



www.safalelevator.com

ELEVATE YOUR LIFE...



Welcome to Safal Elevator, a leader in innovative vertical elevator solutions. With years of expertise, we specialize in designing, manufacturing, and installing a wide range of elevators, from high-performance passenger lifts to heavy-duty freight elevators, catering to residential, commercial, and industrial needs.

Our commitment to safety, reliability, and cutting-edge technology ensures that every elevator we provide meets the highest standards of quality and performance. Whether you are looking for sleek, modern designs for luxury buildings or robust, energy-efficient systems for high-traffic environments, we have the perfect solution. At Safal Elevator, customer satisfaction is our top priority.

From initial consultation to after-sales support, our team of experts is dedicated to delivering a seamless experience. We also offer customization options to match your specific architectural vision, ensuring both functionality and aesthetics. Driven by a passion for excellence and a vision for a smarter future, we are elevating the standards of vertical mobility, one project at a time.



Safety and Compliance



Customization Options



Service and Support



Professional Team

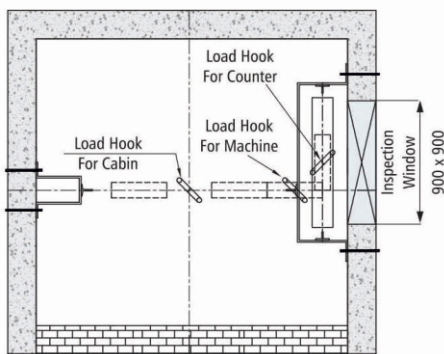
MRL Elevator

Machine Roomless Elevator

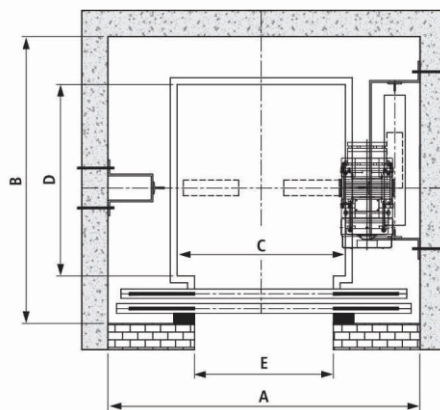


Minimum Space. Maximum value !

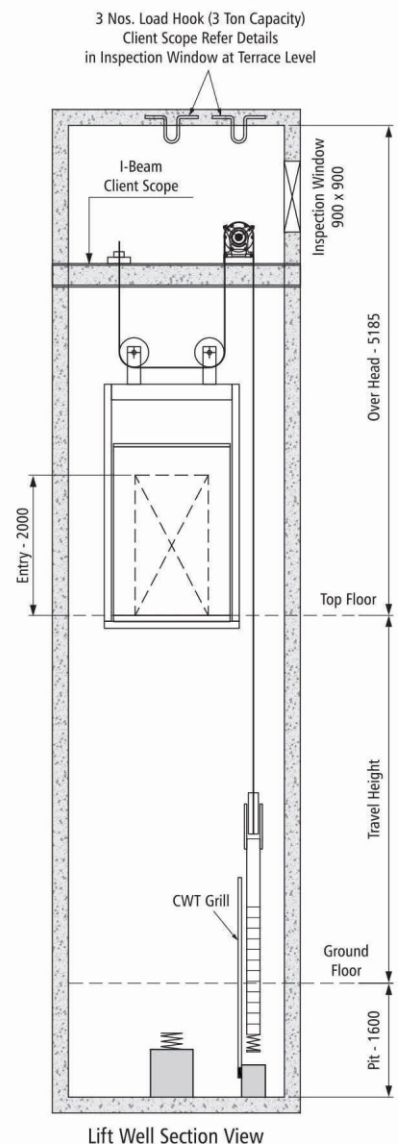
In order to know the concept of environmental protection, energy saving, saving building area, improve the degree of freedom in design is the responsibility of the Safal Elevator without machine room, fully reflects the green spirit of humanity, the elevator needs only one dependent well space, without room, with the same load weight level than conventional elevators, saving energy & save construction area.



Inspection Window at Terrace Level



Lift Well Plan



Lift Well Section View

Capacity		Lift Well		Cabin Inside		Entry
Person	Kgs	A	B	C	D	E
5	340	1600	1500	920*	1050	700
6	480	1650	1600	970*	1130	700
8	544	1850	1700	1120	1280	800
10	680	2000	1850	1270	1380	800
13	884	2100	2600	1070	2100	800/900
15	1020	2100	3000	1070	2400	800/900
20	1360	2300	3000	1320	2400	900/1000
26	1768	2450	3000	1620	2400	900/1000

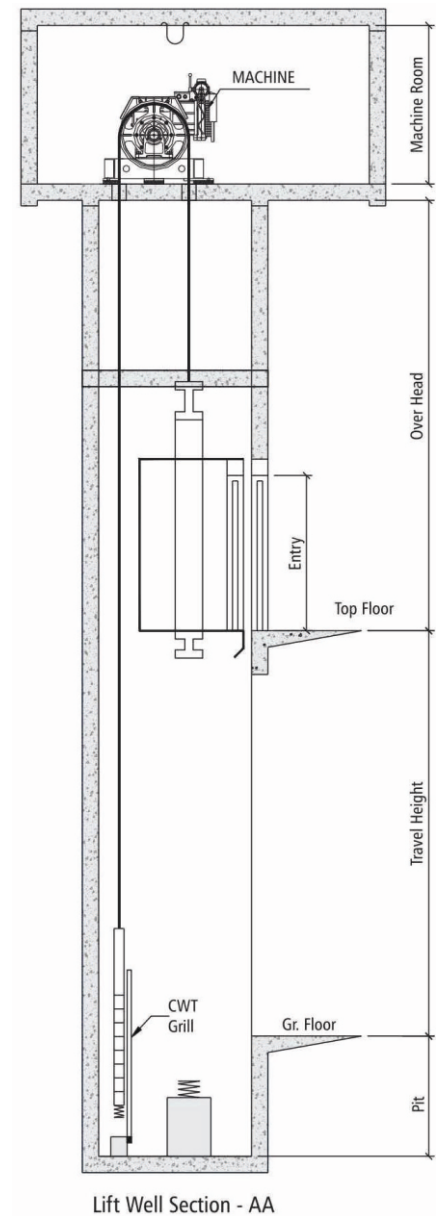
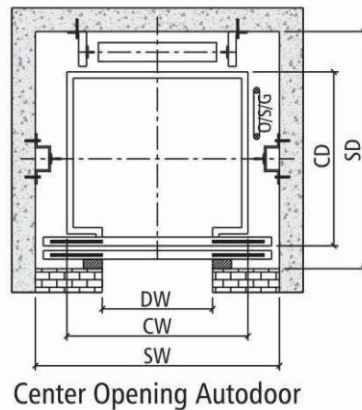
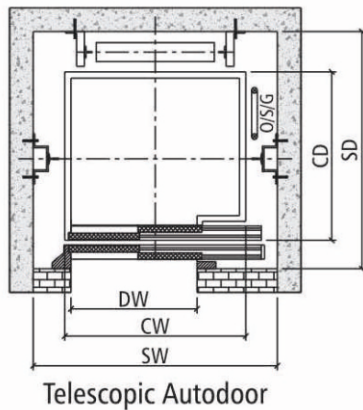
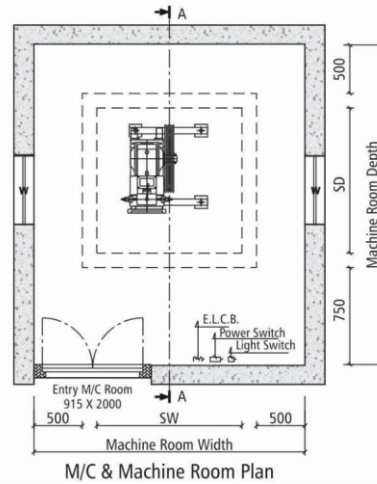
Traction Elevator

Machine Room Elevator

"Best in Class"

Ride quality on every equipment

Machine Room Passenger Elevator is one of most popular product in both private and public Sectors. The high-quality lift is tailor-made for low and medium-rise buildings, including Corporate Towers, Residential Apartments, Hotels, etc. The product range is identified with numerous salient features, including efficiency, low noise, and maintenance.



Dimensions for passenger Elevator (Machine Room)

Load		Elevator Shaft		Car Platform		Car Inside		Ent. Rance	Speed MPS	Machine Room		Pit Depth	Over Head	Car Inside Sq.mtr
Person	Kg	W	D	W	D	W	D			W	D			
6	408	1650	1600	1250	1100	1190	950	700	1.0/1.5	4350	3550	1600	4800	1.13
8	544	1800	1700	1400	1200	1340	1050	800	1.0/1.5	4500	3550	1600	4800	1.40
	544	1800	1700	1400	1200	1340	1050	800	2.0/2.5	4500	3550	2500	5350	1.40
10	680	1800	1900	1400	1450	1340	1300	800	1.0/1.5	4500	3850	1600	4800	1.74
	680	1800	1900	1400	1450	1340	1300	800	2.0/2.5	4500	3850	2500	5200	1.74
13	884	2000	2200	1600	1600	1540	1450	900	1.0/1.5	4700	4150	1600	4800	2.23
	884	2000	2200	1600	1600	1540	1450	900	2.0/2.5	4700	4150	2500	6000	2.23
16	1088	2200	2300	1800	1700	1740	1550	1000	1.0/1.5	4900	4250	1622	4800	2.69
	1088	2200	2300	1800	1700	1740	1550	1000	2.0/2.5	4900	4250	2500	6000	2.69
20	1360	2200	2600	1800	1950	1740	1800	1000	1.0/1.5	4900	4550	1800	4800	3.13
	1360	2200	2600	1800	1950	1740	1800	1000	2.0/2.5	4900	4550	2500	6000	3.13
26	1768	2800	2600	2300	1850	2240	1700	1200	1.0/1.5	5500	4550	2000	4800	3.80
	1768	2800	2600	2300	1850	2240	1700	1200	2.0/2.5	5500	4550	2500	6000	3.80

- ♦ All dimension are in mm.
- ♦ This is general data, it may be changed without notice for more details contact us.
- ♦ All hoist way walls should be minimum 230 mm brick or 150 mm R.C.C.

Smooth Operation Comfortable Travel



Capsule Elevator

Panoramic Elevator

Our premium capsule elevators fast and highly cost-effective way to create a full-glass elevator solution for your building. There are multiple car models to choose from, as well as a wide range of interior design options and other customization possibilities.



Rear Side



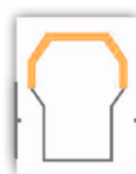
Semi-circular



3 Side Square

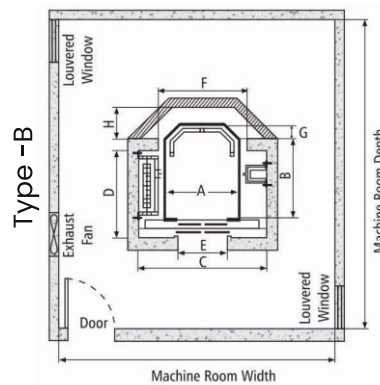
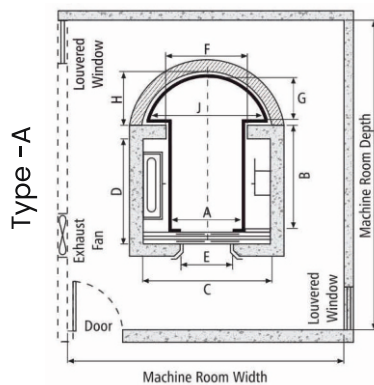


3 Side Cutting Edge



5 Side Cutting Edge

Hoistway Elevation Plan

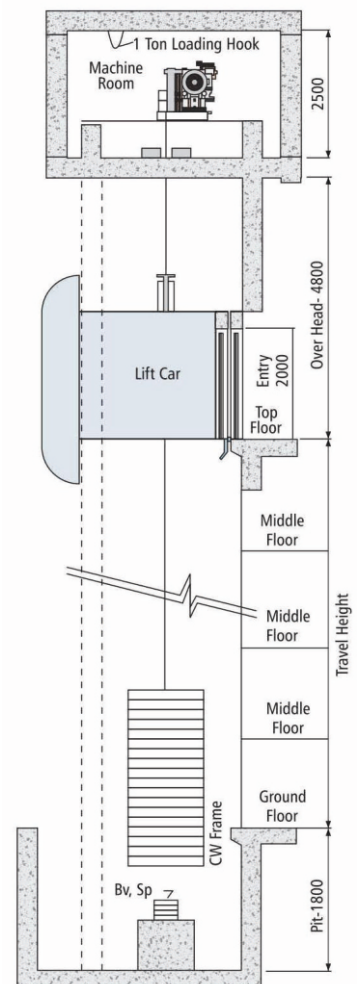


Type - A

Load		Car Inside				Lift Well				Entrance
Person	Kgs.	A	B	J	G	C	D	F	H	E
10	680	1100	1300	1400	650	2200	1325	1330	1100	800
13	884	1200	1400	1550	700	2400	1425	1430	1100	900
16	1088	1300	1500	1700	750	2800	1530	1530	1200	1000

Type - B

Load		Car Inside			Lift Well				Entrance
Person	Kgs.	A	B	G	C	D	F	H	E
10	680	1250	1300	250	2200	1450	1480	580	800
13	884	1400	1400	300	2400	1550	1630	650	900
16	1088	1550	1500	350	2800	1780	1650	790	1000



Hospital Elevator

Structure Elevator

Hospital Elevators provide easy transportation of patients and bulky medical equipment such as gurneys, stretchers and wheel chairs. These lifts feature sophisticated looks and operated smoothly.

Hospital Elevators are available in a wide variety, capable of carrying between 15 to 26 passengers at a time. These elevators usually feature center-opening, telescopic power-operated doors and easy touse for people.



Intellectual Control

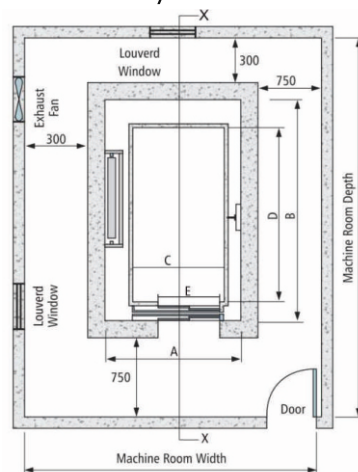


Noise Reducing

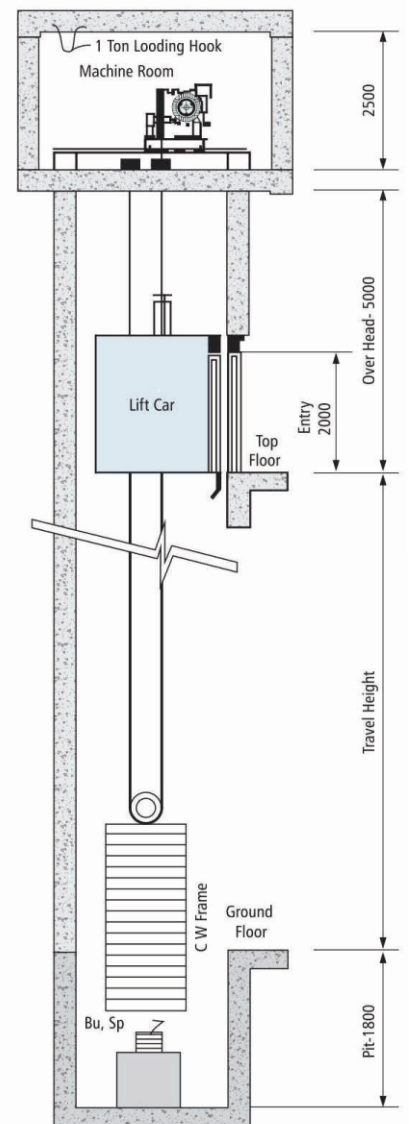


Smooth and Comfortable

Hoistway Elevation Plan



Hoistway Elevation Drawing



Automatic Centre Opening Door Lifts

Person	Capacity	Shaft-W	Shaft-D	Car-W	Car-D	Entrance
	Kg	A	B	C	D	E
15	1020	1900	3000	1000	2400	800
20	1360	2300	3000	1300	2400	900
26	1768	2600	3000	1600	2400	1000

Automatic Telescopic Door Lifts

Person	Capacity	Shaft-W	Shaft-D	Car-W	Car-D	Entrance
	Kg	A	B	C	D	E
15	1020	1700	3000	1000	2400	800
20	1360	1950	3000	1300	2400	900
26	1768	2100	3000	1600	2400	1000

Section: X-X -Lift Well

Goods Elevator

(Freight Elevator)

Bear any heavy load at ease, easy transport

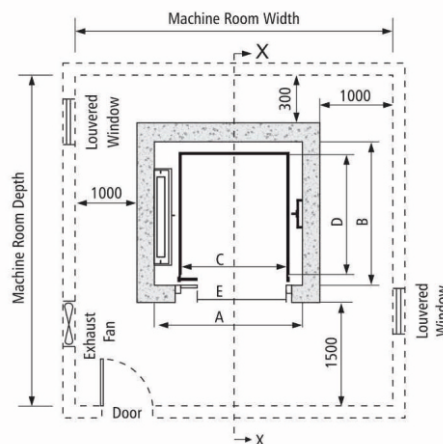
The elevator is custom-designed to move goods vertically, to multiple floors. Our excellence-driven goods lift is manufactured using high grade material and latest technology.



Highly accurate flat layer more secure



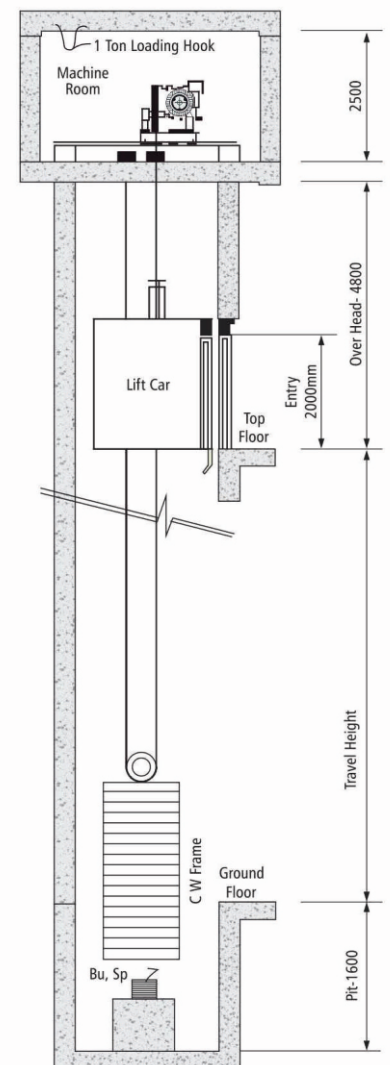
Lift car structure being sturdy and durable



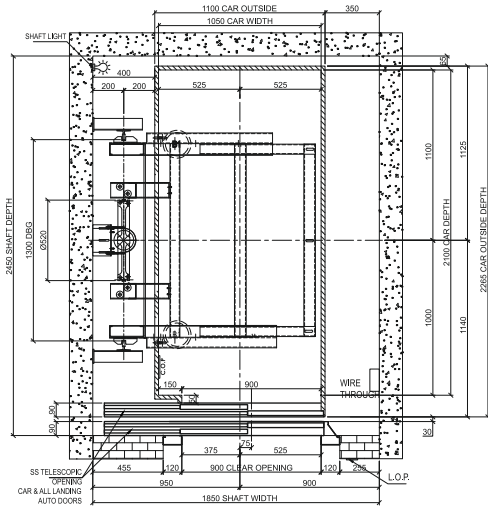
Lift Shaft, Car, C.W. & Machine Room Plan

Capacity	Shaft-W	Shaft-D	Car-W	Car-D	Entrance	Load Kg	Speed MPS	Pit Depth	Over Head
Kgs.	(A)	(B)	(C)	(D)	(E)				
500	1900	1500	1100	1200	900	500	0.3	1600	4800
1000	2300	2100	1400	1800	1150	3000	1.0		
1500	2600	2300	1700	2000	1400				
2000	2600	2800	1700	2500	1400				
3000	2900	3300	2000	3000	1700	4000	0.3	2200	7400
4000	3400	3400	2500	3000	1900	5000	0.5		
5000	3500	4300	2500	3600	1900				

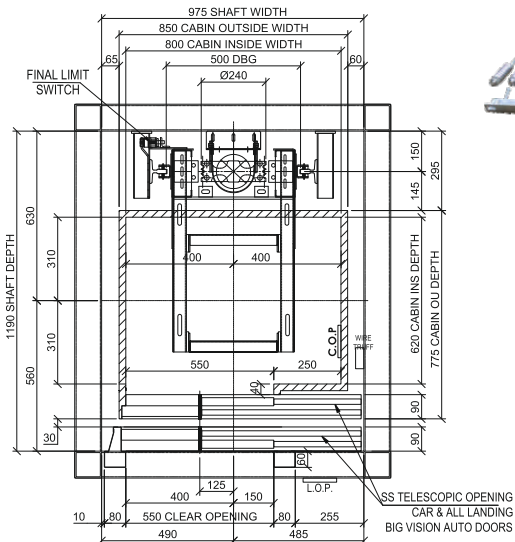
- All dimensions in min.
- These dimensions are based on vertical bi-parting doors, it may vary for collapsible or automatic door operation..



Hydraulic Drive System For Passenger, Home, Goods Automobile & Dumbwaiter Lifts

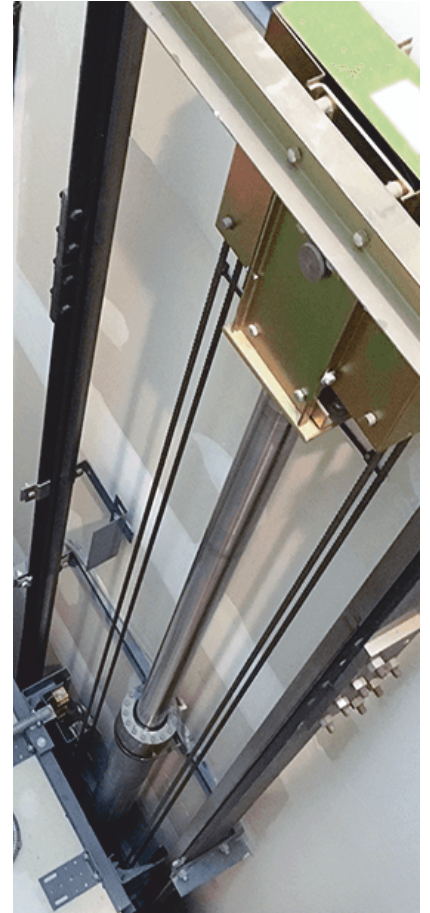


LARGE PASSENGER



LIFT ENTRANCE
CROSS SECTION PLAN OF ELEVATOR SHAFT

HOME/PASSENGER





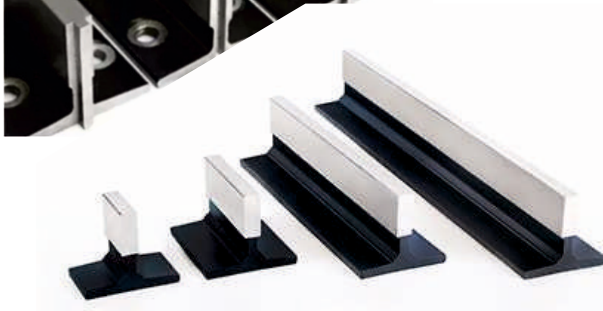
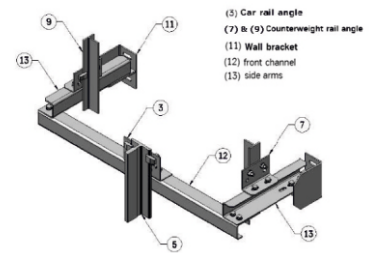
Various options are available :

Speed	0.32 mt / ps
Machine Unit	• Single Phase. • Three Phase.
Car Finish	MS Powder Coated Car. Stainless Steel Hair line Finish Car. Steel Designed & Steel Hair line Finish Car. Steel Mirror & Stainless Steel Hair line Finish Car.
Type of Door	• Manual Telescopic. • Autodoor.
Doors Finish	M.S. Powder coated S.S. Finish S.S. Gold Finish Glass Doors
Push Button	• Touch Button. • Micro Stroke Button.
Display	• Seven Segment Digital LED Display. • LCD Display. • Monochrome / Color TFT - LCD.



Guide Rail

A guide rail is a track or rail that helps guide an elevator car's operation.



It provides a path for the elevator to ascend and descend. The guide shoe is the component that comes into contact with the guide rail and the car.



Elevator Bracket

Guide rail bracket for supporting the guide rail on the building, which guide rail bracket comprises a frame, a mounting base and means for pressing the guide rail against the mounting base, wherein the guide rail bracket comprises means for fixing the mounting base to the frame of the guide rail bracket movably in the longitudinal direction of the guide rail.



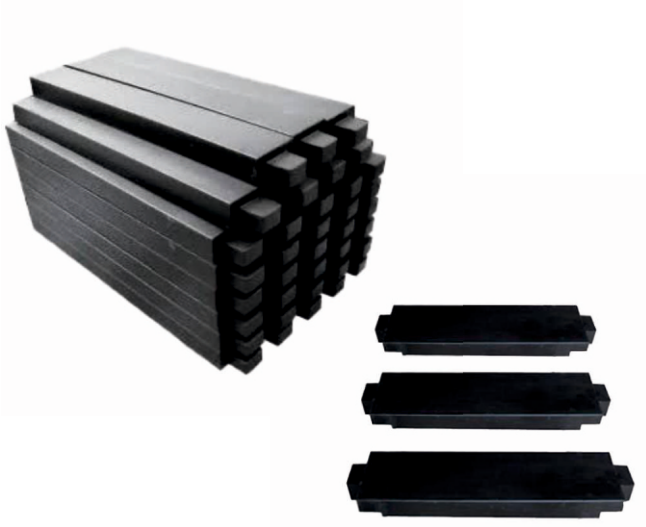
Elevator Hardware

When discussing nut and bolt sizes, it is not only important to understand the differences between inch and metric fasteners, but to also understand which measurements are essential to determining the sizes of the nuts and bolts you need for your applications.



Wire Rope

Elevator wire ropes are made of steel and other materials and are designed to be strong, flexible, and durable enough to safely lift and lower elevator cars. Here are some characteristics of elevator wire ropes.



Elevator Counter Weight

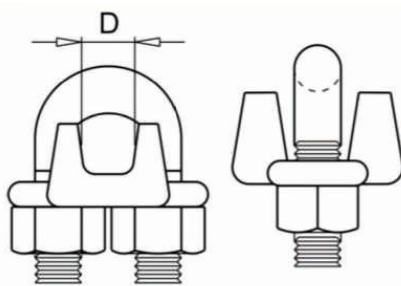
An elevator counterweight is an added weight to an elevator that balances its mechanical system. Its main purpose is to provide stability and fasten the elevator's operating system by reducing the pressure. As a result, it saves energy and provides an optimal user experience.

Counterweights are only used for traction elevator applications. A counterweight is an added weight that gives balance to the elevator system and makes it simpler to raise and lower the cab, which reduces the effort required by the lifting machine.

Thimble Eye Bolt

The thimble eye bolt is designed to connect the dead end guy grip or attach the guy wires to the pole or concrete line. It is widely used on overhead lines, electric power lines, and communication lines. There are two types of thimble eye bolts: straight thimble eye bolts and angle thimble eye bolts.





Elevator Roop Clip

A wire rope clip has three main parts: a U-bolt, a saddle, and nuts. The U-bolt fits around the wire rope, the saddle distributes the clamping force, and the nuts secure the assembly.



Elevator Diverter Pully

Elevator Diverter Pulley Set and pedestal are consist of close grain cast iron Shaft is made of alloy steel with support in high quality of brass bush to smooth running.

Grease cup are also provided to occasionally lubricate.

Diverter pulleys are mounted on the installation in order to bring the ropes to the cabin and/or to the counterweight by transmitting their motion.

Features :

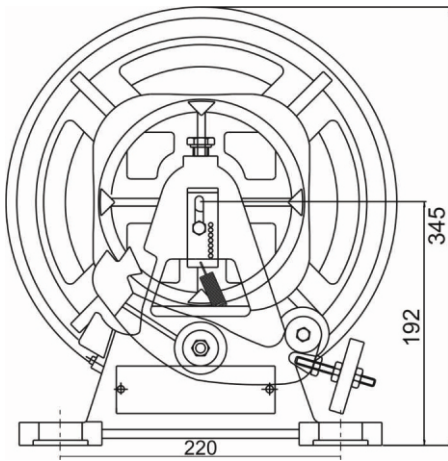
- * Excellent performance
- * Durability
- * High efficiency



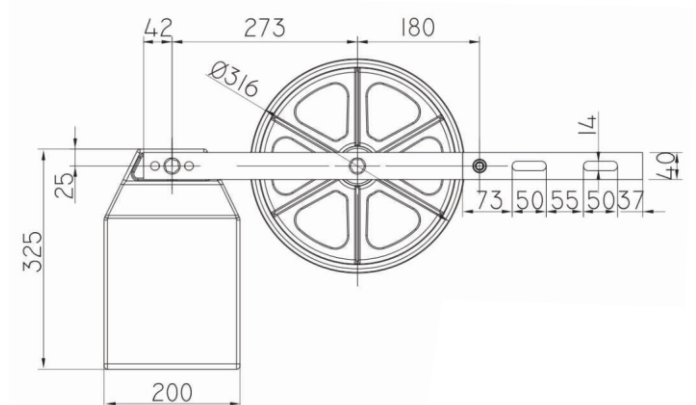
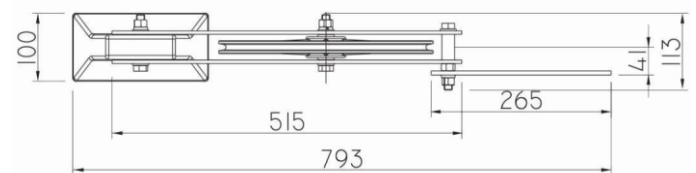
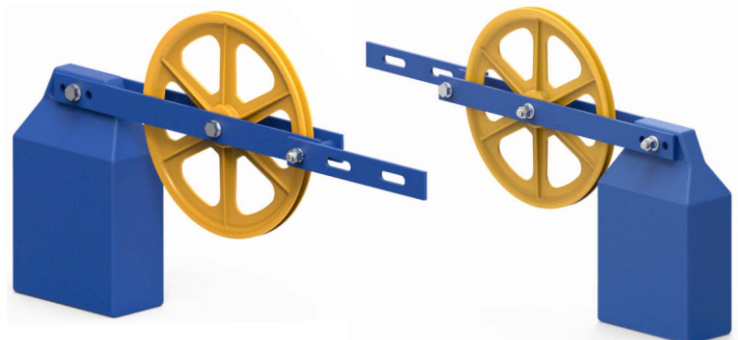


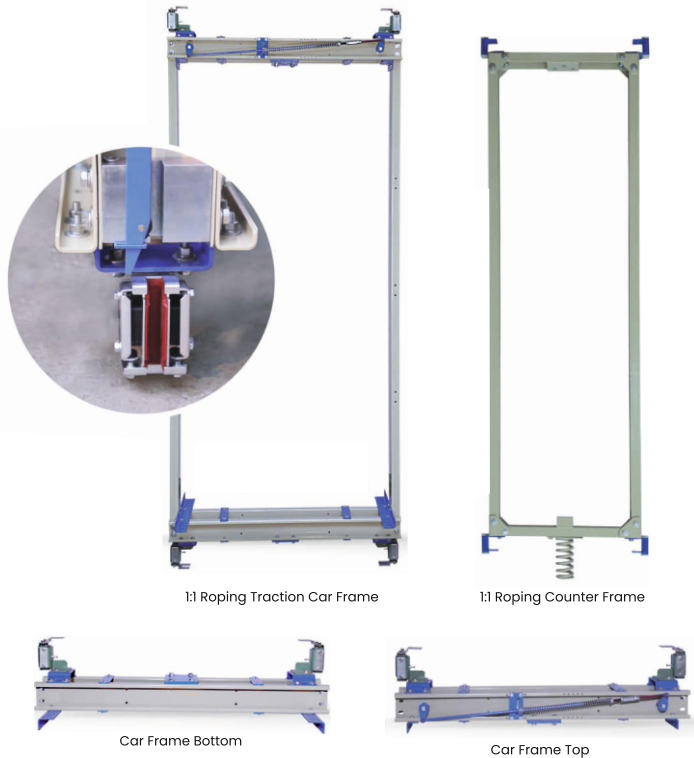
Elevator Over Speed Governor

An elevator over speed governor is a safety device that stops an elevator from moving too fast. How it works: When the elevator goes faster than its rated speed, the over speed governor locks and stops the rope, which stops the elevator. The over speed governor is a key part of the safety system for elevators.



Sheave Dia - 300mm
Action - Bi-directional
Action - Bi-directional





Traction Car Frame Set

- M.S powder coated car frame set is designed from sheet metal to give more rigidity, stability and durability to the lift.
- Made from mild steel sheet metal of 3mm, 4mm, 5mm and 6mm thickness.
- All car frame equipped with imported roller type instantaneous safety to ensure utmost safety to passenger traveling in the car.
- MR Traction car frame with back/side counter weight available in Mrlift.

General Features :

Max. Load Capacity = 680KGS (10 passengers)
 Max. Speed = 1.0 m/s
 Min. DBG = 930
 Max. DBG = 1280
 Interior Clear frame with or cabin outside ,
 DBG 80 MM

: Standard Accessories :

- Excel Type Thimbles
- Counter Guide Shoes
- Oil Cups
- Buffer Spring
- Main Guide Shoes
- Counter Grill.
- Round Plate & Rubber
- Safety Block

Application:



PASSENGER LIFT



GOODS LIFT



HOSPITAL LIFT

MR Car Frame

Single Double Pulley on Top Set

- Single / Double pulley on top with Side/Back counterweight available for MR lift.

General Features :

Max. Load Capacity = 1400KGS (20 passengers)
 Max. Speed = 0.5 m/s
 Min. DBG = 930
 Max. DBG = 1480
 Interior Clear frame with or cabin outside
 DBG 80 MM



MRL Car Frame

Double Pulley on top from back to Front side Set

- 1:1 & 2:1 Car frame parts are fixed with standard & progressive Type safety gear.
- Car Frame comes with imported guide shoes to provide smooth and silent operation of the lift and designed to ensure easy maintenance.
- Double pulleys on top from back to front side with back counterweight available for MRL Lift.
- Double pulleys on top with Side counterweight available for MR lift.

General Features :

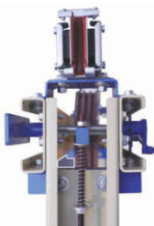
Max. Load Capacity = 1400KGS (20 passengers)
 Max. Speed = 1.0 m/s
 Min. DBG = 1180
 Max. DBG = 1480
 Interior Clear frame with or cabin outside , DBG 80 MM



2:1 Roping MRL Car Frame From Back to front Side Double Pulley



Folding 2:1 Roping Counter Frame



Car Frame Top



Car Frame Top



Car Frame Bottom

Standard Accessories :

- Pistol Type Thimble
- Counter Guide Shoes
- Rope Fixing Plate
- Pulley Cover
- Main Guide Shoes
- Counter Grill
- Buffer Spring
- Oil Cups

MR Car Frame

Single Double Pulley on Top Set

- Double pulleys on top with Side counterweight available for MR lift.

General Features :

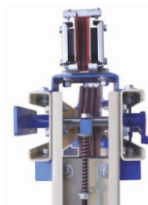
Max. Load Capacity = 1400KGS (20 passengers)
 Max. Speed = 1.0 m/s
 Min. DBG = 1180
 Max. DBG = 1480
 Interior Clear frame with or cabin outside , DBG 80 MM



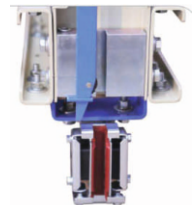
2:1 Roping MRL Car Frame Double Pulley on Top



Folding 2:1 Roping Counter Frame



Car Frame Top



Car Frame Bottom



MRL Car Frame Bottom Pulley Set

- M.S powder coated car frame set is designed from sheet metal to give more rigidity, stability and durability to the lift.
- Made from mild steel sheet metal of 3mm, 4mm, 5mm and 6mm thickness.
- All car frame equipped with imported roller type instantaneous safety to ensure utmost safety to passenger traveling in the car.
- Double pulleys come at bottom in position to Car Guide centre to sheave centre with side counter weight available in MRL Lift.

General Features :

Max. Load Capacity = 1400KGS (20 passengers)
 Max. Speed = 1.0 m/s
 Min. DBG = 1180
 Max. DBG = 1480
 Interior Clear frame with or cabin outside ,
 DBG 80 MM

: Standard Accessories :

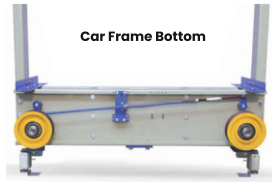
- Pistol Type Thimble
- Counter Guide Shoes
- Rope Fixing Plate
- Pulley Cover
- Main Guide Shoes
- Counter Grill
- Buffer Spring
- Oil Cups



Folding 2:1 Roping Counter Frame



Car Frame Bottom



Car Frame Bottom



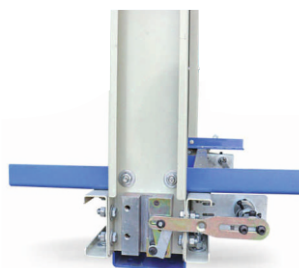
Car Frame Top

Car Frame Bottom Clutch

- Mechanism is combined with imported roller type instantaneous safety block and friction element.
- When the tripping speed of the overspeed governor is reached during downward drive, safety gear is engaged.
- Safety gear is acting in upward direction and suitable to low-midrise applications.



Car Frame Bottom Clutch



Car Frame Bottom Clutch

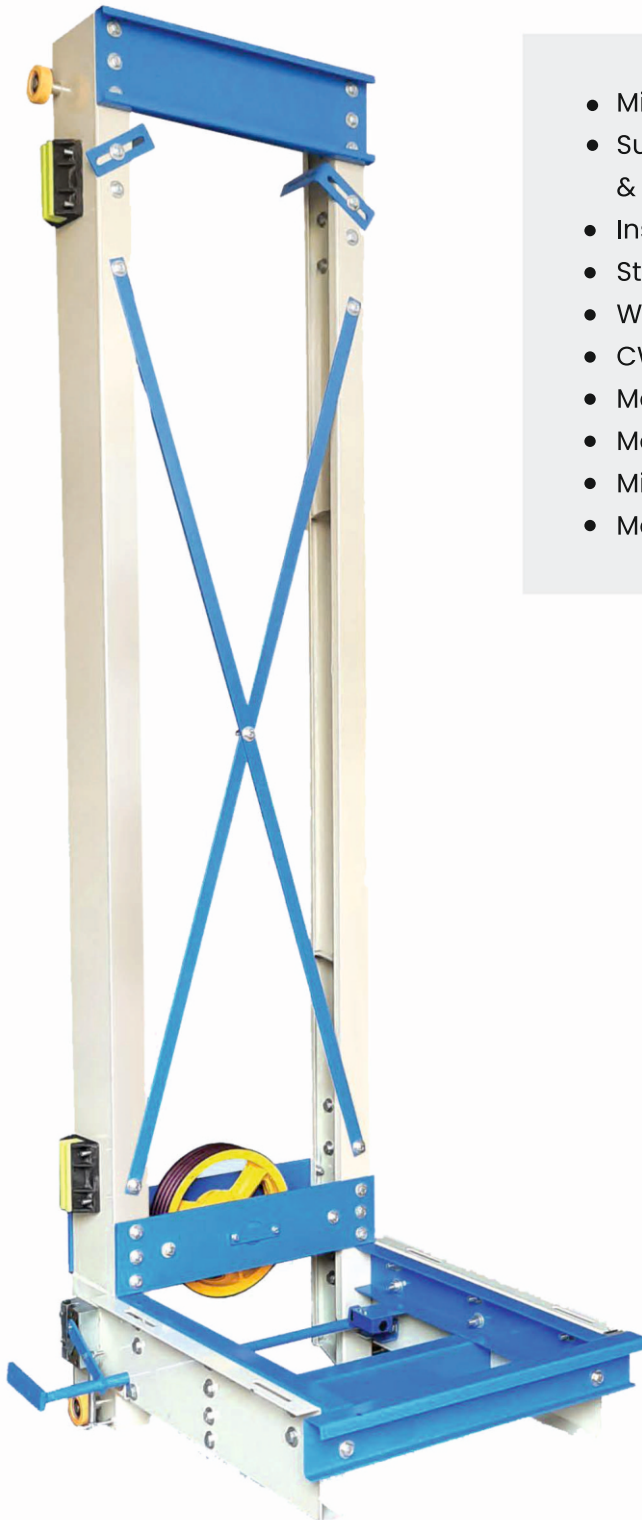


Extra Platform Frame with Side Support

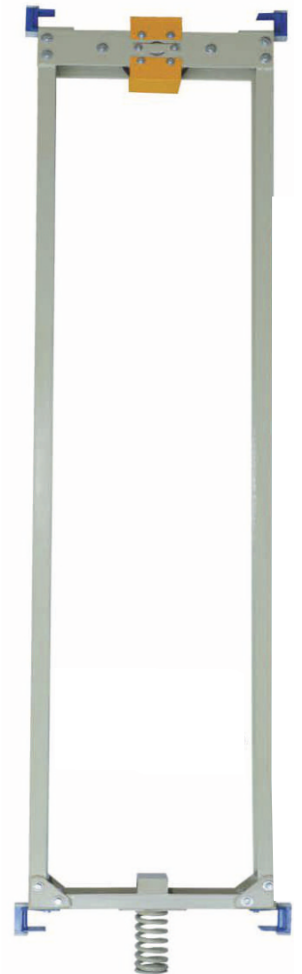
- Produced from mild steel sheet-metal to avoid unnecessary vibration, jerk and to give more rigidity, stability and strength for the cabin.
- Made from 4mm & 5mm Sheet-metal and powder coated.

Cantilever Car Frame Set

- Minimum pit of 400mm
- Suitable to machine sheaves of 160mm, 200mm, & 320mm
- Installation for minimum 1100mm shaft width & depth.
- Standard overhead 3000mm
- Wall to CWT Guide 95mm to 110mm
- CWT guide to Car guide-160mm to 320mm
- Max. Load capacity 680kgs (10 Passengers)
- Max. Speed 1.0m's
- Min. DBG 700
- Max, DRG 1000



Cantilever Guide Shoe



2:1 Roping Counter Frame

: Standard Accessories :

- Pistol Type Thimble
- Counter Guide Shoes
- Rope Fixing Plate
- Buffer Spring
- Main Guide Shoes

Gearless Machine



Green Integrated Engineering

A combination of latest technology and engineering. It's an energy-efficient machine, consumes less power, and requires less space for installation.



Save Energy



Low Noise



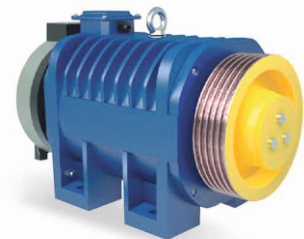
Comfortable



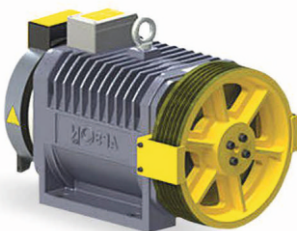
Gearless Machine



Gearless Machine



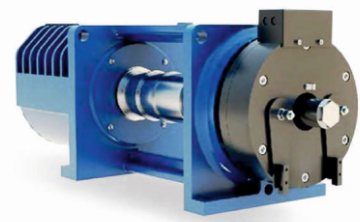
Gearless Machine



Gearless Machine



Gearless Traction Machine



Belt Drive Machine

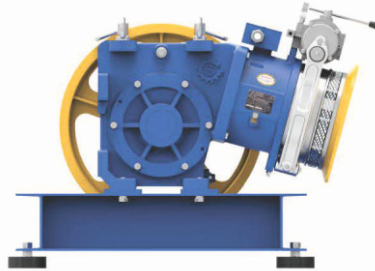


Geared Machine

Outstanding **Power**
and **Performance**



Geared Traction Machine



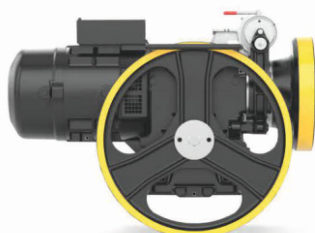
Geared Traction Machine



Geared Traction Machine

Lift Duty Reduction Gear Machine Units

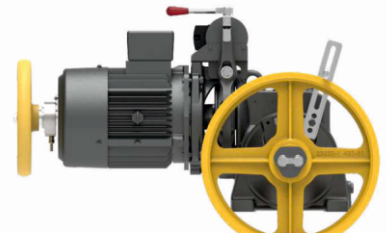
Machines are specially designed for various application such as speed and capacity with rigid & rugged reliability, smooth trouble free operation. Use standard worm and worm gears with taper roller bearings and thrust bearing in machine for maximum load carrying capacity. The perfect lubrication system gives longer life and smooth operation. The machine are mounted on special type of rubbers which have extra ordinary damping capacity, due to this characteristic, the machine runs vibration free.



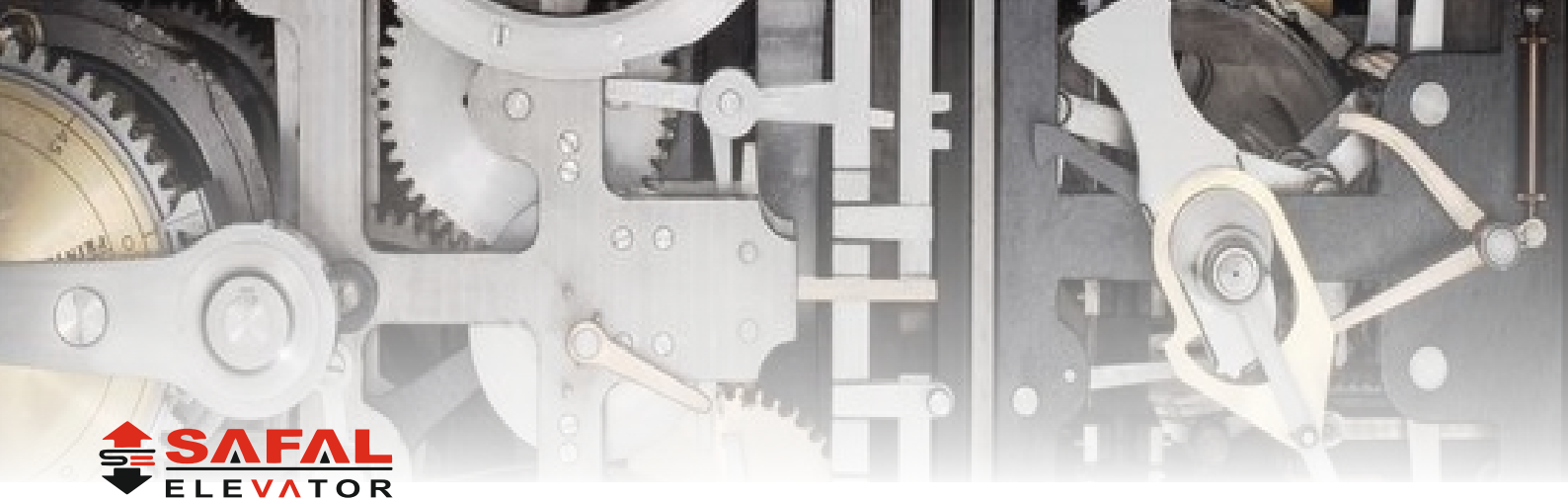
Geared Traction Machine



Geared Traction Machine

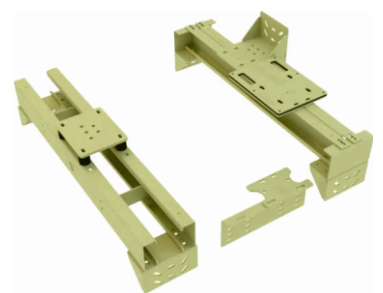
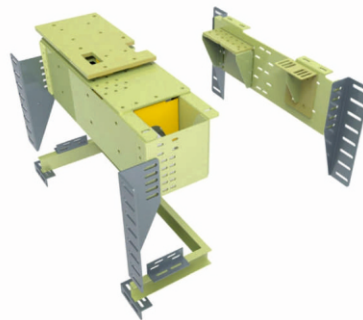
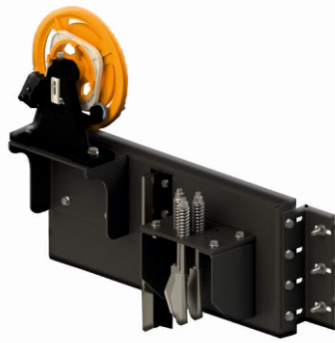
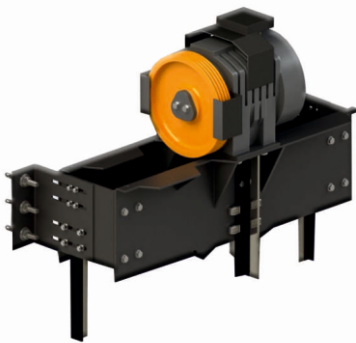


Geared Traction Machine



Elevator Machine base

- Easy to Install
- No grouting required
- No fabrication required





RISING WITH CONFIDENCE



Small Vision

S.S Center Opening Autodoor - 2 Panel

SR No	Clear Opening (W x H) (mm)	Car Door						Landing Door					
		Door Width (mm)	Door Height (mm)	Sill (mm)	Vision Size (mm)	Total Width Header (mm)	Total Height Header (mm)	Door Width (mm)	Door Height (mm)	Sill (mm)	Vision Size (mm)	Total Width Header (mm)	Total Height Header (mm)
1	600x2000	320	2100	55x1250	100x295	1300	2520	320	2010	55x1250	100x295	1350	2265
2	700x2000	370	2100	55x1450	100x295	1460	2520	370	2010	55x1450	100x295	1490	2265
3	800x2000	420	2100	55x1650	100x295	1660	2520	420	2010	55x1650	100x295	1690	2265
4	900x2000	470	2100	55x1850	100x295	1860	2520	470	2010	55x1850	100x295	1890	2265
5	1000x2000	520	2100	55x2050	100x295	2060	2520	520	2010	55x2050	100x295	2090	2265



Half Glass Vision

S.S Center Opening Autodoor - 2 Panel

SR No	Clear Opening (W x H) (mm)	Car Door						Landing Door					
		Door Width (mm)	Door Height (mm)	Sill (mm)	Vision Size (mm)	Total Width Header (mm)	Total Height Header (mm)	Door Width (mm)	Door Height (mm)	Sill (mm)	Vision Size (mm)	Total Width Header (mm)	Total Height Header (mm)
1	600x2000	320	2100	55x1250	200x950	1300	2520	320	2010	55x1250	200x950	1350	2265
2	700x2000	370	2100	55x1450	250x950	1460	2520	370	2010	55x1450	250x950	1490	2265
3	800x2000	420	2100	55x1650	300x950	1660	2520	420	2010	55x1650	300x950	1690	2265
4	900x2000	470	2100	55x1850	350x950	1860	2520	470	2010	55x1850	350x950	1890	2265
5	1000x2000	520	2100	55x2050	400x950	2060	2520	520	2010	55x2050	400x950	2090	2265



Big Glass Vision

S.S Center Opening Autodoor - 2 Panel

SR No	Clear Opening (W x H) (mm)	Car Door						Landing Door					
		Door Width (mm)	Door Height (mm)	Sill (mm)	Vision Size (mm)	Total Width Header (mm)	Total Height Header (mm)	Door Width (mm)	Door Height (mm)	Sill (mm)	Vision Size (mm)	Total Width Header (mm)	Total Height Header (mm)
1	600x2000	320	2100	55x1250	200x1755	1300	2520	320	2010	55x1250	200x1755	1350	2265
2	700x2000	370	2100	55x1450	250x1755	1460	2520	370	2010	55x1450	250x1755	1490	2265
3	800x2000	420	2100	55x1650	300x1755	1660	2520	420	2010	55x1650	300x1755	1690	2265
4	900x2000	470	2100	55x1850	350x1755	1860	2520	470	2010	55x1850	350x1755	1890	2265
5	1000x2000	520	2100	55x2050	400x1755	2060	2520	520	2010	55x2050	400x1755	2090	2265

Telescopic Autodoor

Small Vision

S.S Telescopic Autodoor – 2 Panel

SR No	Clear Opening (W x H) (mm)	Car Door						Landing Door					
		Door Width (mm)	Door Height (mm)	Sill (mm)	Vision Size (mm)	Total Width Header (mm)	Total Height Header (mm)	Door Width (mm)	Door Height (mm)	Sill (mm)	Vision Size (mm)	Total Width Header (mm)	Total Height Header (mm)
1	600x2000	320	2100	90x940	100x295	1030	2580	320	2100	90x940	100x295	1000	2295
2	700x2000	370	2100	90x1090	100x295	1180	2580	370	2100	90x1090	100x295	1180	2295
3	800x2000	420	2100	90x1240	100x295	1330	2580	420	2100	90x1240	100x295	1300	2295
4	900x2000	470	2100	90x1390	100x295	1480	2580	470	2100	90x1390	100x295	1450	2295
5	1000x2000	520	2100	90x1540	100x295	1580	2580	520	2100	90x1540	100x295	1550	2295



Half Glass Vision

S.S Telescopic Autodoor – 2 Panel

SR No	Clear Opening (W x H) (mm)	Car Door						Landing Door					
		Door Width (mm)	Door Height (mm)	Sill (mm)	Vision Size (mm)	Total Width Header (mm)	Total Height Header (mm)	Door Width (mm)	Door Height (mm)	Sill (mm)	Vision Size (mm)	Total Width Header (mm)	Total Height Header (mm)
1	600x2000	320	2100	90x940	200x950	1030	2580	320	2100	90x940	200x950	1000	2295
2	700x2000	370	2100	90x1090	250x950	1180	2580	370	2100	90x1090	250x950	1180	2295
3	800x2000	420	2100	90x1240	300x950	1330	2580	420	2100	90x1240	300x950	1300	2295
4	900x2000	470	2100	90x1390	350x950	1480	2580	470	2100	90x1390	350x950	1450	2295
5	1000x2000	520	2100	90x1540	400x950	1580	2580	520	2100	90x1540	400x950	1550	2295

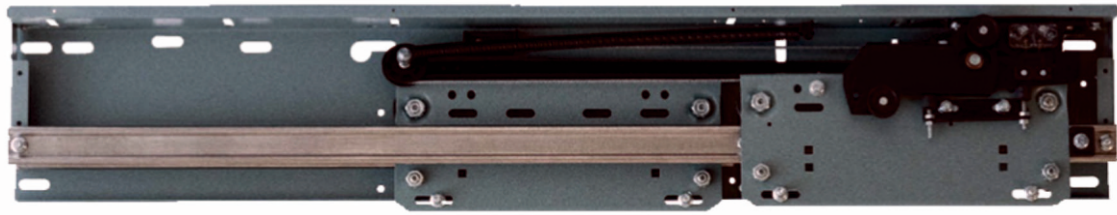


Big Glass Vision

S.S Telescopic Autodoor – 2 Panel

SR No	Clear Opening (W x H) (mm)	Car Door						Landing Door					
		Door Width (mm)	Door Height (mm)	Sill (mm)	Vision Size (mm)	Total Width Header (mm)	Total Height Header (mm)	Door Width (mm)	Door Height (mm)	Sill (mm)	Vision Size (mm)	Total Width Header (mm)	Total Height Header (mm)
1	600x2000	320	2100	90x940	200x1755	1030	2580	320	2100	90x940	200x1755	1000	2295
2	700x2000	370	2100	90x1090	250x1755	1180	2580	370	2100	90x1090	250x1755	1180	2295
3	800x2000	420	2100	90x1240	300x1755	1330	2580	420	2100	90x1240	300x1755	1300	2295
4	900x2000	470	2100	90x1390	350x1755	1480	2580	470	2100	90x1390	350x1755	1450	2295
5	1000x2000	520	2100	90x1540	400x1755	1580	2580	520	2100	90x1540	400x1755	1550	2295





Manual Telescopic header

2 Panel

Manual Telescopic Door (M.S. Powder Coated)

SR No	Clear Opening (W x H) (mm)	Car Door					Landing Door				
		P1/P2 Width (mm)	Door Height (mm)	Sill (mm)	Vision Size (mm)	Total Height With Header (mm)	P1/P2 Width (mm)	Door Height (mm)	Vision Size (mm)	Sill (mm)	Total Height Header (mm)
1	600x2000	370/320	2005	115x1050	110x770	2290	370/320	2005	110x770	115x1050	2290
2	700x2000	420/370	2005	115x1200	110x770	2290	420/370	2005	110x750	115x1200	2290
3	800x2000	470/420	2005	115x1350	110x770	2290	470/420	2005	110x750	115x1350	2290
4	900x2000	520/470	2005	115x1500	110x770	2290	520/470	2005	110x750	115x1500	2290
5	1000x2000	570/520	2005	115x1650	110x770	2290	570/520	2005	110x750	115x1650	2290
6	1200x2000	670/620	2005	115x1950	110x770	2290	670/620	2005	110x750	115x1950	2290

3 Panel

Manual Telescopic Door (M.S. Powder Coated)

SR No	Clear Opening (W x H) (mm)	Car Door					Landing Door				
		P1/P2/P3 Width (mm)	Door Height (mm)	Sill (mm)	Vision Size (mm)	Total Height With Header (mm)	P1/P2/P3 Width (mm)	Door Height (mm)	Vision Size (mm)	Sill (mm)	Total Height With Header (mm)
1	600x2000	270/220/220	2005	125x950	110x770	2315	270/220/220	2005	110x770	125x950	2315
2	700x2000	303/253/253	2005	125x1075	110x770	2315	303/253/253	2005	110x750	125x1075	2315
3	800x2000	337/287/287	2005	125x1200	110x770	2315	337/287/287	2005	110x750	125x1200	2315
4	900x2000	370/320/320	2005	125x1325	110x770	2315	370/320/320	2005	110x750	125x1325	2315
5	1000x2000	403/353/353	2005	125x1450	110x770	2315	403/353/353	2005	110x750	125x1450	2315
6	1200x2000	470/420/420	2005	125x1700	110x770	2315	470/420/420	2005	110x750	125x1700	2315

Manual IFG Collapsible & swing Door

IFG Door

Manual Imperforate Door

SR No	Clear Opening (W x H) (mm)	Car Door					Landing Door				
		Door Width (mm)	Door Height (mm)	Sill (mm)	Total Height With Frame (mm)	Total Height With Frame (mm)	Door Width (mm)	Door Height (mm)	Sill (mm)	Total Height With Frame (mm)	Total Height With Frame (mm)
1	690x2000	220	2085	95x910	1110	2240	220	2085	95x910	1110	2240
2	855x2000	245	2085	95x1100	1300	2240	245	2085	95x1100	1300	2240
3	930x2000	270	2085	95x1200	1400	2240	270	2085	95x1200	1400	2240
4	1005x2000	295	2085	95x1300	1500	2240	295	2085	95x1300	1500	2240



Collapsible Door

Manual Collapsible Door

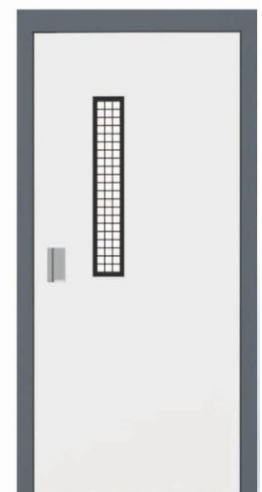
SR No	Clear Opening (W x H) (mm)	Car Door					Landing Door				
		Door Width (mm)	Door Height (mm)	Sill (mm)	Total Height With Frame (mm)	Total Height With Frame (mm)	Door Width (mm)	Door Height (mm)	Sill (mm)	Total Height With Frame (mm)	Total Height With Frame (mm)
1	700x2000	210	2150	95x910	1010	2240	210	2150	95x910	1010	2240
2	800x2000	250	2150	95x1050	1150	2240	250	2150	95x1100	1150	2240
3	900x2000	300	2150	95x1200	1300	2240	300	2150	95x1200	1300	2240
4	1000x2000	350	2150	95x1350	1450	2240	350	2150	95x1300	1450	2240



Swing Door

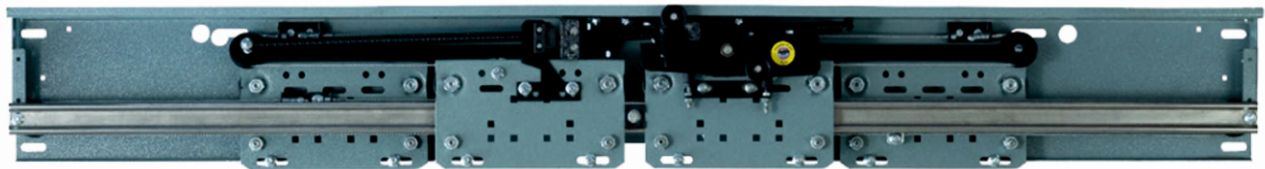
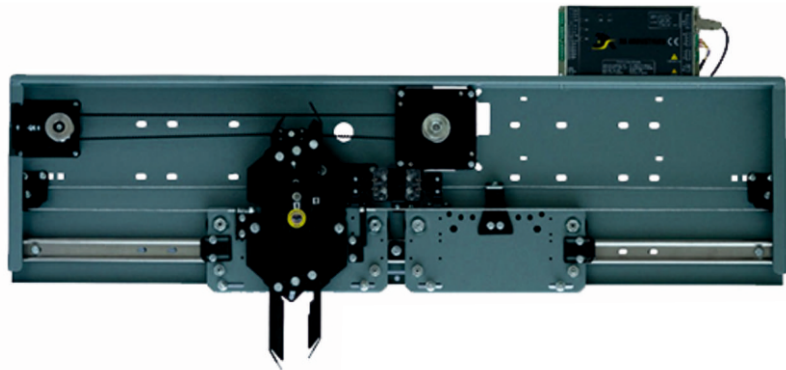
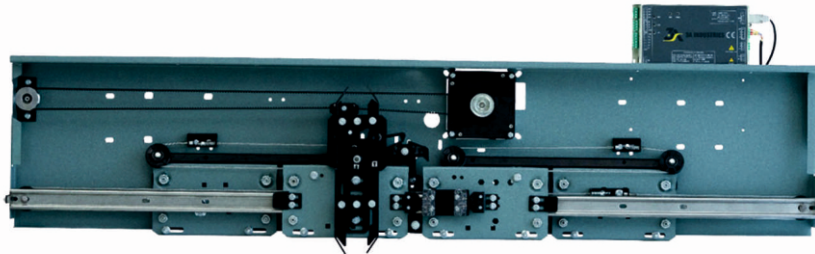
Normal Offset Glass Swing Door

SR No	Clear Opening (W x H) (mm)	Car Door				Landing Door			
		Door Width (mm)	Vision Size (W x H) (mm)	Total Height With Frame (mm)	Total Height With Frame (mm)	Door Width (mm)	Vision Size (W x H) (mm)	Total Height With Frame (mm)	Total Height With Frame (mm)
1	700x2000	830	110x730	980	2100	830	110x730	980	2100
2	800x2000	930	110x730	1080	2100	930	110x730	1080	2100
3	900x2000	1030	110x730	1180	2100	1030	110x730	1180	2100





Center Opening Elevator Header



GENERAL FEATURES

Noise level	< 50 dB.
Total weight	Reference: T2 PL 800 mm HL 2.000 mm, with sheet metal panels - 62 kg.
Maximum moving mass	360 kg.
Locking device	Car door lock.

Telescopic Elevator Header

Technical Features

DRIVE

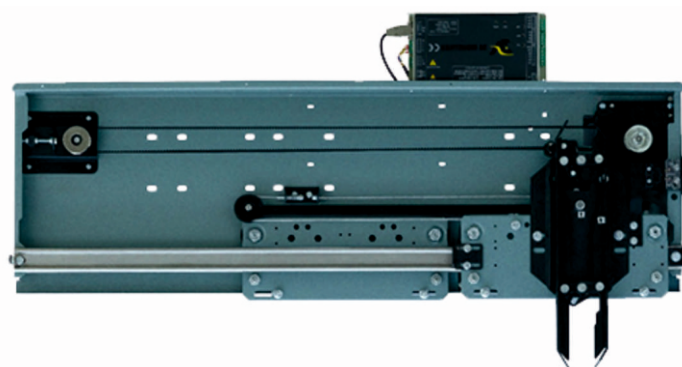


Type	Synchronous brushless permanent magnets motor.		
Efficiency	80%.		
Consumptions	Standby 4 W / Average per cycle 20 W.		
Transmission	Gearless ⁽⁸⁾ .	C2, C4, T3 PL 600 - 1.400 mm.	HTD 5M belt.
		T2 PL 600 - 1.400 mm.	

(8) Geared antibanging system available.

GENERAL FEATURES

Noise level	< 53 dB.
Total weight	Reference: T2 PL 600 mm HL 2.400 mm 120 x 60 mm frame, with sheet metal panels - 74 kg.
Safety closing system	With spring, except T1 with counterweight.



DOOR HOISTWAY PROJECTION (DHP) - FIXING BRACKETS: HEADER 80,100 OR 120 mm

DHP type	C2			C4			C6			C8			T1			T2			T3			T4		
	DHP ⁽⁸⁾ (mm)	Bracket U L		DHP ⁽⁸⁾ (mm)	Bracket U L		DHP ⁽⁸⁾ (mm)	Bracket U L		DHP ⁽⁸⁾ (mm)	Bracket U L		DHP ⁽⁸⁾ (mm)	Bracket U L		DHP ⁽⁸⁾ (mm)	Bracket U L		DHP ⁽⁸⁾ (mm)	Bracket U L		DHP ⁽⁸⁾ (mm)	Bracket U L	
1	0 - 54	X	A	0 - 37,5	X	A	0 - 32,5	D		0 - 40	D		0 - 54	X	A	0 - 37,5	X	A	0 - 32,5	D		0 - 40	D	
2a	55 - 63	A	W	37,6 - 100	W		32,6 - 125	D		41 - 125	D		55 - 63	W		37,6 - 100	W		32,6 - 125	D		41 - 125	D	
2b	64 - 90	W		101 - 125	D		126 - 175	V2		126 - 200	V2		64 - 90	D		101 - 125	D		126 - 175	V2		126 - 200	V2	
3	91 - 124	D		126 - 150	V2		176 - 195	V7		201 - 240	V7		91 - 124	V2		126 - 150	V2		176 - 195	V7		201 - 240	V7	

Bracket type	A	D	V2	V7	V8	X	W
Thickness (mm)	5	5	4	4	4	5	5

(8) See DHP dimension in sill detail (technical drawings pages).

Ceiling

SE-C1



SE-C2



SE-C3



SE-C4



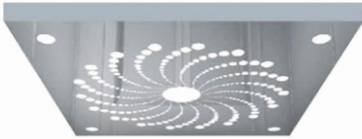
SE-C5



SE-C6



SE-C7



SE-C8



SE-C9



SE-C10



Handrails

SE-H1



SE-H2



SE-H3



SE-H4



SE-H5



SE-H6

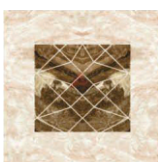


Flooring Carpet Design & Tiles

PVC
Flooring-01



PVC
Flooring-02



PVC
Flooring-03



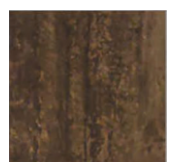
PVC
Flooring-04



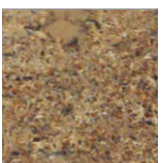
PVC
Flooring-05



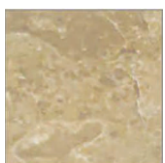
Marble
Flooring-01



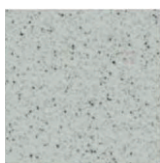
Marble
Flooring-02



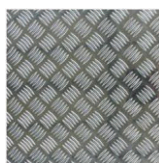
Marble
Flooring -03



PVC Flooring
Mat-Grey



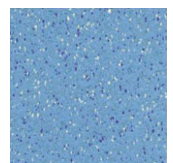
Aluminum
Cheker Plate



M.S. Checker
Plate



PVC Flooring
Mat-Blue

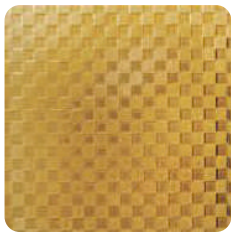
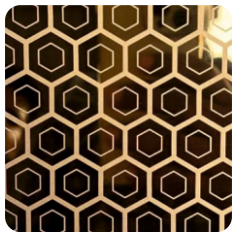


Car Design Example



Create the look and feel you like. Combine colors, materials, lighting, mirrors, handrails and fixtures to achieve the ambiance that fits both your ideas and your building.

Choose from one of our four interior design lines or design the whole car to your own taste.





Car Design Example

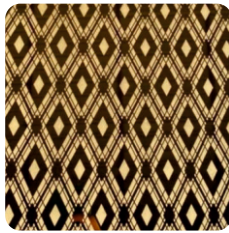
Create the look and feel you like. Combine colors, materials, lighting, mirrors, handrails and fixtures to achieve the ambiance that fits both your ideas and your building.

Choose from one of our four interior design lines or design the whole car to your own taste.

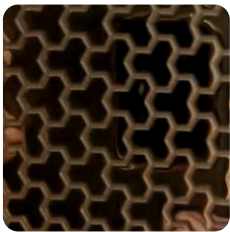
Golden Designer Sheet



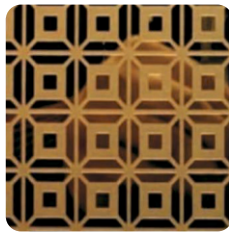
SE-600 GOLD



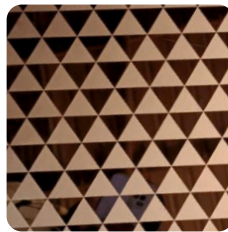
SE-700 GOLD



SE-800 GOLD



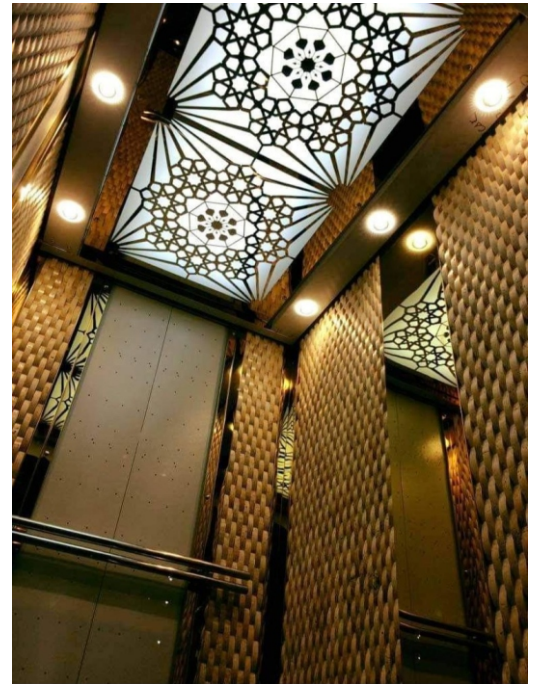
SE-900 GOLD



SE-1000 GOLD

SE-05

Ceiling : M.S Powder Coated, S.S. Hairline Finish, LED Lights.
Car Wall : M.S Powder Coated, S.S. Hairline, Mirror.
Handrail : S.S. Round Handle



SE-06

Ceiling : S.S. Hairline, LED Light.
Car Wall : S.S. Hairline, S.S. Mirror.
Handrail : S.S. Handle



SE-07

Ceiling : S.S. Mirror, LED Light.
Car Wall : S.S. Mirror, S.S. Silver Design Sheet.
Handrail : S.S. Handle



SE-08

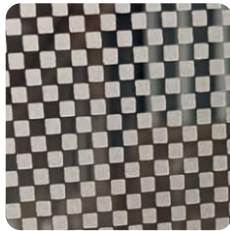
Ceiling : S.S. Hairline, Acrylic on Top, LED Lights.
Car Wall : S.S. Mirror, S.S. Silver Design and S.S. Hairline.
Handrail : S.S. Handle





Designs Lines, Colors & Materials. Designs That Speaks to Your Senses.

Silver Designer Sheet



SE-300 SILVER



SE-400 SILVER



SE-500 SILVER



SE-600 SILVER



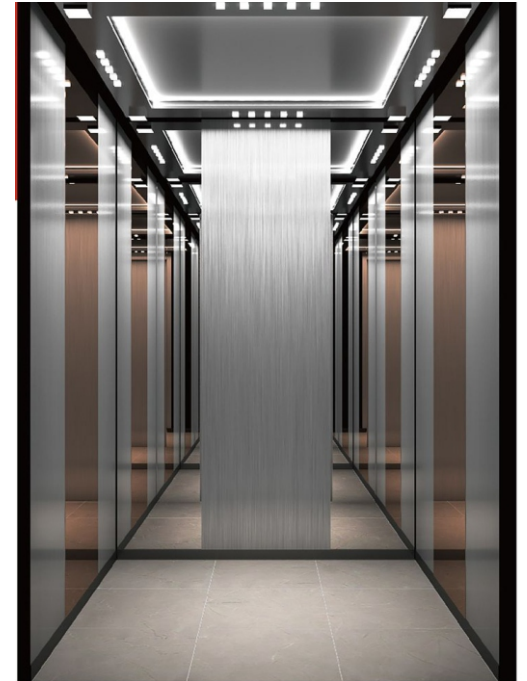
SE-700 SILVER

SE-09

Ceiling : S.S. Hairline, Acrylic on Tap, LED Lights.

Car Wall : S.S. Mirror, S.S. Silver Design and S.S. Hairline.

Handrail : S.S. Handle



SE-10

Ceiling : M.S Powder Coated, LED Light.

Car Wall : M.S Powder Coated.

Handrail : S.S. Handle



SE-11

Ceiling : S.S. Hairline, Acrylic on Tap, LED Lights.

Car Wall : S.S. Mirror, S.S. Silver Design and S.S. Hairline.

Handrail : S.S. Handle

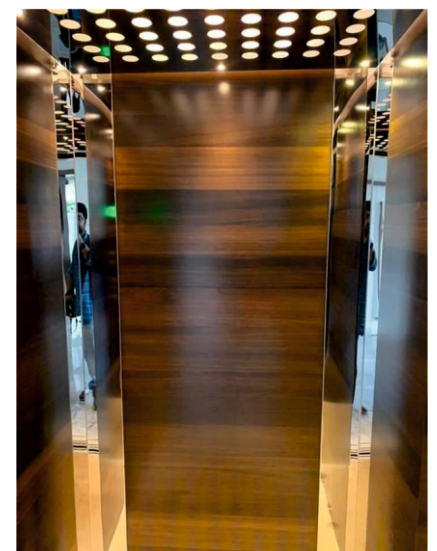


SE-12

Ceiling : S.S. Hairline, Acrylic on Tap, LED Lights.

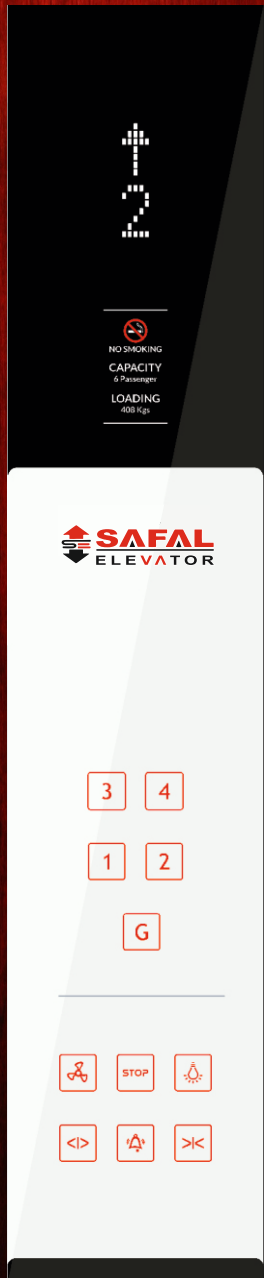
Car Wall : S.S. Mirror, S.S. Silver Design and S.S. Hairline.

Handrail : S.S. Handle

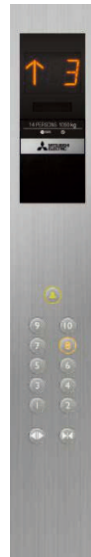


Cop & Lop

Car Operating Panel & Landing Operating Panel



SE COP - 01



SE LOP - 01



SE COP - 02



SE LOP - 02



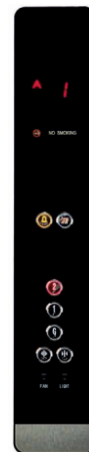
SE COP - 03



SE LOP - 03



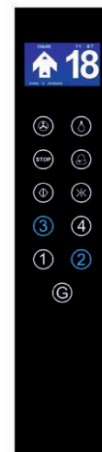
SE COP - 04



SE LOP - 04



SE COP - 05



SE LOP - 05



RFID & Push Talk



Digital Display

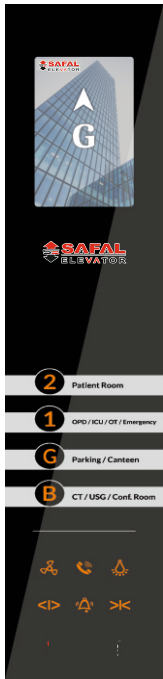




SAFAL ELEVATORS features a wide variety of operating panels for lifts with great flexibility in special construction.

Elegant Design. Easy to Operate, AN Invitation to Passenger Control.

SE COP - 06



SE LOP - 06



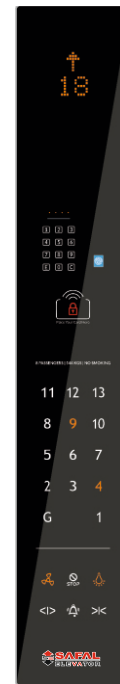
SE COP - 07



SE LOP - 07



SE COP - 08



SE LOP - 08



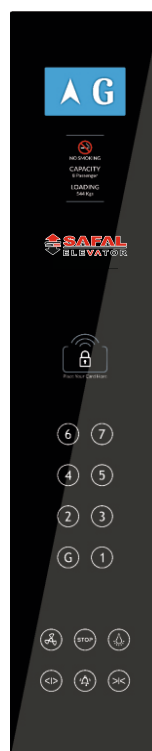
SE COP - 09



SE LOP - 09



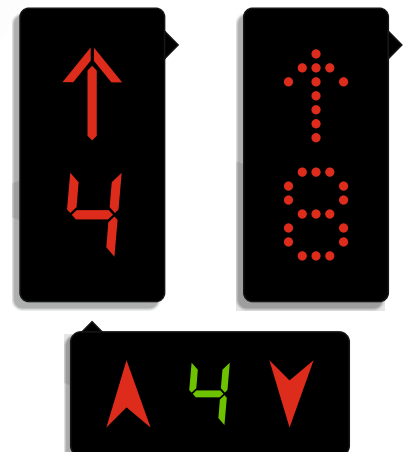
SE COP - 10



SE LOP - 10



Push Button



Controller

The Safe and More Energy-Saving Integrated Control

Energy- efficient and simple to use: our panels put you in control over you releuator systems.

SAFAL ELEVATORS has been installing and servicing elevators for more than a decade. SAFAL ELEVATORS bring Millennium most advanced energy saving VVVF elevator system with highly sophisticated Microprocessor based Pulse Width Modulation (PWM) technology. SAFAL ELEVATORS complete integrated VVVF control system ensures best return of cost.



Uninterrupted Power System



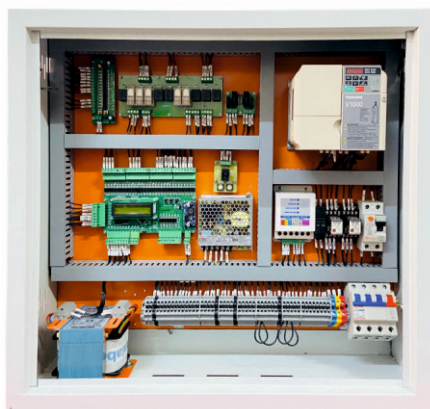
Automatic Rescue Device



MR Gearless Parallel Monoblock Elevator Controller Panel



Integrated Drive



Elevator Geared Controller



Elevator Geared Controller



Monarch Integrated Controller



Goods Lift Controler



Hydraulic Controller

A simple and cost effective Integrated Solution for elevators to 1.5 m/s Simplex and Duplex applications with closed loop geared and gearless PM machines 16 floors full collective using low cost conventional parallel wiring

- Conventional parallel wiring 16-Floors Full Collective Mode
- Duplex onboard group control
- Design for high ambient temperature
- In-Built Dynamic Braking Unit
- Enhanced reliability with conformal coating.
- protection against humidity and pollution dust
- Wide operating voltage range 323 to 528 Vac
- Selectable Door Control Mode
- Double digits 7-Segment display
- Flexible programmable 1/0 connection



Close Loop Integrated Control Panel

NICE 1000+ NXT GEN



- Design for high ambient temperature 45C average.
- Flexible Programmable 110 connection with "Robust Relay for Outputs"
- Enhanced reliability with coating.
- protection against pollutm dust
- Double digits 7- Segment display
- Wide operating voltage range 12V/24V
- Selectable Door Control Mode

NICE 100+

Economic Integrated Solution for Open Loop Geared Elevator.



Open Loop Integrated Control Panel



Pencil Reed



Inspection Box



Autodoor Sensor



Hooter Box Set



Final Limit Switch
Honey Well N0+NC - 01



Final Limit Switch
N0+NC - 02



Pit Switch



S.S. Fire Man Switch



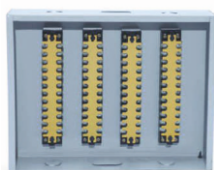
M.S. Fireman Switch



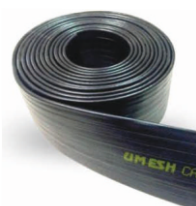
Door Announcer



Junction Box 3 TP



Junction Box 4 TP



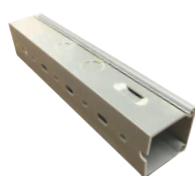
Flat Travelling Cable



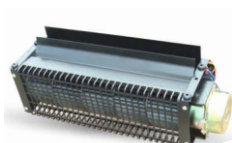
Wire Bundle



Round Ribbon Wire



PVC Truffing



Cabin Blower Fan



Round Fan



Square Cabin Light



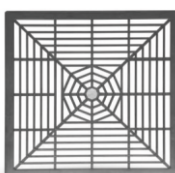
Cabin Spot Light



Square megnet



Round Fan Grill



Square Fan Grill



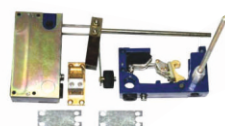
Cabin Blower Grill



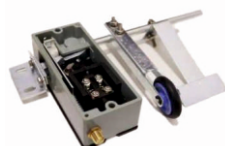
Oil Colector



Safety Switch



Otis Type Lock



XL Type Gate Lock



BBL Type Gate Lock



Electric Magnet
Swing door lock



Cargot Switch



Otis Type RCR



Haydraulic Type RCR



Bulldog Clip



Buffer Spring



Hydraulic Buffer Spring



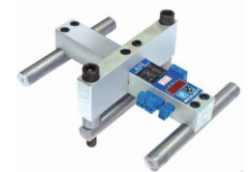
Rubber Buffer Spring



R Cam Set Excel Type



Flat Cable Hanger



Overload Sensor



J Bolt Pata Set



Door Drive: VF5+



E Packing and C Packing



Rope U Thimble



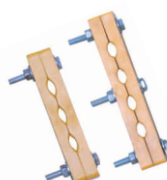
Platform Rubber



Safety Round Plate Rubber



Machine Rubber



Rope Clamp



Rubber Type Heavy Sturdy Angle



Reed Switch



Track Roller



Car Eccentric Roller



Car Rope Roller



Belt Lock 2 Screw



Belt M5-Eagle



Door Shoe Heavy



Door Shoe Butterfly



D-Lock



Auto Door Key



Contact Switch U-Type



Modern Escalator Passenger Conveyor

Technology leads
Market service



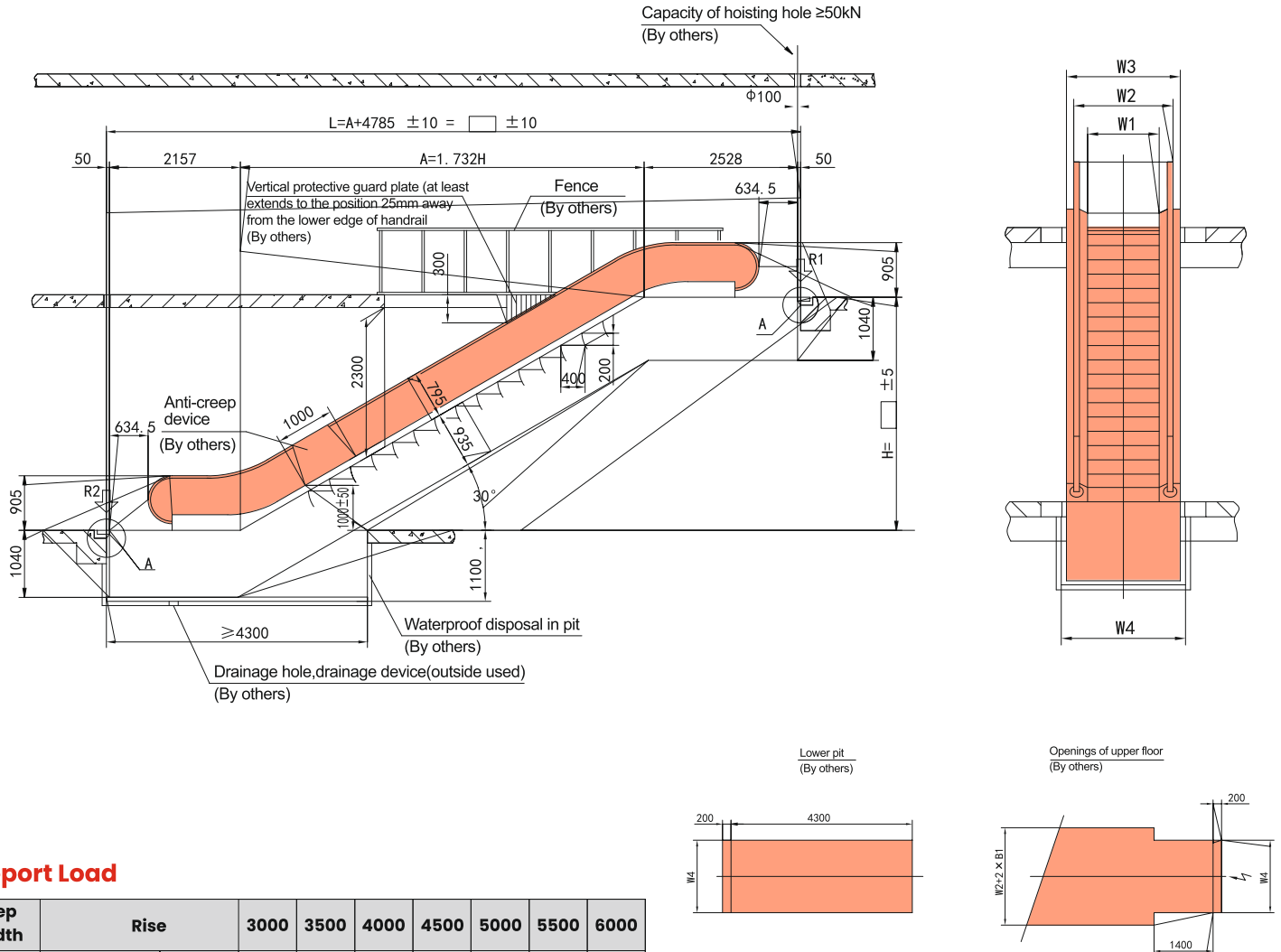
PRODUCT SPECIFICATION AND ITS RELATIVE COMPONENTS

Specification	
Rise	3-6m
Angle of Inclination	30°/ 35°
Step Width	600/800/1000mm
Rated Speed	0.5m/s
Horizontal Steps	2
Theoretical Capacity	3600/4800/6000(Person/hour)
Power Supply	50Hz AC three-phase 380V Single-phase 220V; or according to regional requirements
Traction Machine	Three-phase AC motor
Control Mode	MPK 108
Start Running Mode	Star Delta Start; Optional VVVF photoelectric detection start
Balustrade Panel	10mm thick tempered safety glass; Optional vertical hairline stainless steel
Handrail Bracket	Carbon steel spraying; Optional hairline stainless steel; Optional anodized aluminum alloy
Handrail	Black synthetic rubber; Other colors available
Interior & Exterior Cover Plate	Hairline stainless steel
Skirting	Hairline stainless steel; Optional black or green teflon-coated steel plate
Handrail Lighting	Optional
Skirting Lighting	Optional
Comb Lighting	Optional
Step	Stainless steel with yellow safety line; Optional aluminum alloy with yellow safety line
Entrance & Exit Flooring	Stamping stainless steel
Comb Plate	Yellow synthetic resin; Optional aluminum alloy



30° ESCALATOR KYUE SCHEME DRAWING

3000 ≤ H ≤ 6000 | Number of horizontal steps: 2



Support Load

Step Width	Rise		3000	3500	4000	4500	5000	5500	6000
1000	Escalator Weight	G(KN)	66	70	74	78	86	90	94
	Support Load	R1(KN)	62	66	70	74	80	85	89
		R2(KN)	54	58	62	66	72	77	81
800	Escalator Weight	G(KN)	62	66	70	73	77	81	85
	Support Load	R1(KN)	55	58	62	66	69	73	77
		R2(KN)	47	51	54	58	61	65	69
600	Escalator Weight	G(KN)	59	62	66	69	73	77	80
	Support Load	R1(KN)	48	51	54	57	61	64	67
		R2(KN)	40	43	47	50	53	56	59

Specification & Size

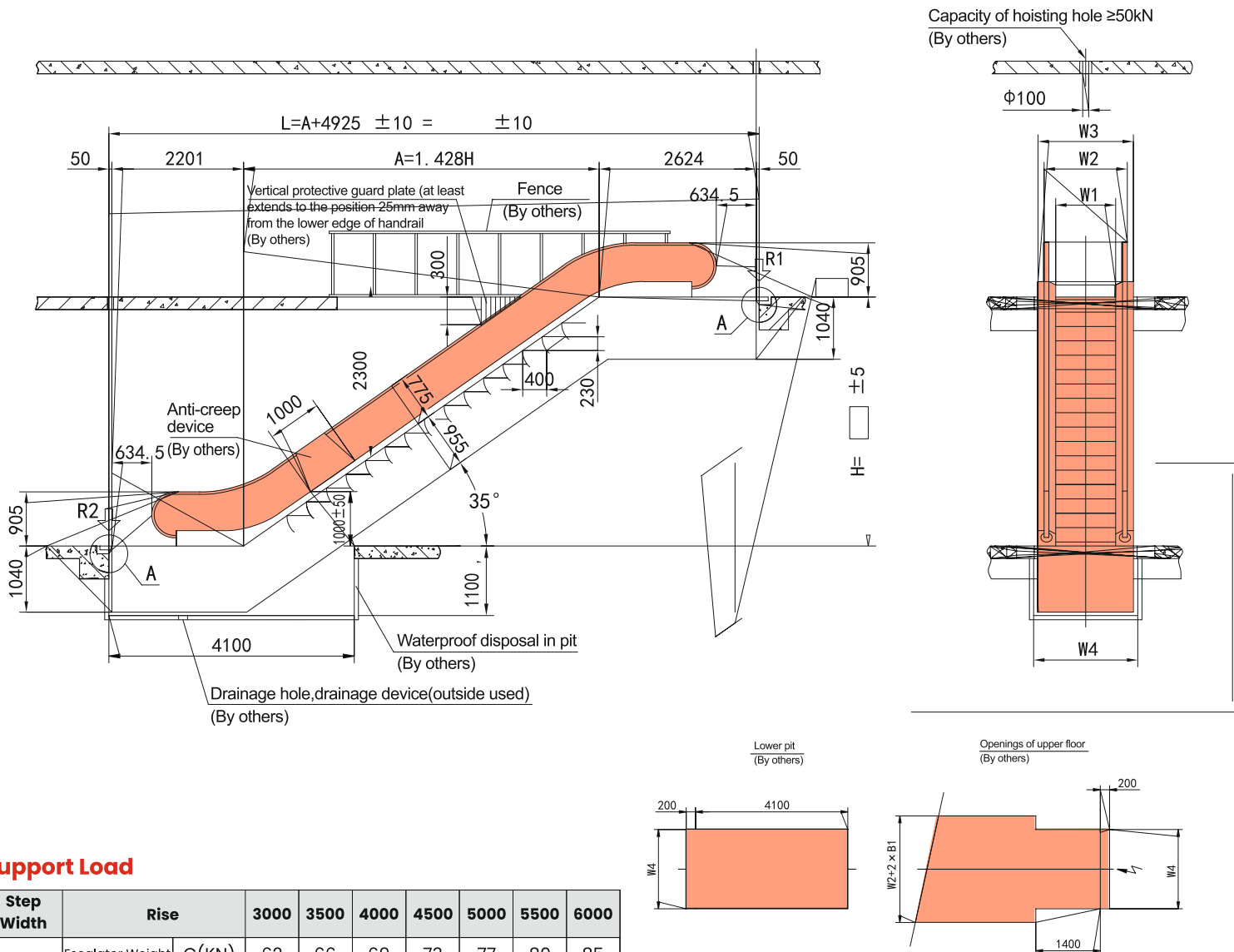
	60 Step	80 Step	100 Step
W1 (Step Width)	600	800	1000
W2 (Handrail Outer Fringe Width)	930	1330	1330
W3 (Escalator Width)	1140	1540	1540
W4 (Pit Width)	1240	1640	1640

Note:

1. For outdoor escalator, size of "※" in schematic drawing is 1440.
2. When the step width is 600, the size of the * in the figure is increased by 500.
3. The size not indicated in the figure are in millimeters. See page 20 for enlarged figure of A.
4. This figure is suitable for escalators with carbon steel spray-painted or hairline stainless steel handrail brackets.
5. When the anodic aluminum alloy handrail bracket is selected, the relevant dimensions are slightly different from this figure.

35° ESCALATOR KYUE SCHEME DRAWING

3000≤H≤6000 | Number of horizontal steps:2



Specification & Size

	60 Step	80 Step	100 Step
W1 (Step Width)	600	800	1000
W2 (Handrail Outer Fringe Width)	930	1130	1330
W3 (Escalator Width)	1140	1340	1540
W4 (Pit Width)	1240	1440	1640

Note:

1. For outdoor escalator, size of "※" in schematic drawing is 1440.
2. When the step width is 600, the size of the * in the figure is increased by 500.
3. The size not indicated in the figure are in millimeters. See page 20 for enlarged figure of A.
4. This figure is suitable for escalators with carbon steel spray-painted or hairline stainless steel handrail brackets.
5. When the anodic aluminum alloy handrail bracket is selected, the relevant dimensions are slightly different from this figure.

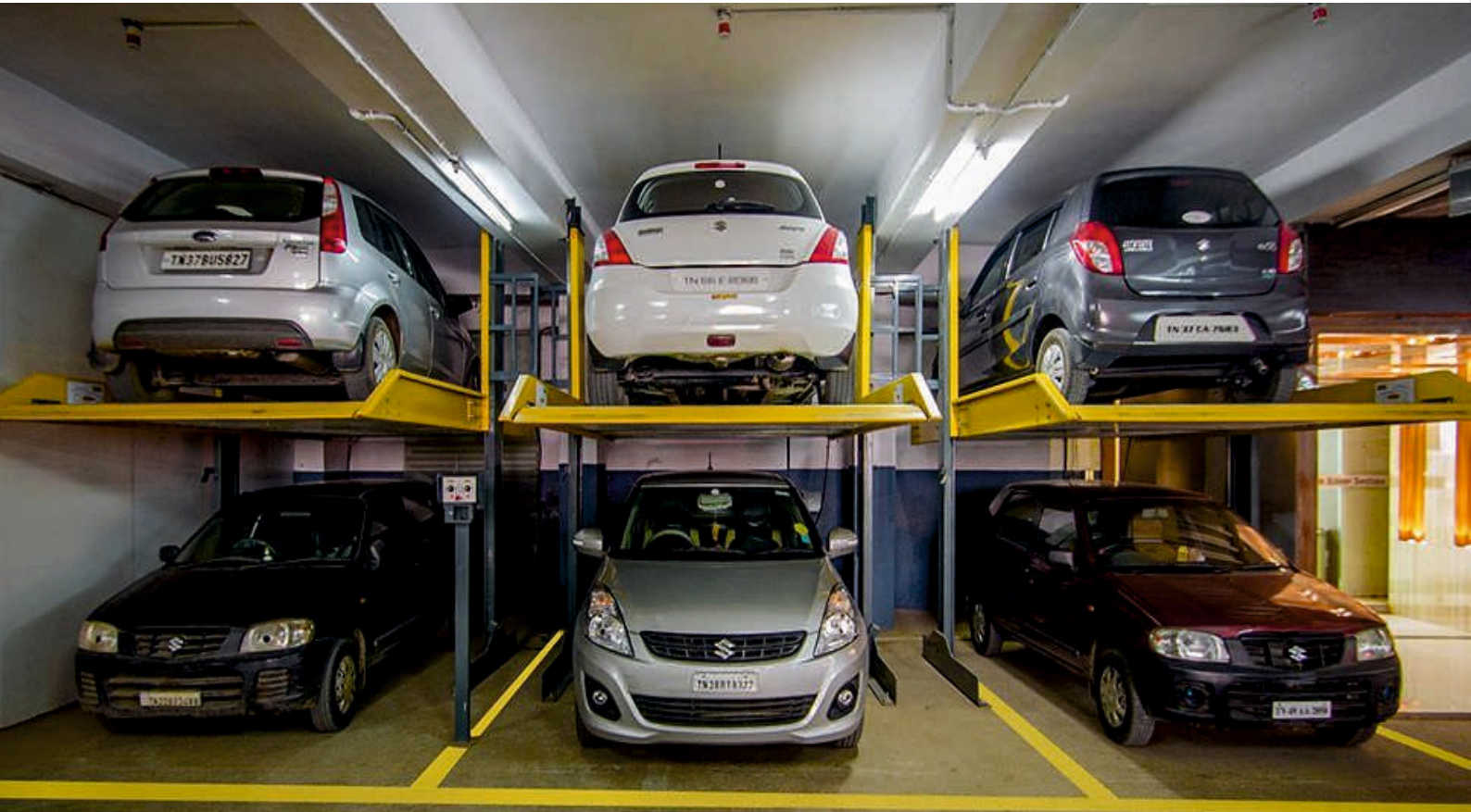
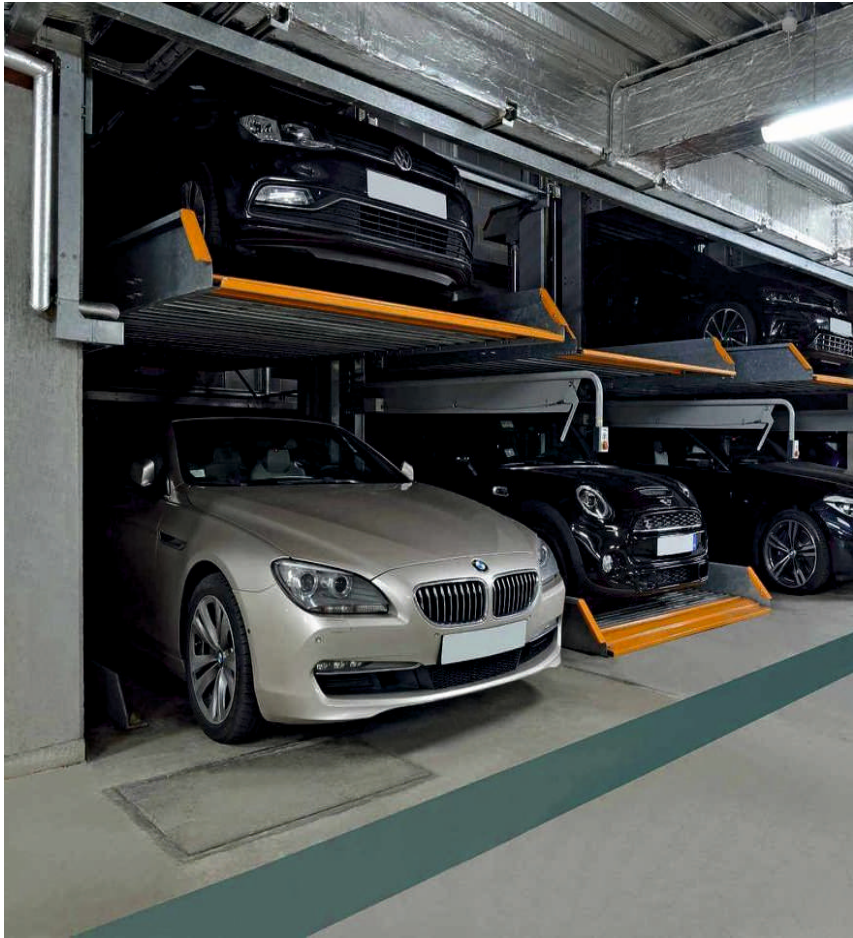


STACK PARKING - Electromechanical

MODEL		SEM 210	SEM 220	SEM 230
Parking Capacity		2 Cars		
Machine Specification	Platform Length	3850		
	Platform Width	2100	2200	2300
	Max. Loading capacity	2000 Kg		
Lifting	Lifting Mechanism			
	Geared Motor Power			
	Up/Down Speed			
Safety Devices	Spring Return key Lock Switch			
	Electromagnetic brake			
	Bottom card Sensor			
	Emergency stopper			
	Wheel Stopper			
IP Rating	Control panel, Sensor, Limit switch and Operating panel are of IP 65 protection			
Electric Power	3ph, AC 415V, 50Hz			
Available Car Dimensions	Length (max)	Width (Min-max)	Height (max)	Weight (max)
Sedan	5000	1800 - 2000	1500	2000 Kg
SUV	5000	1800 - 2000	2000	2000 Kg
Tall Boy	5000	1800 - 2000	1700	2000 Kg
Note : The Available Car Dimension width changes according to the Platform width				
Product Type	Combination Type	Required Clear Height	Lower	Upper
	Sedan + Sedan	3500	1600	1550
	SUV + Sedan	3800	2100	1550
	SUV + Tall Boy	4000	2100	1700
	SUV +SUV	4250	2100	2050

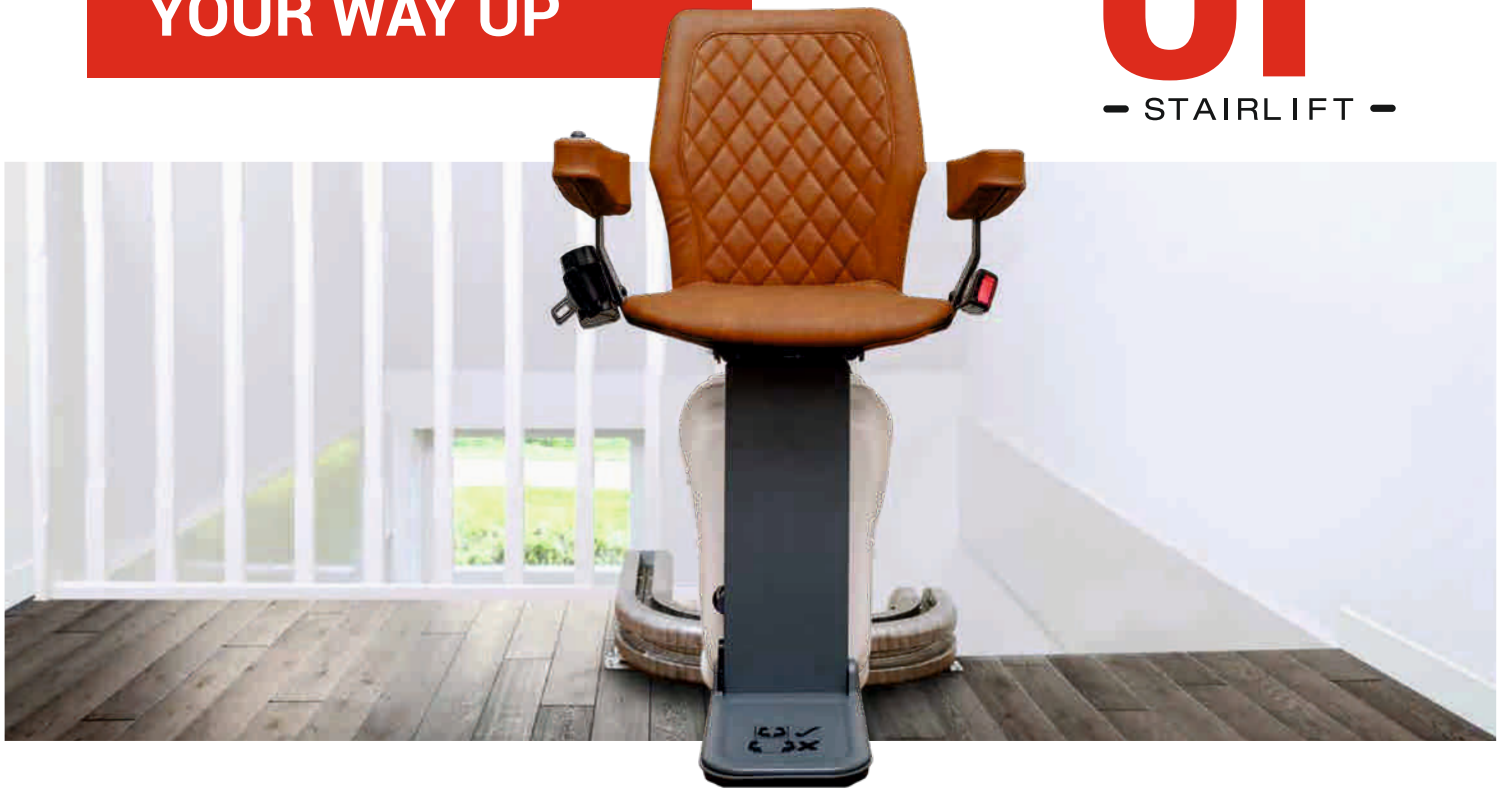


- Available Platform width Ranges from 2100mm to 2300mm according to Customer requirements and space constraints
- The Open area parking system should have a weather covering over the installation to prevent Malfunctioning of the Electronics/Mechanics
- Dimensions indicated above are in mm



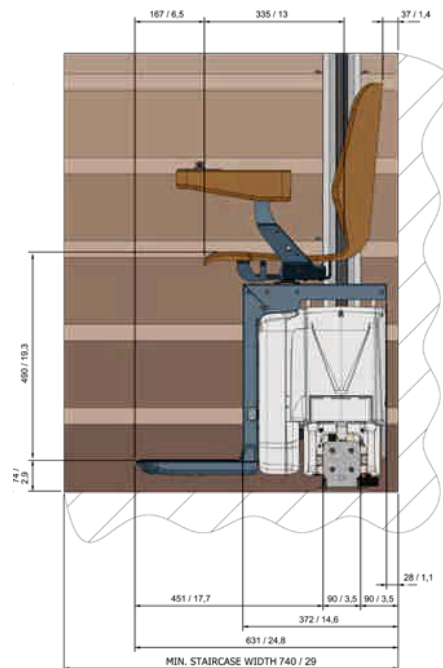
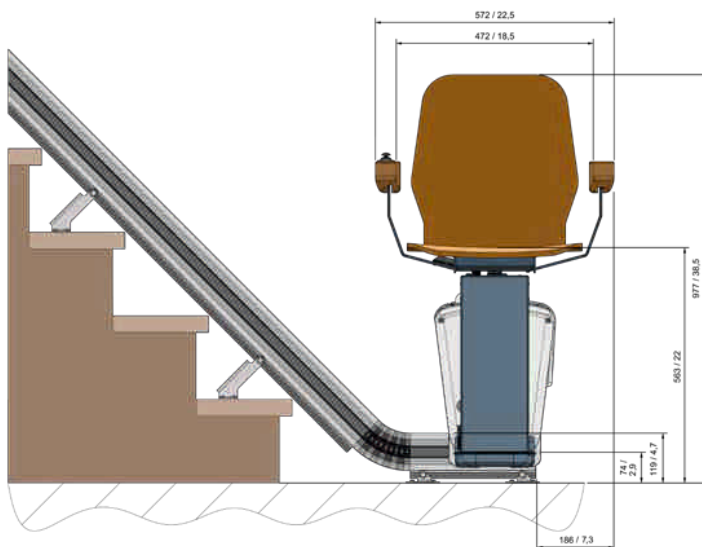
**WE WILL CHANGE
YOUR WAY UP**

UP
— STAIRLIFT —



GOING UP - CURVED

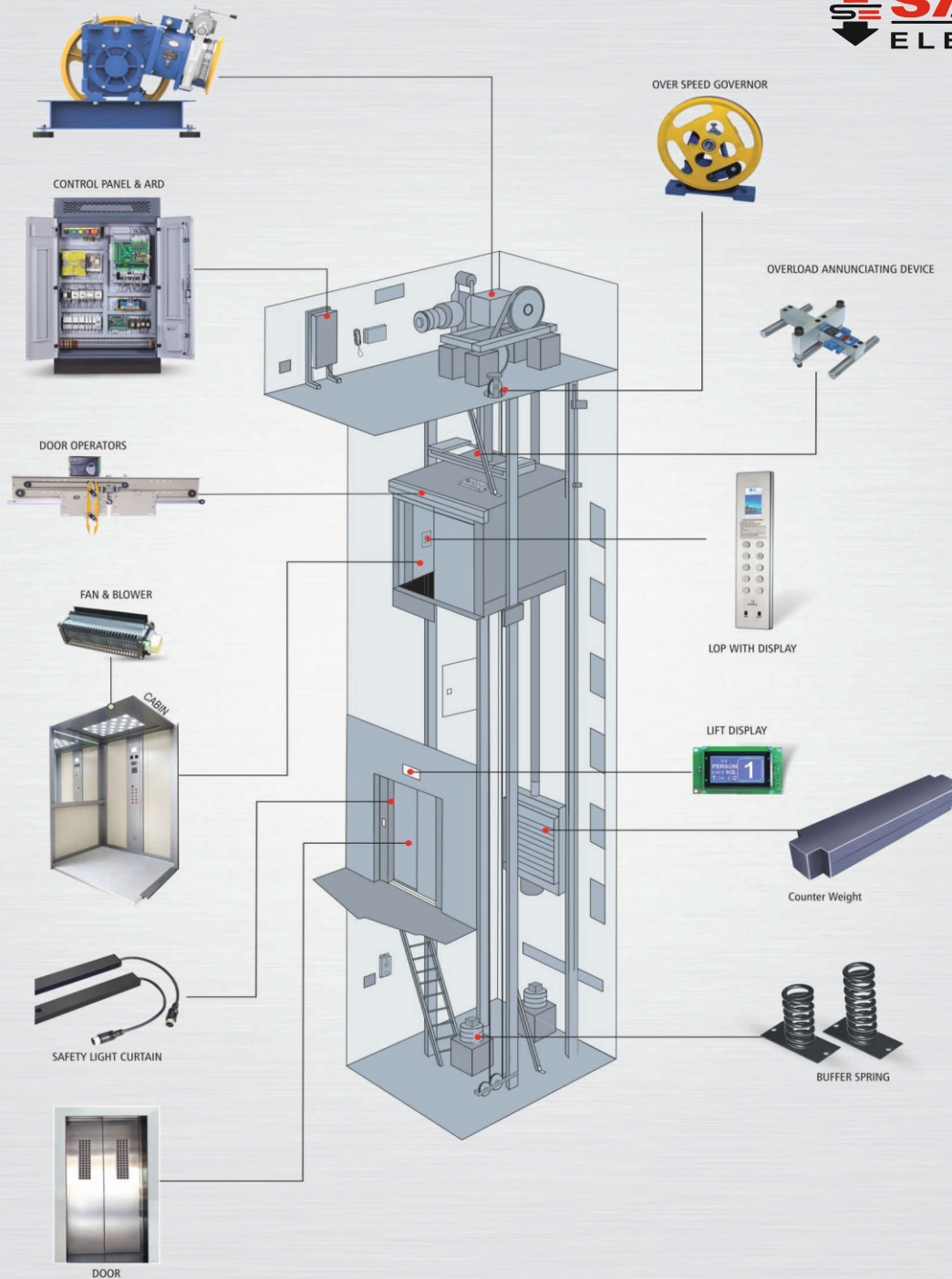
The curved stairlift is suitable for a staircase with one or more bends and is always delivered with an automatic swivel chair, automatic footrest and intercom. Do you have straight stairs, but prefer a horizontal or dropnose ending, or a 90 or 180 degrees parking curve, then the curved stairlift is your choice.



SPECIFICATIONS

Motor output speed	0,15 meters per second
Method of drive	Rack and pinion
Power input	24V DC (battery)
Max. load straight model	140 kg / 308 lbs
Max. load curved model	125 kg / 275 lbs
Max. angle of stairs	75°
Rail	Modular rail, extruded aluminum, casted aluminum
Power supply	50-60Hz, 90-240 AC
<i>Our stairlift meets:</i>	
European regulations	EN 81-40:2020
Software and hardware	IEC-61508-2 and IEC-61508-3
EMC standard	EN6100-6-2
Fire resistance	UL94





We are Technically Associated with





Safety Features

Infrared Light Curtain

Full height infrared curtain with multiple crisscrossing light beams detect the smallest obstruction in door path and stop doors from closing.

Overload Sensor with Audio-Visual Indication

On overload of the lift, car audio-visual indication is provided and doors are kept open till excess load is removed.

Slot Less Door Sills

Stainless steel lift car is now complemented by matching stainless steel bottom sills. Moreover, bottom sills are groove less, thus enhancing aesthetic appearance of the elevator. No slots for dust to accumulate and obstruct the door. So trouble free operation is ensured. Ensures smooth movement of trolleys & structures. (Block-A)

Car Emergency Light & Fan

The emergency light is always illuminated in normal condition and switches itself automatically to battery back up in case of power failure as shown in picture. Fan also operates for minimum 2 minutes after power failure.

Emergency Alarm & 'Push to Talk'

In case of any emergency or power failure, help can be obtained by alarming or by communicating at lobby through system, which is battery operated and self-charging as shown in the picture.

Emergency Rescue Button

In the event of power failure, trapped person in lift car rescue themselves by pressing emergency rescue button provided in car panel as shown in picture. (Block-B)

Safety in case of Over Travel

Three phase electric power is disconnected from control panel and motor, the moment elevator car moves beyond the limit of top and bottom terminal floors causing immediate application of the brake to bring the elevator to halt.

Safety in case of Rope Breakage

In the incident of breakage of ropes, elevator speed exceeds the rated speed in the downward direction, due to gravitational acceleration. The over speed governor activates the clutch mechanism thereby switching off main controls and jamming the elevator car safety on guide rails.

PU Buffers

Polyurethane polymer blocks are along lasting, weather resistant and most reliable in all operating conditions for providing maximum safety, in case of buffering of car elevators.

Car Fan Automatic Sleep

Car fan automatically stops when there are no registered floor calls resulting into saving in power and enhancing its life.

Voice Annunciator with Music

This system provides detailed information to passengers related to next floor, direction of movement, door opening/closing, scheduled operations and other information depending on the building needs. This system features natural electronic voice synthesizes.

PLC based controller V3F (Variable voltage, Variable Frequency), Vector controlled drive with encoder closed loop system

This system provides the highest degree of smoothness in elevator car movement with precise leveling. In addition to this, the frequency of power conservation is very high resulting into an overall power saving of the order of 40% during normal operating conditions.

The Speed vs. Travel diagram shows the jerk less movement of elevator car approaching different floors with different speeds during starting, accelerating, decelerating and stopping.

Self diagnostic system

The built-in computer control system, self-diagnosis, various operational and safety parameters to improve overall reliability and safety of lift operation.

PLC based controller V3F (Variable voltage, Variable Frequency), Vector controlled drive with encoder feedback closed loop system for door operation

This system reduces the door opening and closing time drastically compared to conventional door operation system, thereby improving the passenger handling capacity and reducing the waiting time at landing.



ELEVATE YOUR LIFE...



SCAN ME

 +91 95865 33839 / +91 98247 46611

 www.safalelevator.com

 safalelevator@gmail.com

 safal _elevator

 UNIT - 1: 52, Shreenath Sarthak Ind. Park, Nr. Torrent Power Substation, S. P. Ring Road, Nikol, Ahmedabad - 383250.

UNIT -2: Plot No. 120, Gopal Charan Industrial Landmark, Ahmedabad - Indore Highway, Beside Oldage Home, Vil. Kuha Ta. Daskroi -382433.