



YOUR SAFETY IS OUR DREAM



- Excellent Product
- Innovative Travel
- Long Life Support



**Sweet Bird Bangladesh Limited**  
[www.sbblbd.com](http://www.sbblbd.com)



## OUR CONCERNS

### Sweet Bird Bangladesh Limited

- Passenger Elevator
- Freight / Cargo Elevator
- Hospital / Bed Elevator
- Service Elevator
- Home Elevator
- Dumbwaiter
- Escalator
- Spare Parts
- Generator
- Sub-Station
- Firefighting's

### Sweet Bird Engineering Limited

- Garments Machineries
- Industrial Machineries
- Govt & non govt tender

### Sweet Bird Home Decor & Amana Home Decor

- Marble & Granite
- Tiles – China & Local
- Sanitary Fittings
- Buildings Product

### Sweet Bird Real Estate Limited

### Sweet Bird Consultation

### Sweet Bird interior & Design

### Sweet bird Medicare

## DRIVEN BY GREAT WISDOM, TECHNOLOGY LEADS THE FUTURE

As a leader in high quality elevator services, SBBL Lift , which is full of forward-looking thinking and responsible feelings, has begun a new evolutionary journey, to serve urban life with more humane, environmentally friendly and intelligent solutions, bringing high class experience to society.



We are providing authentic product from genuine sources. We are the distributor of Global leaders manufacturer in the world. Our equipment confirm quality, safety and sustainability. Our lift is comfortable, reliable, Smooth and attractive.

### SBBL CAN ENSURE INTELLIGENT HUMAN-COMPUTER TNERACTION

- Intelligence voice reassurance
- Light curtain electric vehicle prevention function
- Car camera device
- Non contact multifaced recognition
- Elevator internet of things

**SBBL can provide impressive,  
Powerful and effective support to the clients directly.**

### **SBBL Confirm:**

*Comfort and performance* (Superior ride quality and performance.)

*Future ready* (Elevators designed today to interface with next generation technologies.)

*Port Technology* (Up to 35% better handling capacity and enhanced security access when you choose port.)

*Efficiency and ecology* (Architecturally –friendly.)

*Full Design Freedom* (Maximum creativity to achieve the ambiance that best suits your building.)

## **WHY SBBL LIFT**

### **Skilled Engineers**

Our engineers with more than 20 years of experience and installer who have installed numerous projects to technicians who are working at the project to installation & maintenance, the competent engineers, the most valuable asset of SBBL Elevator, are not comparable to any other company. For customer satisfaction, we are doing our best to meet condition required by customer and job site to design and produce safe elevator.

### **SBBL are the distributor of**

- SHENYANG YUANDA INTELLECTUAL INDUSTRY GROUP CO., LTD (Brilliant Elevator –BLT)
- CHINA NINGBO YUSHU FUJI ELEVATOR CO., LTD (NB FUJI)
- NINGBO CONIC ELEVATOR CO., LTD (CONIC ELEVATOR)
- Hidoks Asansör İnşaat Makine San. Ltd. Şti.
- SILVER ELEVATOR KOREA
- HAICHAI NEW ENERGY TECHNOLOGY (SHANGHAI) CO., LT
- SBBL Lift

What we insist on is not only the exquisite craftsmanship quality, but also the high-quality rising experience.

What we pursue is not only the cutting-edge technology, but also humanized technological beauty.

Quality, beauty, high-grade sense...

From the details to the home.

From the past to the future.

SBBL Lift aims to provide extraordinary travel and intelligent future.

## SBBL, WORLD-CLASS HIGH QUALITY GOODS SUPPLIER

SBBL Group not only has the leading elevator channel but also it has complement efficiency and quality Generator, Substation, Firefighting's, Building products, real-estate, Garments equipment , Medical equipment and interior works etc.

### OUR CUSTOMER COMMITMENTS:

- We will take every action to ensure our products are safe for you and each passenger.
- We will be uncompromising on work quality.
- We will respond promptly to your requests and keep you updated on our progress.
- We will relentlessly follow up on every job, to meet or exceed your expectations.
- We will take ownership of any issues and address them in a timely manner.
- We will anticipate your needs and be proactive in meeting them.
- We will deliver what we promise, on time, with no exceptions.
- We will maintain a positive and professional attitude.

# ELEVATOR SAFETY ITEMS

## Door Safety by Multi photo Sensor

- Key components of lift door safety:
- Door Sensors (Infrared or Laser Beams)
- Mechanical Safety Edges
- Door Locking Mechanism
- Emergency Release System
- Interlocks
- Timing Controls



## Speed Governor

### How a lift governor works:

- Speed Monitoring
- Overspeed Detection
- Brake Activation
- Reset



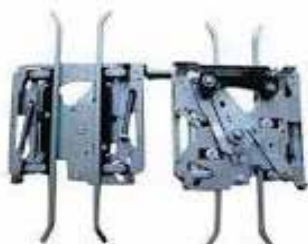
- Automation
- Digitization
- Intelligence

## Lift Safety Gear

Lift safety gear is a mechanical emergency braking system mounted on the elevator car frame. It is one of the most critical safety components in a lift system and is designed to stop the elevator if it travels too fast downward, typically in the event of a hoist rope failure or overspeed.



## Lift safety Brake



## Lift Buffer



## UCMP Protection System

When the elevator is in the leveling position and the door is opened, if there is an accidental movement, the UCMP protection device will immediately start to make the elevator stop safely to prevent accidents.



## 32 Bit DSP Processor



The performance upgraded control system adopts a high-performance 32 bit DSP Processor, which has strong anti interference ability to comprehensively improves the system's response speed and reliability.

## Maximum Energy Efficiency Rating

We have been committed to researching and developing more energy efficient elevator solutions to help the users save cost. Our energy saving is mainly through three ways : The Host , Car Equipment and Control System.



Gearless Traction Machine ,  
Machine Room Type

## Optimized Dual Drive Scheme



Gearless Traction Machine ,  
Machine Room Less Type

- Both Drive frame beam structure and drive seat guideway structure are optional fit for all kinds of machine room less civil construction conditions.
- After rigorous analysis and test of the driving mechanical structure, the load bearing and damping distribution of the components is more reasonable and the operation is more stable.

## A new Generation of permanent Magnet Synchronous Gearless Traction Machine

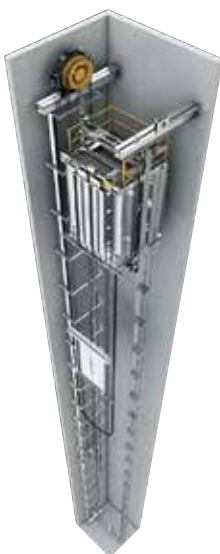
- To save spaces we have designing Ultra-thin Body of the machine.
- It has high temperature resistant permanent magnets ensure no demagnetization or detachment under 150° C Conditions.
- Enhanced motor efficiency for optimal energy savings.
- Transparent design of the machine body allows excellent heat dissipation.
- Maintenance – free without the need for grease replacement, preventing oil pollution
- Low temperature rise, low noise, high efficiency and stability

## Small Machine room elevator High- efficient use with small space for free travel

- Make efficient use of space to improve building quality
- Simplify the installation process and shorten the installation
- Reasonably communicate design to reduce energy consumption



## Machine Room Less Elevator Unlimited Possibilities



- No need to set up a host machine room, which greatly saves constructions cost.
- Optimize the Building space and provide more possibilities for architectural design.
- No need to reserve complex holes, and the civil construction requirements are simpler.

# Passenger Elevator



## SBBL-HL-101

### Material details

Front Door	●	STSHL Finish
Side wall	●	TSHL Finish
Front Wall	●	STSHL Finish
Back Wall	●	STSHL Finish
Floor	●	Deco tiles / PVC
Hand rail	●	Round/Flat type
Ceiling Finish	●	STSHL Finish

## SBBL-HL-102

### Material details

Front Door	●	STSHL Finish
Side wall	●	STSHL Finish
Front Wall	●	STSHL Finish
Back Wall	●	STSHL Finish
Floor	●	Deco tiles / PVC
Hand rail	●	Round/Flat type
Ceiling Finish	●	STSHL Finish



# Passenger Elevator



## SBBL-MR-103

### Material details

Front Door	● STSMR Etching Finish
Side wall	● STSMR Etching Finish
Front Wall	● STSMR Etching Finish
Back Wall	● STSMR Etching Finish
Floor	● Deco tiles / PVC
Hand rail	● Round/Flat type
Ceiling Finish	● STSMR Finish

## SBBL-MR-104

### Material details

Front Door	● STSMR Etching Finish
Side wall	● STSMR Etching Finish
Front Wall	● STSMR Etching Finish
Back Wall	● STSMR Etching Finish
Floor	● Deco tiles / PVC
Hand rail	● Round/Flat type
Ceiling Finish	● STSMR Finish



# Passenger Elevator



## SBBL-MR-105

### Material details

Cabin wall	Black Titanium Mirror Etching Finish
Floor	Deco tiles / PVC
Hand rail	Round/Flat type
Ceiling Finish	Black Titanium Mirror Frame

## SBBL-MR-106

### Material details

Front Door	STSMR Etching Finish
Side wall	STSMR Etching Finish
Front Wall	STSMR Etching Finish
Back Wall	STSMR Etching Finish
Floor	Deco tiles / PVC
Hand rail	Round/Flat type
Ceiling Finish	STSMR Finish



# Passenger Elevator



## SBBL-HL-107

### Material details

Front Door	● STSHL Finish
Side wall	● STSHL Finish
Front Wall	● STSHL Finish
Back Wall	● STSHL Finish
Floor	● Deco tiles / PVC
Hand rail	● Round/Flat type
Ceiling Finish	● STSHL Finish

## SBBL-MR-108

### Material details

Front Door	● STSMR Etching Finish
Side wall	● STSMR Etching Finish
Front Wall	● STSMR Etching Finish
Back Wall	● STSMR Etching Finish
Floor	● Deco tiles / PVC
Hand rai	● Round/Flat type
Ceiling Finish	● STSMR Finish



# Passenger Elevator



## SBBL-MR-109

### Material details

Front Door	● STSMR Gold Finish
Side wall	● STSMR Gold Finish
Front Wall	● STSHL Gold Finish
Back Wall	● STSMR Gold Finish
Floor	● Deco tiles / PVC
Hand rail	● Round/Flat type
Ceiling Finish	● STSHL Gold Finish

## SBBL-MR-110

### Material details

Front Door	● STSMR Etching Bronze Finish
Side wall	● STSMR Etching Bronze Finish
Front Wall	● STSMR Etching Bronze Finish
Back Wall	● STSMR Etching Bronze Finish
Floor	● Deco tiles / PVC
Hand rail	● Round/Flat type
Ceiling Finish	● STSMR Finish



# Passenger Elevator



## SBBL-MR-111

### Material details

Front Door	● STSMR Etching Finish
Side wall	● STSMR Etching Finish
Front Wall	● STSHL Finish
Back Wall	● STSMR Etching Finish
Floor	● Deco tiles / PVC
Hand rail	● Round/Flat type
Ceiling Finish	● STSHL Finish

## SBBL-HL-112

### Material details

Front Door	● STSMR Etching Finish
Side wall	● STSMR Etching Finish
Front Wall	● STSMR Etching Finish
Back Wall	● STSMR Etching Finish
Floor	● Deco tiles / PVC
Hand rail	● Round/Flat type
Ceiling Finish	● STSMR Finish



# Passenger Elevator



- Stainless Steel Mirror Finish Etching Pattern
- Stainless Steel Hairline Finish Etching pattern
- Stainless Steel Plain Mat Type Hairline Finish

# Passenger Elevator Aesthetics



# Passenger Elevator Aesthetics



## HANDICAP FEATURED COP

Wall Mounted Type



C178G

Wall Embedded Type



C178G-GJ

## HALL CALL



H124C

H236

Wall Mounted Hall Call

Wall Embedded Hall Call

Round or Square buttons, either with or without braille, is available for choosing.

## FIREMANS SWITCH BOX



H1004

H1730

H1735

Mixed and Recessed variants are also options.

## WALL MOUNTED TYPE HOP



H208A

H211A

Mirror stainless steel finishing is available for this HOP type. Only round button, braille or non-braille type, can be used on the HOP. Duplex model is not available.



H209A

H209AB

Round or Square buttons, either with or without braille, is available for choosing.



H1182A

H1182AB

Round or Square buttons, either with or without braille, is available for choosing (True color LCD).

## WALL EMBEDDED TYPE HOP



H118A

H118AB

H119A

H119AB



H235A

H235A

Round or Square buttons, either with or without braille, is available for choosing (7 Segment LCD).



H1830B

## HALL LANTERN

Wall Mounted



H1020

H1021

H1022

H1023



H1017



H1018



H1019



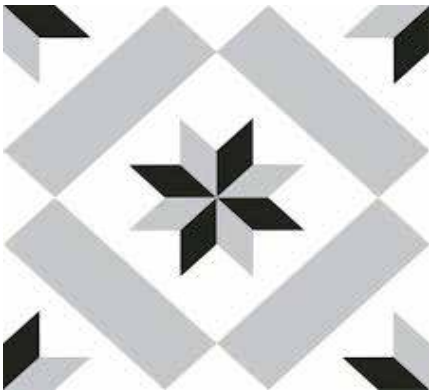
H1016



H1012

# Passenger Elevator Aesthetics

## Elevator Floor (PVC)



## Elevator Handrail

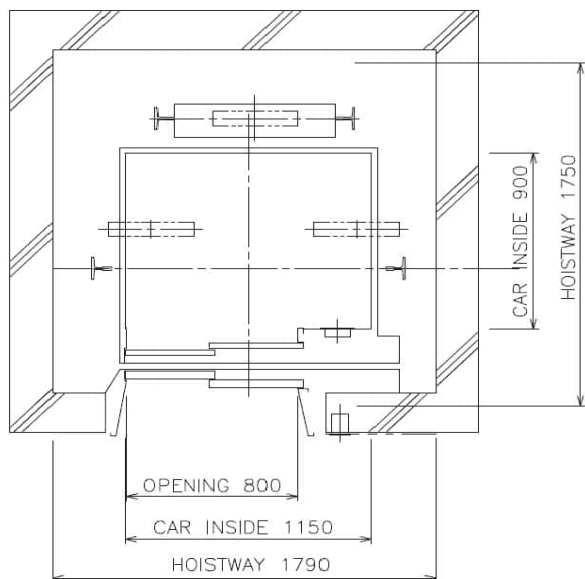


## Elevator Ceiling

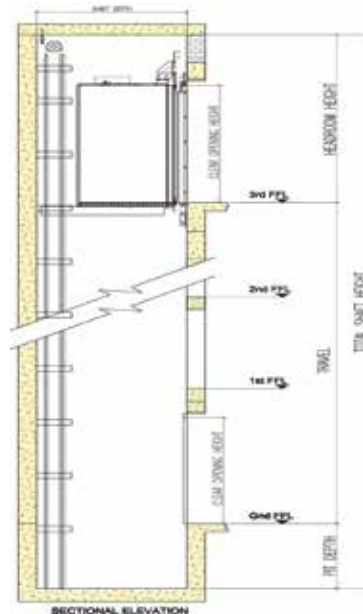


# ELEVATOR PLAN

LOAD CAPACITY (KG)	PERSON	SPEED M/S	HOISTWAY SIZE (MM)	CAR SIZE (MM)	OP (MM)	PIT
450	06	1.00	(W)1500 × (D)1400	(W)1000×(D)900	(W)700×(H)2100	1500
550	07		(W)1500 × (D)1500	(W)1000×(D)1000	(W)700×(H)2100	1500
630	08		(W)1750 × (D)1800	(W)1100×(D)1400	(W)800×(H)2100	1500
800	10		(W)1800 × (D)2000	(W)1300×(D)1450	(W)800×(H)2100	1500
900	11		(W)1800 × (D)2000	(W)1300×(D)1500	(W)800×(H)2100	1500
1000	13		(W)1950 × (D)2200	(W)1300×(D)1800	(W)900×(H)2100	1500
1150	15		(W)2100 × (D)2500	(W)1300×(D)2000	(W)1000×(H)2100	1500
1250	17		(W)2100 × (D)2600	(W)1400×(D)2000	(W)1000×(H)2100	1500
1350	18		(W)2000 × (D)2800	(W)1500×(D)2200	(W)1000×(H)2100	1500
1600	21		(W)2000 × (D)2900	(W)1500×(D)2300	(W)1000×(H)2100	1500
450	06	1.50 – 1.75	(W)1500 × (D)1400	(W)1000×(D)900	(W)700×(H)2100	1500
550	07		(W)1500 × (D)1500	(W)1000×(D)1000	(W)700×(H)2100	1500
630	08		(W)1750 × (D)1800	(W)1100×(D)1400	(W)800×(H)2100	1500
800	10		(W)1800 × (D)2000	(W)1300×(D)1450	(W)800×(H)2100	1500
900	11		(W)1800 × (D)2000	(W)1300×(D)1500	(W)800×(H)2100	1500
1000	13		(W)1950 × (D)2200	(W)1300×(D)1800	(W)900×(H)2100	1500
1150	15		(W)2100 × (D)2500	(W)1300×(D)2000	(W)1000×(H)2100	1500
1250	17		(W)2100 × (D)2600	(W)1400×(D)2000	(W)1000×(H)2100	1500
1350	18		(W)2000 × (D)2800	(W)1500×(D)2200	(W)1000×(H)2100	1500
1600	21		(W)2000 × (D)2900	(W)1500×(D)2300	(W)1000×(H)2100	1500
1600	21		(W)2000 × (D)2900	(W)1500×(D)2300	(W)1000×(H)2100	1800
450	06	2.00- 2.50	(W)1500 × (D)1400	(W)1000×(D)900	(W)700×(H)2100	2500
550	07		(W)1500 × (D)1500	(W)1000×(D)1000	(W)700×(H)2100	2500
630	08		(W)1750 × (D)1800	(W)1100×(D)1400	(W)800×(H)2100	2500
750	10		(W)1800 × (D)2000	(W)1300×(D)1450	(W)800×(H)2100	2500
800	10		(W)1800 × (D)2000	(W)1300×(D)1500	(W)800×(H)2100	2500
900	11		(W)1950 × (D)2200	(W)1300×(D)1800	(W)900×(H)2100	2500
1000	13		(W)2100 × (D)2500	(W)1300×(D)2000	(W)1000×(H)2100	2500
1150	15		(W)2100 × (D)2600	(W)1400×(D)2000	(W)1000×(H)2100	2500
1250	17		(W)2000 × (D)2800	(W)1500×(D)2200	(W)1000×(H)2100	2500
1350	18		(W)2000 × (D)2900	(W)1500×(D)2300	(W)1000×(H)2100	2500
1600	21		(W)2200 × (D)2900	(W)1600×(D)2300	(W)1100×(H)2100	2500

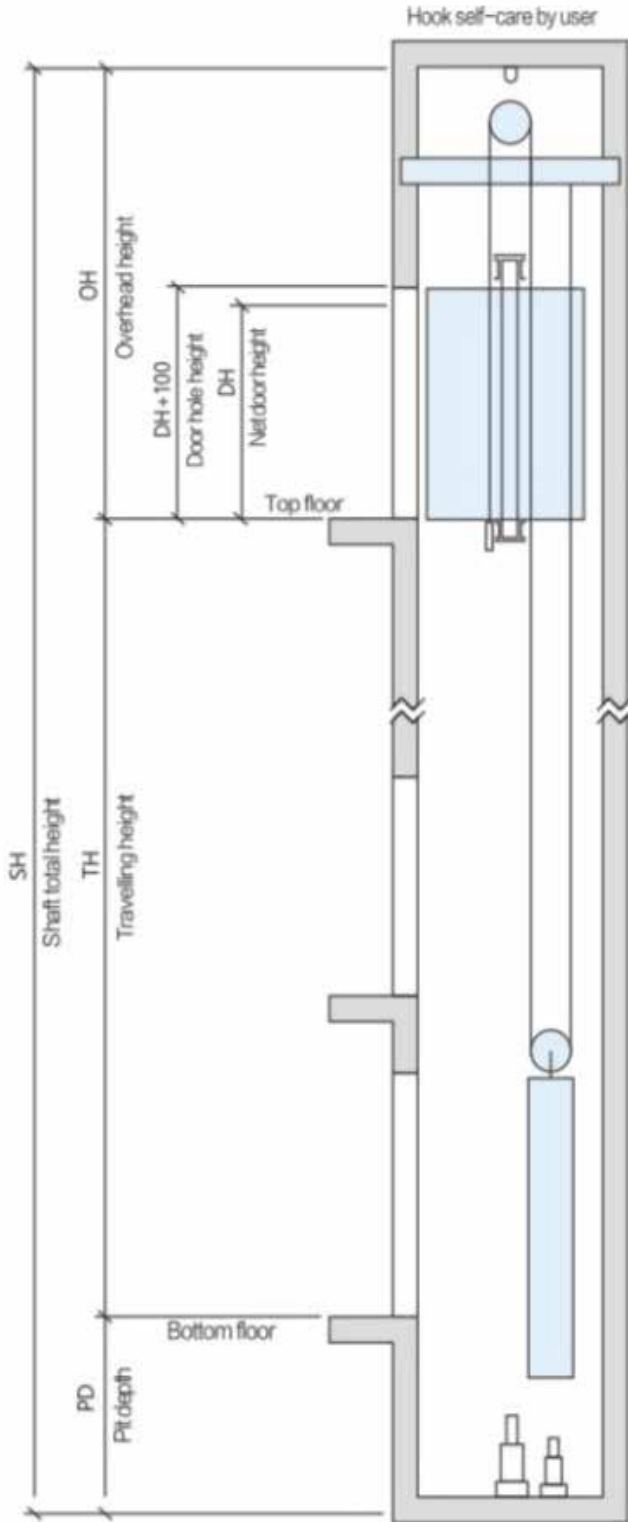


An elevator core drawing

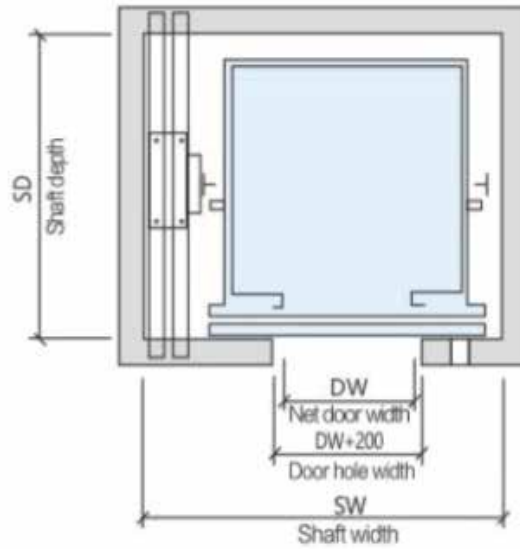


# ELEVATOR PLAN

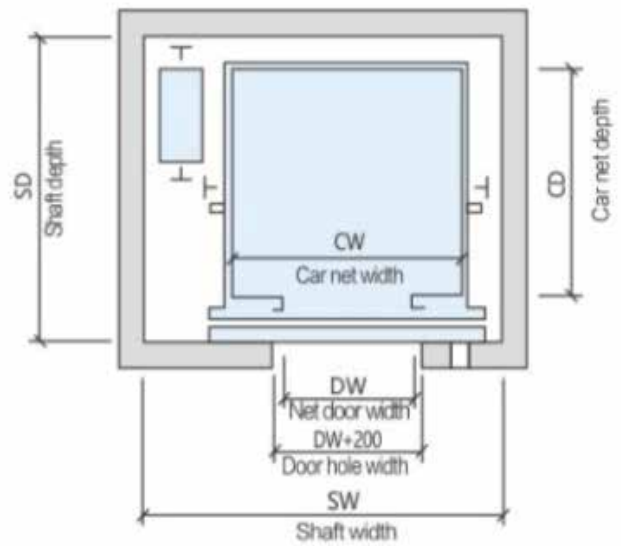
### Hoistway vertical view



### Overhead floor layout plan



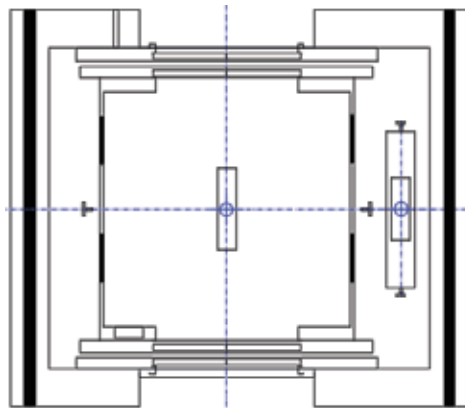
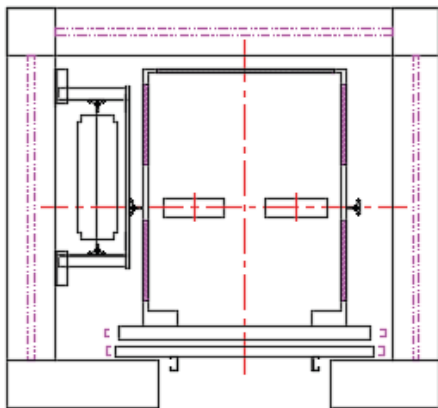
### Hoistway plane layout



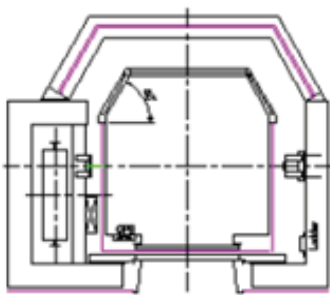
# OBSERVATION ELEVATOR

## Configuration

Rear panel curved panoramic glass  
Up and down enclosure – hairline st. st. & Milky organic glass;  
Ceiling – hairline st. st. finishes, without EEC;  
Car wall – hairline st. st. and curved glass;  
(Opt : Mirror/Ti-mirror/Ti-hairline st. st. )  
Handrail – 3 sides  
Flooring – PVC (Opt : PVC other types/By user)



[3VIEWD]



## Configuration

Full panoramic glass (3 sides/4 sides)  
Up and down enclosure , mirror st. st.  
(Opt : Mirror/Hairline/Ti-hairline st. st. )  
Ceiling – without EEC;  
Car wall – hairline st. st. ;  
(Opt : Mirror/Ti-mirror/Ti-hairline st. st. )  
Handrail – 3 side  
Flooring – PVC (Opt : PVC other types/By user)



## OBSERVATION ELEVATOR

### Configuration

Full panoramic glass (3 sides/4 sides)  
Up and down enclosure –(jewelry silvery)  
baking finish steel  
Ceiling –mirror surface stainless steel frame &  
Milky Acrylic middle roof. without EEC; (Opt :  
Hairline/Ti-mirror /Ti-hairline st. st. )  
Car wall - mirror st. st.;  
(Opt : Hairline/Ti-mirror /Ti-hairline st. st. )  
Handrail - all side ;  
Flooring - PVC (Opt : PVC other types/By user)



## FREIGHT ELEVATOR



According to many years of design and use experience, and absorbing advanced manufacturing technology at home and abroad, its application of full computer modular elevator special control system, efficient and reliable driving mode, soft and sensitive VVVF frequency conversion door crane makes it easy to carry and adapt freely under various working conditions.

### Specification:

Car wall: STSHL/STSMR  
Car Door: STSHL  
Landing Door: STSHL  
Ceiling: STSHL Finish  
with LED light  
Floor : Chakard Plate

The elevator can make easy vertical transportation of heavy weight goods. Its start 1 tons up to 10 tons. Generally its contains upto 5 tons in usual industry. Size depends on the capacity and hoist way plan.



## HYDRAULIC TYPE CAR ELEVATOR ASTHETICS

Stable and comfortable quality bearing Car elevator adopts internationally advanced elevator technology, guaranteeing sufficiently large size and load carrying of automobile product, which can satisfy the demands of park at different floors , and can be applied widely in large scale parks, 4S stores and so on.



### Specification:

Hydraulic Type car elevator

Car wall: STSHL/STSMR

Car Door: STSHL

Landing Door: STSHL

Ceiling: STSHL Finish with LED light

Floor : Checked Steel Plate

The cars has a large area and the rated is generally more than 3 tons, making it easy to load a variety of small cars.

Convenient opening design  
Front and rear through door settings  
for easy access to the car.

## HOME/VILLA ELEVATOR ASTHETICS

It highlights the beautiful lines of craftsmanship, cooperates with advanced material selection, interprets the concept of high -end industrial design, and makes it one of the beautiful works of art in your private spaces.



## HOME/VILLA ELEVATOR ASTHETICS

It highlights the beautiful lines of craftsmanship, cooperates with advanced material selection, interprets the concept of high -end industrial design, and makes it one of the beautiful works of art in your private spaces.



### **Safe and convenient, care is often accompanied**

It is specially developed for mid to high end villas and split-level residences, with exquisite layout , divers styles, and out standing performance. It is suitable for villas and split-level residences without elevators to meet your high-quality life needs.

### **Humanized open door style**

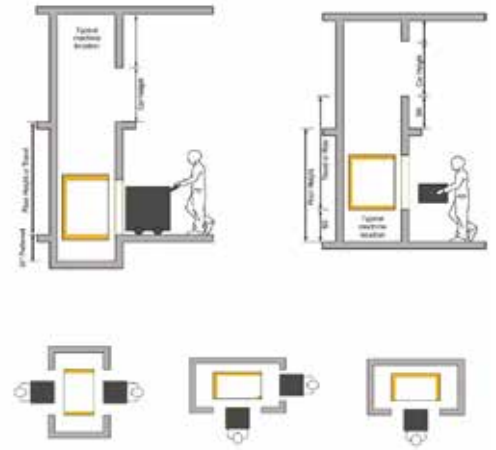
It adopts a variety of door opening methods to provide users with choices, and can be specially designed according to needs and usage conditions.



## DUMBWAITER ELEVATOR MANUFACTURER & SUPPLIER

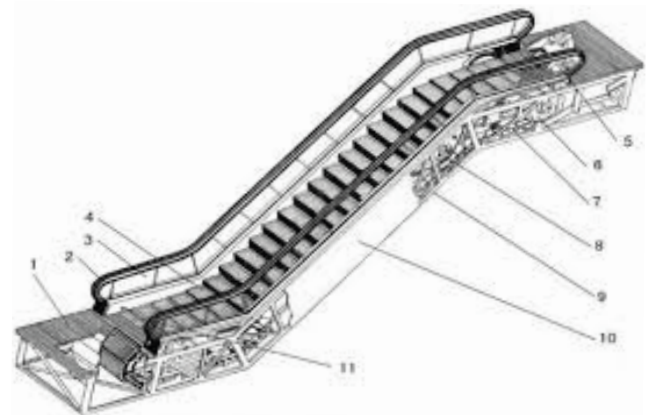
SBBL Supplies world class dumbwaiter elevators from the leading manufacturer in China, we specialize in providing compact and efficient solutions for vertical goods transportation. Engineered with a cutting-edge microcomputer control system, our dumbwaiters ensure safe and reliable operation, making them ideal for handling loads ranging from 50kg to 300kg. Featuring versatile designs, including window-type and floor-type options, these elevators cater to diverse usage scenarios, offering seamless loading and unloading of goods. Widely used in hotels, restaurants, hospitals, offices, and other commercial spaces, Star Elevator's dumbwaiter elevators deliver fast, economical, and space-saving solutions for the efficient transport of items such as food, documents, and medical supplies.

# DUMBWAITER ELEVATOR MANUFACTURER & SUPPLIER

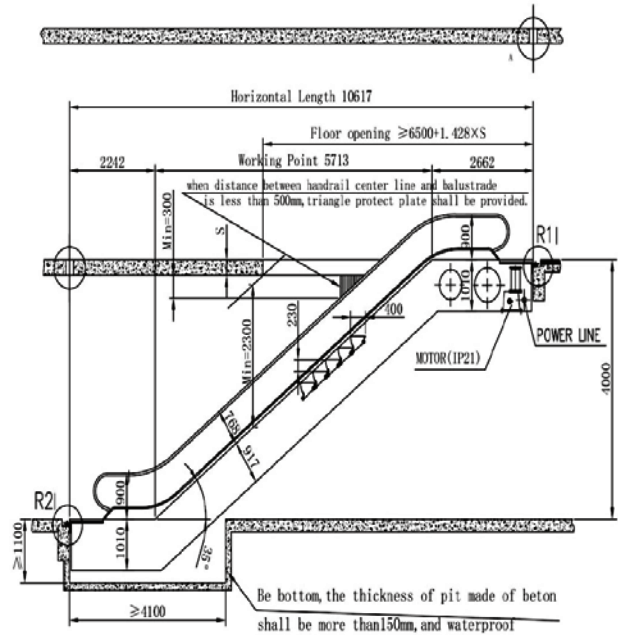
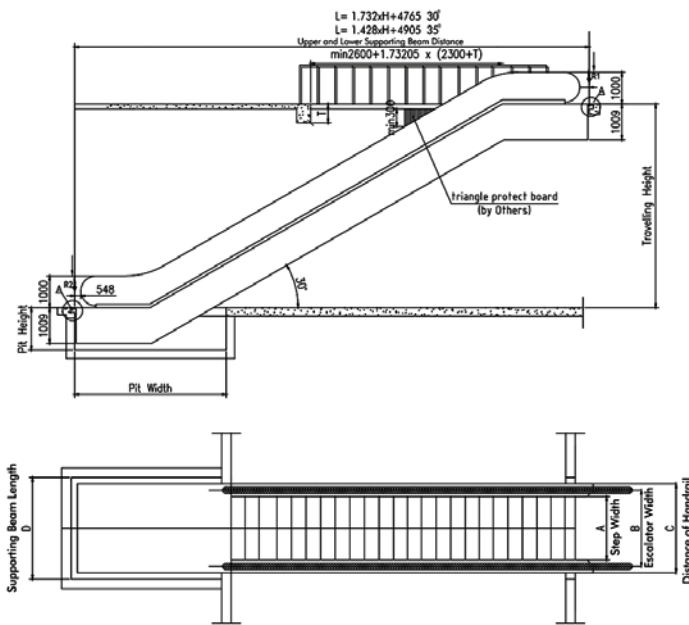


LOAD	TYPE	CABN SIZE	SHAFT SIZE	OVERHEAD	PIT
100	Window type	(W)-750, (D)-750, (H)-800	(W)-1200, (D)-1070	>=3000	-
200	Window type	(W)-800, (D)-800, (H)-800	(W)-1250, (D)-1120	>=3500	-
300	Window type	(W)-950, (D)-950, (H)-1000	(W)-1450, (D)-1150	>=3600	-
100	Trolley type	(W)-750, (D)-750, (H)-900	(W)-1250, (D)-900	>=3600	600
300	Trolley type	(W)-1000, (D)-1000, (H)-1100	(W)-1500, (D)-1200	>=3600	1200
500	Trolley type	(W)-1100, (D)-1100, (H)-1200	(W)-1600, (D)-1300	>=3600	1200

# ESCALATOR AND MOVING WALKS ASTHETICS



# ESCALATOR AND MOVING WALKS LAYOUT



30° Escalator Construction Layout

35° Escalator Construction Layout

Step Width (mm)	Handrail Spacing	Trush Width	Escalator Width	Width of installation opening	Safe civil Engineering Width
1000	1238	1560	1600	1660	2317
800	1037	1360	1400	1460	2137
600	837	1160	1200	1260	1937

Step Width (mm)	Handrail Spacing	Trush Width	Escalator Width	Width of installation opening	Safe civil Engineering Width
1000	1238	1560	1600	1660	2317
800	1037	1360	1400	1460	2137
600	837	1160	1200	1260	1937

Model	Elevate height mm	Weight	Support Load	Support Load 2	Power	Transport Size	
						H	L
OP-600, 3600P/H, Speed 0.5	3000	57	46	41	5.5	2850	10180
	3500	60	49	44		2890	11030
	4000	64	52	47		2920	11890
	4500	68	56	50		2940	12750
	5000	71	59	53		2970	13610
	5500	75	62	56	2980	14470	
OP-800, 4800P/H, Speed 0.5	3000	59	52	47	5.5	2850	10180
	3500	63	56	50		2890	11030
	4000	67	60	54		2920	11890
	4500	71	64	57		2940	12750
	5000	74	68	60		2970	13610
	5500	82	74	66	2980	14470	
OP-1000, 6000 OP/H, Speed 0.5	3000	63	59	53	8	2850	10180
	3500	67	64	57		2890	11030
	4000	71	68	61		2920	11890
	4500	75	73	65		2940	12750
	5000	83	79	71		2970	13610
	5500	87	84	75	2980	14470	

Model	Elevate height mm	Weight	Support Load	Support Load 2	Power	Transport Size	
						H	L
OP-600, 3600P/H, Speed 0.5	3000	55	43	39	5.5	2850	10180
	3500	57	46	41		2890	11030
	4000	60	49	44		2920	11890
	4500	64	52	46		2940	12750
	5000	67	54	49		2970	13610
	5500	70	57	51	2980	14470	
OP-800, 4800P/H, Speed 0.5	3000	56	69	44	8	2850	10180
	3500	60	52	47		2890	11030
	4000	63	56	50		2920	11890
	4500	66	59	53		2940	12750
	5000	70	62	56		2970	13610
	5500	73	65	59	2980	14470	
OP-1000, 6000 OP/H, Speed 0.5	3000	60	56	50	11	2850	10180
	3500	64	60	53		2890	11030
	4000	67	64	57		2920	11890
	4500	71	67	60		2940	12750
	5000	74	71	64		2970	13610
	5500	82	77	69	2980	14470	

# PERKINS DIESEL GENERATOR



Gen-set Model	Prime Power		Standby Power		Engine	Alternator		
	kVA	kW	kVA	kW	Perkins	Stamford	Leroysoner	MeccAlte
DP0007S	9	7	10	7.7	403D-11G	PI 044E	LSA 40 VS1	ECO2&2VS/4
DP0010S	13	10	14	11	403D-15G	PI 044F	LSA 40 VS2	ECO2&0S/4
DP0016S	20	16	22	17.6	404D-22G	PI144D	LSA 40 M5	ECO2&1LN/4
DP0024S	30	24	33	26.4	1103A-33G	PI 144G	LSA 42.2L9	ECO2&VL/4
DP0036S	45	36	50	39.6	1103A-33TG1	UCI 224D	LSA 43.2S25	ECO323S/4
DP0048S	60	48	66	52.8	1103A-33TG2	UCI 224E	LSA 43.2M45	ECO322L/4
DP0052S	65	52	72	57.2	1104A-44TG1	UCI 224F	LSA 43.2L65	ECO323L/4
DP0064S	80	64	88	70.4	1104A-44TG2	UCI 224G	LSA 43.2L8	ECP341S/4
DP0075S	94	75	103	82.5	1006TG1A	UCI 274C	LSA 44.2VS4	ECP342S/4
DP0080S	100	80	110	88	1004G44TAG2	UCI 274C	LSA 44.2VS4	ECP342S/4
DP0108S	135	108	149	118.8	1006TAG	UCI 274E	LSA 44.2S75	ECP342L/4
DP0120S	150	120	165	132	1006TAG2	UCI 274F	LSA 44.2M95	ECP342L/4
DP0145S	181	145	199	159.5	1106G E66TAG4	UCI 274G	LSA 46.2M3	ECO3&1SN
DP0160S	200	160	220	176	1306G E87TAG3	UCI 274H	LSA 46.2M5	ECO3&2SN
DP0182S	228	182	250	200.2	1306G E87TAG4	UCD 274J	LSA 46.2L6	ECO3&3SN
DP0200S	250	200	275	220	1306G E87TAG6	UCD 274K	LSA 46.2L6	ECO3&1LN
DP0280S	350	280	385	308	2206G E13TAG2	HCI 444E	LSA 47.2VS1	ECO3&3LN
DP0320S	400	320	440	352	2206G E13TAG3	HCI 444F	LSA 47.2S4	ECO401S
DP0364S	455	364	501	400.4	2506A E15TAG1	HCI 544C	LSA 47.2S5	ECO402S
DP0400S	500	400	550	440	2506A E15TAG2	HCI 544C	LSA 47.2M7	ECO403S
DP0440S	550	440	605	484	2806G E18TAG1A	HCI 544E	LSA 47.2L9	ECO401.5L

# CUMMINS DIESEL GENERATOR



## Powered by CUMMINS | 440V,1800RPM,60Hz

Genset	Standby	Prime	Engine	Alternator	Dimension mm	Dimension mm
Model	kVA	kVA	Model	Stamford	Open Type	Soundproof Type
C-28GF2	33	30	4B3.9-G2	SOL2-P1	1760*760*1380	2290*1060*1680
C-40GF2	50	45	4BT3.9-G2	SOL2-N1	1760*760*1380	2290*1060*1680
C-65GF2	68	62.5	4BTA3.9-G2	UCI224D1	1760*760*1380	2440*1060*1680
C-70GF2	70	65	4BTA3.9-G2	SIL2-Y1	1760*760*1380	2440*1060*1680
C-75GF2	77	70	4BTA3.9-G11	UCI224E1	1760*760*1380	2440*1060*1680
C-80GF2	95	85	4BTA3.9-G11	UCI224F1	1760*760*1380	2440*1060*1680
C-90GF2	100	90	4BTA3.9-G11	UCI224G1	1760*760*1380	2600*1060*1680
C-105GF2	120	110	6BT5.9-G2	UCI274C1	2300*830*1700	2810*1140*1830
C-110GF2	132	120	6BT5.9-G2	UCI274D1	2300*830*1700	2810*1140*1830
C-125GF2	145	130	6BTA5.9-G2	UCI 274D1	2300*830*1700	3230*1170*1800
C-142GF2	156	145	6BTAA5.9-G2	UCI274E1	2350*830*1700	3230*1170*1800
C-170GF2	180	168	6BTAA5.9-G12	UCI274E1	2390*860*1850	3230*1170*1800
C-200GF2	212	200	6CTA8.3-G2	UCI274G1	2390*860*1850	3230*1170*1800
C-220GF2	250	230	6CTAA8.3-G2	UCI274H1	2450*960*1850	3590*1150*2050
C-275GF2	275	250	6LTAA8.9-G2	UCDI 274J1	2500*960*1850	3590*1150*2050
C-300GF2	306	280	6LTAA8.9-G3	UCDI 274J1	2500*960*1850	3590*1150*2050
C-350GF2	330	300	6LTAA9.5-G1	UCDI 274K1	2500*1060*1850	3590*1250*2050
C-312GF2	344	310	NTA855-G1	S4L1D-C41	3020*1100*1850	4230*1460*2150
C-360GF2	375	344	NTA855-G1B	S4L1D-D41	3020*1100*1850	4230*1460*2150
C-400GF2	435	400	NTA855-G3	S4L1D-E41	3020*1100*1850	4230*1460*2150
C-440GF2	500	438	KTA19-G2	S4L1S-F41	3400*1258*2050	4630*1660*2250

# RICARDO DIESEL GENERATOR



Model	400/230 V		Ricardo C Engine	Gentech Alternator	Dimension (W×L×H mm)		Weight (Kg)	
	Standby Power (KVA)	Prime Power (KVA)			Open	Canopied	Open	Canopied
R-C21	21	19.1	4100DS	GNT-25		950×2050×1100		750
R-C33	33	30	4102DS	GNT-45		950×2050×1100		750
R-C42	42	37.1	4102DS	GNT45		950×2050×1200		950
R-C53	53	47.2	4102ZDS	GNT-55		950×2050×1200		1200
R-C70	70	63	4105ZDS	GNT-70		950×2050×1300		1250
R-C105	105	95	6105ZDS1	GNT-105		1050×2900×1750		1350
R-C125	125	112	6105ZLDS1	GNT-125		1050×2900×1750		1650
R-C150	150	135	6105AZLDS 1	GNT-150		1050×2900×1750		1800
R-165	165	148.5	6105BZLDS	GNT-165		1050×2900×1750		1900
R-C195	195	175	6110ZLDS	GNT-195		1200×3150×1950		2440
R-C220	220	200	6110ZLDS	GNT-220		1200×3250×1950		2940
R-C258	258	232	6135AZLD-1	GNT-260		1200×3400×2000		3120
R-C284	284	255	6135AZLD	GNT-285		1350×3800×2200		3280
R-C325	325	292	6135BZLD	GNT-325		1350×3800×2200		3340

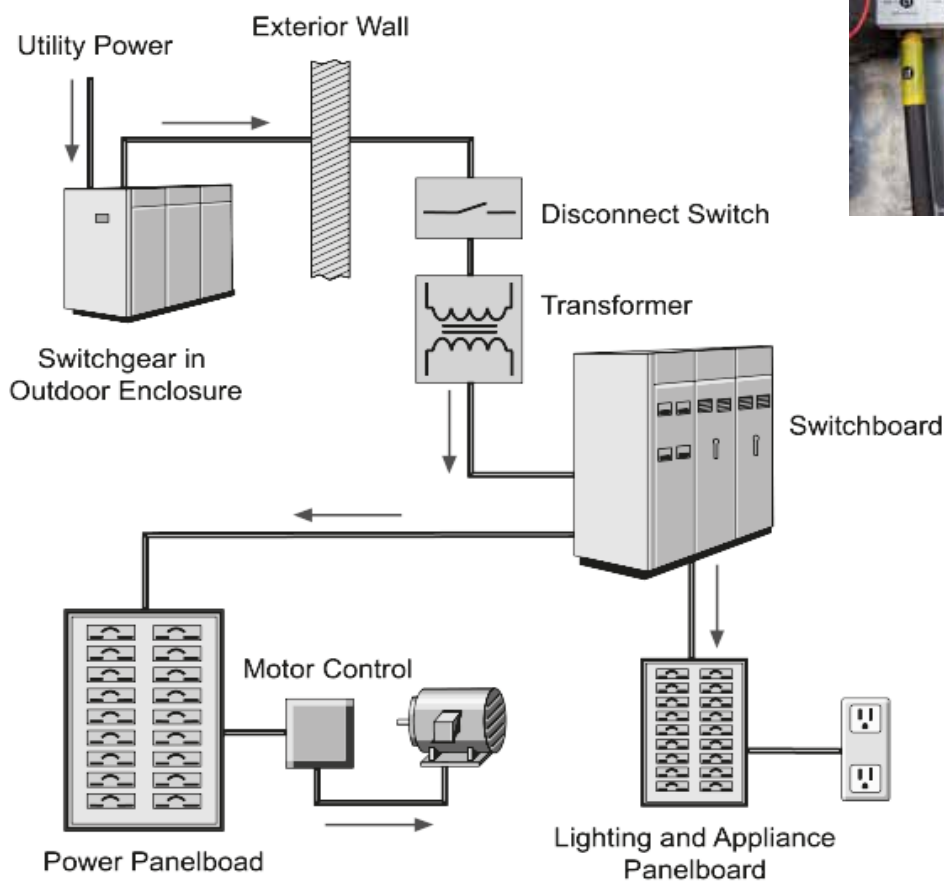
# SUBSTATION

A substation's major components include transformers, circuit breakers, disconnect switches, busbars, insulators, lightning arresters, current transformers (CTs), potential transformers (PTs), and control and protection systems. These components work together to ensure the safe and efficient transmission and distribution of electrical power.

## Detailed look at some key components:

1. **Transformers:** Substations utilize transformers to step up or step down voltage levels, enabling efficient power transmission over long distances and subsequent distribution to consumers.
2. **Circuit Breakers:** These are crucial for protecting the substation and the connected circuits from damage caused by overcurrents or short circuits. Circuit breakers can quickly interrupt the flow of electricity when a fault is detected.
3. **Disconnect Switches (Isolators):** These switches are used to isolate sections of the substation for maintenance or repairs, allowing for safe work on specific equipment without interrupting power to the entire substation.
4. **Busbars:** These are conductive bars that serve as a common connection point for multiple circuits within the substation, facilitating the distribution of electricity.
5. **Insulators:** Insulators are used to support and isolate electrical conductors, preventing unwanted current flow and ensuring safe operation.
6. **Lightning Arresters:** These devices protect the substation's equipment from damage caused by lightning strikes by providing a path for the lightning's surge current to travel to ground.
7. **Current Transformers (CTs):** CTs are used to step down the high currents in power lines to lower levels that can be safely measured by meters and protective relays.
8. **Potential Transformers (PTs):** PTs step down the high voltages in power lines to lower levels for measurement and relaying purposes.
9. **Control and Protection Systems:** These systems include relays, meters, and control panels that monitor the substation's operation and provide protection against faults and abnormal conditions.
10. **Other Components:** Substations may also include capacitor banks for power factor correction, reactors for voltage control, and various other auxiliary equipment depending on the specific substation's design and function.

# SUBSTATION



# ELEVATOR STANDARD FUNCTION LIST

Passenger and Panoramic Elevator Serial Standard Function	Cargo Elevator Standard Function	Hospital Elevator Standard Function
Full collective selective control	Full collective selective control	Full collective selective control
Door open time setting	Door open time setting	Door open time setting
Service floor setting	Service floor setting	Service floor setting
Timing service	Timing service	Timing service
Door pre-close by the door close button	Door pre-close by the door close button	Door pre-close by the door close button
Light curtain protection	Light curtain protection	Light curtain protection
Automatic car light and ventilation fan shut off	Automatic car light and ventilation fan shut off	Automatic car light and ventilation fan shut off
Automatic door open upon door lock abnormality	Automatic door open upon door lock abnormality	Automatic door open upon door lock abnormality
Landing at another floor	Landing at another floor	Landing at another floor
Response and landing during acceleration	Response and landing during acceleration	Response and landing during acceleration
Cancellation of wrong car calls	Cancellation of wrong car calls	Full collective selective control
Full collective selective control	Full collective selective control	Door open time setting
Cancellation of wrong car calls	Cancellation of wrong car calls	Cancellation of wrong car calls
Attendant running	Attendant running	Attendant running
Self-rescue at low speed	Self-rescue at low speed	Self-rescue at low speed
Button stuck diagnosis	Button stuck diagnosis	Button stuck diagnosis
Startup torque automatic compensation	Startup torque automatic compensation	Startup torque automatic compensation
Direct landing	Direct landing	Direct landing
The best curve automatic generation	The best curve automatic generation	The best curve automatic generation
Record of running times	Record of running times	Record of running times
Record of running time	Record of running time	Record of running time
Independent travel(VIP)	Independent travel(VIP)	Independent travel(VIP)
Overload indication	Overload indication	Overload indication
Full load indication	Non-leveling zone protection	Full load indication
Full load bypass	Fault data record	Full load bypass
Electronic weighing	Simple maintenance keypad	Electronic weighing
Non-leveling zone protection	Hoistway self-learning function	Non-leveling zone protection
Fault data record	Inspection running	Fault data record
Simple maintenance keypad	Motor parameters tuning	Simple maintenance keypad
Hoistway self-learning function	Floor position intelligent correction	Cancellation of wrong car calls
Inspection running	Fire emergency travel	Hoistway self-learning function
Motor parameters tuning	Fireman service operation	Inspection running
Floor position intelligent correction	Firefighting "No entry" indication	Motor parameters tuning
Fire emergency Travel	Firefighting feedback	Floor position intelligent correction
Fireman service operation	Fire emergency travel indication	Fire emergency Travel
Firefighting "No entry" indication	Parking switch	Fireman service operation
Firefighting feedback	Troubleshooting based on fault levels	Firefighting "No entry" indication
Fire emergency operation indication	Overspeed stop running	Firefighting feedback
Parking switch	Terminal floor data correction	Fire emergency operation indication
Troubleshooting based on fault levels	Passenger rescue first	Parking switch
Overspeed stop running	Interfere with the evaluation	Troubleshooting based on fault levels
Terminal floor data correction	Light load anti-nuisance function	Overspeed stop running
Passenger rescue first	Current harmonics removed	Terminal floor data correction
Interfere with the evaluation	Intercom(Alarm system)	Passenger rescue first
Light load anti-nuisance function	Alarm bell	Interfere with the evaluation
Current harmonics removed	Parameter copy	Light load anti-nuisance function
Intercom(Alarm system)	User setting check	Current harmonics removed
Alarm bell	Special display	Intercom(Alarm system)
Parameter copying	Out-of-command call registration and memory display	Alarm bell
Parameter inspection	Running direction and floor display	Parameter copying
Special display	Door open with floor button	User set inspection
Out-of-command call registration and memory display	Reverse hall call registration	Special display
Running direction and floor display	Anti-slip protection	Running direction and floor display
Door open with floor button	Program running WTD protection	Door open with floor button
Reverse hall call registration	Power failure data holding	Reverse hall call registration
Anti-slip protection	Automatic main floor returning	Anti-slip protection
Program running WTD protection	Emergency car lighting	Program running WTD protection
Power failure data holding	Landing display of out-of-service	Power failure data holding
Running direction and floor display	Anti-slip protection	Running direction and floor display

# ELEVATOR STANDARD FUNCTION LIST

Detection of jammed hall button and exclusion from operation service	If a hall button is jammed mechanically, the hall call will be automatically bypassed after being served once, until the problem is resolved.
Attendant operation	The operating mode of an elevator can be changed from the normal automatic operation to the attendant service by an attendant switch.
Independent operation	Key switch in the car operating panel will cancel any existing hall calls and hold the door open at the landing position. During independent operation, the car will respond only to respond car calls.
Anti-nuisance operation	In case of substantial difference between the number of calls registered on the car operating panel and actual load in the elevator, the elevator prevents unnecessary operation by canceling all registered calls when it arrives at the nearest floor.
Car call cancellation	Allows cancellation of an incorrectly registered car call. If you push a wrong floor button in the car, you can cancel it by pressing the same button one more time.
Nearest stop	When the car stops between floors due to mechanical malfunction. It will move to the nearest floor for the emergency escape.
Automatic door open & close time adjustment	Door open and close are automatically adjusted depending on whether the car is a hall call or a car call to increase the operating efficiency.
Car door safety edge	Extending the full height of the car door, this device enables the doors to return to the fully open position, should the door encounter a person or obstacle while closing.
Automatic car light & fan turn-off	Car illumination and fan are turned off automatically in case there is no hall call or car call to save energy.
By pass operation (80%)	If the actual load comes to more than 80% of the allowable maximum load, the elevator will not react to the calling signals from other passing floors.
Over load (110% of rated load) holding stop	When the load of passengers exceeds the maximum capacity, a buzzer sounds and the elevator remains stopped at that floor. When the passengers get off, the buzzer will stop. Consequently elevator doors will close and operation continues.
Car position display	Car position display in car or hall, operated by car indicator or hall indicator.
Over speed governor	Located at the top of the hoist way, engages the governor rope, causing activation of the elevator safety device, should the elevator car accelerate beyond the predetermined maximum speed in the up and down" direction
Emergency lighting feature	In case of power failure, the emergency light will turn on and maintain a period of time.
Changeable reference floor	The reference floor can be changed by the customer.
Slow running when checking and repairing	When checking and repairing, the elevator will operate slowly to ensure the worker' safety.
Terminal limit switches	Prevent the elevator from traveling beyond a terminal landing, in dependent of the functioning of the operating device.
Interphone	Provide emergency communication between passengers in the car, the machine room or building personnel in a security or maintenance room.
Car chime	Arrival signal.
Hall button Jam	When hall button continues to be active long time, a car could be ignore the hall call.
Hall button Jam	When hall button continues to be active long time, a car could be ignore the hall call.
ERO&MSK Operation	ERO: Refer to GB7588-2003 14.2.1.4.

## PABX

A PABX (Private Automatic Branch Exchange) system is a business phone system that manages both internal and external calls within an organization, utilizing a central switching system to route calls to specific extensions. It handles features like call forwarding, voicemail, and conferencing, and can connect to the public telephone network.

## Core Components:

**Central Control Unit:** The "brain" of the PABX, managing call routing and features.

**Switchboards:** These are responsible for physically connecting calls between different lines.

**Routers:** Used for routing calls, especially in IP-based PABX systems.

**Telephone Handsets:** The physical phones used by individuals to make and receive calls.

**Trunks:** These are the physical lines that connect the PABX to the public telephone network (PSTN).



## Key Features:

**Call Routing:** Automatically directs incoming and outgoing calls to the appropriate extensions or external lines.

**Call Forwarding:** Allows users to forward calls to another extension or external number.

**Voicemail:** Provides a system for users to receive and manage voice messages.

**Conferencing:** Enables multiple users to participate in a single call.

**Caller ID:** Displays the incoming caller's number.

**Direct Inward Dialing (DID):** Allows external callers to directly reach a specific extension without going through an operator.

**Call Waiting:** Alerts users to an incoming call while they are already on a call.

**Call Hold:** Allows users to put a call on hold while they answer another call or access other features.

**Call Transfer:** Enables users to transfer calls to other extensions or external numbers.

**Least Cost Routing (LCR):** Automatically selects the most cost-effective route for outgoing calls.

**Toll Restriction:** Limits the types of calls that can be made from certain extensions.

# ELEVATOR SPARE PARTS



MR Type Machine



MRL Type Machine



Speed Governor



Roller



Rope Fustering



Resistance



Photocell



Oil Pot



Monostable Switch



Magnetic Switch



Main Guide Shoe



Limit Switch



Intercom



Integrated Controller



Guide Rail



Fire Switch



Fan



Encoder



Door Slider



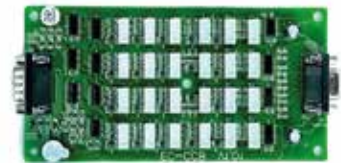
Door Sill



Display



Display



CCB



BUFFER



Biostable Switch



Button



Button



Steel Rope Sling



COP -LOP



COP



LOP



Steel Rope



Steel Rope Isolators



ARD



AVR



**SBBL LIFT is the name of trust**



- **Technology Build Market**
- **Service Create Value**
- **Commitment make trust**



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