system.	01 No.
55-	Standard Chartered Bank Aazam Market, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
56-	Telenor Building GT Road, Jhalum.	Supply & Installation of automatic rolling shutter system.	01 No.
57-	Brain Surgery 49-A, Near Arshi Masjid, Satellite Town, A- Block Rawalpindi	Supply & Installation of automatic rolling shutter system.	01 No.
58-	Alcon Aluminium Beadon Road, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
59-	Telenor Head Office Mansehra Road, Abotabad.	Supply & Installation of automatic rolling shutter system.	05 No.
60-	Telenor Easy Paisa Office UBL Chowk, Jail Road, Jhang.	Supply & Installation of automatic rolling shutter system.	03 No.
61-	Telenor Easy Paisa Office Jail Road, Faisalabad.	Supply & Installation of automatic rolling shutter system.	03 No.
62-	Telenor Easy Paisa Office Jail Road, Gujrat.	Supply & Installation of automatic rolling shutter system.	03 No.
63-	Kwick High Tech & Solution Plot#100/A, St.#14, I/9, Islamabad.	Supply & Installation of automatic rolling shutter system.	01 No.
64-	ABL, Tufail Road Branch, Lahore-Cantt.	Supply & Installation of automatic rolling shutter system.	01 No.
65-	Telenor Franchise Autobahn Near LFC, Hyderabad.	Supply & Installation of automatic rolling shutter system.	03 No.

66-	ABL, D-Block Comm., EME Society DHA, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
67-	Residential H#261, St. 7, Phase-1, Bahria Town, Rawalpindi.	Supply & Installation of automatic rolling shutter system.	03 No.
68-	Telenor Bati Chowk, Farooq Abad Road, Sheikhupura	Supply & Installation of automatic rolling shutter system.	03 No.
69-	Packages Ltd. CPD Dept. Shahrah-e-Roomi, P.O. Amer Sidhu Lahore.	Supply & Installation of automatic rolling shutter system.	10 No.
70-	Suqire Plaza Fortress Cantt Lahore.	Supply & Installation of automatic rolling shutter system.	04 No.
71-	Pace (Saleem Fabrics) Model Town, Lahore	Supply & Installation of automatic rolling shutter system.	03 No.
72-	Hafiz Tayyab 389- E Gulshan Ravi, Lahore.	Supply & Installation of automatic rolling shutter system.	01 No.
73-	Weather Ford I-10/3 Street -1 110 Islamabad.	Supply & Installation of automatic rolling shutter system.	04 No.
74-	Nestle Pakistan Limited Kabirwala Multan Khanawal	Supply & Installation of automatic rolling shutter system.	01 No.
75-	Nestle Pakistan Limited Sheikhupura	Supply & Installation of automatic rolling shutter system.	06 No.
76-	Khuna Mall Near MM Alam Road, Gulber Lahore	Supply & Installation of automatic rolling shutter system.	01 No.

77-	Goodi & Joyous (Pvt.) Ltd. 103-Playland Floor Siddiq Trade Center 72-Main Boulevard Gulberg Lahore	Supply & Installation of automatic rolling shutter system.	01 No.
78-	Pakistan Tobacco Company Ltd Akora Khattak	Supply & Installation of automatic roll up shutter system.	01 No.
79-	Sialkot International Airport	Supply & Installation of automatic roll up shutter system.	04 No.
80-	Orange Line Metro - Project	Supply & Installation of automatic roll up shutter system.	19 No.

Automation's Major Projects Completed

Buildings:

Sr.#.	Client/Site Name	Description	Qty
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1-	Habib Bank Limited Mall Road, Lahore	Supply & Installation of ATS panel & Complete AMF panel.	01 No.
2-	Aptech Institute, Defence Lahore.	Providing & Fixing of ATS & AMF panel.	01 No.

Industry:

Sr.#.	Client/Site Name	Description
1-	Olympia Power 23-Davis Road, Lahore	Supply & Installation of temperature controllers and sensors
2-	Bisma Rice Mill, Chuniyan.	Supply & Installation of complete rice machines with PLC.
3-	AJR Metal Fabricators Gulshan-e-Ravi, Lahore.	Supply & Installation of complete control power panel & complete automation
4-	Safa Rice, Chuniyan.	Providing & Fixing of power factor improvement panel 600 KVR.
5-	Rachina Cup Factory Shalimar, Lahore.	i. Providing & Fixing of power factor improvement panel 250 KVR. ii. Providing & Fixing of main & distribution panel boards. iii. Providing & Fixing of heat temperature control system.
6-	Izhar Private Limited, Lahore	i. Providing & Fixing of ATS & AMF panel. ii. Complete automation block making machine pan mixer & other related automation
7-	Waheed Cotton Industries Haveli Lakha.	Providing & Fixing of power factor improvement panel 300 KVR.
8-	FMC, Multan Road, Lahore.	Providing & Fixing of AVR.
9-	Highnoon Industry Multan Road, Lahore.	Providing & Fixing of ATS & AMF panel.

Buildings:

Sr.#.	Client/Site Name	Description
1-	RBS (ABN-AMRO) Bank Lahore.	Complete generator automation works.
2-	Danial Fabrics Raiwand, Lahore.	Complete generator automation works.
3-	Ibrahim Enterprises Lahore.	Complete generator automation works.
4-	Integro Trading Company Lahore.	Complete home automation works.

5-	Jahangir Brothers Lahore.	Complete automation works.
6-	LUMS Defense Lahore.	Complete building automation works.
7-	OPAL Textile, Faisalabad.	Complete automation works.
8-	PEACO, Lahore.	Complete industrial automation works.
9-	Rdiant Glass, Lahore.	Complete generator automation works.
10-	Shahanshah Cotton Factory, Dhaharki	Providing & Fixing of power factor improvement panel 300 KVR, AMF panel & other automation.
11-	Vandana (Pvt) Ltd. Sheikupura.	Complete generator automation works.
12-	Ruchana Glass Sheikupura.	Complete generator automation works.
13-	Stone Age Mini Market, Gulberg, Lahore.	Installation of generator set 25 KVA.

LET US ELEVATE TOGETHER



ENGINEERING

GRACE ENGINEERING

IMPORTERS, ENGINEERS & SUPPLIERS OF
*Elevators, Escalators, Automatic Doors/Gates,
Automatic Rolling Shutters, Control Panels, Industrial Automation
& Access Control Systems*

We are pleased to give a brief introduction of our company M/s Grace Engineering which was established in 1995 and has been engaged in the field of:

- **Elevators** Imported & Semi imported (With Machine Room Above Lift Shaft & Machine Roomless) (Passenger, Capsule / Observation, Hospital / Bed, Cargo / Freight, Dumbwaiter Lifts)
- **Escalators** (Imported)
- **Automatic Doors & Gates**
(Imported)
- **Automatic & Manual Rolling Shutters**
- **Automatic Barriers** (Imported)
- **Control Panels & Industrial Automation**
- **Access Control Systems**

We have undertaken and successfully completed projects of varied nature and magnitude in our field of activity, to the best satisfaction of our valuable clients. As a result of our specialized attention to every job, together with extending best services and efficient backup we enjoy a good reputation among our clients who always prefer us for the job of new installations or refurbishment of their old ones.

Our vision is to become a Leading Quality Solutions providing company in the architectural automation through cost effective solutions and customer support.





ACC VVVF CONTROLLER

(Variable Voltage, Variable Frequency)

- * Advance Elevator System for Energy Saving & High Efficiency
- * Modernized Computer Control System
- * Smooth Riding & Soft Landing
- * Converter and Inverter Drive System with Digital Signal and Microprocessor
- * Low Cost for Installation & Maintenance
- * Self Check System by Inside Computer
- * Easily Convertable Program
- * High Quality & Excellent performance
- * Automatic Rescue Device (A.R.D)

TRACTION MACHINE

- * T/M with Motor, Worm Reducer Worm Gear Set and Brake
- * Automatic Lubrication Bearing
- * Double Solenoid Electronic Brake
- * Independent Two Brake Shoes
- * Manual Operation Possible
- * Thermal Detecting Device Installed
- * Electronic Damper Installed
- * Excellent Performance



**Car Wall**

Stainless Steel Sheet Etching

Car Door

Stainless Steel Sheet Etching

Transom

Stainless Steel Sheet

Jamb

Wide Type, Stainless Steel Sheet

Ceiling

Acrylic Double Ceiling

Floor

Pvc Decorated Tile

COP (Car Operation Panel)

Deluxe Type, Stainless Steel

HPI (Hall Position)

Horizontal Dot Matrix Type

Hand Rail

Stainless Steel Bar

Kick Plate

Stainless Steel

Sill

Extruded Hard Aluminum

Car Wall

Stainless Steel Sheet Polishing

Car Door

Stainless Steel Sheet Polishing

Jamb

Wide Type, Stainless Steel Sheet

Ceiling

Acrylic Double Ceiling

Floor

Pvc Decorated Tile

COP (Car Operation)

Deluxe Type, Stainless Steel

HPI (Hall Position)

Horizontal Dot Matrix Type

Hand Rail

Stainless Steel Bar

Kick Plate

Stainless Steel

Sill

Extruded Hard Aluminum



CAPSCU I F



GRACE ENGINEERING

Standard dimensions		Car		Shaft					Door
Capacity		Internal	External	Width	Depth	Total Width	C/W Width	C/W Depth	Net Door Width
Passengers	Kg.	CWxCD	CWxCD	SW	SD	SWT	CW	CW1	NDW
6	450	1000x1350	1060x1420	1750	1700	2300	350	900	800
8	630	1100x1600	1160x1670	1750	1950	2300	350	1300	800
9	680	1100x1700	1160x1770	1750	2050	2300	350	1400	800
10	800	1200x1750	1260x1820	1750	2100	2350	400	1400	800
12	900	1300x1800	1360x1870	1950	2150	2550	400	1400	900
13	1000	1300x1950	1360x2020	2350	2300	2950	400	1550	1100

Note:

Other Designs Can Also Be Arranged As Per Clients Choice Sizes mentioned above are minimum.



Bed Elevators

Standard dimensions		Car		Shaft		Machine Room		Door
		Internal	External	Width	Depth	Width	Depth	Net Door Width
Entrance	Capacity	CWxICD	CWxECD	SW	SD	MRW	MRD	NDW
Single Entrance	1200 Kg	1200x2300	1260x2370	2200	2650	2200	2650	1000
	1750 Kg	1500x2500	1560x2570	2800	2850	2800	2850	1300
Double Entrance	1200 Kg	1200x2300	1260x2380	2200	2800	2200	2800	1000
	1750 Kg	1500x2500	1560x2580	2800	3000	2800	3000	1300

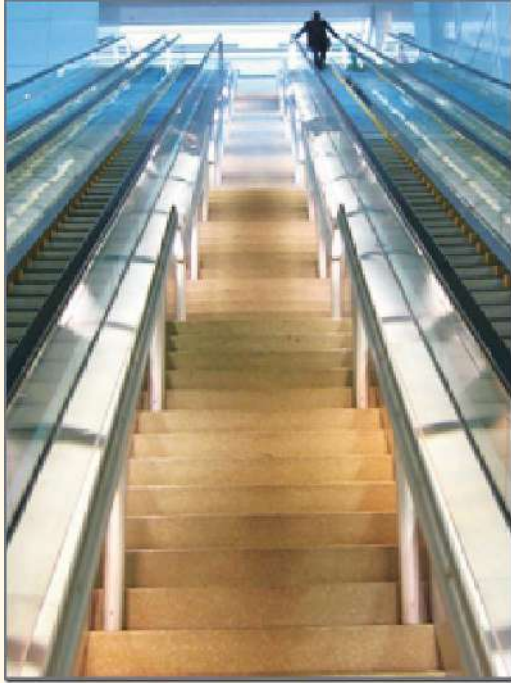
Feight Elevators

Standard dimensions		Car		Shaft		Machine Room		Door
		Internal	External	Width	Depth	Width	Depth	Net Door Width
Entrance	Capacity	CWxCD	CWxCD	W	D	MRW	MRD	NDW
Single Entrance	1000/1600	1600x1500	1660x1570	2400	1850	2400	1850	1100
	1600/2000	1850x1850	1950x1950	2800	2200	2800	2200	1300
	2500/3000	2000x2500	2100x2600	3200	2850	3200	2850	1500
	3000	2300x2500	2400x2600	3600	2850	3600	2850	1700

Note:

Sizes and grading capacity may vary as per site requirements.

ESCALAT



Angle 30 Degree

Type	A	B	C	D	E	Speed
KYC/S230-600 4500 P/H	600	910	1200	1910	1910	V=0.5m/s
KYC/S230-800 6750 P/H	800	1110	1400	2110	2110	
KYC/S230- 1000 9000 P/H	1000	1310	1600	2310	2310	

Angle 35 Degree

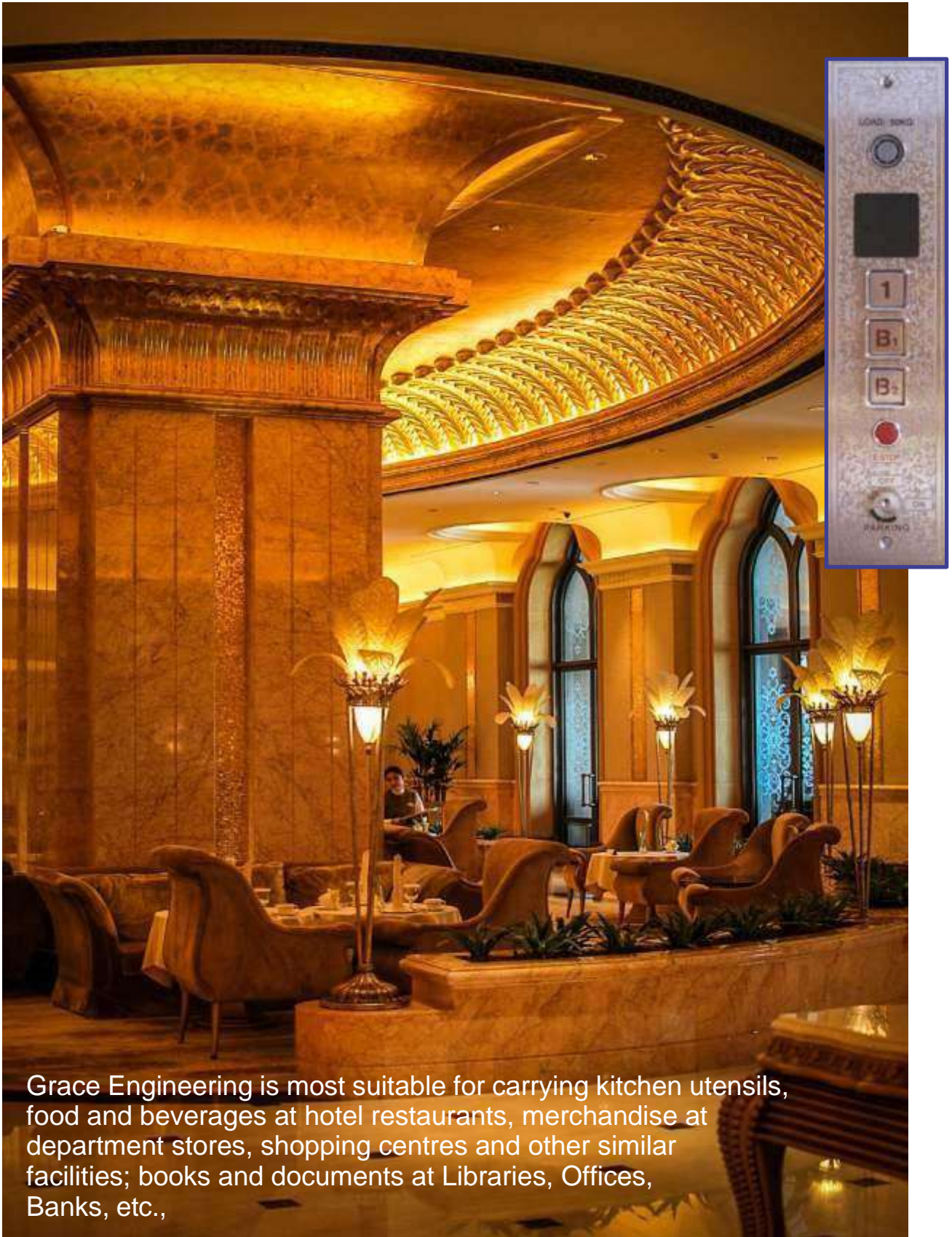
Type	A	B	C	D	E	Speed
KYC/S235-600 4500 P/H	600	910	1200	1910	1910	V=0.5m/s
KYC/S235-800 6750 P/H	800	1110	1400	2110	2110	
KYC/S230- 1000 9000 P/H	1000	1310	1600	2310	2310	



GRACE ENGINEERING

Save your time & money

GRACE ENGINEERING



Grace Engineering is most suitable for carrying kitchen utensils, food and beverages at hotel restaurants, merchandise at department stores, shopping centres and other similar facilities; books and documents at Libraries, Offices, Banks, etc.,

GRACE ENGINEERING will give you full satisfaction at any time anywhere.

GRACE ENGINEERING



OPERATION

This system is operated by the switches installed on the operating panel at each floor. Once this system starts moving, it continues moving regardless of a call from another floor during operation, and the built - in day circuit enables the system to respond to other calls only after completing the service of the first call.

SIGNAL SYSTEM

When the **Grace Engineering** starts moving, the “in use” lamp will turn on, along with the floor button lighting of Grace Engineering. When the car reaches the destination, the buzzer rings.

DOOR SWITCH

Installed at each landing door, this switch stops operation of the box when the landing door is opened.

WORK BY OTHERS

The works below are not included in the **Grace Engineering** installation work and should be carried out by building contractors in accordance with our drawings, relevant international or local codes and regulations.

- Field electrical work involving piping between the pit and security office.
 - Lead -in wire installation for power connecting to the transformer room, matching room, receiving board and lighting system inside the building, and supply of receiving board.
 - Cinder concrete work on the floor of the machine room for piping required for the installation of the **Grace Engineering**, and finishing work.
 - Earth work and lighting arrester installation.
 - Construction of machine room and hoistway, and fishing work on the outside of the landing door.
 - Free supply of construction water and electricity.
-
-

FLOOR TYPE



The Floor type **Grace Engineering** is installed on the same horizontal level with the floor of the passage way to facilitate carriage of cargoes which are normally carried on handcarts.

This type is very convenient because it is easy to carry large cargoes like restaurant tables.



Specification

(Unit : mm)

Model	Load (kg)	Speed (m/min)	Control	Shelf	Box Size (WxDxH)	Hoistway Size/ Machine Room Size (WxD)	Door Size (WxH)	Overhead	Pit Depth
FD200-S30	200	30	Inverter	NIL	900 x 900 x 1200	1500 x 1150	900 x 1200	2800	750
FD200-T30					900 x 900 x 1200	1500 x 1200	900 x 1200	2800	750
FD300-S30	300				1000 x 1000 x 1200	1600 x 1250	1000 x 1200	2800	750
FD300-T30					1000 x 1000 x 1200	1600 x 1300	1200 x 1200	2800	750

- Door opening type : 1 Panel manual up-sliding door
- "S" : Standard type, "T" : Through type

Material

Parts		Material
Box	Wall	Stainless steel finish
	Floor	
Entrance	Car Door, Hatch Door	
	Jamb	

WINDOW TYPE



The Window type **Grace Engineering** is installed at the height of man's waist, so that customers can conveniently use the system. This type is most suited to carry books and documents at libraries, Office, Banks and similar facilities.

The system also enables users to conveniently and safely carry kitchen utensils, food and beverages at the such place such as hotel restaurants.



Specification

(Unit : mm)

Model	Load (kg)	Speed (m/min)	Control	Shelf	Box Size (WxDxH)	Hoistway Size/ Machine Room Size (WxD)	Door Size (WxH)	Overhead	Pit Depth
WD50-S30	50	30	AC-1 Speed	1-Table	450 x 450 x 750	1000 x 720	450 x 750	1500	650
WD50-T30					450 x 450 x 750	1000 x 750	450 x 750	1500	650
WD100-S30	100			1-Table	600 x 650 x 800	1150 x 880	600 x 800	1750	700
WD100-T30					600 x 650 x 800	1150 x 950	600 x 800	1750	700
WD150-S30	150			2-Table	750 x 750 x 900	1300 x 980	750 x 900	1900	700
WD150-T30					750 x 750 x 900	1300 x 1050	750 x 900	1900	700

- Door opening type : 2 Panel manual Bi-parting door
- "S" : Standard type, "T" : Through type

Material

Parts		Material
Box	Wall	Stainless steel finish
	Floor	
	Shelf	
Entrance	Car Door, Hatch Door	



GRACE ENGINEERING

J block ghulshan e ravi ,bund road , Lahore- Pakistan

Cell: 92-300-4234126 92-321-4234126

E-mail: gracetech9077@gmail.com

www.graceengineering.net

Credit: Nasir Akram 0324-4494606 , 0334-9801224



Ditec automation for gates and automatic barriers

EN

A complete range of products for any

Ditec automation and barriers



Automation
for sliding gates

Automation
for swing gates

Ditec NeoS

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Ditec Obbi

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Ditec Cross

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Ditec Luxo

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Ditec Facil

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Ditec Cubic

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type of service:



Automatic barriers



Accessories

Ditec Qik

PAGE 28

Accessories

PAGE 34



ALL NCI USIVE

A complete range for all your residential and light commercial applications.

Ditec NeoS operates with gates up to 1.000 kg of weight and is designed to work even in case of intense usage and demanding environmental conditions. The control panel is integrated in the gear motor and provides a wide choice of advanced functions. Ditec NeoS is easy and quick to install and maintain.

Ditec NeoS

The pleasant performance
Discover the features which make Ditec NeoS truly unique

Versatile

The full range of gate operators and accessories satisfies installation requirements in various residential and commercial environments.

2 levels of performance

NeoS for standard applications, in complete safety.

NeoS+ for advanced functions and exclusive technical features: External LEDs for communicating operator status, USB connection for accurate diagnostics, set-up for solar-power connection, and the possibility of controlling courtesy or external lighting.

Performance and technical content

- Opening and closing speed up to 25 cm/sec
- Suitable for gates weighting up to 1000 kg
- Low consumption and energy saving mode
- Battery kit available in case of fault of tension
- 433 MHz and 868 MHz frequencies available
- Possibility to control courtesy or external ambient lights (NeoS+ only)

Safety

Safeguard against accidents

For maximum safety during closing operations, the gate operator can be equipped with photocells and sensitive edges: in case of contact, the automation reverses the movement preventing damage to persons and things.

Furthermore, the moving parts are enclosed in a robust case and a 24 V DC gear motor is used to minimise electrical risks (e.g. electrocution) in case of accidental opening of the operator.

Protection against the elements

Thanks to the choice of materials, positioning of the internal components and wiring layout, humidity, bad weather and insects are no longer a problem.

With the NIO function, the temperature sensor adapts gear motor performance in case of cold, ice or snow down to -35°C !

Ditec NeoS is compatible with a full range of protection devices such as photocells, sensors, controls and safety edges.

Pleasant

Innovative and fresh look

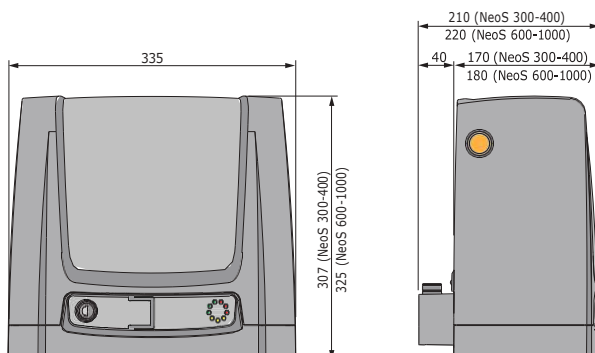
The modern design and clean aesthetics perfectly match all house styles. The integrated control panel and the possibility to mount photocells inside the cover grant a neat installation.

Control and security in your hands

The installation of Ditec NeoS can be greatly customised thanks to a wide selection of accessories. While comfortably seated in your car, simply press a button on your remote control and Ditec NeoS will spring into action, powerful and silent. The integrated Ditec solutions further allows you to operate your Ditec NeoS, turn on lights, open your garage door and control automatic road barriers... with just one remote control!



Dimensions



Product range

NES300EH	NeoS up to 300 kg
NES400EH	NeoS up to 400 kg
NES600EH	NeoS up to 600 kg
NES300EHP	NeoS+ up to 300 kg
NES400EHP	NeoS+ up to 400 kg
NES600EHP	NeoS+ up to 600 kg
NES1000EHP	NeoS+ up to 1000 kg

Comfort for the installer, clarity for th



e user

Comfort for installation

- Optimised layout of the internal components **01**
- Installation cables conveniently separated from "in-factory" cabling **02**
- Special transmitter for easier configuration of the operator **03**
- Practical and convenient release handle, without sharp edges **04**
- Enclosed steel plate for a convenient and rapid installation (stronger plate available as option) **05**

01**02****03****04**

- Internal photocells' slots for greater safety and practicality **06**
- 2 digit display for easy setting and quick check of operator status **07**
- Adjustable height to ensure a perfect coupling with rack **08**
- PC diagnostic via USB (NeoS+ only) **09** to allow real-time monitoring of operator and download of data tracking for diagnostic
- Thanks to the choice of materials, positioning of the internal components and wiring layout, humidity, bad weather and insects are no longer a problem **10**

05**06****07****08**

Clarity for the user

- The LED displays inform the user of the operator's status (NeoS+ only) **11** :
 - green indicates regular functioning
 - yellow stands for battery mode and check-up time
 - red signals presence of faults or release cover open
- The release handle is easily accessible in the front of the cover and comes with a closing key for increased safety
- Ditec NeoS is controlled via Gol 4 transmitters and pre-programmed with all functions: step-by-step opening, partial opening, and courtesy light control (NeoS+ only) and stop command **12**

11**12**

A large, dark grey industrial sliding gate is shown in a partially open position. A black Ditec actuator is mounted on the ground at the base of the gate. A yellow warning light is visible on top of the gate's structure. The background shows a concrete wall, some greenery, and a blue flag.

ER ORM NG

Sliding gates demand flexible automation systems that are able to manage various dimensions, different intensities of transit and changeable environmental conditions, whilst always ensuring maximum operational safety, functioning and reliability. The Ditec Cross line meets all the different commercial and industrial needs. These modern and fully equipped actuators are specifically designed to satisfy all most advanced technical and installation requirements.

Ditec Cross

A full range of products, for any type of service

Ditec Cross 18-19

For sliding gates weighing up to 1800 kg

They are ideal for heavy service (commercial and industrial entrances)

- Gear motors with three different limit switch working alternatives
- Easy key lock release through removable cover opening
- Ditec Cross 18VE with built-in radio
- Rugged and powerful motor
- Wide range of accessories to meet various operational requirements.

Ditec Cross 18-19



Ditec Cross 30

Rugged, powerful, suitable for gates up to 3000 kg

They are ideal for intensive service (community and industrial entrances)

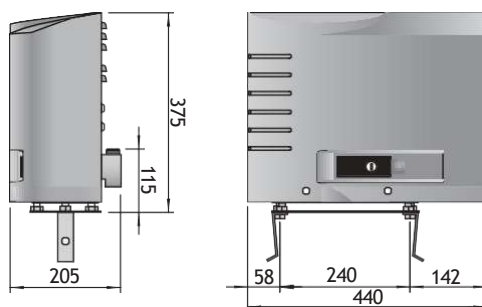
- Trouble-free installation
- Magnetic limit switch
- System housed in a robust steel cabinet
- Functional and large front removable cover for easy access to components
- Built-in electronic control panel.

Ditec Cross 30

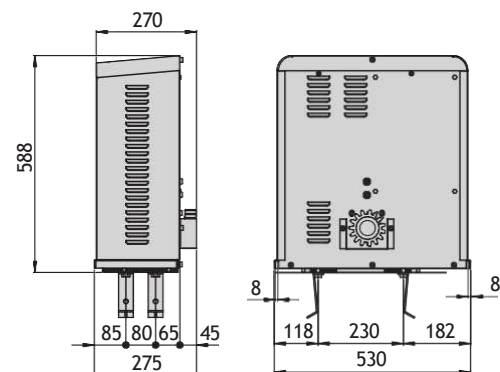


Dimensions

Cross 18 - Cross 19



Cross 30

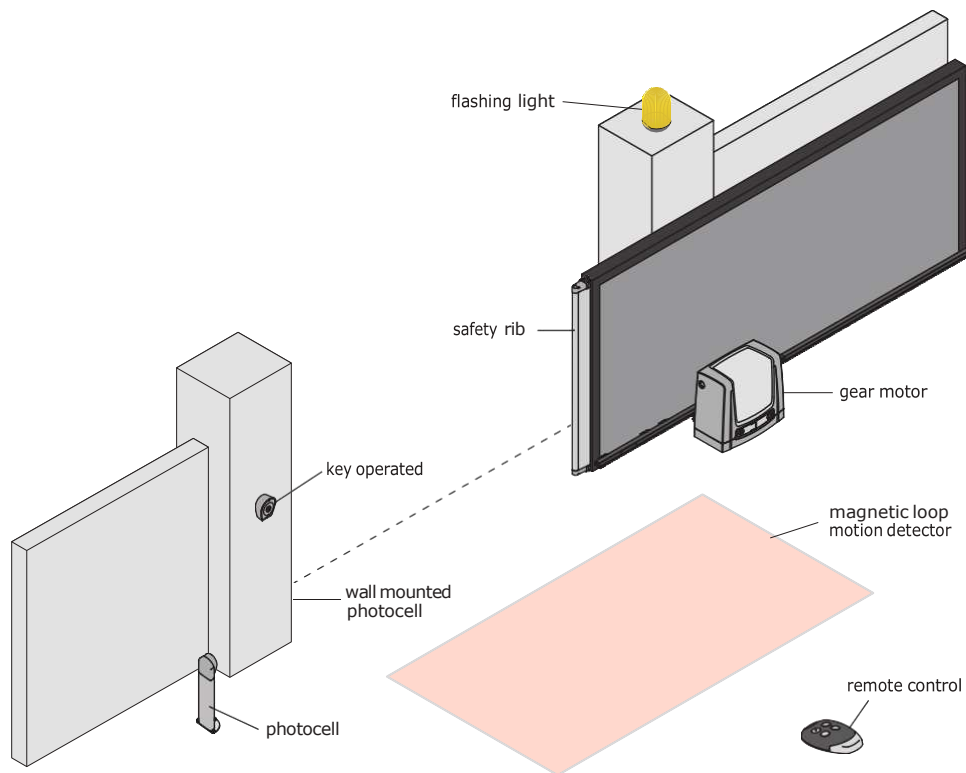


Product range

CROSS18	up to 1800 kg, rotary limit switch
CROSS18E	up to 1800 kg, lever-operated limit switch, built-in control panel and radio receiver
CROSS18VE	up to 1800 kg, magnetic limit switch, built-in control panel
CROSS19	up to 1800 kg, magnetic limit switch
CROSS30E	up to 3000 kg, magnetic limit switch, built-in control panel

Example of installation and technical characteristics


Ditec NeoS



Technical specifications

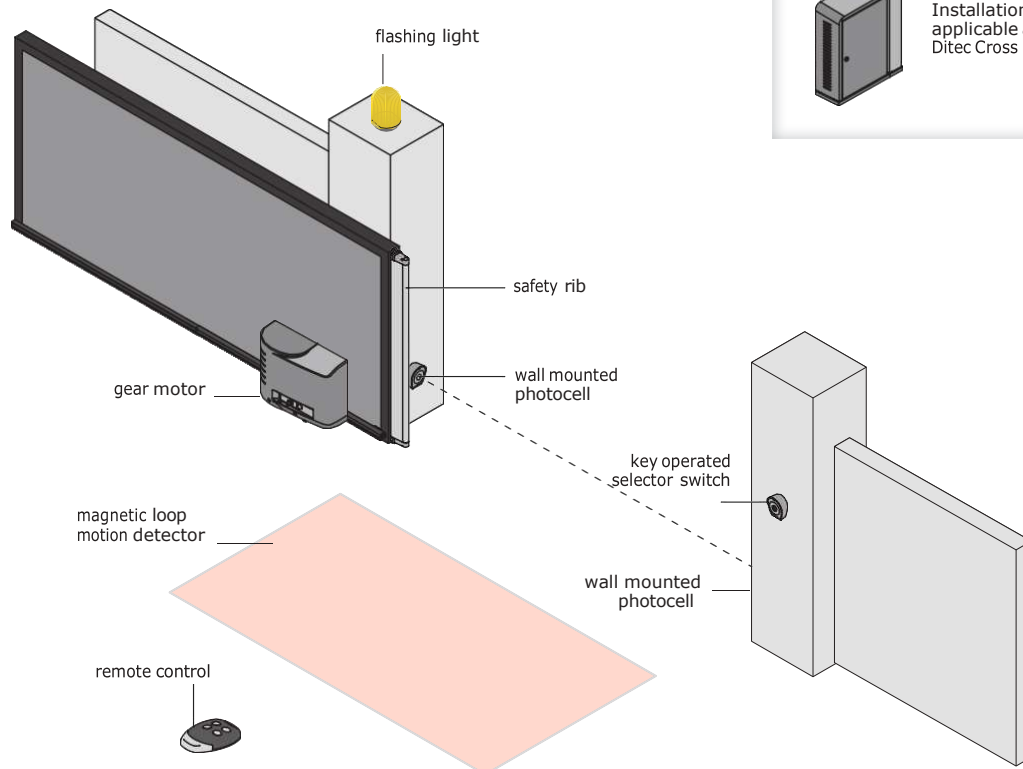
Description: electromechanical gear motor	NeoS 300 - NeoS+ 300	NeoS 400 - NeoS+ 400	NeoS 600 - NeoS+ 600	NeoS+ 1000
Stroke control	virtual encoder	virtual encoder	limit switch + virtual encoder	limit switch + virtual encoder
Gate leaf weight	300 kg	400 kg	600 kg	1000 kg
Maximum opening	12 m	12 m	20 m	20 m
Service index	4 - intensive	4 - intensive	4 - intensive	4 - intensive
Intermittent operation	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power absorption	230 V AC 50/60 Hz	230 V AC 50/60 Hz	230 V AC 50/60 Hz	230 V AC 50/60 Hz
Motor power supply	24 V DC	24 V DC	24 V DC	24 V DC
Power input	1.2 A	1.2 A	1.5 A	2 A
Thrust	300 N	400 N	600 N	1000 N
Opening and closing speed	0.1 - 0.25 m/s	0.1 - 0.25 m/s	0.1 - 0.24 m/s	0.1 - 0.19 m/s
Release system for manual opening	key-operated	key-operated	key-operated	key-operated
Operating temperature	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)
Protection level	IP 24D	IP 24D	IP 24D	IP 24D
Product dimensions (mm)	335x210x307	335x210x307	335x220x325	335x220x325

System functions

Description	NeoS 300 - NeoS 400 NeoS 600	NeoS+ 300 - NeoS+ 400 NeoS+ 600 - NeoS+ 1000
Control panel	ref. CS12E for 1 24 V DC motor with built-in receiver	ref. CS12M for 1 24 V DC motor with built-in receiver
Radio frequency	433.92 MHz standard 868.65 MHz (with GOL868R4)	433.92 MHz standard 868.65 MHz (with GOL868RS)
Mains power supply	230 V AC / 50/60 Hz	230 V AC / 50/60 Hz
Batteries	■ (optional)	■ (optional)
 Energy saving mode		■
Solar energy ready		■ (ready)
Accessories power supply	24 V DC / 0.3 A	24 V DC / 0.5 A
Flashing light	24 V DC	24 V DC
Gate open warning light and open gate indicator output		■
Courtesy light output (up to 400 W)		■
External LED output		■
Micro USB connection per PC diagnostic		■
Automatic closing activated by external timer or remote signal (opening/closing can be programmed daily/weekly)		■
8,2 KΩ input for safety edge	■ (with GOPAV system)	■ (with GOPAV system)
Force setting	via display	via display
ODS - Obstruction Detection System	■	■
Speed setting	via display	via display
Braking / slowing down	via display	via display
Partial opening control	■ (only with remote control)	■ (with remote control and selector)
Open / Close control	■	■
Temporised automatic closing	■	■
Hold-to-run control	■	■
Emergency stop / reverse	■	■
Safety test	■	■
Soft Start	■	■
NIO - Antifreeze system	■	■

Examples of installation and technical characteristics

Ditec Cross 18 - Ditec Cross 19



Technical specifications

Description: electromechanical actuator	Cross 18	Cross 18E	Cross 18VE	Cross 19V	Cross 30E
Travel control system	rotary stop	lever	magnetic mechanical stop	magnetic mechanical stop	magnetic mechanical stop
Capacity	1800 kg	1800 kg	1800 kg	1800 kg	3000 kg
Duty class	4 - heavy duty	4 - heavy duty	4 - heavy duty	4 - heavy duty	5 - very heavy duty
Intermittent operation	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S3 = 100%
Power supply	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz	400 V AC 50 Hz	400 V AC 50 Hz
Input	3 A	3 A	3 A	1.2 A	2.1 A
Thrust	1200 N	1200 N	1200 N	1500 N	3000 N
Opening speed	0.2 m/s	0.2 m/s	0.2 m/s	0.2 m/s	0.16 m/s
Closing speed	0.2 m/s	0.2 m/s	0.2 m/s	0.2 m/s	0.16 m/s
Max stroke	11 m	20 m	20 m	20 m	20 m
Release system for manual opening	key operated	key operated	key operated	key operated	a key operated
Operating temperature	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C	-20°C / +55°C
Protection rating	IP 24D	IP 24D	IP 24D	IP 24D	IP 45
Product Dimensions (mm)	440x205x375	440x205x375	440x205x375	440x205x375	530x275x588
Control panel	E1A LOGICM	E1A (built in)	LOGICM (built in)	E1T	E1T (built in)

System functions

Description	Cross 18 - 18E	Cross 18 - 18VE	Cross 19V - Cross 30E
Control panel	ref. E1A for 1 230 V AC motor with built-in radio	ref. LOGICM for 1 or 2 230 V AC motors	ref. E1T for 1 three-phase 400 V AC motor
Mains power supply	230 V AC / 50/60 Hz	230 V AC / 50/60 Hz	230 V AC / 50/60 Hz
Accessories power supply	24 V DC / 0.5 A	24 V DC / 0.5 A	24 V DC / 0.5 A
Flashing light	230 V AC	230 V AC and 24 V DC	24 V DC
Gate open warning light (signals incomplete closure)	from limit switch	from limit switch and analogue	from limit switch
Courtesy light	■	■ (only with 1 motor)	
Limit switch provision	■	■	■
Force adjustment control setting	transformer	transformer	
ODS - Obstruction Detection System (halts or reverses movement if an obstacle is detected)	■	■	
Operation time adjustment	■	■	
Open control	■ (with dip-switch)	■	■ (with dip-switch)
Partial opening control	■ (with radio only)	■	■
Close control	■	■	■
Temporised automatic closing	■	■	■
Inching control	■	■	■
Hold-to-run control	■	■	■
Stop safety device	■	■	■
Reverse operation safety device	■	■	■
Safety Test Facility (for SOF self-testing safety devices)	■	■	■
NIO - Antifreeze system (for maintaining motor efficiency even at very low temperatures)	■	■	
Operating temperature	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C

UNC TIO AL

External automation by Ditec, quality stands out, automatically. Great care is required at the design stage of automation used on swing gates, as the gates are exposed to bad weather and are often very frequently used.

In order to offer the best possible solution, when designing the automation system, it is crucial to know exactly how the gate will be used.

Ditec offers a full range of products designed to allow easy installation on gates of any size and to cater for any type of duty.



Ditec Obbi

Safe and functional, for swing gates with doors up to 3 metres
For medium duty

Elegant design

Gates for residential use often need to be powered with automation systems which not only guarantee long-term reliability, but also fully integrate with the aesthetics of the gate.

Ditec Obbi, with its refined and essential design, perfectly satisfies this requirement.

Versatile

The structure, which is very thin, enables exceptional integration and easy assembly, thanks both to the special attachment system, which can also be fastened without welding, and the **01** multi-hole rear bracket, which makes it possible to find the ideal operating position by changing the combination of fastening holes.

Simple

In the event of a power failure, the automation can be manually operated by using the key operated release system **02** or automatically operated if a control panel with battery has been installed.

Distinctive features

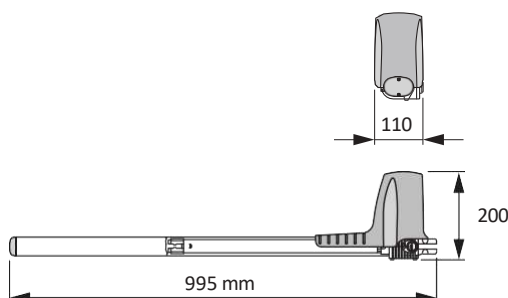
- High safety level ensured by the 24 V DC power supply
- Smart yet simple design
- Anodised aluminium shaft cover
- Adaptable to every type of gate, both modern and stylised
- Can be used to operate gates with small pillars
- Easily accessible key-operated release system
- The following features are available: partial opening, speed setting, soft start and soft stop

Special accessories

- Back-up battery pack to be used in the event of a power failure



Dimensions

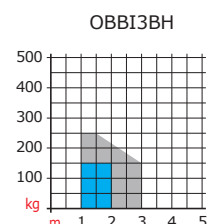


Product range

OBBI3BH	up to 3 m
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Operation diagrams

- Recommended use
- Operation limit



Ditec Luxo

Sturdy and indefatigable, for swing gates with doors up to 5 metres
For heavy duty

The privilege of beauty

Smart and refined, Ditec Luxo was designed to be admired and desired.

Has a modern and futuristic structure which plays with soft and fluid shapes, adapting well to every kind of gate.

The automation has been designed to comply with the sturdiest and most reliable Ditec systems.

Being made of aluminium, it looks light and clean; this will ensure its long life, withstanding harsh weather, and is further enhanced by an additional polyester coating.

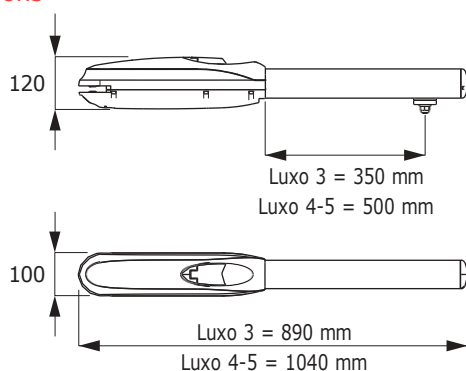
Every detail and shape has been carefully and passionately designed.

Power failure? No problem!

Thanks to its manual release system, located under its smart and easily accessible plastic cover **01**, all emergencies caused by power failure can be easily overcome.



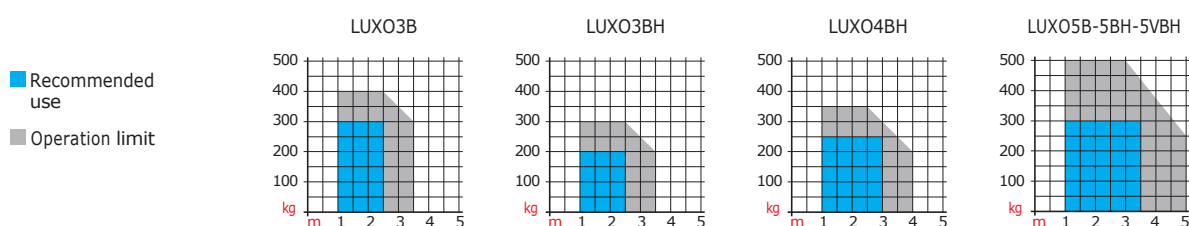
Dimensions



Product range

LUXO3B	reversible - irreversible, 230 V AC motor, for wings up to 3.5 m
LUXO3BH	irreversible, 24 V DC motor, for wings up to 3.5 m
LUXO4BH	irreversible, 24 V DC motor, for wings up to 4 m
LUXO5B	reversible - irreversible, 230 V AC motor, for wings up to 5 m
LUXO5BH	irreversible, 24 V DC motor, for wings up to 5 m
LUXO5VBH	irreversible, 24 V DC motor, for wings up to 5 m, with limit switch

Operation diagrams



Total life time reliability

System and power connection cables are located in a specially designed raceway **02** to avoid scratching, torsion and wear during operation, thus preventing any possible damage. Brackets are made of galvanized steel **03** while rotation bushes are made of hardened steel to ease the movement of the automation and to resist wear and tear.

Easy installation

Under the upper casing all electric connections are neatly gathered **04** to make both installation and maintenance easy and quick.

Smartly designed, details included

All fixing screws **05** are made of stainless steel to be weatherproof and to preserve the beauty of the whole automation system over time. However, they are intentionally and cleverly hidden by the designer's attention to detail. Sturdy, durable and reliable, it works quietly to be admired and desired **06**.

Distinctive features

- Irreversible or reversible, customer specified
- Version with dustproof brushes and limit switch as standard (LUXO5VBH)
- Version with 24 V DC motor, partly open, speed adjustment, soft start and soft stop

Special accessories

- Limit switch unit
- Back-up battery pack to be used in the event of a power failure



Ditec arm automation system with

articulated arm, the ideal solution for complex situations.

Automation for swing gates, ideal for medium and heavy duty applications.

Quiet, hard-wearing and easy to install, can be configured to meet any need - even complex ones such as

very large wings or out-of-plumb pillars.

VER SAT

LE



Ditec Facil

Simple and versatile, for swing gates with doors up to 2.3 metres
For heavy duty

Ditec Facil has been designed to be simple to install and easy to connect, being able use many various types of motor it is highly practical.

The ABS guard ensures good resistance against the weather and boasts high quality and elegant finishes, simple and clean lines, and can blend perfectly to any type of entrance.

No problem in case of power failure

The key operated, easily accessible release door is built into the front of the cast aluminium casing **01**.

The Deb 04 device, which is easily operated with a cord, allows the automation to be remotely controlled without opening the door.

Carefully designed with safety in mind

The shape of the articulated arm and its connection to the casing **02** have been designed to avoid any shearing problems.

Ditec Facil is fitted with built in and adjustable open-close mechanical stops.

A limit switch unit can be installed to supply visual indicators or to stop the wing.

Ready and simple to install

Ditec Facil features a built-in electronic panel which can easily be removed, leading to obvious advantages during the installation stage as well as when performing any maintenance on the automation.

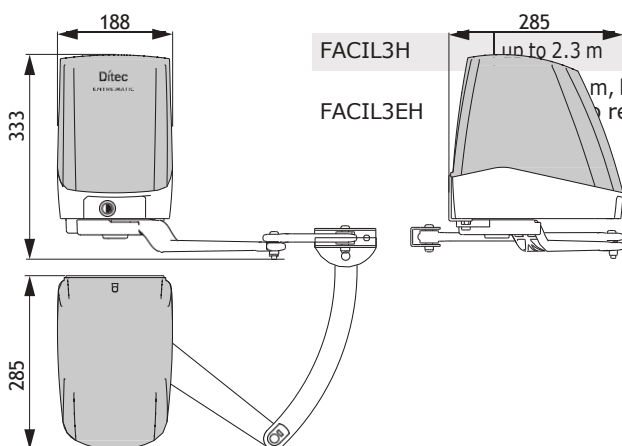
After removing the guard, the see-through control panel enclosure can be taken out to reveal the controls.

Accessories

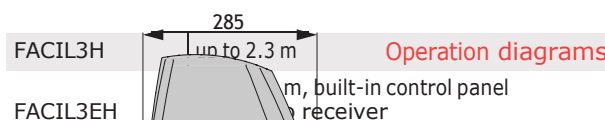
- Key operated handle with 5 m remote release cord
- Limit switch unit
- Internal and external battery for VIVA H control panel
- Straight arm



Dimensions



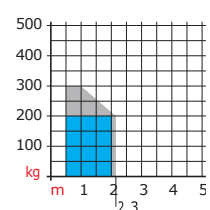
Product range



Operation diagrams

- Recommended use
- Operation limit

FACIL3H - FACIL3EH



Ditec Arc

Easy to install and versatile, for swing gates with doors up to 5 metres
For heavy duty

Versatile

Ditec Arc allows easy installation, can move even very large wings, and is available with 24 V DC power supply, ensuring high operating safety.

Ensures long-lasting operational reliability

Ditec Arc key release system is easy to access. In case of power failure, the 24 V DC version ensures some emergency automatic operations, taking the necessary power supply from the battery (optional).

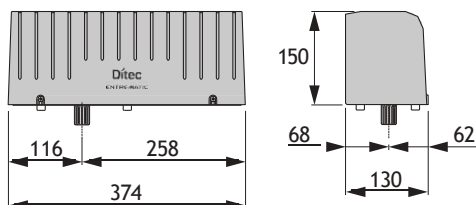
The ABS casing offers a greater resistance to atmospheric agents.

Accessories

- Key operated handle with 5 m remote release cord
- Limit switch unit
- Internal and external battery for VIVA H control panel
- Gear motor side fastening plate
- Adjustable stop



Dimensions

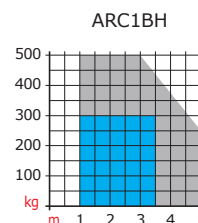
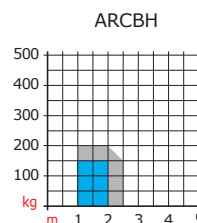


Product range

ARCBH	up to 2.5 m
ARC1BH	up to 5 m

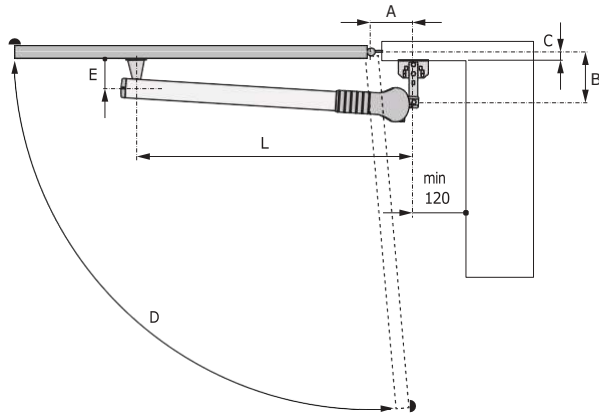
Operation diagrams

- Recommended use
- Operation limit



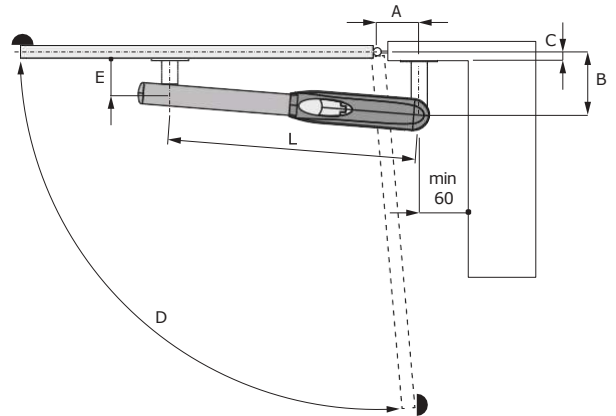
Charts

Ditec Obbi



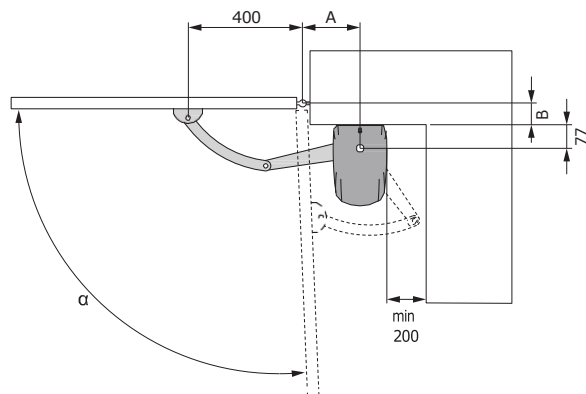
A	B	C max (90°)	D max	E	L
150	150	85	100°	75	910
120	160	95	100°	75	910
120	180	115	100°	75	910
160	120	55	110°	75	910

Ditec Luxo



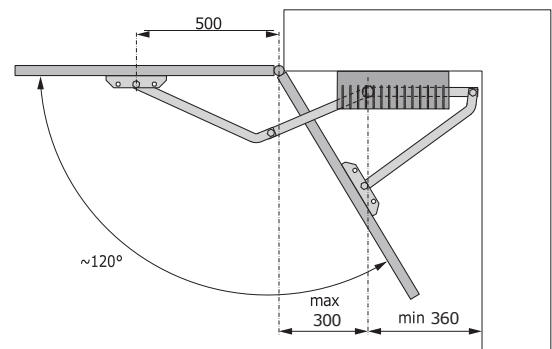
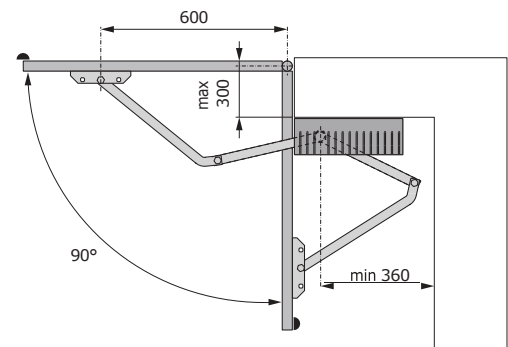
(*) Use measurements between minimum and maximum								
	A*	B*	A	B	C	D	E	L
Luxo 3B Luxo 3BH	min 105 max 130	min 120 max 170	130	170	100	90°	90	760
			105	140	70	90°		
			130	130	60	95°		
			170	130	50	110°		
Luxo 4BH Luxo 5B Luxo 5BH Luxo 5VBH	min 130 max 200	min 170 max 290	170	170	100	90°	120	910
			200	200	130	95°		
			200	170	100	120°		
			130	290	220	90°		

Ditec Facil



		A (mm)									
B (mm)	0	90°	90°	95°	95°	100°	100°	105°	105°	110°	
	50	90°	90°	95°	95°	95°	95°	95°	95°	95°	
	100	90°	90°	90°	90°	90°	90°	90°	90°	/	/
	150	90°	90°	90°	90°	90°	90°	90°	/	/	/
	200	90°	90°	90°	90°	90°	/	/	/	/	/

Ditec Arc



INVIS

Underground automation for Ditec

Cubic 6 swing gates do not alter the aesthetics or style of the gate. There are several issues that come into play when it comes to buying a house: looks, comfort, proximity to facilities and, above all, security. Convenience and security start at the entrance to the property. Ditec Cubic 6, the range of underground control systems for swing gates, is the solution which meets this requirement.

BLE



Ditec Cubic 6

The invisible automation
For medium and heavy duty

Ideal for architecturally fine gates

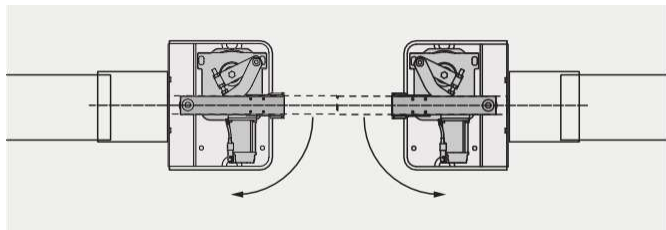
Ditec Cubic 6 is an underground automation for swing gates. Unobtrusive on its visible parts, the product allows the gate to open and close without interfering with its look and style. This makes it the ideal solution for fine gates and entrances, such as those fitted to architecturally attractive or historically significant buildings, or for any application where style, look or elegance should be kept unaltered.

Concealed, sturdy and versatile

Practical and simple to operate, the automation consists of a stainless steel or electrically galvanised steel foundation casing fitted below the ground, where the geared motor and all mechanical linkages which operate the gate leaves are housed.

This highly versatile solution which can be customised to individual requirements:

- allows the gate to be opened at a very wide angle, up to 180°;
- combined with Ditec electrical control panels, the automation allows the motor to successfully overcome any initial friction caused by bad weather conditions such as ice;
- can also be used in applications requiring fast access.

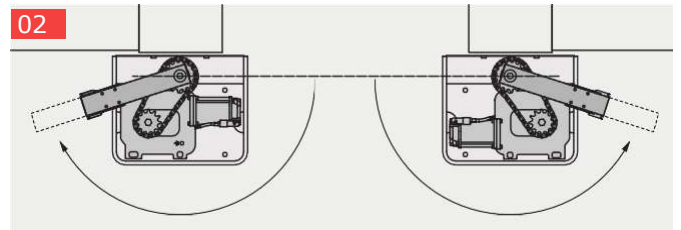


Distinctive features

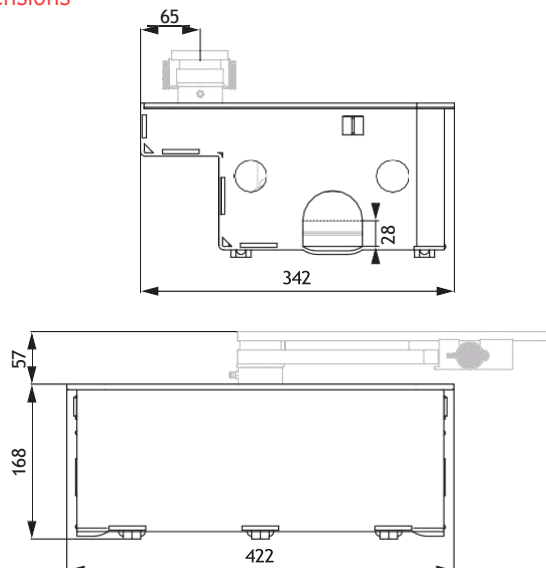
- The gear motors are housed in a sturdy stainless steel or electrically galvanised steel foundation casing to increase resistance to weathering; the automation is fixed by means of stainless steel screws pre-built in the foundation casing
- In the 110° angle version **01**, rotation is done by a lever system, whilst in the 180° angle version rotation is done by a chain **02**
- CE mark
- Aesthetically pleasing release system with key and lever which may be operated from both sides
- Works even at low temperatures
- Motor protected by an internal temperature probe
- Supplied with all security, control and monitoring accessories
- Wing support system on hardened steel ball

Special accessories

- Internal mechanical stop both for opening and closing operations
- Magnetic limit switches
- DIN key



Dimensions

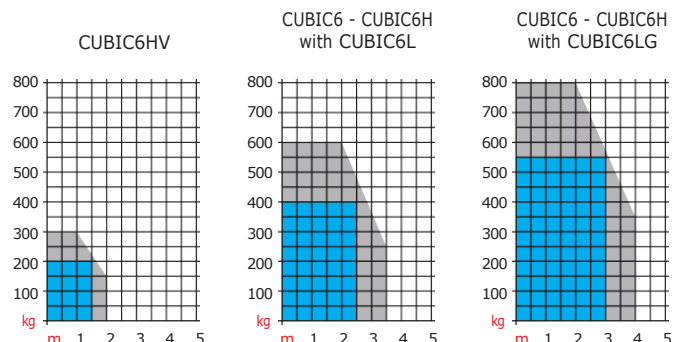


Product range

CUBIC6HV	up to 1.5 m
CUBIC6 - CUBIC6H	up to 3.5 m

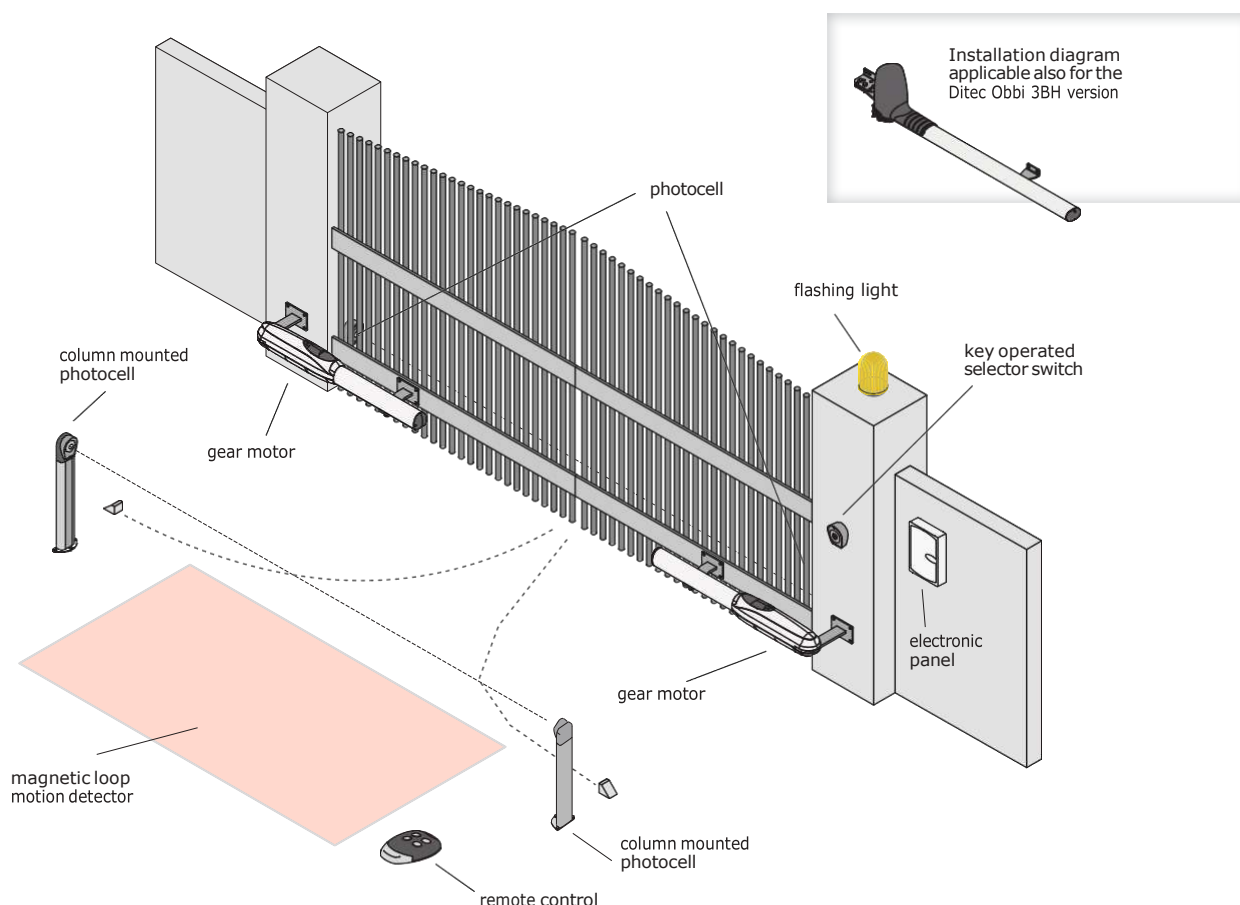
Operation diagrams

■ Recommended use ■ Operation limit



Examples of installation and technical characteristics

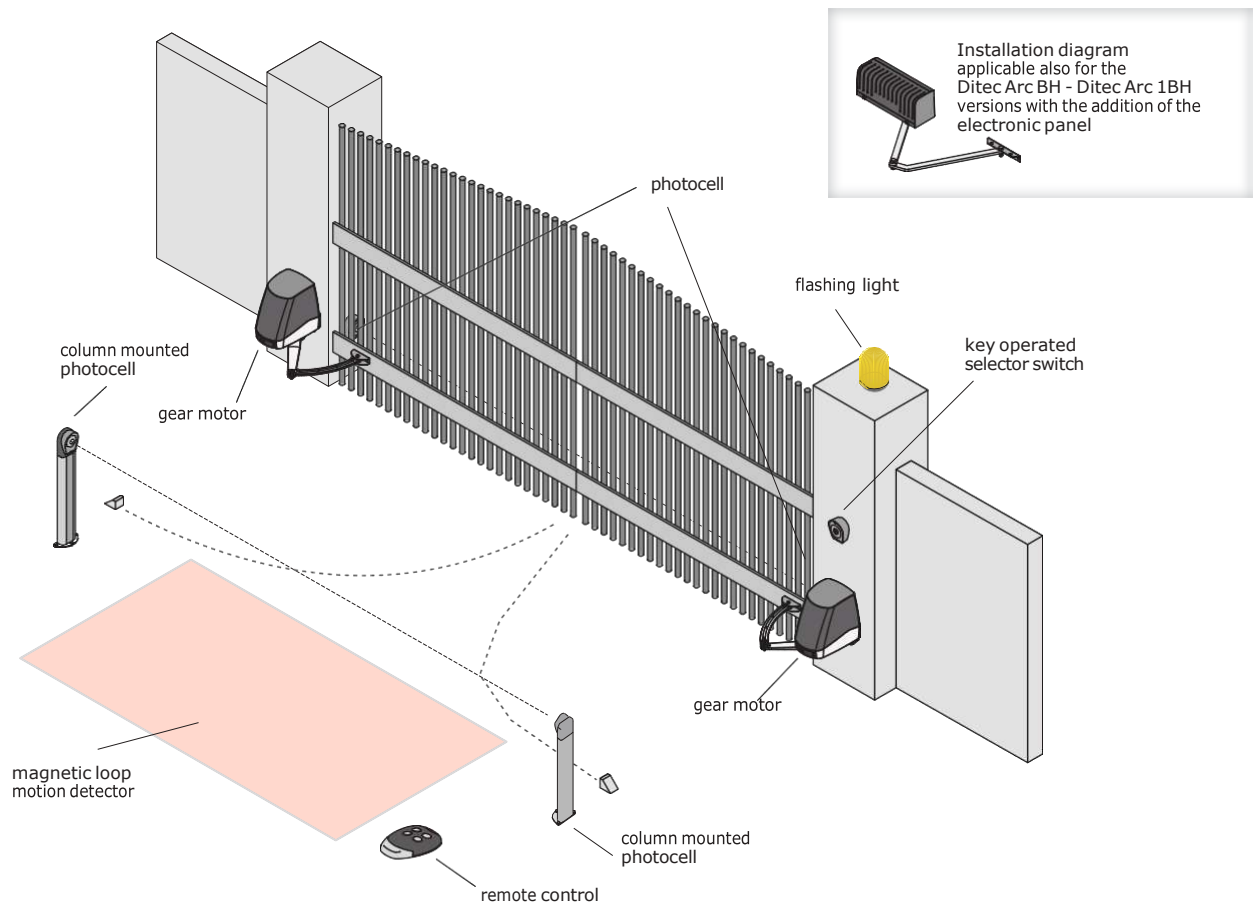
Ditec Luxo



Technical specifications

Description	Obbi 3BH	Luxo 3B	Luxo 3BH	Luxo 4BH	Luxo 5B	Luxo 5BH-5VBH
Electromechanical actuator	irreversible for up to 3 m wide wing	irreversible and reversible for up to 3.5 m wide wing	irreversible for up to 3.5 m wide wing	irreversible for up to 4 m wide wing	irreversible and reversible for up to 5 m wide wing	irreversible for up to 5 m wide wing
Stroke control		lever-operated limit switch (optional)	lever-operated limit switch (optional)	lever-operated limit switch (optional)	lever-operated limit switch (optional)	lever-operated limit switch (optional for 5BH)
Maximum capacity	250 kg x 1.5 m 150 kg x 3 m	350 kg x 2.5 m 250 kg x 3.5 m	300 kg x 2.5 m 200 kg x 3.5 m	350 kg x 2.5 m 200 kg x 4 m	500 kg x 3 m 250 kg x 5 m	500 kg x 3 m 250 kg x 5 m
Duty class	3 - medium duty	4 - heavy duty	4 - heavy duty	4 - heavy duty	4 - heavy duty	4 - heavy duty
Intermittent operation	S2 = 30 min S3 = 50%	S2 = 20 min S3 = 50%	S2 = 20 min S3 = 50%	S2 = 20 min S3 = 50%	S2 = 20 min S3 = 50%	S2 = 20 min S3 = 50%
Power supply	24 V DC	230 V AC / 50 Hz	24 V DC	24 V DC	230 V AC / 50 Hz	24 V DC
Power input	3 A	1.1 A	4 A	4 A	1.1 A	12 A
Thrust	1500 N	3000 N	2000 N	2000 N	3000 N	3000 N
Opening time	25 s/90°	22 s/90°	22 s/90° (E2HLX) 20-30 s/90° (VIVA H)	22 s/90°	32 s/90°	20-45 s/90°
Max stroke	350 mm	350 mm	350 mm	500 mm	500 mm	500 mm
Actuator maximum opening	110°	110°	110°	120°	120°	120°
Release system for manual opening	key-operated	key-operated	key-operated	key-operated	key-operated	key-operated
Operating temperature	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)
Protection rating	IP 54	IP 24D	IP 24D	IP 24D	IP 24D	IP 24D
Product dimensions (mm)	110x200x995	100x120x890	100x120x890	100x120x1040	100x120x1040	100x120x1040
Control panel	E2HOB VIVA H	E2 LOGIC M	E2HLX VIVA H	E2HLX VIVA H	E2 LOGIC M	VIVA H

Ditec Facil

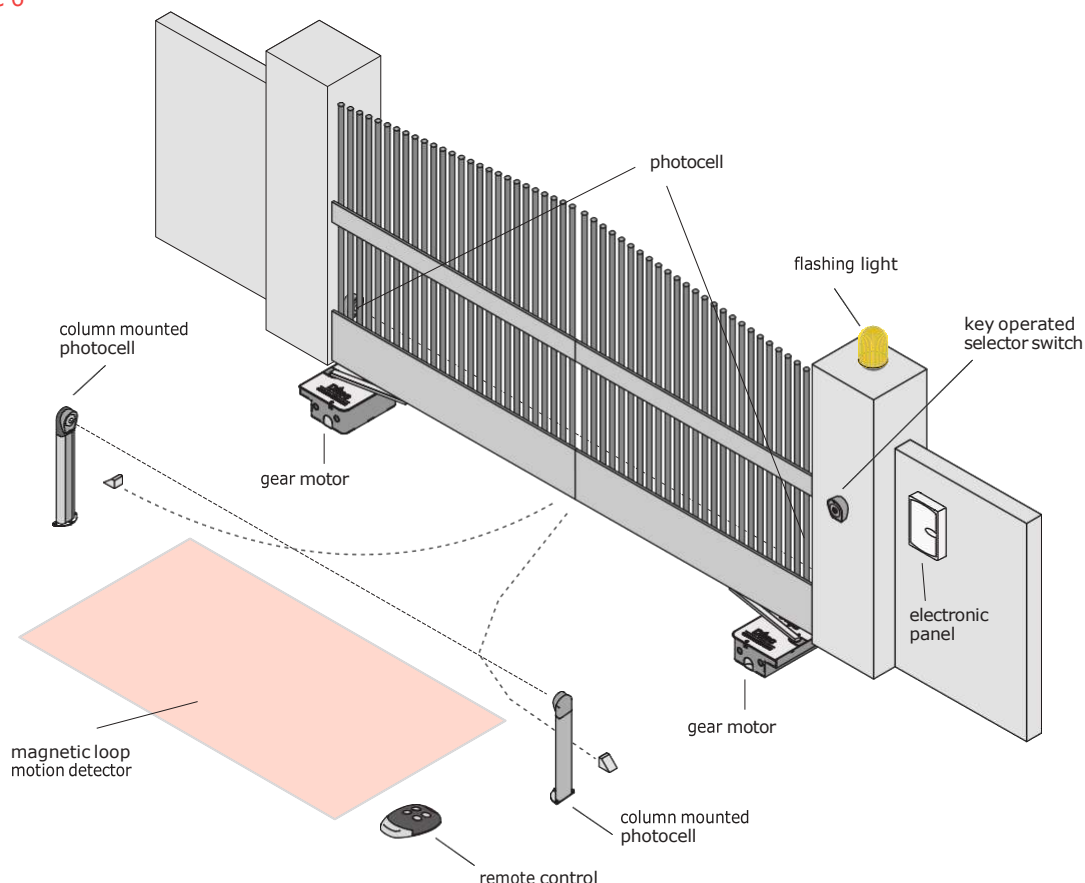


Technical specifications

Description	Facil 3H	Facil 3EH	Arc BH	Arc 1BH
Electromechanical actuator	irreversible for up to 2.3 m wide wing	irreversible for up to 2.3 m wide wing	irreversible for up to 2.5 m wide wing	irreversible for up to 5 m wide wing
Stroke control	rotary limit switch (optional)	rotary limit switch (optional)	rotary limit switch (optional)	rotary limit switch (optional)
Maximum capacity	200 kg x 2.3 m 300 kg x 1 m	200 kg x 2.3 m 300 kg x 1 m	200 kg x 2 m 150 kg x 2.5 m	500 kg x 3 m 250 kg x 5 m
Duty class	3 - heavy duty	3 - heavy duty	4 - heavy duty	4 - heavy duty
Intermittent operation	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power supply	24 V DC	24 V DC	24 V DC	24 V DC
Power input	6 A	6 A	3 A	12 A
Torque	200 Nm	200 Nm	150 Nm	300 Nm
Opening time	12÷32 s/90°	12÷32 s/90°	15÷18 s/90°	15÷30 s/90°
Actuator maximum opening	110°	110°	130°	130°
Release system for manual opening	key operated	key operated	key operated	key operated
Operating temperature	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)
Protection rating	IP 54	IP 54	IP 54	IP 54
Product dimensions (mm)	188x285x332	188x285x332	374x130x150	374x130x150
Control panel	E2HFC (with FACIL3EH) VIVAH	E2HFC (built-in)	E2HAR VIVA H	VIVA H

Examples of installation and technical characteristics

Ditec Cubic 6



Technical specifications

Description	Cubic 6	Cubic 6H	Cubic 6HV
Electromechanical actuator	irreversible for up to 3.5 m wide wing	irreversible for up to 3.5 m wide wing	irreversible for up to 1.5 m wide wing
Stroke control	magnetic limit switch (optional)	magnetic limit switch (optional)	magnetic limit switch (optional)
Maximum capacity	600 kg x 2 m 250 kg x 3.5 m	600 kg x 2 m 250 kg x 3.5 m	200 kg x 1.5 m
Duty class	3 - medium duty	4 - heavy duty	4 - heavy duty
Intermittent operation	S2 = 15 min S3 = 25%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power supply	230 V AC / 50 Hz	24 V DC	24 V DC
Power input	1.5 A	12 A	12 A
Torque	340 Nm	340 Nm	220 Nm
Opening time	18 s/90°	12÷25 s/90°	6÷13 s/90°
Actuator maximum opening	110° or 180°	110° or 180°	110° or 180°
Release system for manual opening	key operated	key operated	key operated
Operating temperature	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)
Protection rating	IP 67	IP 67	IP 67
Control panel	E2 LOGICM	VIVA H	VIVA H

System functions

Description	Obbi 3BH	Luxo 3BH - 4BH	Luxo 3B - 5B Cubic 6	Luxo 3B - 5B Cubic 6	Obbi 3BH Luxo 3BH - 4BH Luxo 5BH - 5VBH Facil 3H Arc BH - 1BH Cubic 6H - 6HV	Facil 3H - 3EH Arc BH
Control panel	ref. E2HOB for 1 or 2 motors 24 V DC with built-in radio	ref. E2HLX for 1 or 2 motors 24 V DC with built-in radio	ref. E2 for 1 or 2 motors 230 V AC with built-in radio	ref. LOGIC M for 1 or 2 230 V AC motors	ref. VIVA H for 1 or 2 24 V DC motors	ref. E2HFC - E2HAR for 1 or 2 motors 24 V DC with built-in radio
Mains power supply	230 V AC / 50/60 Hz	230 V AC / 50/60 Hz	230 V AC / 50 Hz	230 V AC / 50 Hz	230 V AC / 50/60 Hz	230 V AC / 50/60 Hz
Batteries	■ (optional)	■ (optional)			■ (optional)	■ (optional)
 Energy saving	reduced consumption when in use	reduced consumption when in use	reduced consumption when in stand-by		reduced consumption when in use	reduced consumption when in use
Accessories power supply	24 V DC / 0.5 A	24 V DC / 0.5 A	24 V DC / 0.5 A	24 V DC / 0.5 A	24 V DC / 0.5 A	24 V DC / 0.5 A
Electro-mechanical lock	24 V DC / 1.2 A	24 V DC / 1.2 A	12 V DC / 15 W	24 V DC / 1.2 A	24 V DC / 1.2 A	24 V DC / 1.2 A
Flashing light	24 V	24 V	230 V	230 V and 24 V	24 V	24 V
Gate open warning light	analogue	analogue	from limit switch and analogue	from limit switch and analogue	analogue	analogue
Courtesy light			■ (1 motor only)	■ (1 motor only)	24 V	24 V
Limit switch provision		■	■	■	■	■
Encoder (to control speed and deceleration)	virtual encoder	virtual encoder			virtual encoder	virtual encoder
Force setting	display	display	electronic	transformer	automatic	display
ODS - Obstruction Detection System	■	■	■	■	■	■
Speed setting	display	display			■	display
Braking/slowing down	display	display			■	display
Time setting	display	display	■	■	■	display
Open control	■	■	■ (with dip-switch)	■	■	■
Partial opening control	■	■	■ (with radio only)	■	■	■
Close control	■	■	■	■	■	■
Temporised automatic closing	■	■	■	■	■	■
Inching control	■	■	■	■	■	■
Hold-to-run control	■	■	■	■	■	■
Emergency stop	■	■	■	■	■	■
Emergency reverse	■	■	■	■	■	■
Safety Test	■	■		■		■
NIO - Antifreeze System	■	■		■	■	■
Soft start	■	■			■	■
Operating temperature	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)
Protection rating	IP 55	IP 55	IP 55	IP 55	IP 55	
Product dimensions (mm)	187x261x105	187x261x105	187x261x105	187x261x105	238x357x120	



SAF EL

Smartly designed,
yet practical and safe,
to ensure a long life

AND ABLE

Soft edges, rounded corners, high performance and suitability
for any type of installation environment

Ditec Qik is the ideal solution for a totally safe access control of medium to high transit environments such as hotels, banks, shopping malls, as well as blocks of flats, companies and camp sites, which always require access control of car parking areas, to ensure their use to authorised people only.

The Ditec Qik barriers are available in grey or in stainless steel, the ideal solution for harsher environments such as areas near the sea.





01 Two different types of cabinet to cater to various needs: one, slim-line and stylish for entrances of up to 5.8 metres, and one larger size for entrances of up to 7.6 metres, meeting the requirement for greater sturdiness and conveying stronger-impact aesthetics. The electronic panel is positioned on the top part of the barrier at a height that permits easier access to components and therefore allows conveniently carrying out setting and maintenance jobs.

The top structure has a provision for an aerial to be installed to avoid any vandal attacks.

The pickled, metallic colour painted sheet metal does not degrade with time, despite adverse weather conditions, and gives Ditec Qik a clean look.

02 The key operated lever release system can be promptly accessed from the inspection side; fitted with a cover plate, the system can safely handle all emergencies in case of power failure.

03 The aluminium arm, round or elliptical, has been designed to avoid any shearing problems, thanks to a rubber guard located in the top and bottom section and to the rounded design of the rotation pin.

The round arm can be up to 7.6 metres long.

The elliptical shape ensures better wind resistance, thus avoiding any swinging in the 5.8 metre version.

The arm is fitted with a rubber end plug and a provision for accessories (pivot pins, red reflective strips, fixed and moving mountings, vandal proof electrically operated lock, skirting and battery kit).

04 To ensure more visibility in the more demanding applications, the direct current version is fitted with an arm lighting kit: the LED goes off when the arm is up; it flashes when the arm is moving and is continuously lit when the arm is down, in order to enhance its outline.

05 The balancing system uses a single compression spring. Five (differently coloured) springs are available. These springs, when correctly positioned and adjusted, allow the arm to be correctly balanced according to its dimension.

The system can be installed either on the right or on the left hand side by simply changing its position.

Two limit switches fitted to the alternating current version and one encoder to the direct current version allow further adjustments to the arm to be made in order to satisfy all possible requirements. Ditec Qik is also fitted with two adjustable mechanical stops.

Ditec Qik

Truly innovative shapes and uncompromising safety

- CE marking
- Alternating current motor for base applications and direct current motor with high performance in terms of speed and number of operations
- Gear motor aligned with the barrier exit in order to eliminate the lever system and facilitate access to the control unit
- Simple to install, the system ensures a very easy access to the control unit
- The 24 V DC version with encoder and limit switch allows slowdowns and speed control. Possibility of using batteries and operating intermittency
- In the Ditec Qik 80, the MD2 display module can be used for the diagnostics and enhanced control of panel adjustments, updatable by means of DMCS software.

Clean look and attention to details for heavy duty applications
All rivets are made of stainless steel and have no welding to ensure long life and maintain their features unaltered. The monobloc aluminium die-cast reduction unit ensures easy installation, longer life and easy cleaning.

Tested to over a million operating cycles

The low stress reduction unit ensures a very high number of operations. The test carried out on the unit has achieved with ease a staggeringly high number of operations, over 1,500,000.

Access system built with safety in mind

The Ditec Qik barriers, when matched to the LAN control systems, solve all access problems and are very easy to use. To allow employees and key customers to operate the barrier, a wide range of solutions are available: a remote control, a traditional key or keypad operated selector switch, a "LAN transponder" system or a "coin" system, which allows the barrier to be operated only once. This is a great solution for hotels, sport centres, shops and restaurants, visited by users who need temporary, quick and simple access. Furthermore, the "magnetic loop" system is inherently very practical and simple to use.

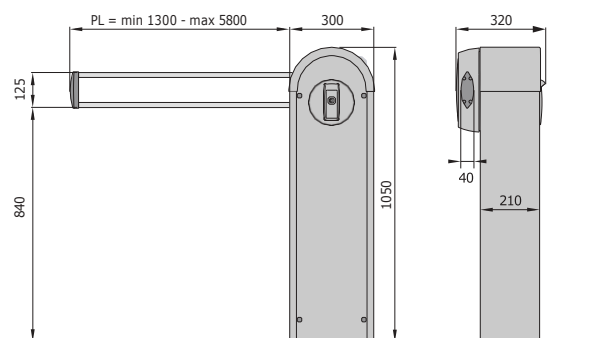
The detector, when installed on the pavement, allows the exit barrier to be automatically operated when a vehicle goes over it, thus ensuring a regular flow of vehicles and avoiding unwelcome queues.

Specific accessories

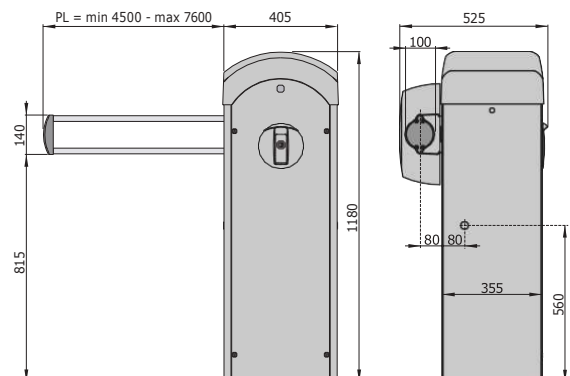
- Red reflective strips
- Fixed mounting
- Moving mounting
- Vandal proof electrically operated lock
- Aluminium skirting
- Arm pivot pin kit at 90°
- Batteries / Light kit
- Display module for diagnostics and enhanced control

Dimensions

Qik 4E - Qik 7EH



Qik 80EH

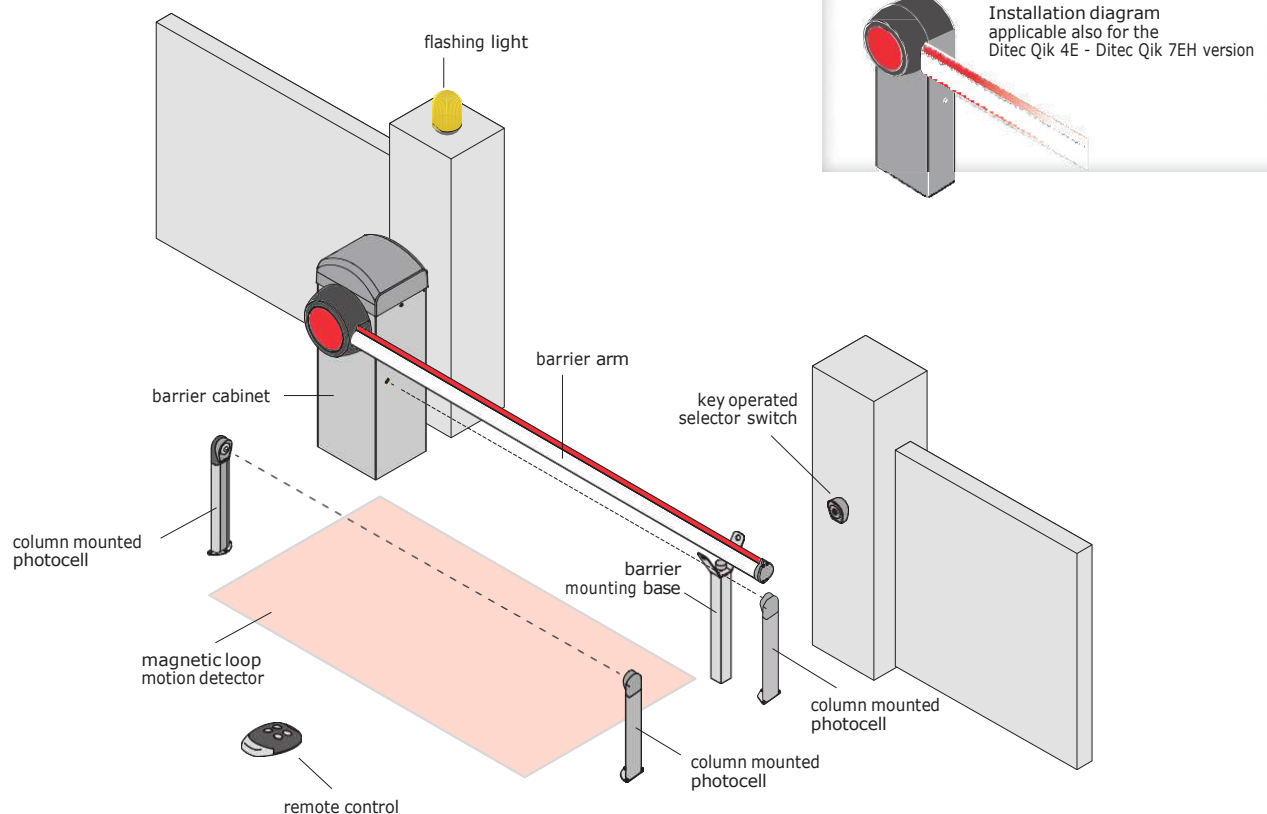


Product range

QIK4E	up to 3,5 m
QIK7EH	up to 5,8 m
QIK80EH	up to 7,6 m

Examples of installation and technical characteristics


Ditec Qik 80EH



Technical specifications

Description	Qik 4E	Qik 7EH	Qik 80EH
Barriers	up to 3.5 m long	up to 5.8 m long	up to 7.6 m long
Travel control system	lever-type limit switch	encoder	encoder + limit switch
Arm length up to	3.7 m	6 m	7.95 m
Arm	elliptic	elliptic	round
Duty class	4 - heavy	5 - very heavy	4 - heavy
Intermittent operation	S2 = 15 min S3 = 30%	S2 = 60 min S3 = 60%	S2 = 50 min S3 = 50%
Power supply	230 V~ / 50 Hz	230 V~ / 50/60 Hz	230 V~ / 50/60 Hz
Input	1.2 A	1 A	1.2 A
Torque	90 Nm	70 Nm	200 Nm
Opening time	4 s/90°	2÷6 s/90°	6÷12 s/90°
Closing time	4 s/90°	2÷6 s/90°	6÷12 s/90°
Release system for manual opening	Key-operated	Key-operated	Key-operated
Operating temperature	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled, -10°C / +50°C with battery)	-20°C / +55°C (-35°C / +55°C with NIO enabled, -10°C / +50°C with battery)
Protection rating	IP 24D	IP 24D	IP 24D
Product dimensions (mm)	300x320x1050	300x320x1050	405x525x1180
Control panel	E1A (built-in)	EL31R (built-in)	EL34 (built-in)

Main system functions

Description	Qik 4E	Qik 7EH	Qik 80EH
Control panel	ref. E1A for 1 230 V~ motor with built-in radio	ref. EL31R for 1 24 V= motor with built-in radio	ref. EL34 for 1 24 V= motor with built-in radio decoder
Mains power supply	230 V~ / 50 Hz	230 V~ / 50/60 Hz	230 V~ / 50/60 Hz
Batteries		■ (optional)	■ (optional)
Energy saving 			reduced consumption when in use
Accessories power supply	24 V= / 0.5 A	24 V= / 0.3 A	24 V= / 0.5 A
Electrically operated lock		24 V= / 0.1 A	24 V= / 1 A
Flashing light	230 V AC	24 V DC	24 V DC
Automation open warning light	from limit switch	analogue	analogue
Courtesy light	■	■	■
Limit switch provision	■	■	■
Encoder to control speed and deceleration		■	■
Force setting	transformer	automatic	automatic
ODS - Obstruction detection system	■	■	■
Speed adjustment		■	■
Braking / Slowdown control		■	■
Operation time adjustment	■		
Open control	■ (with dip-switch)	■ (with dip-switch)	■
Partly open control	■ (with radio only)		
Close control	■	■	■
Automatic timed close control	■	■	■
Inching control	■	■	■ (with dip-switch)
Hold-to-run control	■	■	■
Stop safety device	■	■	■
Reverse operation safety device	■	■	■
Safety Test Facility	■	■	
Soft Start		■	
NIO - Antifreeze system	■	■	■
Instant closure after transit	■	■	■
Protection rating	IP 55	IP 55	IP 55

The accessories that make all the difference

Ditec accessories allows various control and monitoring options

Available for all offered automation solutions

Gol 4 Remote controls

Simply press a button on the remote control and the Ditec drive system springs into action. Thanks to this accessory, foul weather will never be a problem again.



Caddies for Gol 4 remote controls

These can be positioned on any surface or on your car sun visor so you'll always have your remote control within easy reach.



Gol 4M keyboard transmitter

Four channel coded control. Allows electrically operated entrances to be opened with radio signals by entering a code.



Xel 2 and Lab 3 IR photocells
For a maximum level of safety in automation. Can be wall or vertical mounted. Modulated infrared beam.



Xel 5 key operated selector switch
Fitted with a tamper proof device. Can be wall or column mounted.



Lan 4 Digital keypad systems
With digital, anti-vandalism combination and secret code up to 8 digits.



Control and security are in your hands

Lamp

24 V and 230 V flashing light with flashing operation controlled from the control panel.



Available for all offered automation solutions*

Lan 7 control device with proximity control

Wireless identification system, featuring TRANSPONDER technology.



Sof safety edges

These are fitted to all entrance control systems to ensure maximum safety during opening and closing operations.



*Not available for Ditec Qik

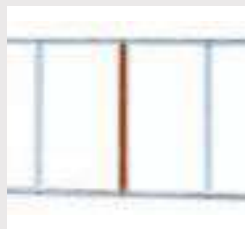
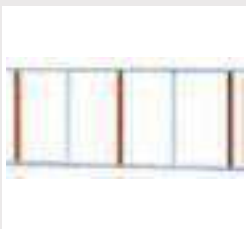
Magnetic loop detector

Starts the barrier automatic opening operation when a car goes over the sensor fitted to the pavement and it detects the car going past it and stops the bar from closing until the car has gone through.



Aluminium skirting

L = 2 m, painted red/white.



*Available for Ditec Qik only

Fixed and moving mounting

Fixed mounting to be installed on the ground, moving mounting to attach to the arm.



*Available for Ditec Qik only



When building the system, only use Ditec accessories and safety devices.

Every Ditec automation features CE marking and is designed and built in compliance with the safety requirements of the Machinery Directive (2006/42/EC), of the Electromagnetic Compatibility Directive (2004/108/EC) and of the Low Voltage Directive (2006/95/EC) and of other Directives, laws, specific standards for special products and situations.

The Company reserves the right to make changes which may improve the products.

For this reason, the technical details given are not binding.

Pictures were taken with the consent of those concerned or in public locations.

Further information can be found in the Technical Manuals available at the website: www.ditecentrematic.com

ENTRE//MATIC



Entrematic Italy S.p.A.

Via Mons. Banfi, 3 • 21042 Caronno P.Ia (VA) • Italy

Tel +39 02 963911 • Fax: +39 02 9650314

ditec@entrematic.com

www.ditecentrematic.com • www.entrematic.com

Cod. N207B - 10/2015
Ditec automation for gates
and automatic barriers
gdp milano 140365

Ditec branches are in: France, Germany, Portugal, Spain, Turkey, USA and Canada.
For addresses and contacts visit our website www.ditecentrematic.com





Airport Madrid-Barajas

GEZE Powerdrive and variations

Automatic sliding door systems



BEWEGUNG MIT SYSTEM

The Powerhouse.

Convenience and safety even for heavy doors are the trademarks of the Powerdrive line.

Large entrances and opening widths together with high leaves make specific demands on door drive technology, and this is precisely where the strong points of the Powerdrive are.

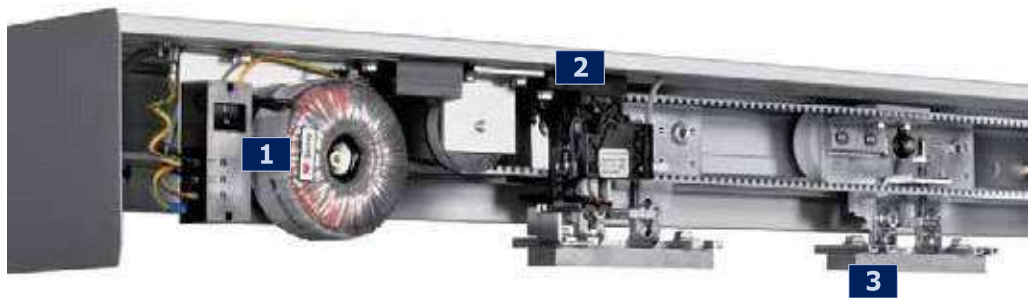
The economical yet high-capacity Powerdrive can move „out of the ordinary“ door leaves up to 200* kg in weight.

The Powerdrive offers the appropriate drive for large-size openings, specific door leaf structures and difficult special fillings in standard and escape route designs.

DIN 18650 - Standard fulfilled

A uniform standard was created with DIN 18650 to guarantee optimal safety to the operators and users of automatic doors. Naturally the GEZE Powerdrive sliding door systems were type-tested and certified in accordance with DIN 18650.

* up to 160 kg for escape route design



1 Transformer

Low noise development and powerful 200 W.

2 Locking system

The bistable electromechanical locking system with mechanical emergency unlocking is continuously monitored by the control and is thus protected from misuse.

3 Roller carriage

Optimal sliding characteristics and minor wear due to the coordinated profiles of the roller and track. Integrated brushes which permanently clean the rollers (self-cleaning roller carriage) ensure high service life and reduced noise development.

4 Control

The self-learning 16-bit microprocessor control adapts the operating parameters to the environmental conditions and uses CAN bus to communicate with other GEZE products.

Always up-to-date because of the easy software update possibilities, and well-equipped in control engineering even for future developments.

5 Battery

In case of emergencies, the light and compact NiMH battery enables the door to be temporarily opened or closed even without an external power supply.

6 Motor

Powerful motor with 400 Ncm and encapsulated gear, low-noise.



Hotel Kempinski, Antalya



Actuation

- ▶ Radar motion detector
GC 302 R and GC 302 SV
- ▶ Radar multi-sensor detector with light curtain Activ R und S, Jupiter R and SV

Safety during closing

- ▶ Active infrared light curtain
Activ R and S, Jupiter R and SV
- ▶ Safety light barrier
GZ 472 V or GZ 470 V

Safety during opening

- ▶ Active infrared light curtain
Iris S or Presence S
- ▶ Active AIR 30 infrared sensor

With respect to all other standard specifications, these sensors can also be utilised for escape and rescue routes.

Extensive range of use

Powerdrive sliding door systems are suitable for:

- ▶ single- and double-leaf doors,
- ▶ with thin-framed leaves, of ESG (single thickness safety glass) and ISO glass (up to 120 kg),
- ▶ and with frame panels of metal, plastic or timber up to 200* kg
- ▶ inside and outside doors.

Safety

The Powerdrive is optimally equipped for use in escape and rescue routes as well. Whether as FR variation with redundant 2-motor technology that will not let the user down even in case of emergencies, or as break-out solution: the Powerdrive always offers the highest degree of safety.

* up to 160 kg for escape route design

Variation variety

To meet the most diverse requirements, the Powerdrive is available in a multitude of variations:

- ▶ **Powerdrive PL**
The high-capacity sliding door system for large and heavy doors
- ▶ **Powerdrive FR**
For escape and rescue routes
- ▶ **Powerdrive FR-RWS** (approved by TÜV)
Constantly self-supervised system which immediately goes into a safe condition as soon as an error is registered somewhere
- ▶ **Powerdrive FR-LL**
Closing time (one way) in escape route locked single fault secure and constantly self-supervised system which immediately goes into a safe condition as soon as an error is registered somewhere
- ▶ **Powerdrive FR-DUO**
Two escape route directions
- ▶ **Powerdrive BO**
In an emergency, the door leaves and side elements can swing out in the direction of the escape route (break-out) to clear the maximum escape route width
- ▶ **Powerdrive HT**
Hermetic sliding door system for use in clean rooms

	Powerdrive PL	Powerdrive FR, FR-RWS, FR-LL, FR-DUO	Powerdrive BO	Powerdrive HT
Drive dimensions (height x width)	150/200 x 185 mm	150/200 x 185 mm	150/200 x 185 mm	300 x 185 mm
Opening width	700 - 3000 mm (Single-leaf) 800 - 3000 mm (Double-leaf)	700 - 3000 mm (Single-leaf) 800 - 3000 mm (Double-leaf)	900 - 1400 mm (Single-leaf) 1000 - 2400 mm (Double-leaf)	700 - 1400 mm (Single-leaf)
Max. passage height	3000 mm	3000 mm	2500 mm	2200 mm
Max. weight per door leaf	200 kg (Single-leaf) 180 or 200* kg (Double-leaf)	160 kg (Single- and double-leaf)	100 kg (Single- and double-leaf)	100 kg (Single-leaf)
Max. opening speed	0,7 m/s (depending on leaf weight)	0,7 m/s (depending on leaf weight)	0,6 m/s	0,5 m/s
Max. closing speed	0,5 m/s	0,5 m/s	0,4 m/s	0,5 m/s

* Possibly increased opening and hold-open times



GEZE GmbH
P.O. Box 1363
71226 Leonberg
Germany

GEZE GmbH
 Reinhold-Vöster-Straße 21-29
 71229 Leonberg
 Germany
 Telefon +49 (0) 7152-203-0
 Telefax +49 (0) 7152-203-310

www.geze.com

Germany
GEZE GmbH
 Niederlassung Nord/Ost
 Bühringstraße 8
 13086 Berlin (Weissensee)
 Tel. +49 (0) 30-47 89 90-0
 Fax +49 (0) 30-47 89 90-17
 E-mail: berlin.de@geze.com

GEZE GmbH
 Niederlassung West
 Nordsternstraße 65
 45329 Essen
 Tel. +49 (0) 201-83082-0
 Fax +49 (0) 201-83082-20
 E-mail: essen.de@geze.com

GEZE GmbH
 Niederlassung Mitte
 Adenauerallee 2
 61440 Oberursel (b. Frankfurt)
 Tel. +49 (0) 6171-63610-0
 Fax +49 (0) 6171-63610-1
 E-mail: frankfurt.de@geze.com

GEZE GmbH
 Niederlassung Süd
 Reinhold-Vöster-Straße 21-29
 71229 Leonberg
 Tel. +49 (0) 7152-203-594
 Fax +49 (0) 7152-203-438
 E-mail: leonberg.de@geze.com

GEZE Sonderkonstruktionen
GmbH
 Planken 1
 97944 Boxberg-Schweigern
 Tel. +49 (0) 7930-9294-0
 Fax +49 (0) 7930-9294-10
 E-mail: sk.de@geze.com

GEZE Service GmbH
 Reinhold-Vöster-Straße 25
 71229 Leonberg
 Tel. +49 (0) 7152-9233-0
 Fax +49 (0) 7152-9233-60
 E-mail: info@geze-service.com

Germany
GEZE Service GmbH
 Niederlassung Berlin
 Bühringstraße 8
 13086 Berlin (Weissensee)
 Tel. +49 (0) 30-470217-30
 Fax +49 (0) 30-470217-33

Austria
GEZE Austria GmbH
 Mayrwiesstraße 12
 5300 Hallwang b. Salzburg
 Tel. +43 (0)662-663142
 Fax +43 (0)662-663142-15
 E-mail: austria.at@geze.com

Asia Pacific
GEZE Asia Sales Ltd.
 No. 88-1-408, East Road
 Free Trade Zone of Tianjin Port
 Tianjin, P.R. China
 Tel. +86 (0)22-26 97 39 95-0
 Fax +86 (0)22 26 97 27 02
 E-mail: Asiasales-info@geze.com.cn

Baltic States
GEZE Baltic States
 Dzelzavas iela 120 S
 1021 Riga
 Tel. +371 (0)67 896 035
 Fax +371 (0)67 896 036
 E-mail: office-latvia@geze.com

Benelux
GEZE Benelux B.V.
 Leemkuil 1
 Industrieterrein Kapelbeemd
 5626 EA Eindhoven
 Tel. +31 (0)40-26290-80
 Fax +31 (0)40-26290-85
 E-mail: benelux.nl@geze.com

China
GEZE Industries (Tianjin) Co., Ltd.
 Shuangchenzhong Road
 Beichen Economic Development
 Area (BEDA)
 Tianjin 300400, P.R. China
 Tel. +86 (0)22-26973995-0
 Fax +86 (0)22-26972702
 E-mail: Sales-info@geze.com.cn

GEZE Industries (Tianjin) Co., Ltd.
 Branch Office Shanghai
 R. 3010, Tower 2, Grand Gateway
 No. 3 Hongqiao Road
 XuHui District
 200030 Shanghai, P.R. China
 Tel. +86 (0)21-644 75 908
 Fax +86 (0)21-644 72 007
 E-mail: gezesh@geze.com.cn

China
GEZE Industries (Tianjin) Co., Ltd.
 Branch Office Guangzhou
 Room 17C3
 Everbright Bank Building, No. 689
 Tian He Bei Road
 510630 Guangzhou, P.R. China
 Tel. +86 (0)20-38 73 18 42
 Fax +86 (0)20-38 73 18 34
 E-mail: gezegz@geze.com.cn

GEZE Industries (Tianjin) Co., Ltd.
 Branch Office Beijing
 No. 6-32 Building
 Jili Avenue
 Daxing District
 100076 Beijing, P.R. China
 Tel. +86-(0)10-87 97 51-77/-78
 Fax +86-(0)10-87 97 51-71
 E-mail: gezebj@geze.com.cn

GEZE Sonderkonstruktionen
(Tianjin), Ltd.
 No. 6-32 Building
 Jili Avenue
 Daxing District
 100076 Beijing, P.R. China
 Tel. +86-(0)10-87 96 51-52
 Fax +86-(0)10-87 97 14-76
 E-mail: SalesSK-info@geze.com.cn

France
GEZE France S.A.R.L.
 ZAC de l'Orme Rond
 RN 19
 77170 Servon
 Tel. +33 (0)1-60626070
 Fax +33 (0)1-60626071
 E-mail: france.fr@geze.com

Hungary
GEZE Hungary
 Bartók Béla út 105 - 113
 1115 Budapest
 Tel. + 36 (0)1 481 4670
 Fax + 36 (0)1 481 4671
 E-mail: office-hungary@geze.com

Iberia
GEZE Iberia S.R.L.
 Pol. Ind. El Pla
 C/ Comerc, 2-22, Nave 12
 08980 Sant Feliu de Llobregat
 (Barcelona)
 Tel. +34 (0)9-02 19 40 36
 Fax +34 (0)9-02 19 40 35
 E-Mail info@geze.es

India
GEZE India
 409, Apeejay Business Center
 39, Haddows Road
 Chennai - 600 006
 Tamil Nadu
 Tel. + 91 (0)44 2821 1300
 Fax + 91 (0)44 2821 1300
 E-mail: office-india@geze.com

Italy
GEZE Italia Srl
 Via Giotto, 4
 20040 Cambiago (MI)
 Tel. +39 02 95 06 95-11
 Fax +39 02 95 06 95-33
 E-Mail italia.it@geze.it

GEZE Engineering Roma Srl
 Via Lucrezia Romana, 91
 00178 Roma
 Tel. +39 06-7265311
 Fax +39 06-72653136
 E-mail: roma@geze.biz

Kazakhstan
GEZE Central Asia
 384 Raiymbek ave., 3rd Floor
 050061 Almaty
 Tel. + 7 (0)777 265 06 05
 E-mail: office-kazakhstan@geze.com

Poland
GEZE Polska Sp. z o.o.
 ul. Annopol 3 (Zeran Park)
 03-236 Warszawa
 Tel. +48 (0)22-8142211
 Fax +48 (0)22-6142540
 E-mail: geze@geze.pl

Romania
GEZE Romania
 Str. Ionescu Baican nr. 22
 021835 Bucuresti, sector 2
 Tel. +40 (0)21 250 77 50
 Fax +40 (0)21 250 77 50
 E-mail: office-romania@geze.com

Russian Federation
GEZE Russia
 Kolodesnij pereulok 3, Str. 25
 Office No. 5201-5203
 107076 Moscow
 Tel. +7 (0)495 589 9052
 Fax +7 (0)495 589 9051
 E-mail: office-russia@geze.com

Scandinavia
GEZE Scandinavia AB
 Mallstingan 10
 Box 7060
 18711 Täby, Sweden
 Tel. +46 (0)8-7323-400
 Fax +46 (0)8-7323-499
 E-mail: sverige.se@geze.com

GEZE Scandinavia AB avd. Norge
 Postboks 63
 2081 Eidsvoll, Norway
 Tel. +47 (0)6 39-57 200
 Fax +47 (0)6 39-57 173
 E-mail: norge.se@geze.com

GEZE Finland
 Branch office of GEZE Scand. AB
 Postbox 20
 158 71 Hollola
 Tel. +358 (0)10-400 51 00
 Fax +358 (0)10-400 51 20
 E-mail: finland.se@geze.com

Scandinavia
GEZE Denmark
 Branch office of GEZE Scand. AB
 Høje Taastrup Boulevard 53
 2630 Taastrup
 +45 (0)46-323324
 +45 (0)46-323326
 E-Mail: danmark.se@geze.com

South Africa
DCLSA Distributors (Pty.) Ltd.
 1027 Richards Drive, Midrand
 P.O. Box 7934
 Midrand 1685
 Tel. +27 (0)11 315 82 86
 Fax. +27 (0)11 315 82 61
 E-mail: info@dclsa.co.za

Switzerland
GEZE Schweiz AG
 Bodenackerstrasse 79
 4657 Dulliken
 Tel. +41 (0)62-285 54 00
 Fax +41 (0)62-285 54 01
 E-mail: schweiz.ch@geze.com

GEZE Security Systems GmbH
 Bodenackerstrasse 79
 4657 Dulliken
 Tel. +41 (0)62-285 55 00
 Fax +41 (0)62-285 55 01
 E-mail: schweiz.ch@geze.com

Turkey
GEZE Turkey
 Atatürk mah. Ata 2-3
 PLAZA kat 9 D. 64
 34757 Atasehir - Istanbul
 Tel. + 90 (0)216 4554315
 Fax + 90 (0)216 4558215
 E-mail: office-turkey@geze.com

Ukraine
GEZE Ukraine
 Vikentija Hvojki str. 21
 Office 151
 04655 Kiev
 Tel. +380 (0)44 499 77 25
 Fax +380 (0)44 499 77 25
 E-mail: office-ukraine@geze.com

United Arab Emirates/GCC
GEZE Middle East
 P.O. Box 17903
 Jebel Ali Free Zone
 Dubai
 Tel. +971 (0)4-8833112
 Fax +971 (0)4-8833240
 E-mail: geze@emirates.net.ae

United Kingdom
GEZE UK Ltd.
 Blenheim Way
 Fradley Park
 Lichfield
 Staffordshire WS13 8SY
 Tel: +44 (0) 1543 443000
 Fax: +44 (0) 1543 443001
 Email: info@geze-uk.com

GEZE Representative

LET'S MODERATE YOUR LIFE STYLE



GRACE ENGINEERING

OUR SERVICES

AUTO DOOR

AUTO GATE

**AUTO
ROLLING SHUTTER**



GRACE ENGINEERING GREETINGS

Mutual trust and providing continuous development in new technology are the Grace Engineering's ways of serving its valuable clients.

To ensure customers' safety and convenience, we continue our efforts through systematic development and keeping the quality control in our relevant field of activity which ranging from installation to service.

We win confidence of our clients by providing solid profiled products and look forward to have your favor through our honesty and dedication to work.

While concluding we express our feeling of gratitude and assure you of our best service and attention on all future occasions.

AUTOMATIC SLIDING DOOR



Idler Pulley

With the running of motor to move the transmitting belt in order to transmit the opening and closing of the door.



Hanger Block

Used to hang door, equipping with rollers, which moves along the engine case silently.

Transmitting Belt

Strong, not easy fatigued, not deformed for long term use, no noise in running

Standard type : v- type belt
Optional type : timing belt.



DC Brushless Motor

High torque but quite, very effective and durable, none-warming feature in spite of continuous operation.



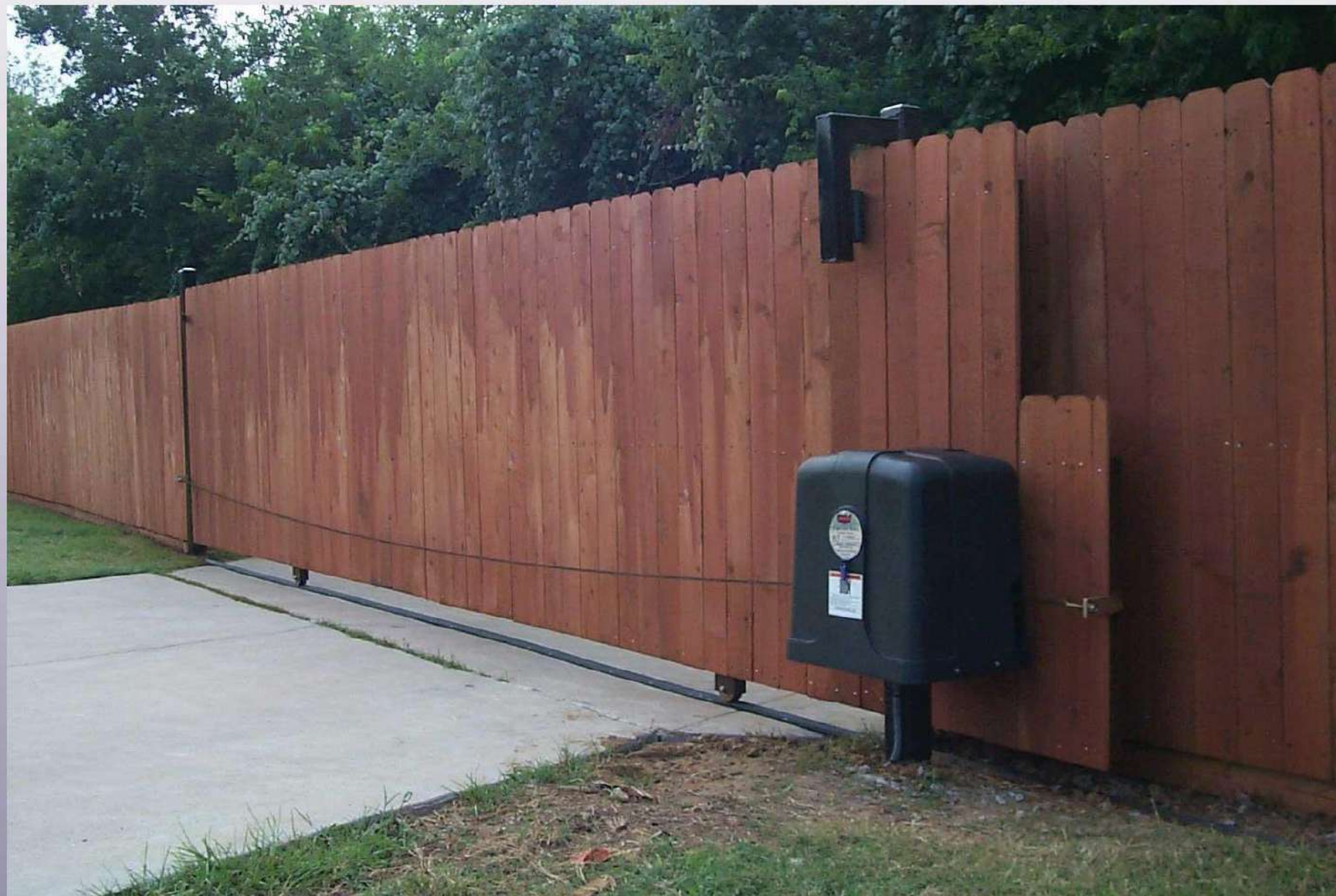
Power Supply

Output power can supply motor and sensors to use, good heat and dissipation and highly efficient.



Horizontal type	Single	Double
Door Weight	125KGx1	125KGx2
Aluminium case	2.1~ 6.4m	2.1~ 6.4m
Opening Speed	45 ~ 55cm/sec(Adjustable)	90 ~ 110cm/sec(Adjustable)
Closing Speed	20 ~ 50cm/sec(Adjustable)	
Opening time	1 ~ 9sec(Adjustable)	
Controller	8 bit micro computer	
Motor	DC 12V 35W brusless motor	
Power Voltage	AC110V/220V 50/60HZ	
Power consumption	45W	

AUTOMATIC SLIDING GATE



Photocell



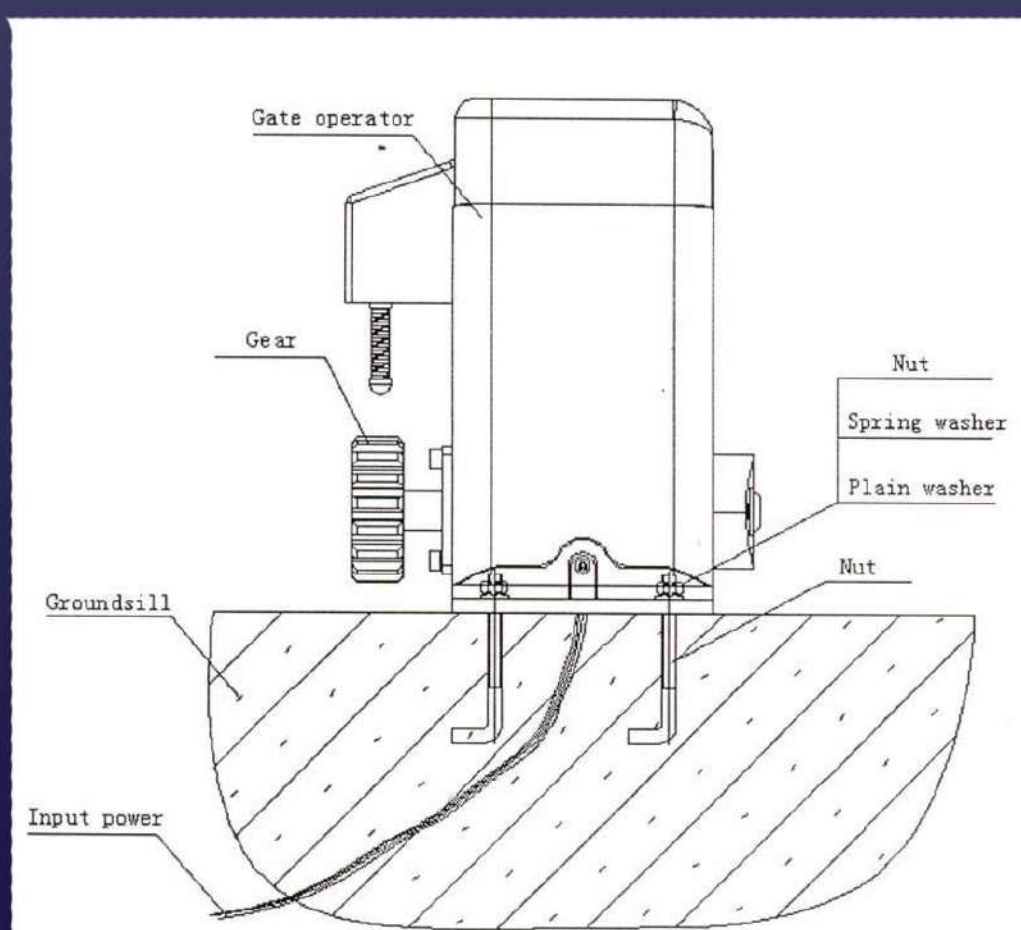
Remote Control



Gear Motor



Metal Gear Rack



Main Technical Parameters:

Capacity: (400 KG to 1400 KG)

Power Supply: 220V, 50Hz

Remote Control Operating Distance:

30M (Frequency: 433.92MHz)

Remote Control Mode: Single Button

Out Put Torque: 12N.m To 32 N.m

Limit Switch: Spring limit Switch

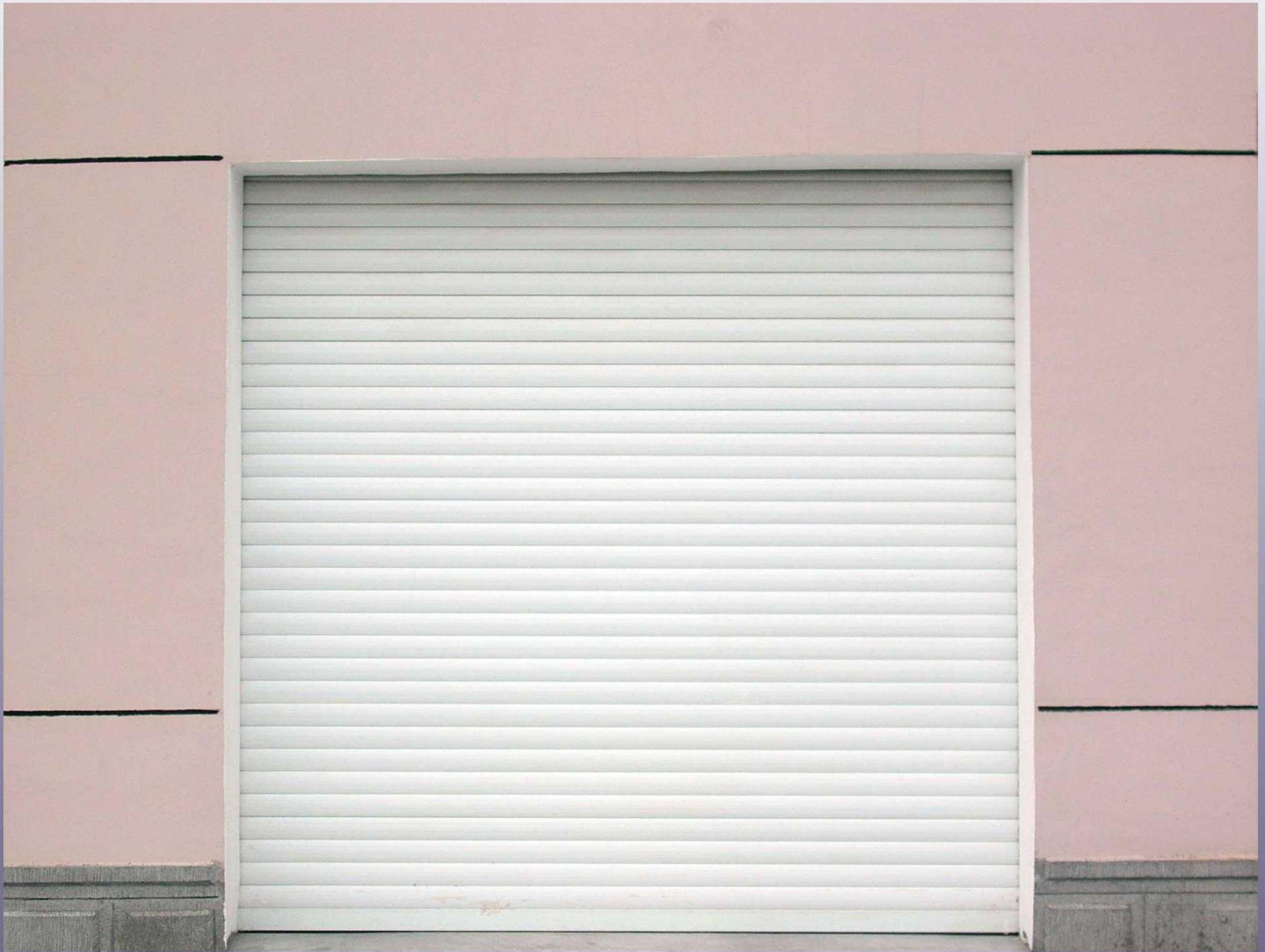
Noise: $\leq 58\text{dB}$ To $\leq 60\text{dB}$

Duty Cycle: S2, 15 minutes

Environmental Temperature: -20°C $\sim +70^{\circ}\text{C}$

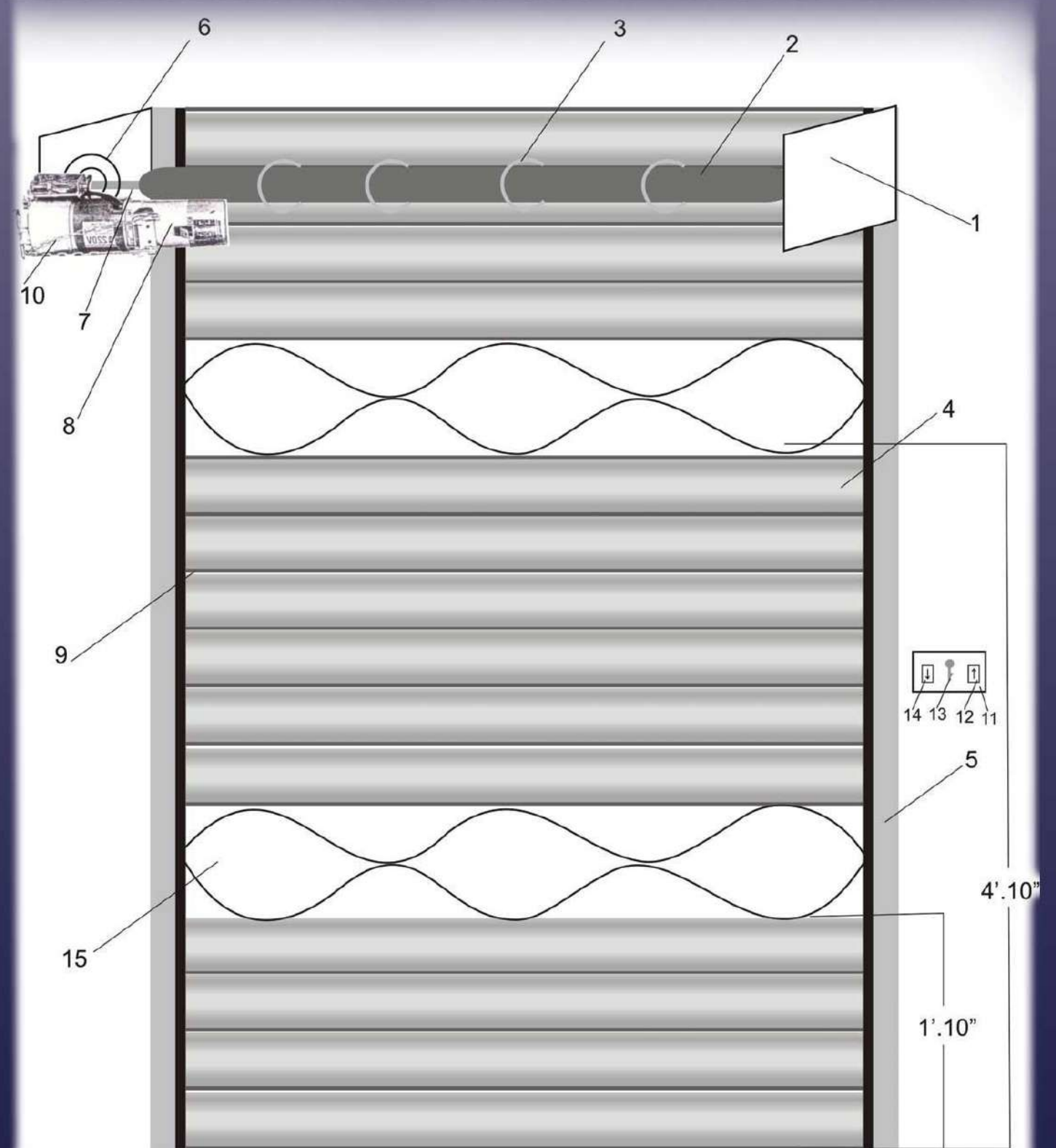
Gate move Speed: 11m/min to 13m/min

AUTOMATIC ROLLING SHUTTER



Material Details

- | | |
|----------------------------|--------------------------------|
| 1.Side plate | = size 1' x 1' feet [S.W.G.14] |
| 2.Rolling pipe | = size 2" x length? [S.W.G.14] |
| 3.Rolling ring | = size dia 8" [S.W.G.14] |
| 4.Rolling MS sheet | = size [S.W.G.24] |
| 5.Rolling guide | = size |
| 6.Universal bearings | = size |
| 7.Bearing shaft | = size 1" dia |
| 8.Gear motor | catalogue attached with |
| 9.Rolling sheet joint | = Size 3" round |
| 10.Manual operating chain= | |
| 11.Operating board | = Btchino made in Italy |
| 12.Up push | = Btchino made in Italy |
| 13.Lock Key | = Btchino made in Italy |
| 14.Down push | = Btchino made in Italy |
| 15.Bending iron rod | = 3" x 5" x 4" |



Grace Engineering

20-G, Khawaja Arcade, Wahadat Road, Lahore-Pakistan

+92-42-37537120, 37503120, Fax : +92-42-37569346

gracetech@nexlinx.net.pk, techgrace@hotmail.com, www.gracetech.com.pk



EZ-100-W2

Automatic Sliding Door

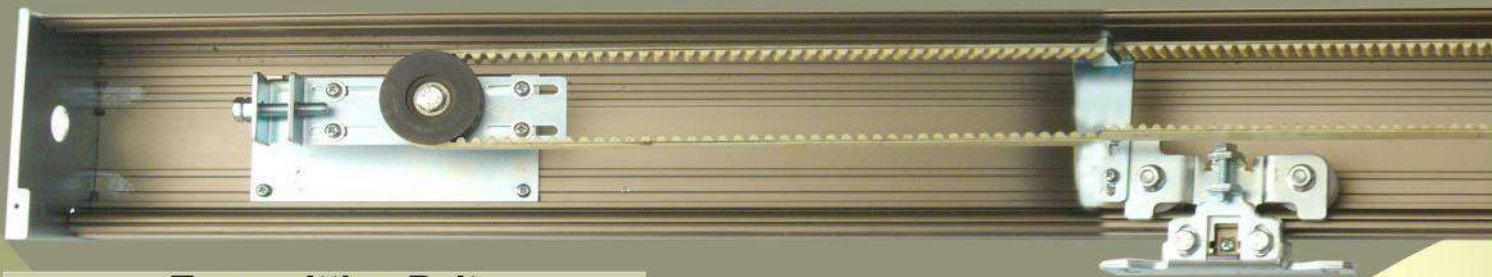
Connect your mind with ours!

DORTEX Automatic Door Operators



Figures are only for reference, Contents of products should be based on the products themselves.

EZ-100-W2 (Sliding Door)



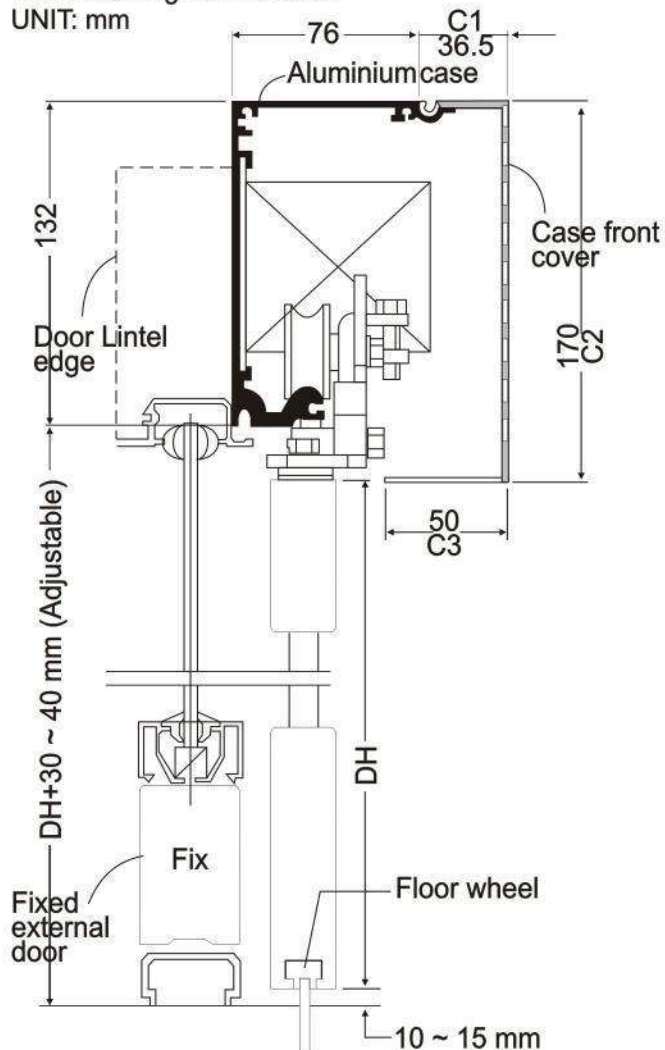
Transmitting Belt

Strong, not easy fatigued, not deformed for long term use, and no noise in running.
Standard Type: T-type Belt

EZ-100-W2

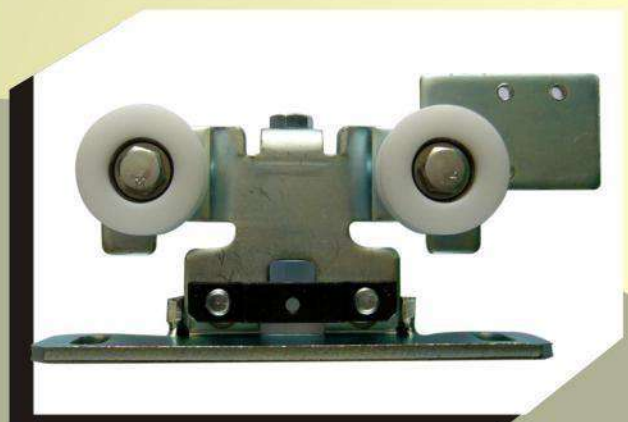
Cross-sectional profile for installation

Aluminium case height = $DH + (30 \sim 40 \text{ mm})$ adjustable
DH is the height of the door
UNIT: mm



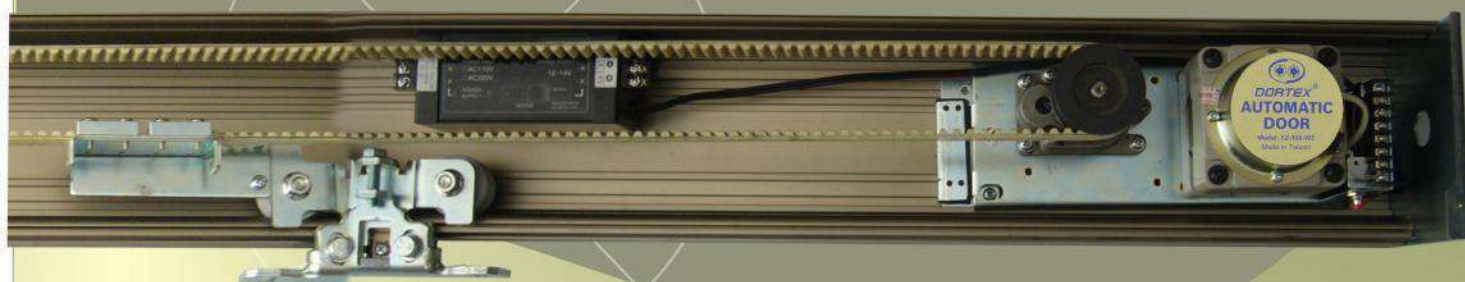
Idler Pulley

With the running of motor to move the transmitting belt in order to transmit the opening and closing of door.



Hanger Block With Double Wheels

Use to hang door, equipping with rollers, which moves along the engine case silently.



DC Brushless Motor

High torque but quite, very effective and durable, none-warming feature in spite of continuous operation.



Power Supply

Output power can supply motor and sensors to use, good heat dissipation and highly efficient.

Specifications:

Horizontal Type	Single	Double
Door Weight	125 KG × 1	125 Kg × 2
Aluminium Case	2.1 ~ 6.4 m	2.1 ~ 6.4 m
Opening Speed	45 ~ 55 cm/sec (Adjustable)	90 ~ 110 cm/sec (Adjustable)
Closing Speed	20 ~ 50 cm/sec (Adjustable)	40 ~ 100 cm/sec (Adjustable)
Opening Time	1 ~ 9 sec. (Adjustable)	
Controller	8 bit Micro Computer	
Motor	DC 12V 35W Brushless Motor	
Power Voltage	AC 110V / 220V 50 ~ 60Hz	
Power Consumption	45W	

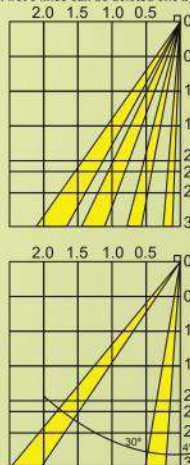
Microwave Sensor



Size: 120 mm (W) x 80 mm (H) x 50 mm (D)

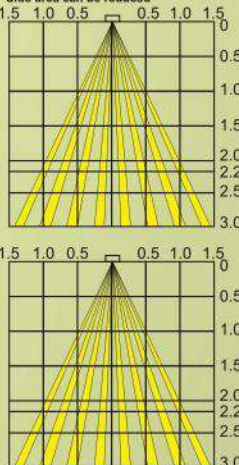
Sensing Area Adjustment

First 3 lines can be deleted one by one



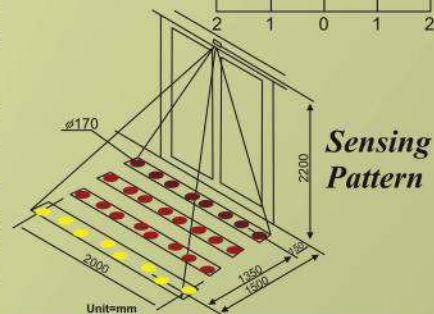
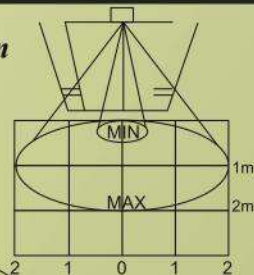
Angular adjustment of depth area

Side area can be reduced

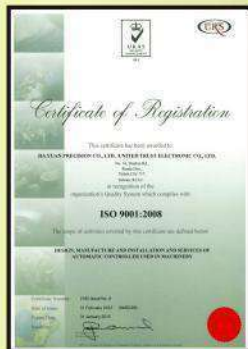


Unit=mm

Detection Range



Sensing Pattern



ISO 9001

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www.dortex.com.tw



In the Business of Sharing Success

Setting A New Standard In Elevator Excellence

FUJI ELEVATOR

Latest Version 3.4

FUJI  Elevator
Korea

Maximum safety! Best in pleasant and comfortable ride with

FUJI ELEVATOR KOREA!



gearless Lift

The gearless lift is very effective in the age of high oil price as it efficiency of service and reduces the consumption of energy.



Thorough installation & maintenance

This product can be installed in anywhere with the establishment of thorough maintenance and rapid A/S.



Professional engineers

FUJI ELEVATOR KOREA provides a rapid service and minimizes the inconvenience satisfying the requirement of customer with the professional engineers in precise theory and executive ability.



Saving maintenance cost

Since FUJI ELEVATOR KOREA manufactures a product with 0% of defective rate through the technical development and research investment, the time and cost can be reduced



Total Height (T)

Traveling

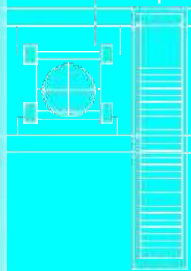
Minimum Length of all Stair

Station

Entrance Height(H)

2100

2000



COMPANY PROFILE

Fuji Elevator Korea(hereafter called FEK) was established in 100 years ago in Seoul, Japan & Korea.

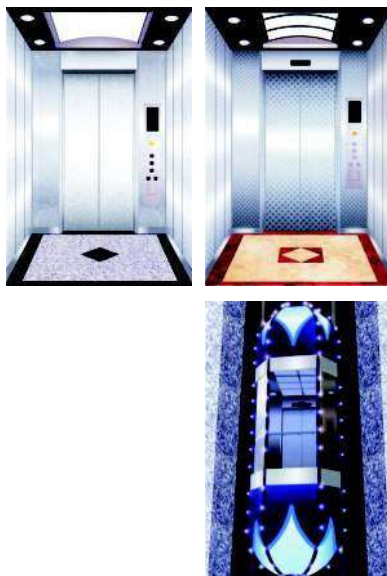
In the beginning, FEK supplied elevator & escalator components to Asia and Middle-East countries. Especially, FEK has been ranked as the highest market shared supplier in Korea for PM Gearless machine for machine roomless elevator for KORAIL since 2002.

Fuji Lift Korea has been launch latest technology Ver 3.4. Compact, Smart, Energy Saving, PM Motor with Integrated Wireless Control Panel.

Progressively FEK has been developing passenger lift, car lift, freight lift and home lift for Middle East and Asian countries. With excellence in various design as well as new technology for elevator ride comfortable, since 2004, various kinds of lift and its components have been supplied to 11 countries in Asian and Middle East area.

FEK will continue the challenge with best effort for improvement in quality and design, And at the same time, with

From the excellent energy saving and
comfortable ride to the elegant design
and amazing safety



CONTENT

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PASSENGER ELEVATOR

ENTRANCE DESIGN

TRANSOM



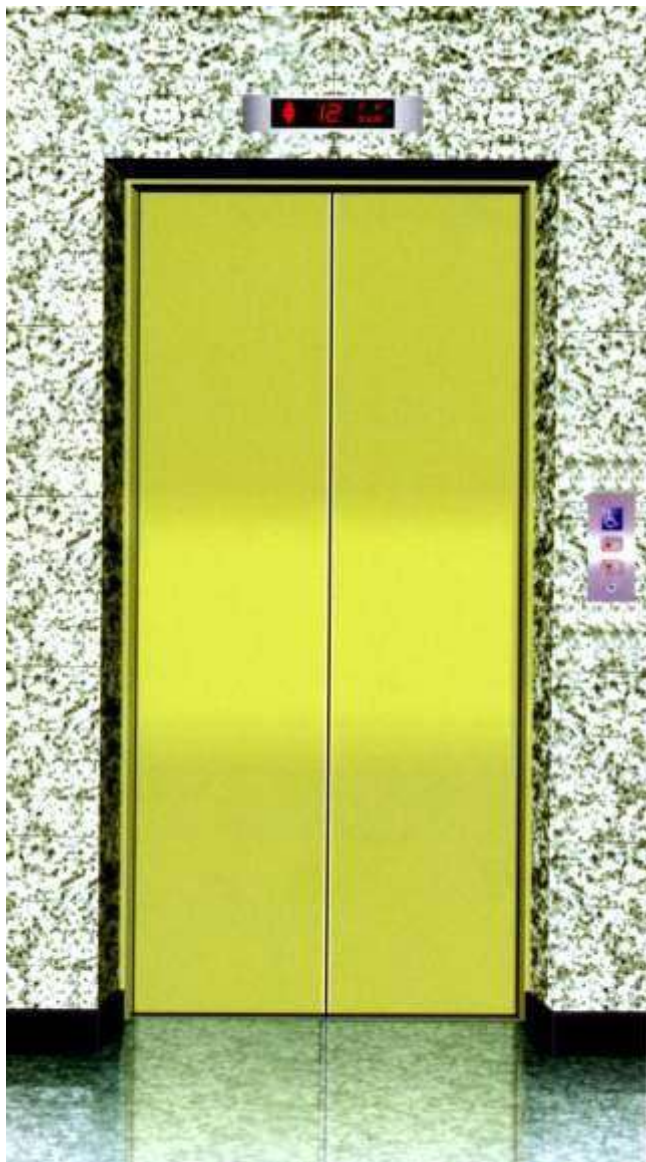
- JAMB: STAINLESS HAIR LINE FINISH
- TRANSOM: STAINLESS HAIR LINE FINISH
- DOOR: STAINLESS ETCHING
- INDICATOR: HORIZONTAL DIGITAL TYPE

DELUXE



- JAMB: STAINLESS HAIR LINE FINISH(WIDE TYPE)
- DOOR: STAINLESS ETCHING
- INDICATOR: VERTICAL DIGITAL TYPE

DELUXE



- JMB SHEET STEEL PAINTING FINISH
- DOOR SHEET STEEL PAINTING FINISH
- INDICATOR: HORIZONTAL DIGITAL TYPE

STANDARD



- JMB STAINLESS HAIR LINE FINISH
- DOOR: STAINLESS ETCHING
- INDICATOR: VERTICAL DIGITAL TYPE

PASSENGER ELEVATOR

INTERNAL DESIGN

CABIN-101



- ENCLOSURE-WALL: STAINLESS ETCHING
- CAGE DOOR: STAINLESS ETCHING
- CEILING: SHEET STEEL PAINTING FINISH
- FLOORING: P.V.C.FLOORING

CABIN-102



- ENCLOSURE-WALL: STAINLESS ETCHING
- CAGE DOOR: STAINLESS ETCHING
- CEILING: SHEET STEEL PAINTING FINISH
- FLOORING: P.V.C.FLOORING

CAR CEILING ILLUMINATION



CCI-101



CCI-102



CCI-103

CABIN-103

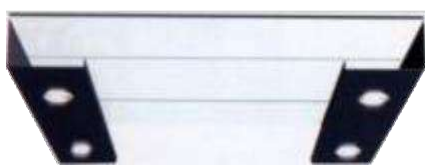


- ENCLOSURE-WALL: STAINLESS ETCHING
- CAGE DOOR: STAINLESS ETCHING
- CEILING: SHEET STEEL PAINTING FINISH
- FLOORING: P.V.C.FLOORING

CABIN-104



- ENCLOSURE-WALL: STAINLESS ETCHING
- CAGE DOOR: STAINLESS ETCHING
- CEILING: SHEET STEEL PAINTING FINISH
- FLOORING: P.V.C.FLOORING



CCI-104

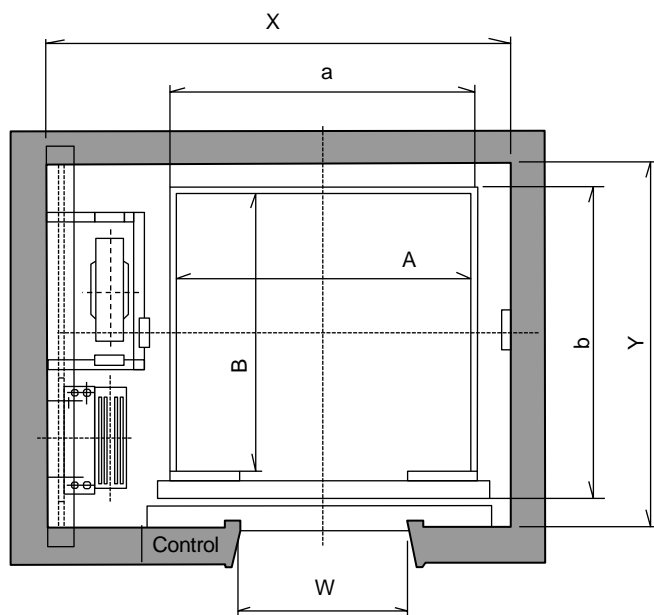


CCI-105

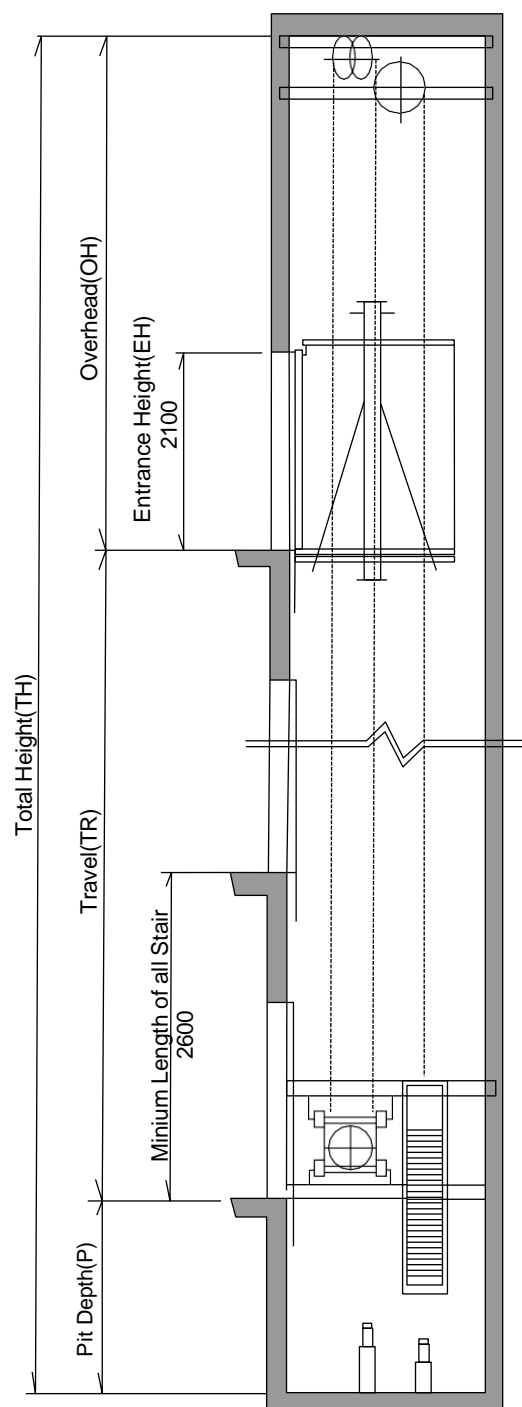


CCI-106

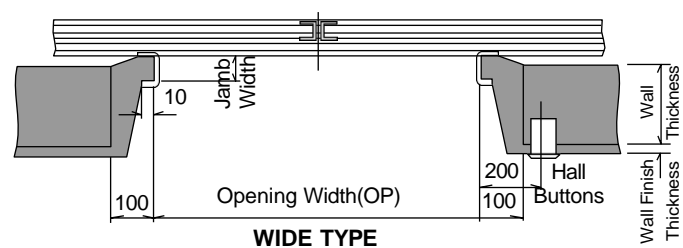
PLAN OF HOISTWAY



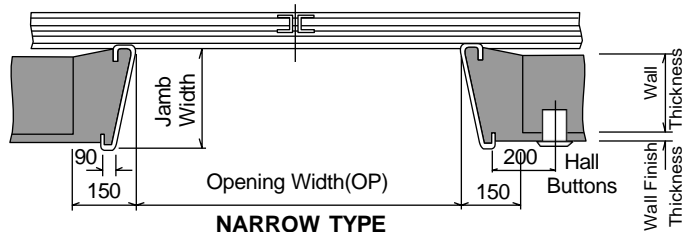
SECTION OF HOISTWAY



PLAN OF ENTRANCE



WIDE TYPE



NARROW TYPE

STANDARD DIMENSIONS

(Unit : mm)

SPEED (M/min)	TYPE	CAPACITY (KG)	ENTRANCE (W)	CAR		HOIST WAY X x Y
				INTERNAL	EXTERNAL	
				A x B	a x b	
60	MRLE8-CO60	550	800	1400X1030	1450X1210	2100X1700
	MRLE9-CO60	600	800	1400X1100	1450X1280	2100X1750
	MRLE10-CO60	700	800	1400X1250	1450X1430	2100X1900
	MRLE11-CO60	750	800	1400X1350	1450X1530	2100X2000
	MRLE13-CO60	900	900	1600X1350	1650X1530	2300X2000
	MRLE15-CO60	1000	900	1600X1500	1650X1680	2300X2150
	MRLE17-CO60	1150	1000	1800X1500	1900X1705	2500X2150
	MRLE20-CO60	1350	1000	1800X1700	1900X1905	2500X2350
	MRLE24-CO60	1600	1100	2000X1750	2100X1955	2700X2400
90 ~ 105	MRLE8-CO90,CO105	550	800	1400X1030	1450X1210	2300X2000
	MRLE9-CO90,CO105	600	800	1400X1100	1450X1280	2300X2050
	MRLE10-CO90,CO105	700	800	1400X1250	1450X1430	2300X2200
	MRLE11-CO90,CO105	750	800	1400X1350	1450X1530	2300X2300
	MRLE13-CO90,CO105	900	900	1600X1350	1650X1530	2500X2300
	MRLE15-CO90,CO105	1000	900	1600X1500	1650X1680	2500X2450
	MRLE17-CO90,CO105	1150	1000	1800X1500	1900X1705	2700X2450
	MRLE20-CO90,CO105	1350	1000	1800X1700	1900X1905	3000X2650
	MRLE24-CO90,CO105	1600	1100	2000X1750	2100X1955	3200X2700
120 ~ 180	MRLE8-CO120,CO150,CO180	550	800	1400X1030	1450X1210	2600X2000
	MRLE9-CO120,CO150,CO180	600	800	1400X1100	1450X1280	2600X2050
	MRLE10-CO120,CO150,CO180	700	800	1400X1250	1450X1430	2600X2200
	MRLE11-CO120,CO150,CO180	750	800	1400X1350	1450X1530	2600X2300
	MRLE13-CO120,CO150,CO180	900	900	1600X1350	1650X1530	2800X2300
	MRLE15-CO120,CO150,CO180	1000	900	1600X1500	1650X1680	2800X2450
	MRLE17-CO120,CO150,CO180	1150	1000	1800X1500	1900X1705	3000X2450
	MRLE20-CO120,CO150,CO180	1350	1000	1800X1700	1900X1905	3000X2650
	MRLE24-CO120,CO150,CO180	1600	1100	2000X1750	2100X1955	3200X2700

1. The above table is written based on speed of 60~180m/min respectively.
2. The size of elevator and inner car of the above table can be applied when they are in standard level.
3. The size of elevator of the above table does not shows vertical error. (1:1 roping applied)
4. As feet and overhead of the above table differ depending on the speed, refer to the below table

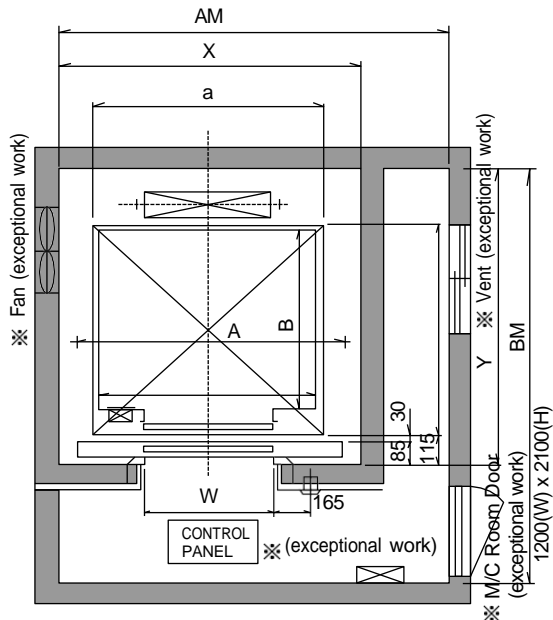
REGULATION DIMENSIONS ON THE LINE OF SPEED

(Unit : mm)

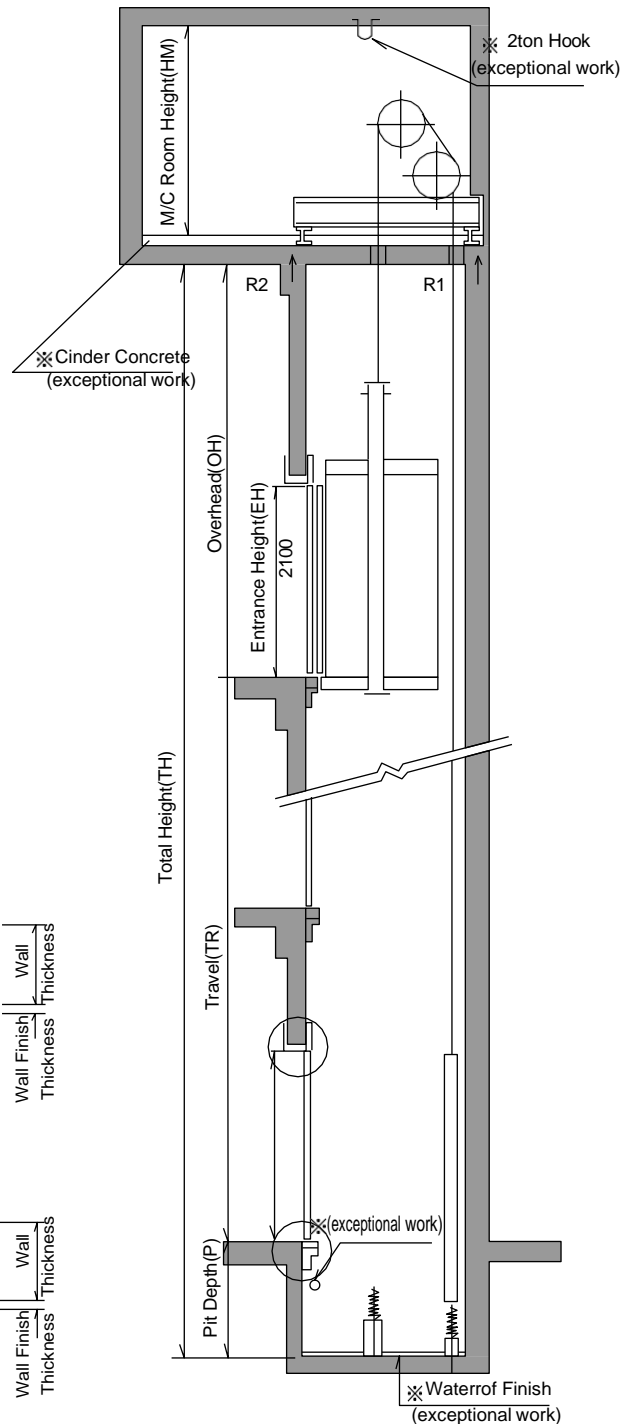
SPEED(m/min)	PIT(P)	OVERHEAD(OH)
60	1500	3850
90	1800	3950
105	2100	4000
120	2100	4300
150	2400	4500
180	2700	4800

PASSENGER ELEVATOR / PLAN & SECTION

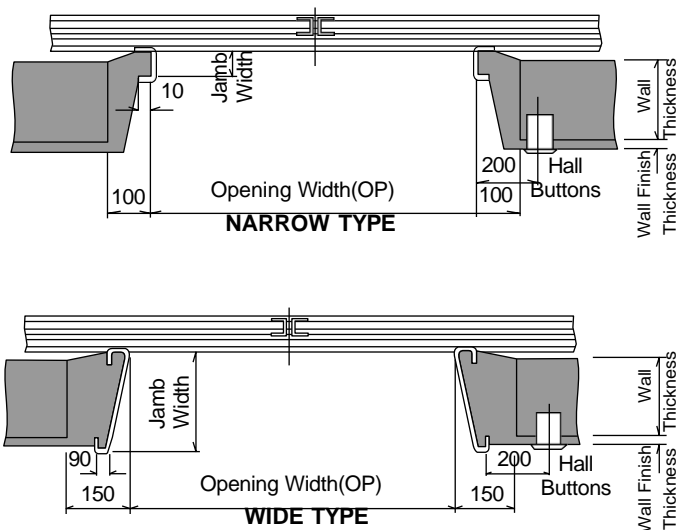
PLAN OF HOISTWAY & MACHINE ROOM



SECTION OF HOISTWAY



PLAN OF ENTRANCE



STANDARD DIMENSIONS & REACTIONS

(Unit : mm)

SPEED (M/min)	TYPE	CAPACITY (KG)	ENTRANCE (W)	CAR		HOIST WAY				M/C ROOM				REACTION (KGS)	
				INTERNAL	EXTERNAL	ONE		DOUBLE		ONE		DOUBLE			
						A X B	a x b	X	Y	X	Y	AM	BM	AM	BM
60	PE 6 - CO60	450	800	1400 x 850	1450 x 1030	1800	1480	3700	1480	2000	3200	4000	3200	3600	2000
	PE 8 - CO60	550	800	1400 x 1030	1450 x 1210	1800	1660	3700	1660	2000	3400	4000	3400	4050	2250
	PE 9 - CO60	600	800	1400 x 1100	1450 x 1280	1800	1730	3700	1730	2000	3500	4000	3500	4100	2450
	PE 10 - CO60	700	800	1400 x 1250	1450 x 1430	1800	1880	3700	1880	2000	3600	4000	3600	4200	2700
	PE 11 - CO60	750	800	1400 x 1350	1450 x 1530	1800	2000	3700	2000	2000	3700	4000	3700	4550	2800
	PE 13 - CO60	900	900	1600 x 1350	1650 x 1530	2050	2000	4200	2000	2300	3750	4400	3750	5100	3750
	PE 15 - CO60	1000	900	1600 x 1500	1650 x 1680	2050	2150	4200	2150	2300	3850	4400	3850	5450	4300
	PE 17 - CO60	1150	1000	1800 x 1500	1900 x 1705	2350	2280	4800	2280	2600	3900	4900	3900	6600	5100
	PE 20 - CO60	1350	1000	1800 x 1700	1900 x 1905	2350	2480	4800	2480	2600	4200	4900	4200	7800	6000
	PE 24 - CO60	1600	1100	2000 x 1750	2100 x 1955	2550	2530	5200	2530	2900	4300	5400	4300	8500	6800
90	PE 6 - CO90	450	800	1400 x 850	1450 x 1030	1800	1480	3700	1480	2000	3200	4000	3200	3600	2000
	PE 8 - CO90	550	800	1400 x 1030	1450 x 1210	1800	1660	3700	1660	2000	3400	4000	3400	4050	2250
	PE 9 - CO90	600	800	1400 x 1100	1450 x 1280	1800	1730	3700	1730	2000	3500	4000	3500	4100	2450
	PE 10 - CO90	700	800	1400 x 1250	1450 x 1430	1800	1880	3700	1880	2000	3600	4000	3600	4200	2700
	PE 11 - CO90	750	800	1400 x 1350	1450 x 1530	1800	2000	3700	2000	2000	3700	4000	3700	4550	2800
	PE 13 - CO90	900	900	1600 x 1350	1650 x 1530	2050	2000	4200	2000	2300	3750	4400	3750	5100	3750
	PE 15 - CO90	1000	900	1600 x 1500	1650 x 1680	2050	2150	4200	2150	2300	3850	4400	3850	5450	4300
	PE 17 - CO90	1150	1000	1800 x 1500	1900 x 1705	2350	2280	4800	2280	2600	3900	4900	3900	6600	5100
	PE 20 - CO90	1350	1000	1800 x 1700	1900 x 1905	2350	2480	4800	2480	2600	4200	4900	4200	7800	6000
	PE 24 - CO90	1600	1100	2000 x 1750	2100 x 1955	2550	2530	5200	2530	2900	4300	5400	4300	8500	6800
105	PE 6 - CO105	450	800	1400 x 850	1450 x 1030	1800	1480	3700	1480	2000	3200	4000	3200	3600	2000
	PE 8 - CO105	550	800	1400 x 1030	1450 x 1210	1800	1660	3700	1660	2000	3400	4000	3400	4050	2250
	PE 9 - CO105	600	800	1400 x 1100	1450 x 1280	1800	1730	3700	1730	2000	3500	4000	3500	4100	2450
	PE 10 - CO105	700	800	1400 x 1250	1450 x 1430	1800	1880	3700	1880	2000	3600	4000	3600	4200	2700
	PE 11 - CO105	750	800	1400 x 1350	1450 x 1530	1800	2000	3700	2000	2000	3700	4000	3700	4550	2800
	PE 13 - CO105	900	900	1600 x 1350	1650 x 1530	2050	2000	4200	2000	2300	3750	4400	3750	5100	3750
	PE 15 - CO105	1000	900	1600 x 1500	1650 x 1680	2050	2150	4200	2150	2300	3850	4400	3850	5450	4300
	PE 17 - CO105	1150	1000	1800 x 1500	1900 x 1705	2350	2280	4800	2280	2600	3900	4900	3900	6600	5100
	PE 20 - CO105	1350	1000	1800 x 1700	1900 x 1905	2350	2480	4800	2480	2600	4200	4900	4200	7800	6000
	PE 24 - CO105	1600	1100	2000 x 1750	2100 x 1955	2550	2530	5200	2530	2900	4300	5400	4300	8500	6800
120	PE 6 - CO120	450	800	1400 x 850	1450 x 1030	1800	1480	3700	1480	2000	3200	4000	3200	3600	2000
	PE 8 - CO120	550	800	1400 x 1030	1450 x 1210	1800	1660	3700	1660	2000	3400	4000	3400	4050	2250
	PE 9 - CO120	600	800	1400 x 1100	1450 x 1280	1800	1730	3700	1730	2000	3500	4000	3500	4100	2450
	PE 10 - CO120	700	800	1400 x 1250	1450 x 1430	1800	1880	3700	1880	2000	3600	4000	3600	4200	2700
	PE 11 - CO120	750	800	1400 x 1350	1450 x 1530	1800	2000	3700	2000	2000	3700	4000	3700	4550	2800
	PE 13 - CO120	900	900	1600 x 1350	1650 x 1530	2050	2000	4200	2000	2300	3750	4400	3750	5100	3750
	PE 15 - CO120	1000	900	1600 x 1500	1650 x 1680	2050	2150	4200	2150	2300	3850	4400	3850	5450	4300
	PE 17 - CO120	1150	1000	1800 x 1500	1900 x 1705	2350	2280	4800	2280	2600	3900	4900	3900	6600	5100
	PE 20 - CO120	1350	1000	1800 x 1700	1900 x 1905	2350	2480	4800	2480	2600	4200	4900	4200	7800	6000
	PE 24 - CO120	1600	1100	2000 x 1750	2100 x 1955	2550	2530	5200	2530	2900	4300	5400	4300	8500	6800

1. The above table is written based on speed of 60~180m/min respectively.
2. The size of elevator and inner car of the above table can be applied when they are in standard level.
3. The size of elevator of the above table does not shows vertical error. (1:1 roping applied)
4. As feet and overhead of the above table differ depending on the speed, refer to the below table

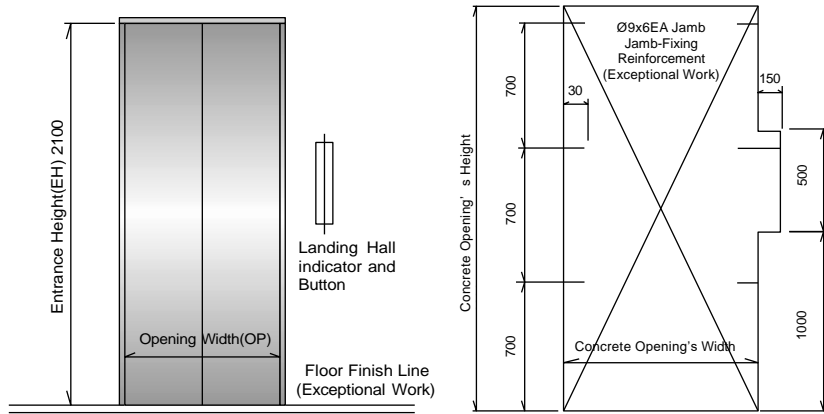
REGULATION DIMENSIONS ON THE LINE OF SPEED

(Unit : mm)

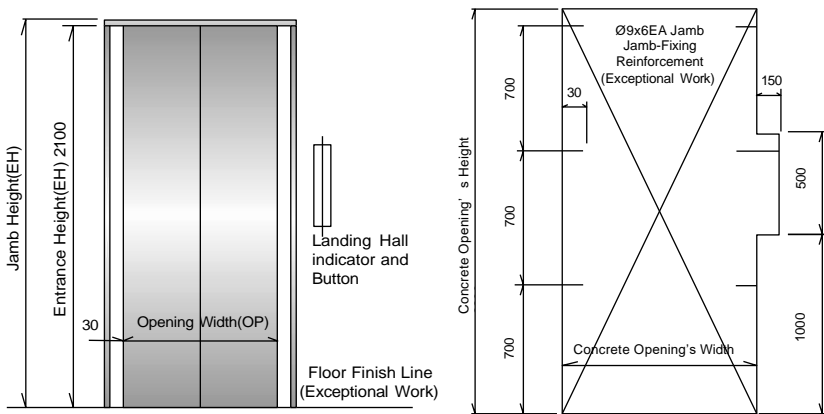
SPEED (m/min)	OVERHEAD (O.H)	PIT (P)	M/C ROOM HEIGHT (M.H)
45	4400	1250	2200
60	4600	1500	2200
90	4800	1800	2450
105	5000	2100	2450
120	5500	2100	2600
150	5700	2400	2600

TYPICAL ENTRANCE LAYOUT

ENTRANCE DESIGN STRUCTURAL OPENING OF ENTRANCE



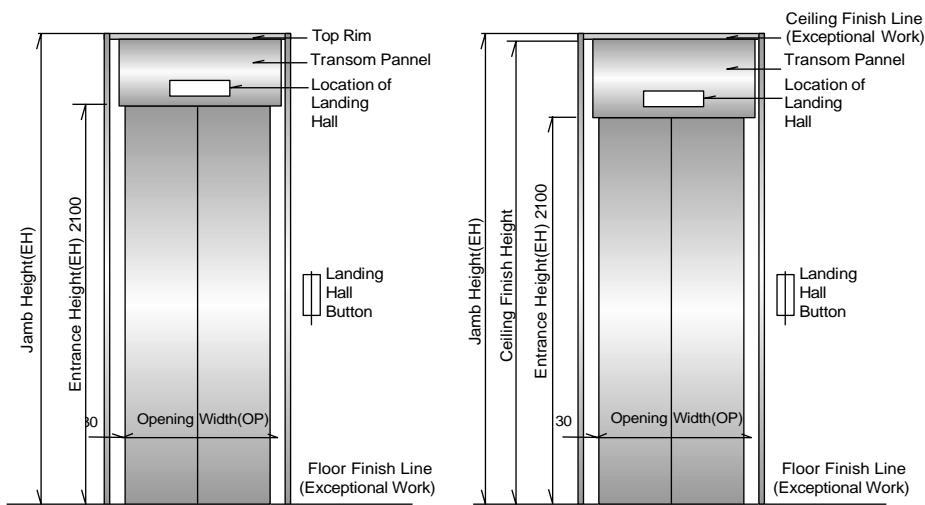
STANDARD TYPE



WIDE JAMB TYPE

(Unit : mm)

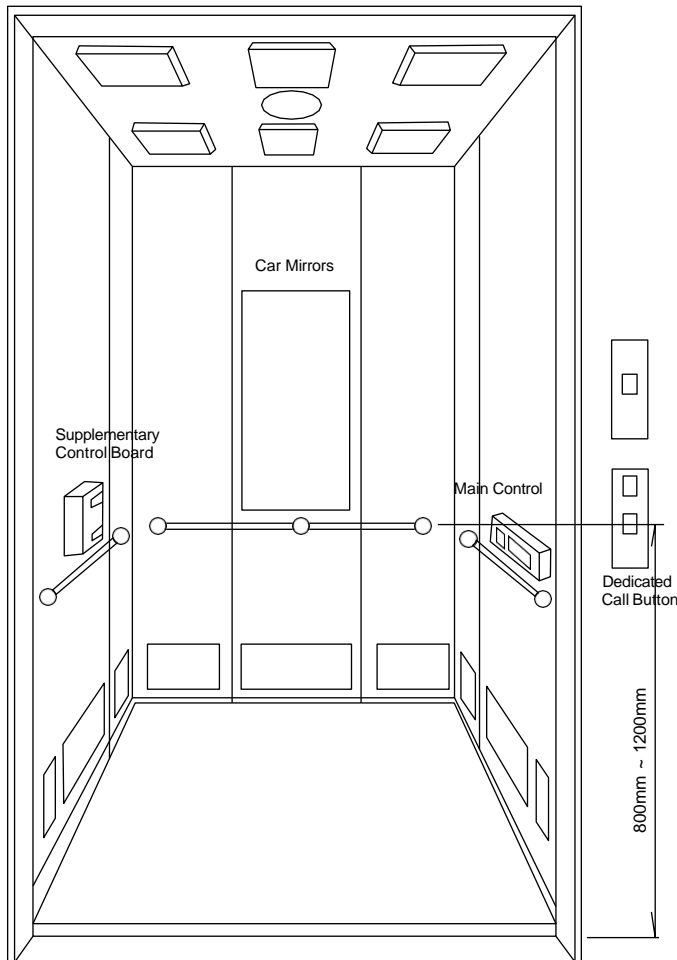
OPENING WIDTH	CONCRETE'S OPENING WIDTH
800	1000
900	1100
1000	1200
1100	1300



TRANSOM PANEL TYPE

TRANSOM PANEL TYPE

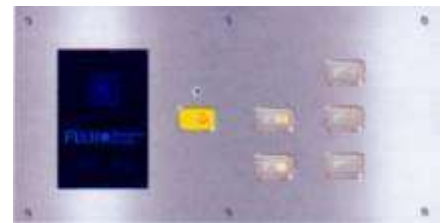
HANDICAPPED ELEVATOR



Structure and legal dimensions of elevator for handicapped

- Attachment of inner mirror on the eyelevel of wheelchair to see behind
- Photoconductive installation on the entrance door for safe boarding
- Attachment of call button on the seating level reaching the hand (within 0.8~1.2m)
- Operating board and preliminary control board of car controlled by seating level in the wheelchair
- Attachment of safety handle (HAND RAIL) inside the car
- Elevator with over 1.5m x 1.5m width and entrance with over 0.9

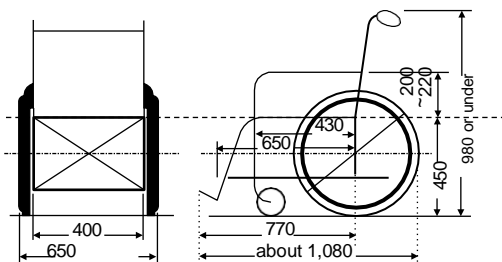
DEDICATED CAR CONTROL BOARD



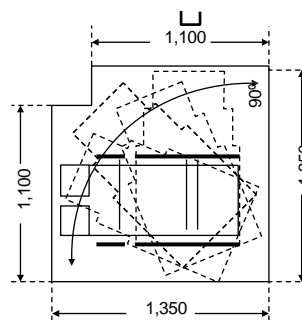
CALL BUTTON



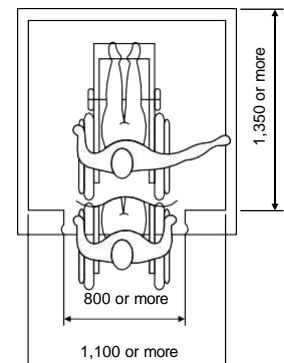
Reference material for wheelchair (Unit : mm)



[Side and back view of wheelchair]



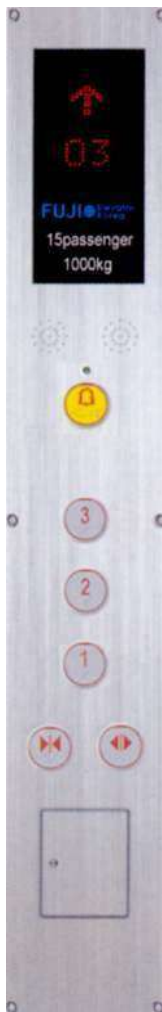
[Required space for 90° Rotation]



[Size of car and entrance door]

SIGNAL FIXTURES

CAR OPERATING PANEL



COP-101



COP-102



COP-103



HCOP-104



HCOP-105



HCOP-106

HALL BUTTON INDICATOR



HBI-201



HBI-202



HBI-203



HBI-204



HBI-205



HBI-206

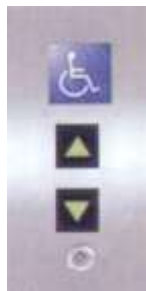
HALL BUTTON



HB-301



HB-302



HB-303



HB-304



HB-305



HB-306

HALL POSITION INDICATOR



HPI-401



HPI-402

HALL LANTERN(OPTION)



HL-501



HL-502



HL-503

HAND RAIL



HR-601



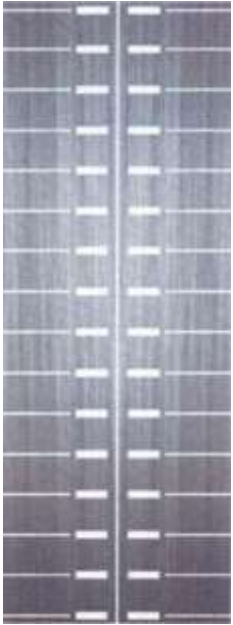
HR-602



HR-603

PATTERN SAMPLES

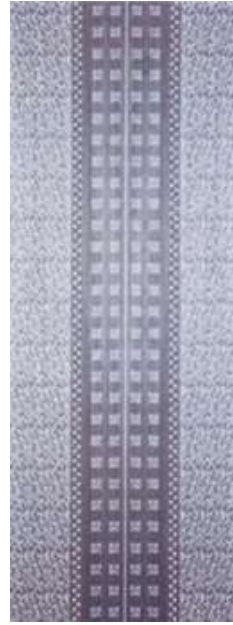
ETCHING PATTERN (DOOR)



EPD-101



EPD-102

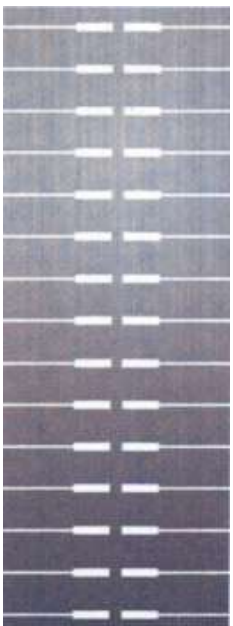


EPD-103



EPD-104

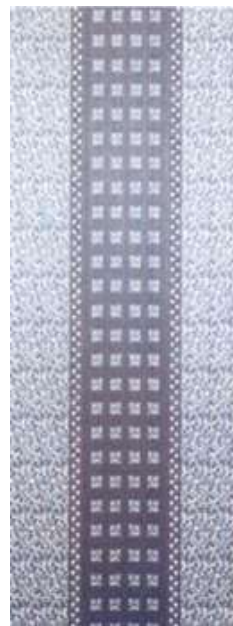
ETCHING PATTERN (CAR MIDDLE PANEL)



EPP-201



EPP-202

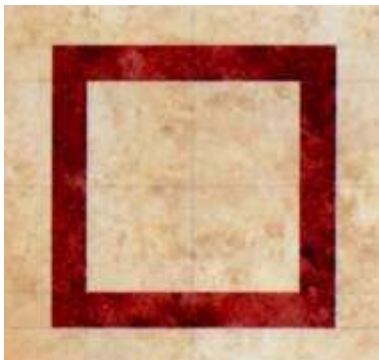


EPP-203



EPP-204

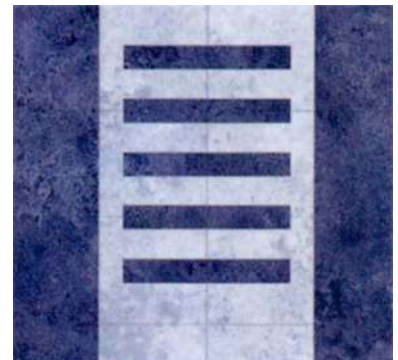
P.V.C FILM



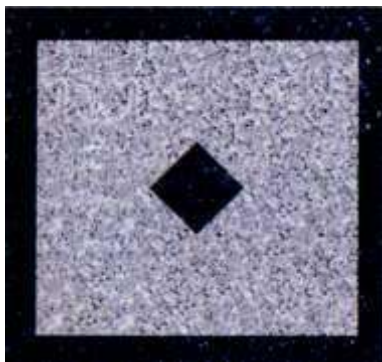
FL-104



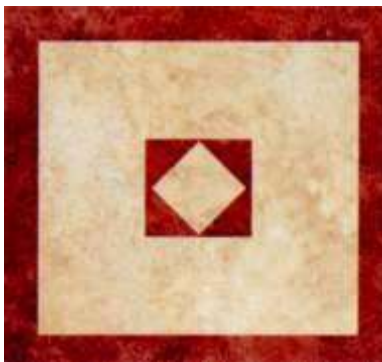
FL-104



FL-104



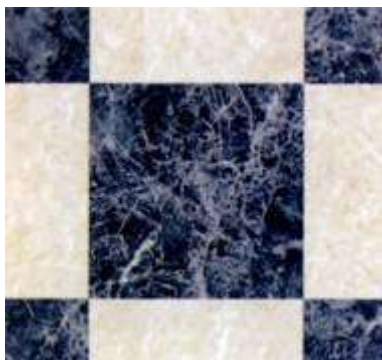
FL-104



FL-104



FL-104



FL-104

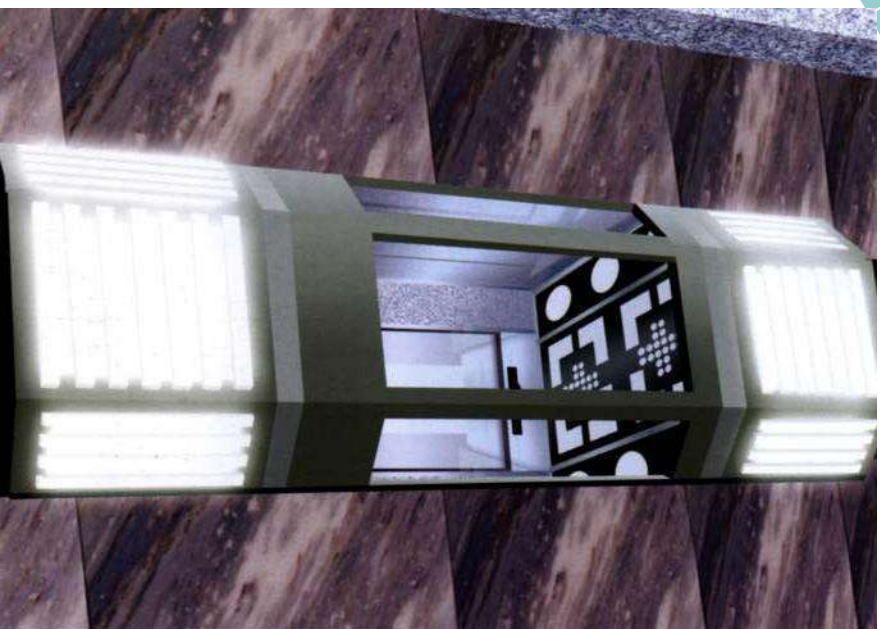


FL-104

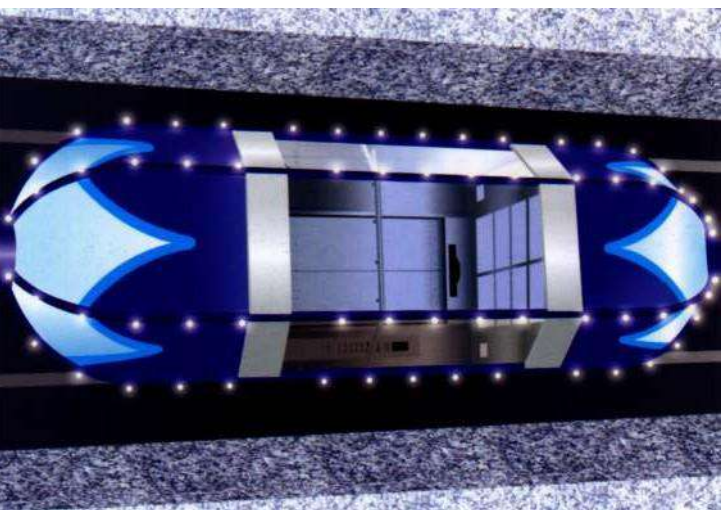
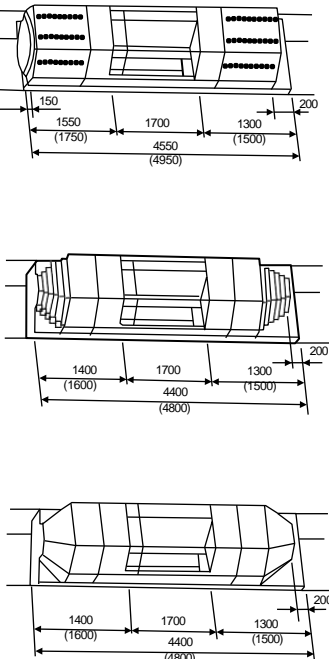
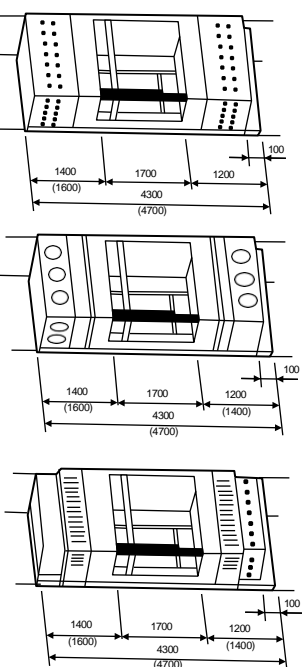
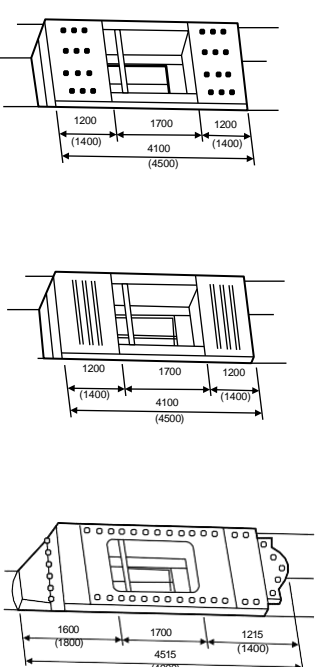


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OBSERVATION ELEVATOR

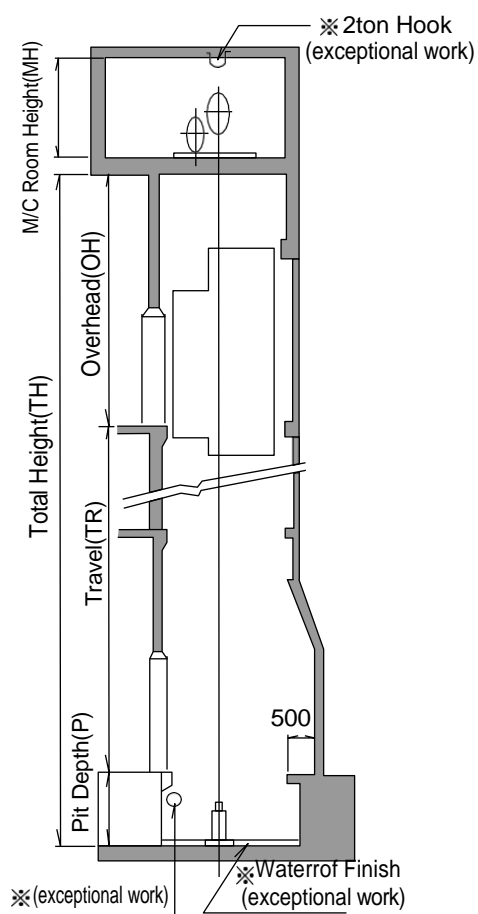


OBSERVATION DESIGN

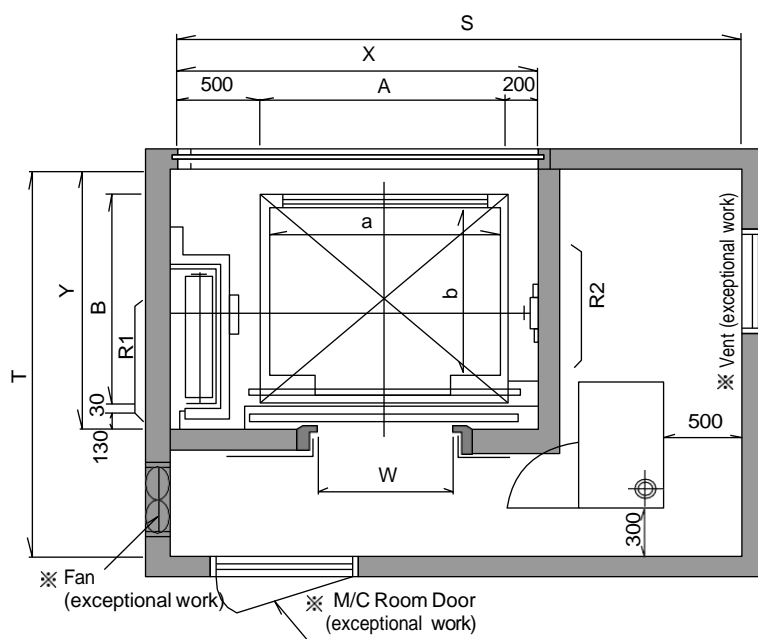


PLAN & SECTION (SINGLE)

SECTION OF HOISTWAY



PLAN OF HOISTWAY & MACHINE ROOM



STANDARD DIMENSIONS(SINGLE)

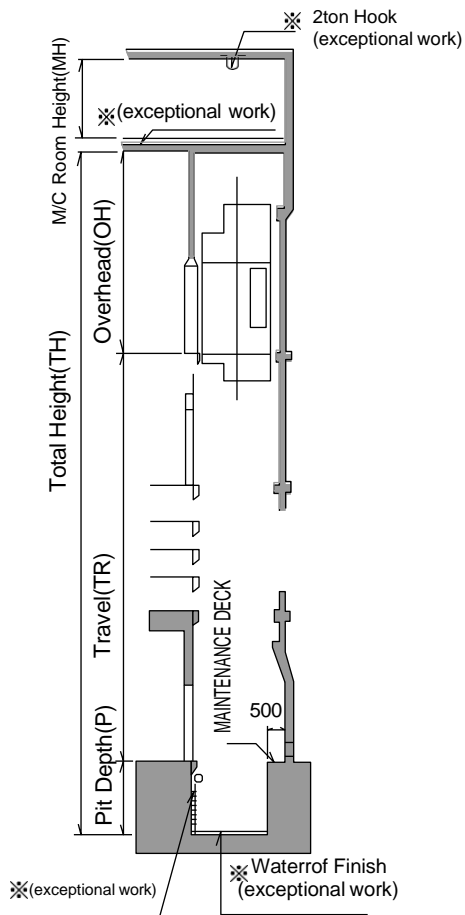
(Unit : mm)

NO.	TYPE	Capacity (KG)	CAR EXTERNAL(AxB)	ENTRANCE (W)	HOISTWAY SIZE(XxY)	M/C ROOM SIZE(SxT)	GLASS (WxH)	M/C ROOM HEIGHT(MH)	OVERHEAD (OH)	PIT(P)
1	OE-8-CO45	550	1450 X 1045	800	2150 X 1900	2500 X 2900	1000 X 1500	2200	4600	2000
2	OE-8-CO60				2150 X 1700	3300 X 3400		2200	4600	2000
3	OE-8-CO90				2150 X 1700	3300 X 3400		2200	4650	2000
4	OE-8-CO105				2150 X 1700	3300 X 3400		2200	4850	2000
5	OE-11-CO45	750	1450 X 1295	800	2150 X 1950	2500 X 3150	1000 X 1500	2200	4600	2000
6	OE-11-CO60				2150 X 1950	2500 X 3150		2200	4600	2000
7	OE-11-CO90				2150 X 1950	2800 X 3600		2200	4650	2000
8	OE-11-CO105				2150 X 1950	2800 X 3600		2200	4850	2000
9	OE-13-CO45	900	1650 X 1295	900	2350 X 1950	3000 X 3600	1200 X 1500	2200	4600	2000
10	OE-13-CO60				2350 X 1950	3000 X 3600		2200	4600	2000
11	OE-13-CO90				2350 X 1950	3000 X 3600		2200	4650	2000
12	OE-13-CO105				2350 X 1950	3000 X 3600		2200	4850	2000
13	OE-15-CO45	1000	1650 X 1445	900	2350 X 2100	3000 X 3700	1200 X 1500	2200	4600	2000
14	OE-15-CO60				2350 X 2100	3000 X 3700		2200	4600	2000
15	OE-15-CO90				2350 X 2100	3000 X 3700		2200	4650	2000
16	OE-15-CO105				2350 X 2100	3000 X 3700		2200	4850	2000

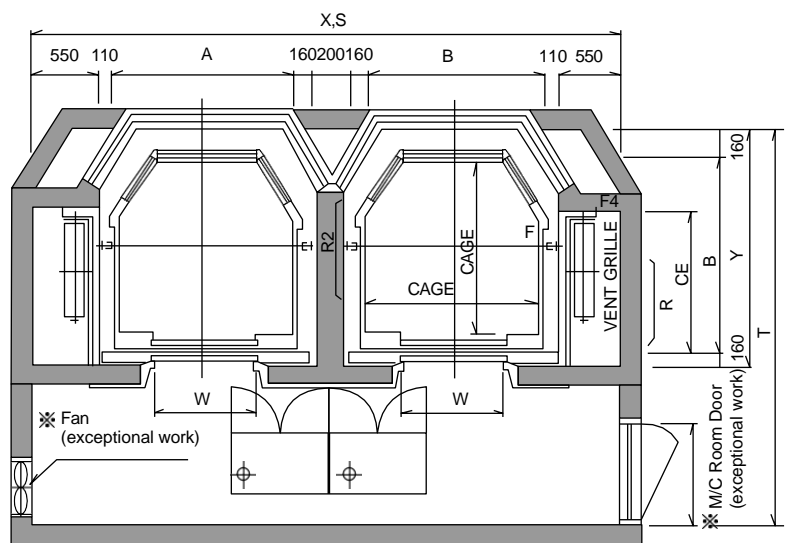
OBSERVATION ELEVATOR

PLAN & SECTION (DOUBLE)

SECTION OF HOISTWAY



PLAN OF HOISTWAY & MACHINE ROOM



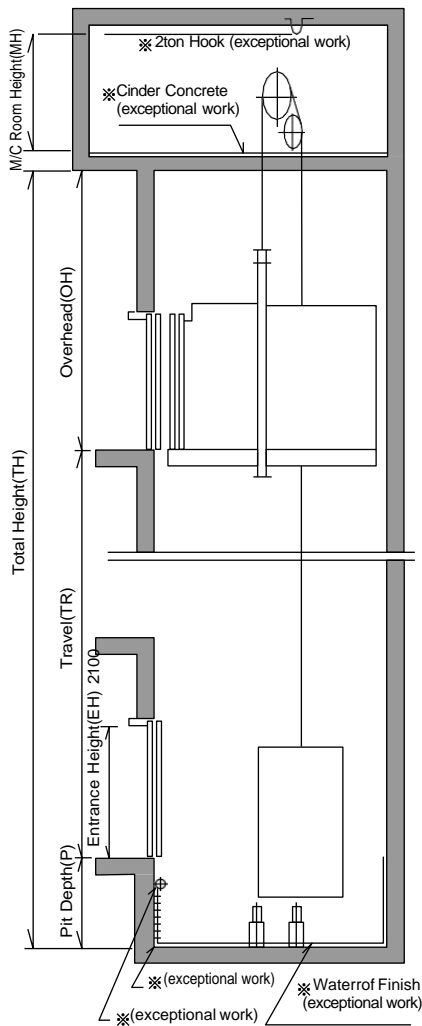
STANDARD DIMENSIONS(DOUBLE)

(Unit : mm)

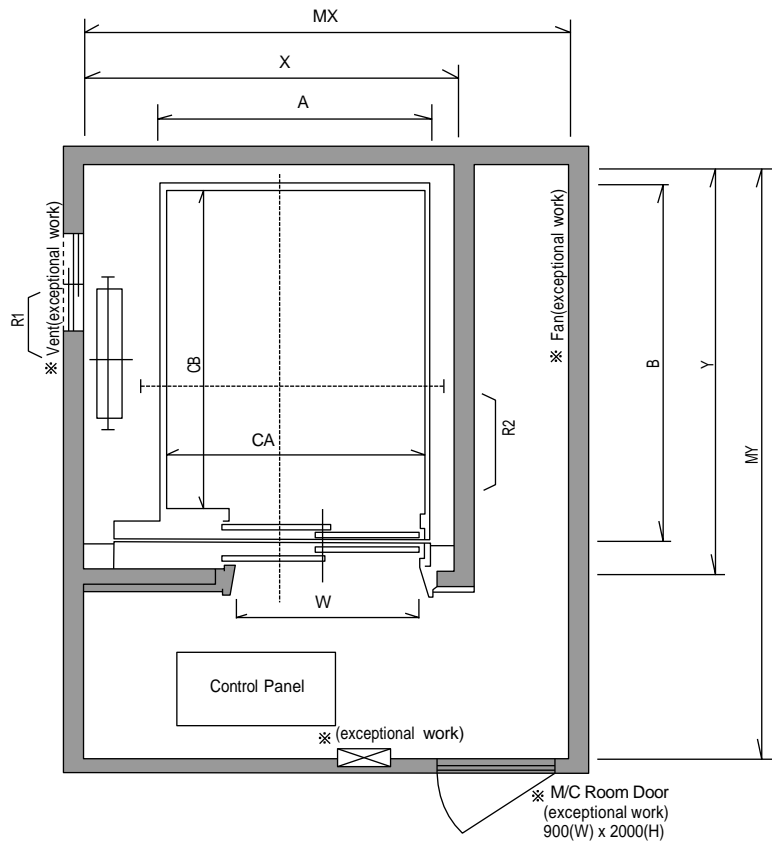
NO.	TYPE	Capacity (KG)	CAR EXTERNAL(AXB)	EXTERNAL (W)	HOISTWAY SIZE(X x Y)		CE	M/C ROOM HEIGHT(MH)	GLASS		M/C ROOM HEIGHT(MH)	OVERHEAD (OH)	PIT(P)
					SIMPLES	DUPLEX			A	B			
1	OE-11-C045	750	1450X1697	800	2450X2050	5100X2050	1350	2750X3550 (5100X3800)	800	410	2200	4800	2000
2	OE-11-C060											4800	2000
3	OE-11-C090											4850	2000
4	OE-11-C0105											5000	2200
5	OE-13-C045	900	1650X1687	900	2650X2050	5500X2050	1350	2950X3600 (5500X3750)	1000	510	2200	4800	2000
6	OE-13-C060											4800	2000
7	OE-13-C090											4850	2000
8	OE-13-C0105											5000	2000
9	OE-13-C045	1000	1650X1837	900	2650X2180	5500X2180	1350	5500X2180	1000	510	2200	4800	2000
10	OE-15-C060											4800	2000
11	OE-15-C090											4850	2000
12	OE-15-C0105											5000	2200

BED ELEVATOR

SECTION OF HOISTWAY



PLAN OF HOISTWAY & MACHINE ROOM



SPEED (m/min)	OVERHEAD (OH)	PIT (P)	M/C ROOM HEIGHT(MH)
30 / 45	4400	1200	2200
60	4600	1500	
90	4800	1800	2400
105	5000	2100	

STANDARD DIMENSIONS & REACTIONS

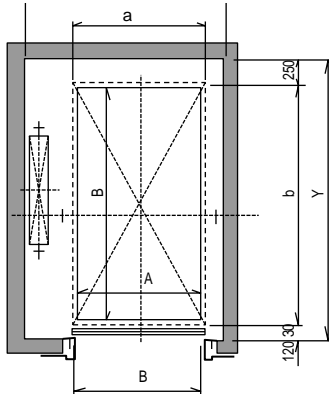
(Unit : mm)

TYPE	MODEL	SPEED (m/min)	ENTRANCE	CAR SIZE		HOISTWAY	M/C ROOM	REACTION (kg)	
				INTERNAL	EXTERNAL			R1	R2
STANDARD	HB750-2S	30 / 45	1100	1300 X 2300	1360 X 2490	2050 X 2850	2300 X 3500	5790	3450
		60						5900	3750
	HB1000-2S	30 / 45	1200	1500 X 2500	1560 X 2690	2300 X 3050	2750 X 4000	6500	3700
		60						6800	4100
THROUGH	HB750-2SD	30 / 45	1100	1300 X 2300	1360 X 2635	2050 X 3000	2300 X 3500	5790	3450
		60						5900	3700
	HB1000-2SD	30 / 45	1200	1500 X 2500	1560 X 2835	2400 X 3200	2750 X 4000	9300	3700
		60						9500	4100

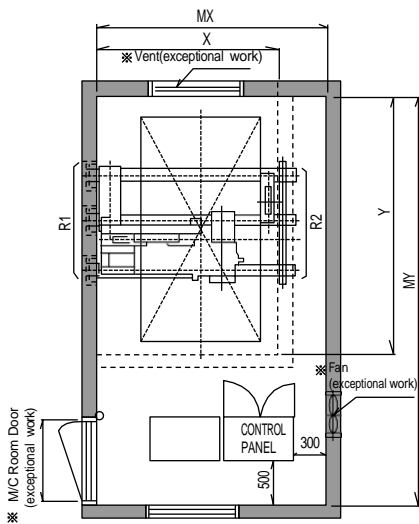
1. The above table is written based on speed of 30~90m/min respectively.
2. The size of elevator and inner car of the above table can be applied when they are in standard level.
3. The size of elevator of the above table does not shows vertical error. (1:1 roping applied)
4. As feet and overhead of the above table differ depending on the speed, refer to the below table

FREIGHT ELEVATOR / ROPE TYPE

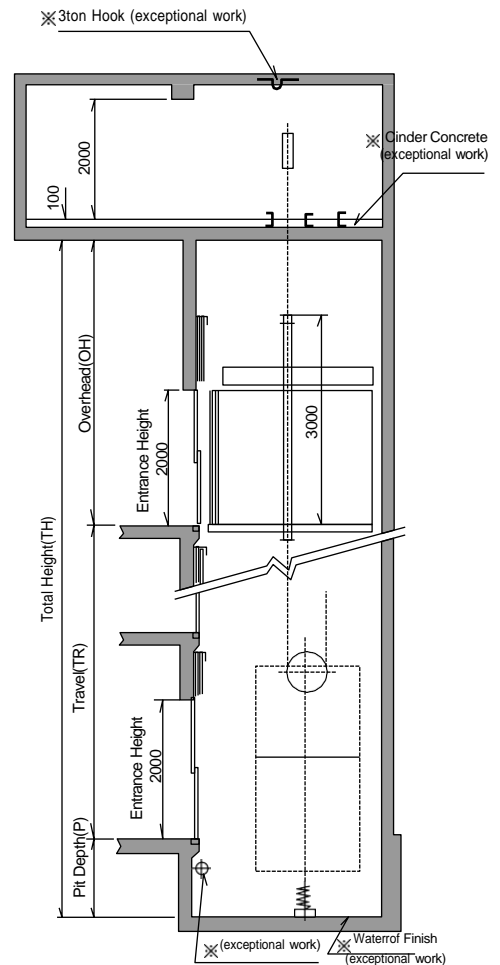
PLAN OF HOISTWAY



PLAN OF MACHINE ROOM



SECTION OF HOISTWAY



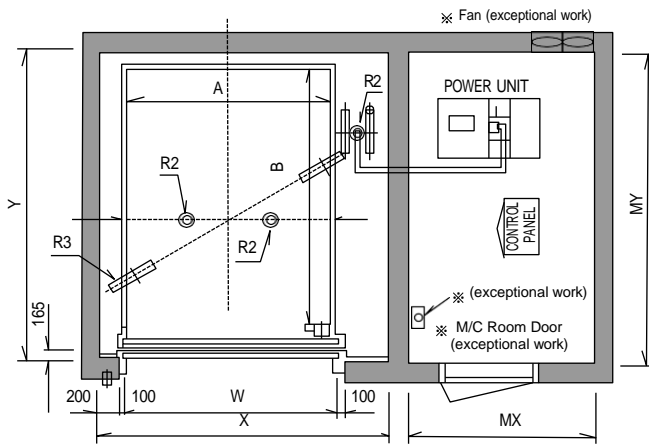
STANDARD DIMENSIONS

TYPE	CAPACITY (kg)	SPEED (m/min)	INTERNAL	ENTRANCE	HOISTWAY			M/C ROOM		M/C ROOM REACTION(kg)		PIT REACTION(kg)	
			A x B	W	X x Y	PIT(P)	OH	MX	MY	R1	R2	R3	R4
FE-2000 ^{2U} _{3U}	2000	30, 45	2200 X 2800	2200	3300 X 3600	1300	4850	3700	4200	13500	9000	15500	12600
		60				1550	5050			14400	9600	2100	17300
FE-2500 ^{2U} _{3U}	2500	30, 45	2500 X 3000	2500	3600 X 3800	1300	4850	4000	4400	16600	10900	19600	15900
		60				1550	5050			17800	12000	26000	21000
FE-3000 ^{2U} _{3U}	3000	30, 45	2500 X 3400	2500	3650 X 4200	1550	4850	4100	4800	19800	12900	23400	18900
FE-3500 ^{2U} _{3U}	3500	15, 30	2800 X 3800	2800	3950 X 4600	1550	4850	4500	5200	22500	15000	24500	20000
		45											
FE-4000 ^{2U} _{3U}	4000	15, 30	3000 X 4000	3000	4200 X 4800	1550	4850	4700	5400	23600	16500	27000	22500
		45											
FE-4500 ^{2U} _{3U}	4500	15, 30	3000 X 4500	3000	4200 X 5300	1550	4850	4700	5900	24000	18500	28500	24000
		45											
FE-5000-3U	5000	15, 30	3200 X 4800	3200	4450 X 5600	1650	5050	5000	6200	27000	21000	30000	26000
FE-5500-3U	5500	15, 30	3200 X 5000	3200	4450 X 5800	1650	5050	5000	6400	29000	23000	32000	28500
FE-6000-3U	6000	15, 30	3500 X 5500	3500	4800 X 6300	1650	5200	5500	7000	33000	27000	35000	30000

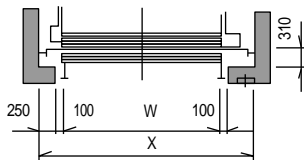
1. The above table is written based on speed of 30~60m/min respectively.
2. The size of elevator and inner car of the above table can be applied when they are in standard level.
3. The size of elevator of the above table does not shows vertical error. (2:1 roping applied)
4. As feet and overhead of the above table differ depending on the speed, refer to the below table

FREIGHT ELEVATOR / HYDRAULIC TYPE

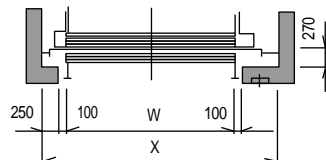
PLAN OF HOISTWAY & MACHINE ROOM



2 UP DOOR

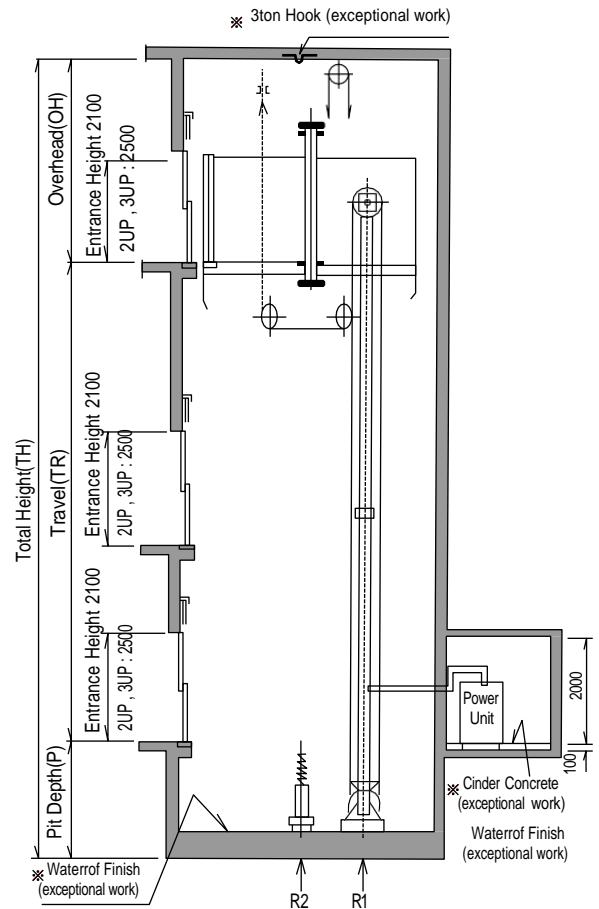


3 UP DOOR



2 UP DOOR

SECTION OF HOISTWAY



STANDARD DIMENSIONS

(Unit : mm)

TYPE	CAPACITY (kg)	SPEED (m/min)	INTERNAL	ENTRANCE	HOISTWAY			M/C ROOM		PIT REACTION(kg)			TRAVEL Max.
			A x B	W	X x Y	(P)	OH	MX	MY	R1	R2	R3	
HFE-1000-2U	1000	20,30	1700 x 2300	1400	2600X2900	1300	3800	2000	2900	6900	5400	3800	22M
HFE-1500-2U	1500		2200 x 2400	1700	3150X3000	1300	3800	2000	3000	8500	6500	4500	
HFE-2000-2U	2000		2200 x 2800	1700	3150X3400	1500	4000	2000	3400	10500	8500	5900	
HFE-2000- ^{2U}	2000	20,30	2500 x 2500	2000	3650X3200	1500	4000	2000	3200	10500	8500	5900	22M
HFE-2500- ^{2U}	2500		3000 x 2500	2300	4200X3200	1500	4200	2000	3200	12300	10300	7100	
HFE-3000- ^{2U}	3000		3000 x 3000	2400	4400X3700	1500	4200	3000	3500	13700	11500	8300	
HFE-2000- ^{2U} _{3U}	2000	20,30	2200 x 2800	2200	3300X3600	1500	4600	2000	3200	10500	8500	5900	22M
HFE-2500- ^{2U} _{3U}	2500		2500 x 3000	2500	3600X3800	1500	4600	2000	3200	12300	10300	7100	
HFE-3000- ^{2U} _{3U}	3000		2500 x 3400	2500	3650X4200	1500	4800	3000	3500	13500	11500	8300	
HFE-4000- ^{2U}	4000	10,20	3000 x 4000	3000	4200X4900	1500	4800	3000	3500	15000	12000	9800	22M
HFE-5000- ^{2U}	5000		3200 x 4800	3200	4350X5700	1650	5000	3000	3500	17000	13500	11500	
HFE-6000- ^{2U}	6000		3500 x 5500	3500	4700X6400	1650	5000	3000	3500	19000	16000	13000	

1. The above table is written based on speed of 20~30m/min respectively.
2. The size of elevator and inner car of the above table can be applied when they are in standard level.
3. The size of elevator of the above table does not shows vertical error. (2:1 roping applied)
4. As feet and overhead of the above table differ depending on the speed, refer to the below table

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FUJI LIFT KOREA CO., LTD

Add: #616 Dae got nam street Yangchon-up Gimpo city Gyeong Gi Do, Korea

Tel : +82 31 983 6243-5 Fax: +82 31 983 2554

Email: fuji@fujilift-kr.com

Website: <http://fujilift-kr.com>