

Ascens^{or}

LIFTS AND AUTOMATION PVT. LTD

Be safe with us...



(An ISO 9001 : 2008 Certified Company)
(An ISO 1401 : 2015 Certified Company)
(An ISO 45001 : 2018 Certified Company)
(An IATF 16949 : 2016 Certified Company)



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Ascensor

LIFTS AND AUTOMATION PVT. LTD



Ascensor Elevators feel proud to provide comfort, easy & luxury to the human kind by being in the Industry of elevators. Elevator is no more just a luxury, but rather a necessity to lead a hectic & fast life. Ascensor Elevators is a leading manufacturer & installer of high-quality world class elevators catering to different applications. With an experience of more than a decade, Ascensor Elevators boasts of efficient team of staff and engineers.

Ascensor Elevators synonymous with reliability & safety was founded for servicing & after sales of other key brands of elevators. With early acceptance & trust, we started designing, manufacturing & installation of elevators by our own brand- Ascensor Elevators. In a short span, we have been successful in providing our products to array of Industries in Private, Government & Semi-Government Organizations.



We offer state of the art Escalator and moving walks with multiple options and configurations.

In addition to the innovative design to enhance the looks of the product, we back it up with detailed engineering to provide smooth transit with energy efficiency. We back our products with competent workforce for execution of projects and also for maintenance. Our workforce is trained to provide suitable support whenever necessary.

Vision :

To be an organization that is perpetually innovative, reliable and sustainable delivering value to its customers through its services and best quality.





LIFTING THE STANDARDS

When it comes to elevators, you can always rely on us. With special features like robustness & safety, we provide the latest technology with higher efficiency to match international standards. Ascensor Elevators use PERMAGSA, Spain Technology for Ascensor Elevators. To add to this, when it comes to value for money, Ascensor Elevators comes first, not only at installation level but also in maintenance.

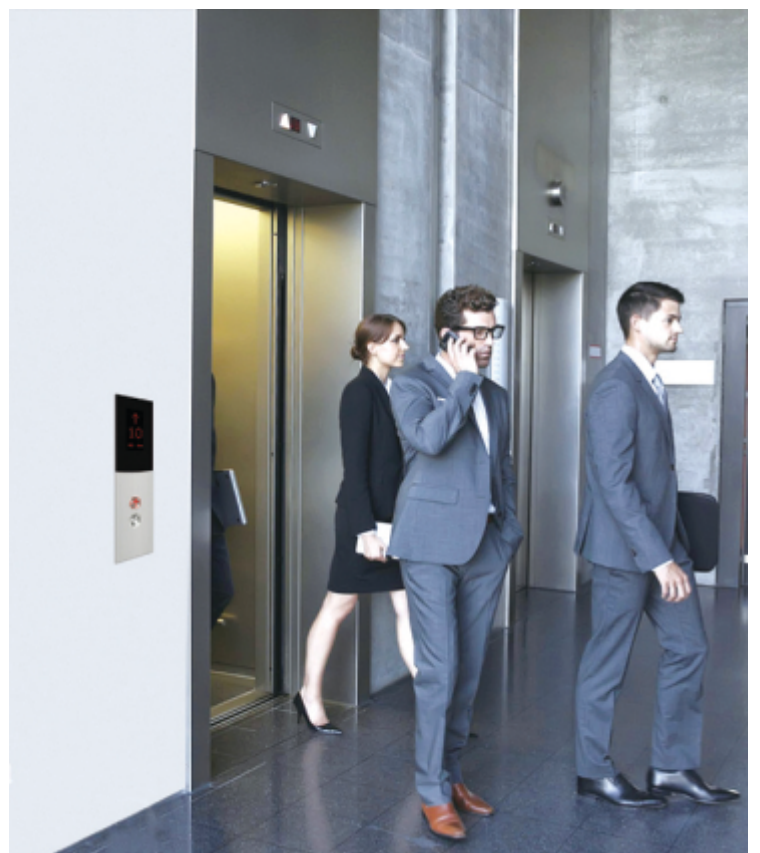


STRENGTH | RELIABILITY | AMPLIFIED

Passenger Elevators

We are the manufacturer of highly efficient Passenger Elevators using premier Raw Material. Particularly designed by our professionals these lifts are used for carrying passengers from one floor to another. These lifts are designed in different forms like power coated or stainless steel with Matt finished stainless steel by our professionals.

We are one of the renowned manufacturers and suppliers of elevators that have gained wide appreciation for operational excellence. These hydraulic elevators are precision engineered using advanced technology to offer best performance. They are compact in size and includes trolley mounted steel frame, hand pumps, top platform, hydraulic cylinders and scissors kind of steel bracing. Also, they can carry load holding at any height as a safety attribute to avoid any accidental slide down of the platform.





STRENGTH | RELIABILITY | AMPLIFIED

Goods Elevators

For carrying various sized goods and equipment from one floor to another, we design and develop Goods Elevators. These elevators are designed with utmost precision and thus, ensure noiseless operation. Clients appreciate these goods elevators for having excellent load bearing capacity with slow speed and smooth running operation.

We are known for our effective variety of MRL Elevators, which do not require any space to save and machine room. These products are manufactured under the guidance of our quality experts and have various qualities like high performance, light weighted, efficient, reduced motor size, tensile strength and long life. We offer these products with high rates of travel than hydraulic elevators.





STRENGTH | RELIABILITY | AMPLIFIED

Hospital Lift

We offer Hospital Lifts for Hospitals for easy transportation of bulky equipments as well as patients. These are apt to meet the modern day hospital needs. These have sophisticated looks with high functionality. Hospital Lifts are best to carry gurneys, stretchers as well as wheel chairs. We offer these at attractive prices and in various models.

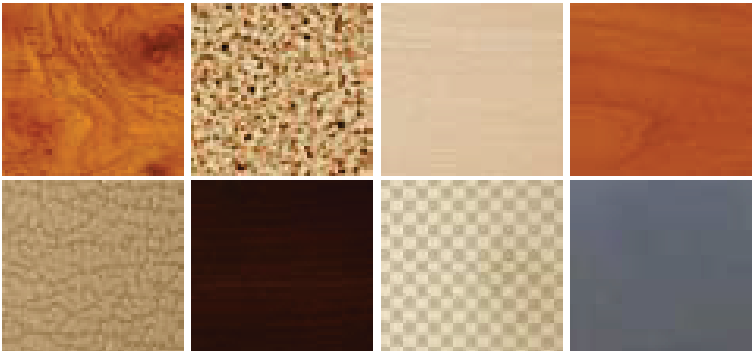
Dumb waiter systems have always been critical in restaurants, hotels and other food service to make sure the food gets to the customer piping hot and without getting dropped on the stairs, and in all cases the service lift is about the right tool for the job, keeping any passenger lifts clear of “backstage work going on and designed to take up a minimum of space with a maximum of load carrying capability.



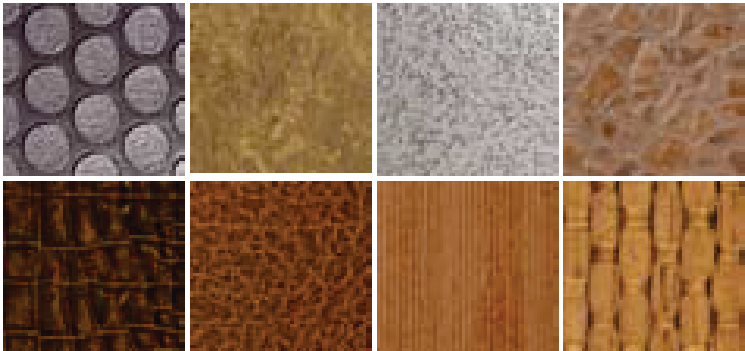
CABINS

Based on a successful combination of modular system and a wide selection of specialized high quality materials, Doppler Manufacturing has a complete range of passenger and cargo cabins taking a good care of even the smallest manufacturing detail. Using a software, specially developed by the company, in cooperation with a 3-D drawing CAD/CAM package, the symmetry of the car shape and the high quality of internal finishes is ensured.

proposed selection of side walls



proposed selection of floors



LIFT COMPONENTS

Mechanical Parts of Hydraulic Lifts

Hydraulic lifts were the first manufacturing choice based on a balanced combination of manufactured equipment and supplied quality products. The hydraulic package is now considered to be one of the best in Europe in terms of quality, smooth operation and safety.



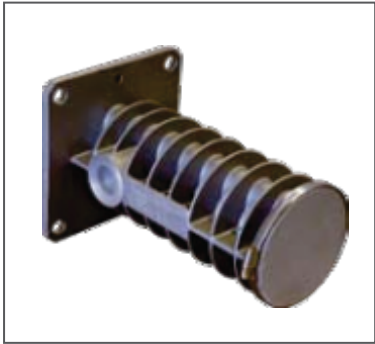
POWER UNIT
High quality control valve block by BLAIN. Smooth operation with low noise levels. Standard automatic emergency operation.



CAR SLING
Stiff structure for safe operation. Safety gear mechanism absolutely reliable in activation. Easy and quick installation.



PISTON
High quality seal without oil leakages Minimum maintenance required.



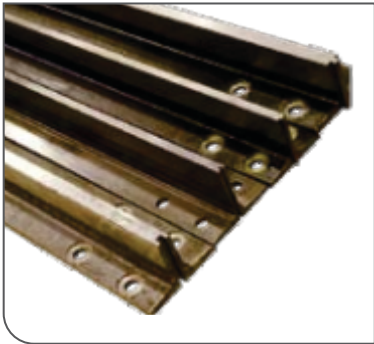
HYDRAULIC PUMP
Extremely low noise level screw pump



VALVE BLOCK
BLAIN EVI00 with a wide range of adjustments



MOTOR
Low noise, highly efficient with integrated flywheel



GUIDE RAILS
Supplied by top quality manufacturers



SHAFT COMPONENTS



SHAFT COMPONENTS



PULLEY
Two-point suspension

LIFT COMPONENTS

Doors

Automatic Sliding car & landing doors

Doppler is in position to supply any type of automatic door for use in private houses, residential flats, commercial centers, offices, multi-storey car parks, super markets, and industrial application.

Primarily characterized by:

- Low noise, reliable and smooth operation using VVVF driven motor.
- Option for automatic emergency operation.
- Wide variety of choices depending on the needs of your building.
- Epoxy painted.
- Finished in various stainless steel patterns.
- Glass panels with or without stainless steel frame.
- Round shaped.
- Easy installation.
- Wide span of life with minimum maintenance.
- Doorlocks certified according EN 81 regulations.
- Fire rated certification if required .

Swing opening landing doors

Selected as an economic solution for both passenger and goods lifts.

Entrance clearances vary from 600 to 3000mm, single panel or two-panels, satisfying a wide range of applications.

Distinguished for:

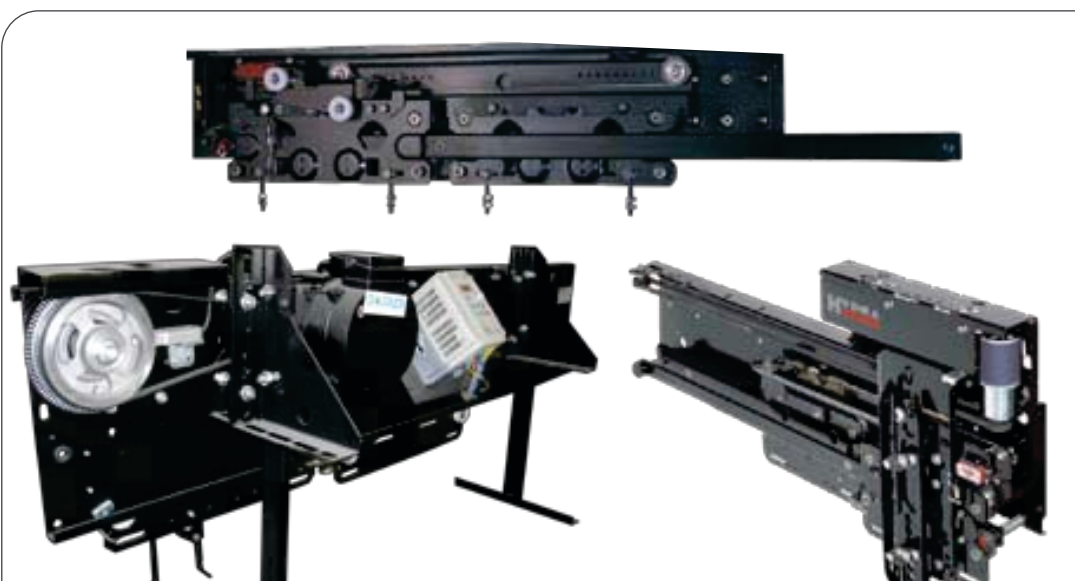
- Stiff and reliable structure.
- Easy installation and maintenance.
- Wide range of paints and finishes.

Automatic folding car doors

The automatic folding car door is the ideal solution for lifts with swing opening landing doors. The main advantage is the small shaft width required.

Distinguished for:

- Stiff and reliable structure.
- Smooth and low noise operation.
- Easy installation and maintenance.
- Post depth 80 or 100mm.



Photocell or full height light curtain is fitted to every car door, ensuring passengers' safety while entering or leaving the cabin.

LIFT COMPONETS

Car operating panels & landing push stations

Basic specifications:

- Stainless steel plate, satin, mirror or patterned.
- 7-segment, dot matrix and LCD landing indicators.
- Arrows and displays in various colors.
- Micro-switch, vandal-resistant buttons with visual call acceptance confirmation.
- TACTILE symbols, conforming to DDA regulations are available.
- Emergency Light 12V DC and load plate on the car operating panel showing lift details and the individual EN81 lift number.
- Profile or Flat landing operating stations.



LIFT CONTROLLERS

Our controllers are technologically advance, sleek in design and are microprocessor based. The make and structure ensures reliability, flexibility and high levels of safety to ensure and seamless experience for passengers. Our controller provide solution for low, middle and high rise projects thus serving one purpose for all.



LIFT MOTER PARTS AND EQUIPMENTS

COMPLETE SET LIFT GEAR MACHINE :

We offer you the suitable complete set of Lift Gear Manufactured by M/s. Sharp Engineers & Montinary, both have more than Eighteen years experience in the field of Manufacturing Elevator Traction Machine and Parts to urban development. As an indian leader in the industry. The Company is dedicated to excellence in products and customer services. We are Le Authorized Dealers for M/s. Sharp Engineers in South Indian.



Gearless Motor



Ascensor Motor



Ascensor Motor



Bharat Bizli Motor



Montanari Motor



Sharp Motor

CAR AND CWT FRAMES

We are into manufacturing and supplying on extensive range of Car & Car CWT Frames Manufactured using high-grade steel, procured from the trusted vendors of the market, these products are designed strictly in compliance to international quality standards. These products are designed to mechanically prevent car from failing in case of failure of any suspension ropes. Owing to the superior quality high tensile strength and excellent performance, these products are highly demanded.



COMPLETE LIFT PACKAGES

Ascensor's main policy since its founding, was to provide complete lift packages, offering:

- High quality with up to 5-year guarantee.
- Compliance with EN 81 regulations and EU directive 95/16/EC.
- Equipment completeness and compatibility, resulting in a reduction of installation time and cost.
- Wide variety in cabins and operating panels selection.
- Quick delivery times.
- Safe and easy to handle packing.
- Accurate and fast quoting and pricing.

Hydraulic Lift Motor Room | Machine Room Less (MRL) | Hydraulic Home Lift | Service Liftslift
Traction Lifts with Motor Room | Machine Room Less (MRL) Traction Lift | Escalators and Moving Walks Park

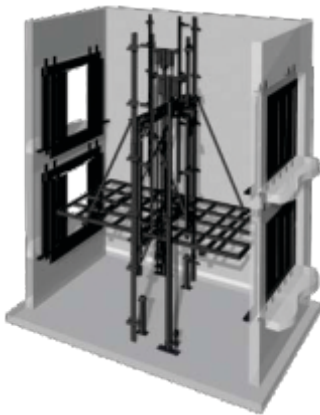


COMPLETE LIFT PACKAGES

Hydraulic Lift with Motor Room

Following a policy of qualitative choices since the establishment of the company, Doppler offers a complete range of hydraulic lift packages, covering applications from small passenger lifts up to panoramic and large goods lifts.

- Compliance with Lift Directive 95/16/EC, EN 81 regulations, PUBEL PB 10-558-03 regulation and Machinery Directive 2006/42/EC.
- Capacity range from 200 to 20,000 kg.
- Speed up to 0.9m/sec.
- Travel up to 28m (10 stops).
- Low noise and smooth operation.
- Stiff structure.
- Standard Automatic Emergency Operation.
- Motor room at any location with reference to the lift shaft.

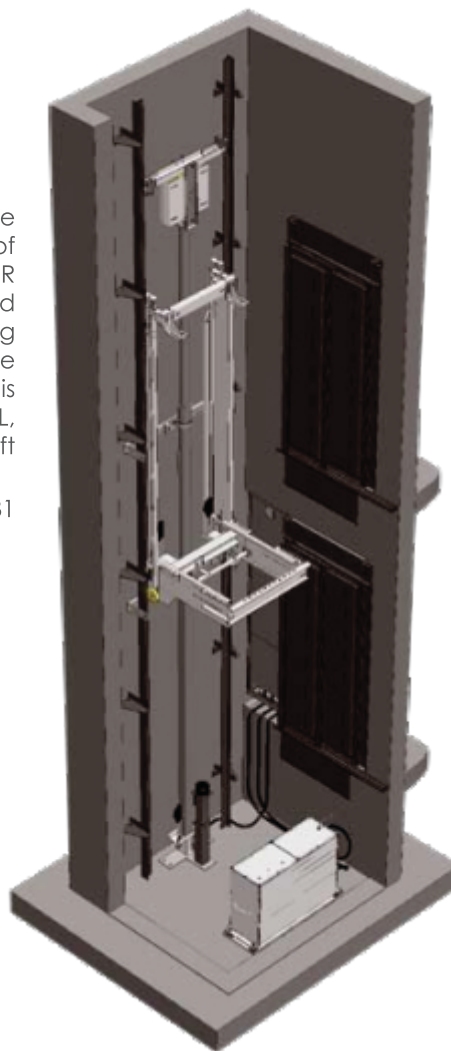


COMPLETE LIFT PACKAGES

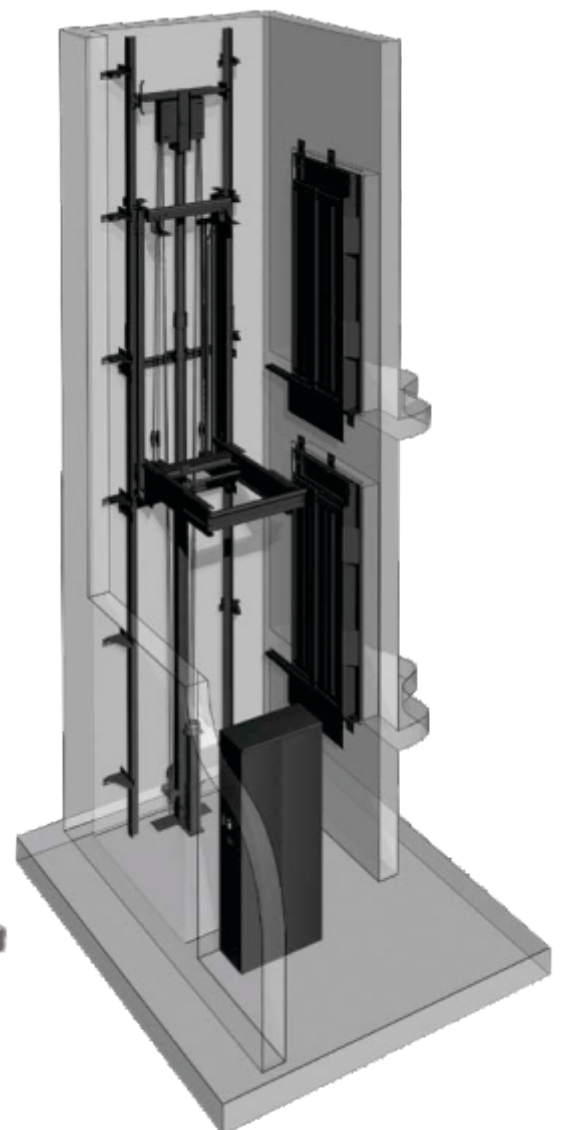
Machine Room Less (MRL) Hydraulic Lift

The increasing market demands during the last decade throughout Europe, in combination with the flexibility of the new European regulations, orientated DOPPLER Manufacturing towards the design, certification and supply of hydraulic lifts without motor room. Depending on the project, two different types are offered. The HYDRO MRL, where all the motor room equipment is fitted into a metal cabinet and the HYDRO TOTAL MRL, where the tank of the power unit is placed into the shaft pit whilst the controller and the valve block.

- Compliance with Lift Directive 95/16/EC, EN 81 regulations and PUBEL PB 10-558-03 regulation.
- Capacity range from 200 to 2,000 kg.
- Speed up to 0.9m/sec.
- Travel up to 18m (7 stops).
- Low noise and smooth operation.
- Stiff structure.
- Standard Automatic Emergency Operation.



hydro total mrl



hydro mrl

COMPLETE LIFT PACKAGES

Hydraulic HOME Lift

Home Lift is the ideal solution for residences and low height buildings, especially in cases where there is no shaft either internally or externally. It is available in two types the Hydro Status and the New Era combining luxury with Galaxy or panoramic cabin and low energy consumption with the use of VVVF drive of the pump motor.

- Compliance with Lift Directive 95/16/EC, EN 81 regulations and Machinery Directive 2006/42/EC.
- Aluminum shaft structure in various finishes.
- Manual or automatic doors.
- Minimum shaft pit and headroom requirements.
- Capacity range from 200 to 450 kg.
- Speed up to 0.63m/sec.
- Travel up to 12m (5 stops).
- Low noise and smooth operation.
- Stiff structure.
- Standard Automatic Emergency Operation.
- 230V single-phase power supply



COMPLETE LIFT PACKAGES

Service Lifts

HYDRO COMPACT CARGO LIFT

The HYDRO COMPACT CARGO LIFT is suitable for goods and freights, primarily designed for use in industrial facilities and warehouses. The flexibility in dimensions and capacities, make it adaptable to any special requirements.

- Compliance with Machinery Directive 2006/42/EC and EN 81-31.
- Preassembled on a stiff steel structure.
- Available with platform or low height cabin.
- Minimum shaft depth and headroom requirements.
- Lifting Capacity from 200 up to 1,300 kg.
- Speed 0.15m/sec.



Dumbwaiter (Pico Lift, NANO LIFT)

Pico Lift is a small, machine room-less traction service lift for small capacities. It is suitable for restaurants, hotels, department stores or residential buildings.

- Compliance with Machinery Directive 2006/42/EC and EN 81-31.
- Lifting capacity 250 kg.
- Speed up to 0.5m/sec.
- Travel up to 30 m (12 stops).
- Noiseless and smooth operation.
- Fast and easy installation.
- Lightweight construction.
- Zero pit depth.
- Low minimum headroom (2.5m).



COMPLETE LIFT PACKAGES

Traction Lifts with Motor Room

The development of the electronic driving of lift motors (VVVF), together with the demand for long travels, brought the classic traction lift again into the market. Following a policy of qualitative choices, a complete range of traction lift packages is offered, satisfying all kind of applications.

- Compliance with Lift Directive 95/16/EC, EN 81 regulations and PUBEL PB 10-558-03 regulation.
- Capacity range from 200 up to 5,000 kg.
- Speed up to 2,5m/sec.
- Travel up to 100m (32 stops).
- Low noise and smooth operation.
- Stiff Structure.
- Automatic emergency operation.

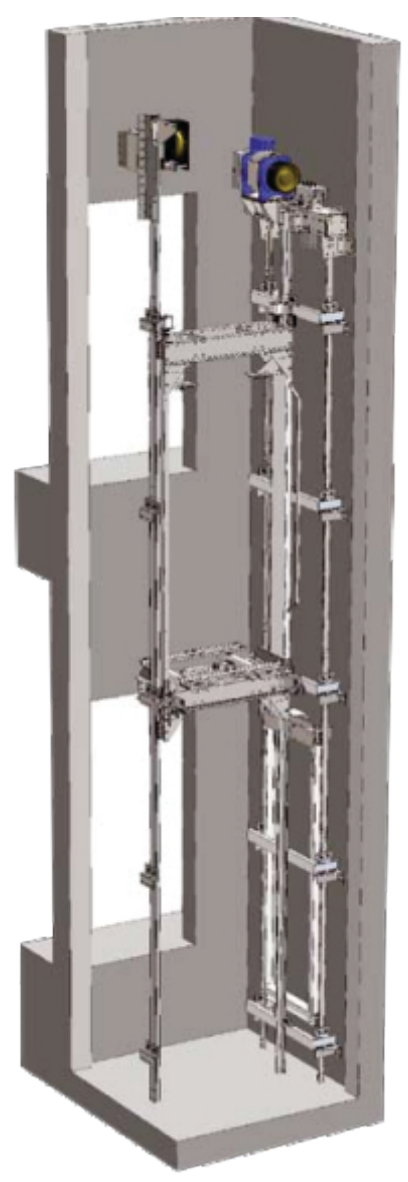
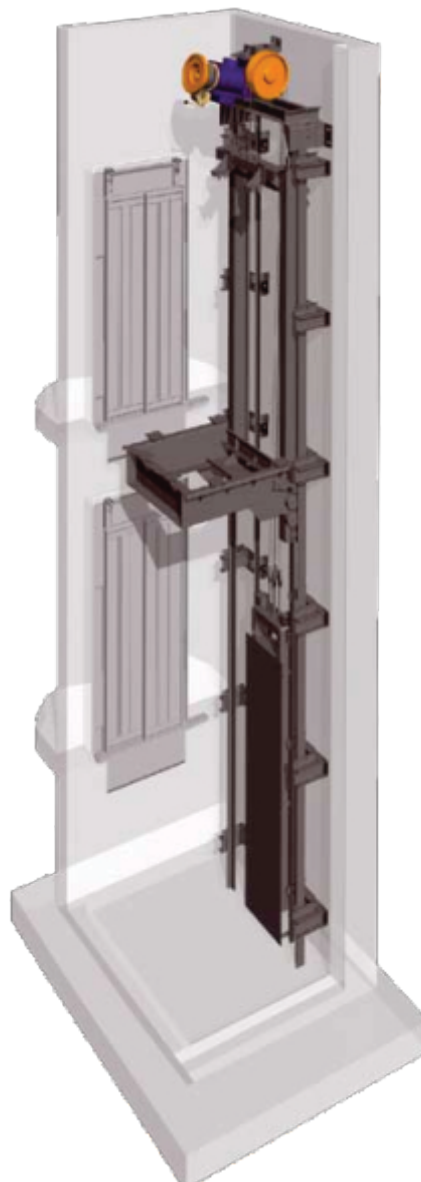


COMPLETE LIFT PACKAGES

Machine Room Less (MRL) Traction Lift

The MRL Traction Lift eliminates the disadvantage of the classic traction lift, which is the need of a machine room. The MRL traction machine is located inside the shaft whilst the controller is fitted in a stainless steel cabinet adjusted to the top floor landing door post. Two different configurations are offered: The BASIC 2 MRL, a low-cost choice with direct suspension and two speed or VVVF geared motor, and the ECO 2i MRL, a high-end choice with indirect 2:1 suspension and VVVF controlled gear-less motor.

- Compliance with Lift Directive 95/16/EC, EN 81 regulations and PUBEL PB 10-558-03 regulation.
- Capacity range from 450 up to 2,000 kg.
- Speed up to 1.6m/sec.
- Travel up to 100m (32 stops).
- Low noise and smooth operation.
- Stiff structure.
- Standard automatic emergency operation.





Elevator Interiors



CABIN INTERIORS

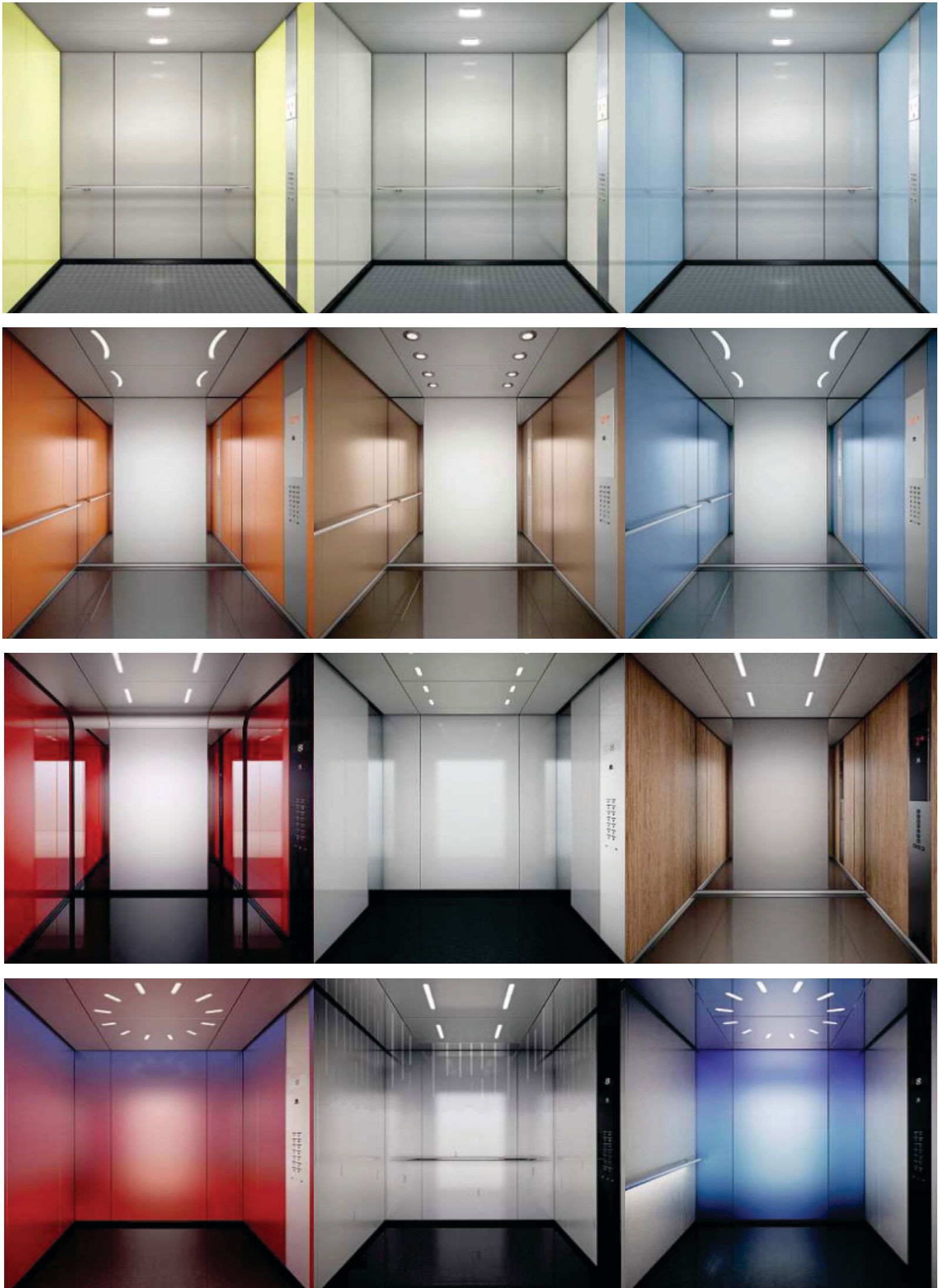
FALSE CEILING :

False ceiling are designed artfully to enhance the look of the cabin also ensuring that it complements well the make and color of the cabin and adds grace to the elevator. They are available in both prefinished mild steel and stainless steel finish with hairline, moon rock, honey comb and mirror finish depending upon the building aesthetics. LED and CFL lighting options are available to choose from with made to order lighting panels to appearance further



Add personality to your elevator

Navona, Times Square, Park Avenue and Sunset Boulevard – our four design lines offer a wide range of decoration options. Choose your design to match your architectural concept and ideas. Provide a unique ride experience with fresh colors, distinctive patterns and highquality materials. For detailed information on our four design lines see our



A perfect outfit with matching accessories.

Operating panels and options

Outfit your elevator with style

Our operating panels and options, such as handrails, mirrors and lighting, suit your chosen decor to give your elevator the perfect finish – down to the smallest detail. For a complete overview of all fixtures and options, see our separate decor lines brochure.

Operating panels

Make your elevator easy to operate for all passengers. Energy efficient operating panels all come in high quality materials and finishing. As an option, elegant full-glass fixtures provide the finishing touch to the car interior. High-resolution and easy-to-read indicators make the ride even more enjoyable.

Mirrors

Mirrors always add a special sense of space to rooms and buildings. In order to give your car more appeal and depth, one sidewall or the rear wall can be provided with a full-height safety-glass mirror.

Handrails

Even though your elevator travels smoothly, handrails convey a feeling of security. Stainless steel handrails match the interior and shapes of your car and can be mounted to the side and rear walls. Illuminated handrails and skirting enhance the overall ambiance of the car as well.

Lighting

A selection of different lighting options lets you add the right atmosphere to your elevator – from warm spot light to ambient indirect lighting. You can either choose from one of the lighting solutions that comes with our interior designs or you can opt for a custom solution.





Ceiling Line, stainless steel Lugano Matt finish



Ceiling Bracket, stainless steel Lugano Matt finish



Ceiling Spot, stainless steel Lugano Matt finish



Ceiling Curve, stainless steel Lugano Matt finish



Corner, aluminum anodized



Corner, aluminum polished



Handrail rounded, painted Riga Grey



Glass doors



Mirror, full height, rear wall



Handrail straight, stainless steel polished



Glass rear wall



Skirting round, aluminum anodized



Handrail straight curved ends, stainless steel brushed



Skirting flush, aluminum anodized



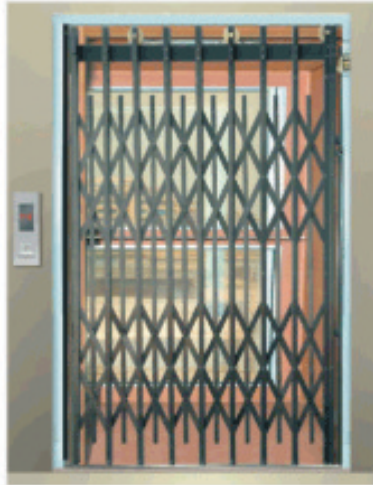
Skirting straight, aluminum anodized

LIFT DOORS

We offer our clients a wide variety of Lift Doors and Door Frames which are manufactured by a premium Quality Material to ensure high durability and Efficient Performance.

Our Range of Lift Doors are :

- | | | | |
|------------------------|--------------------------------------|--------------------------|------------------------------|
| (1) Collapsible Gates | (2) MS or SS Telescopic Auto Door | (3) MS or SS Glass Door | (4) MS or SS Automatic Doors |
| (5) Imperforated Doors | (6) MS or SS Telescopic Manual Doors | (7) MS or SS Swing Doors | |



MS Collapsible Door



MS Telescopic Door
(Manual)



MS Swing Door



Telescopic Auto Door



SS Door



SS Auto Door



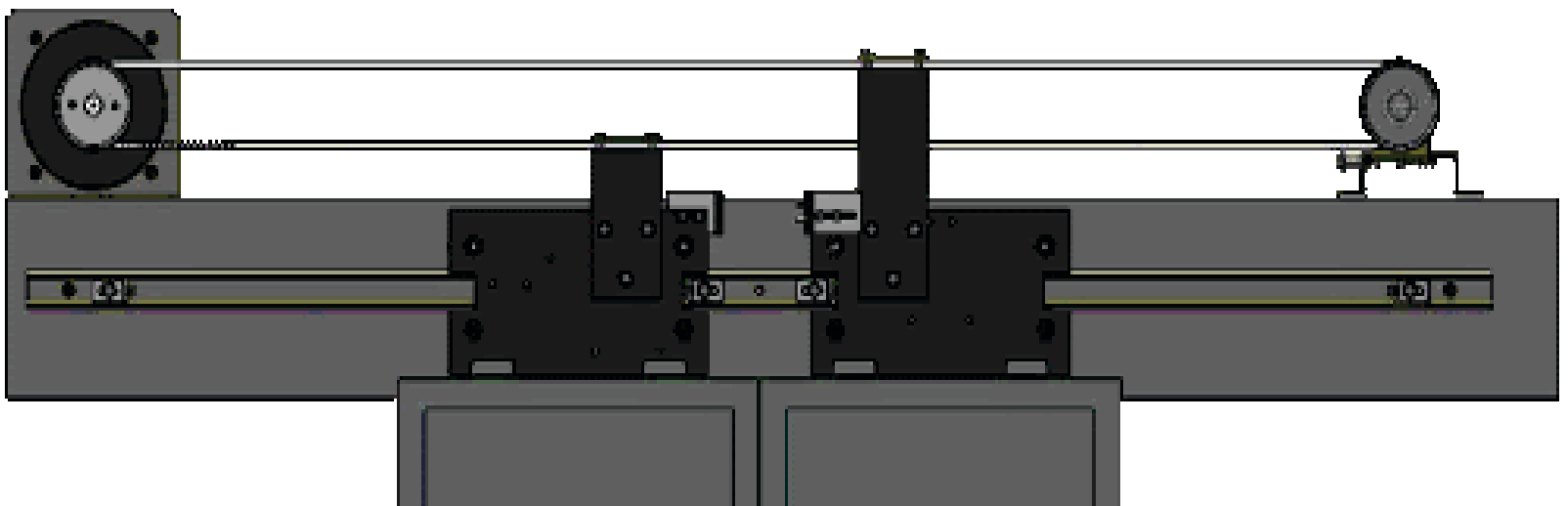
SS Auto Door Small Vision



MS Auto Door Small Vision

DOOR SYSTEM :

Variable Voltage variable frequency door operator enhances the performance of door opening & closing and also reduce the energy costs.



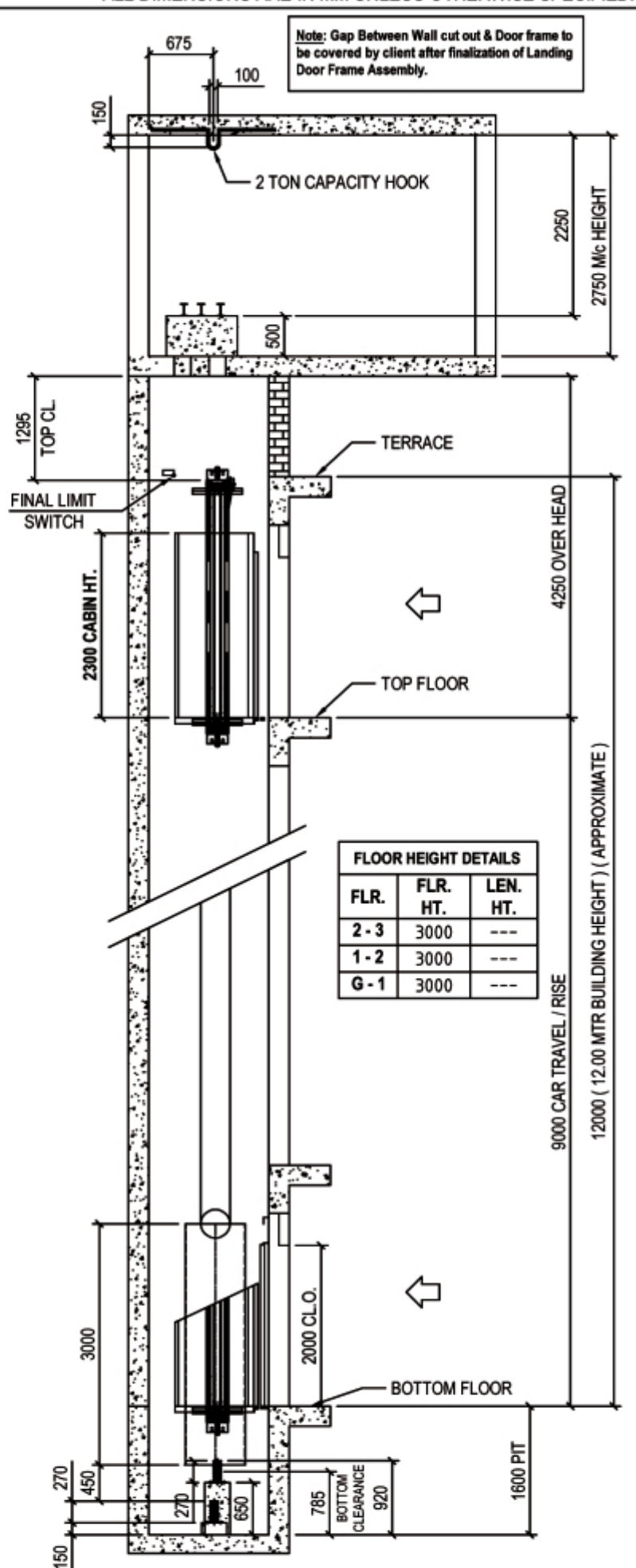
Note:

Diagram illustrating the assembly of a beam and pedestal. The beam is labeled "I BEAM HT. + 100mm" and "CUT OUT". The pedestal is labeled "PEDESTAL F.F.L." and "500". A label "LINTEL" points to the top of the beam.

FOUNDATION DETAIL FOR MACHINE
(DETAIL - A)

B = EXISTING FLOOR BEAM

LAYOUT



ELEVATION OF ELEVATOR

Ascensor
LIFT AND AUTOMATION
PVTT LTD Energizing you

CLIENT.

Office of executive engineer, kendrapara (R&B) division

TITLE-		SECTIONAL ELEVATION OF ELEVATOR SHAFT			
DRN.	RAJESH K		04.02.19	DRG.NO:- 41-00932	AMENDMENT.
CHD.	SAMIT			SHEET NO :-2 OF 5	0
APPD.	AIJAZ				SCALE:-N.T.S.

LIFT WELL & CAR SIZE IN MM

For car door manually operated MS sliding door and landing MS swing door.

Capacity	CAR INSIDE		LIFTWELL		Entrance
	[A]	[B]	[C]	[D]	
4 Passenger	1100	700	1600	1200	800
5 Passenger	1100	900	1600	1400	800
5 Passenger	1100	800	1600	1300	800
6 Passenger	1100	1000	1600	1500	800
6 Passenger	1100	940	1600	1450	800
6 Passenger	1100	800	1800	1300	800
8 Passenger	1100	1100	1700	1600	800
8 Passenger	1100	1000	1800	1500	800

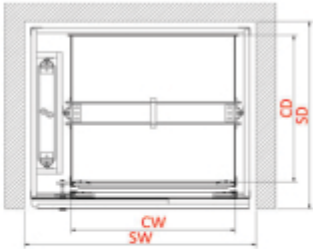
Semi pod: car door power operated side opening door & landing MS swing door.

Capacity	CAR INSIDE		LIFTWELL		Entrance
	[A]	[B]	[C]	[D]	
4 Passenger	1100	700	1600	1200	800
5 Passenger	1100	900	1600	1450	800
5 Passenger	1200	800	1600	1350	800
6 Passenger	1100	1000	1600	1550	800
6 Passenger	1200	900	1600	1450	800
6 Passenger	1400	800	1800	1350	800
8 Passenger	1300	1100	1700	1650	800
8 Passenger	1400	1000	1800	1550	800

LOAD		CAR INSIDE		LIFT WELL		ENTRANCES	TYPE OF DOOR
PERSONS	KG	A	B	C	D	E	
4	272	1100	700	1800	1100	800	MANUAL
6	408	1100	1000	1800	1400	800	
8	544	1300	1100	2000	1550	800	
4	272	1100	700	1900	1350	800	AUTOMATIC
6	408	1100	1000	1900	1700	800	
8	544	1300	1100	1900	1900	800	
10	680	1300	1350	1900	2100	800	
13	884	2000	1100	2500	1900	900	
16	1088	2000	1300	2500	2100	1000	
20	1360	2000	1500	2500	2400	1000	
24	1632	2150	1650	2650	2500	1100	

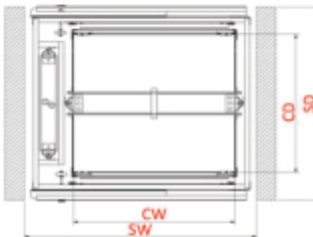
Goods Lifts with door entrances on the front only

100kg	1000	1000	1000	1200	1400*	1200	N/A	2350	2050
150kg	1000	1000	1000	1200	1400*	1200	N/A	2550	2250
200kg	1000	1000	1000	1200	1400*	1200	N/A	2550	2250
250kg	1000	1000	1000	1200	1400*	1200	N/A	2650	2250
300kg	1000	1000	1000	1200	1400*	1200	N/A	2650	2250



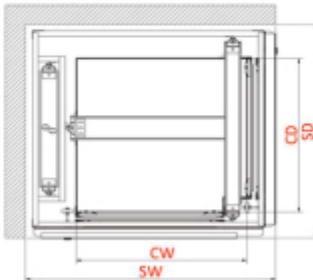
Goods Lifts with door entrances on the front and back (thru car arrangement)

100kg	1000	1000	960	1200	1400*	1200	N/A	2350	2050
150kg	1000	1000	960	1200	1400*	1200	N/A	2550	2250
200kg	1000	1000	960	1200	1400*	1200	N/A	2550	2250
250kg	1000	1000	960	1200	1400*	1200	N/A	2650	2250
300kg	1000	1000	960	1200	1400*	1200	N/A	2650	2250



Model 2050 & 2100 Lifts with door entrances on the front and side (adjacent car arrangement)

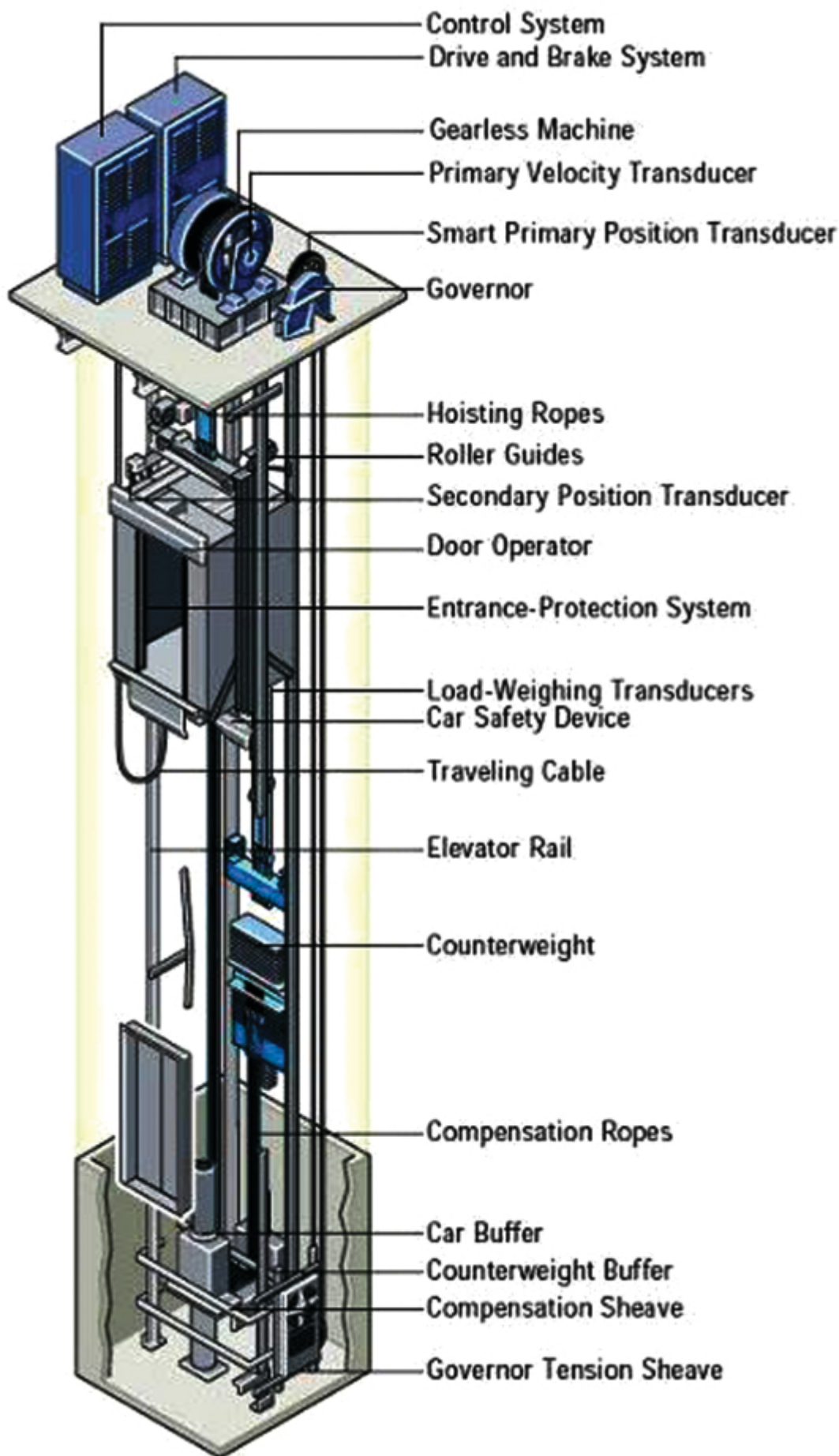
50kg	400	310	400	600	710*	550	900	2350	2050
50kg	530	410	500	800	910*	550	900	2550	2250
50kg	630	510	600	800	1010*	750	900	2550	2250
100kg	830	710	800	800	1230*	980	900	2650	2250



Incremental alteration to the car dimensions of 50mm can be made, with appropriate addition to the shaft and headroom measurements
Bespoke car options are available for specific load dimensions or weight or where the shaft or headroom restricts installation of a standard lift.

*Add 150mm to the shaft width for under driven models. Car fitted with safety gear, as required by the site conditions, may also need increased shaft width.
*Bespoke designs, altering the sill and car heights, will affect the headroom.





NOTE :

1. All dimensions are for clear finished lift wells after plastering.
2. Dimensions are suitable for lifts upto 0.66 mt. /sec speed.
3. Dimensions in the machine room depends upon orientation and number of lift shafts.
4. If access to machine-room is a steel ladder instead of a staircase, provide a trapdoor with lifting hook in the machine room.
5. For specific requirements our local requirements our local representative will be happy to work with you in preparation of the drawing.
6. Marked Car sizes in the tables require machine supporting beams to supplied by client (see elevation diagram titled. Lift with diverter wheel in the previous page).

BUILDING ELECTRICAL PANNEL BOARD SYSTEMS

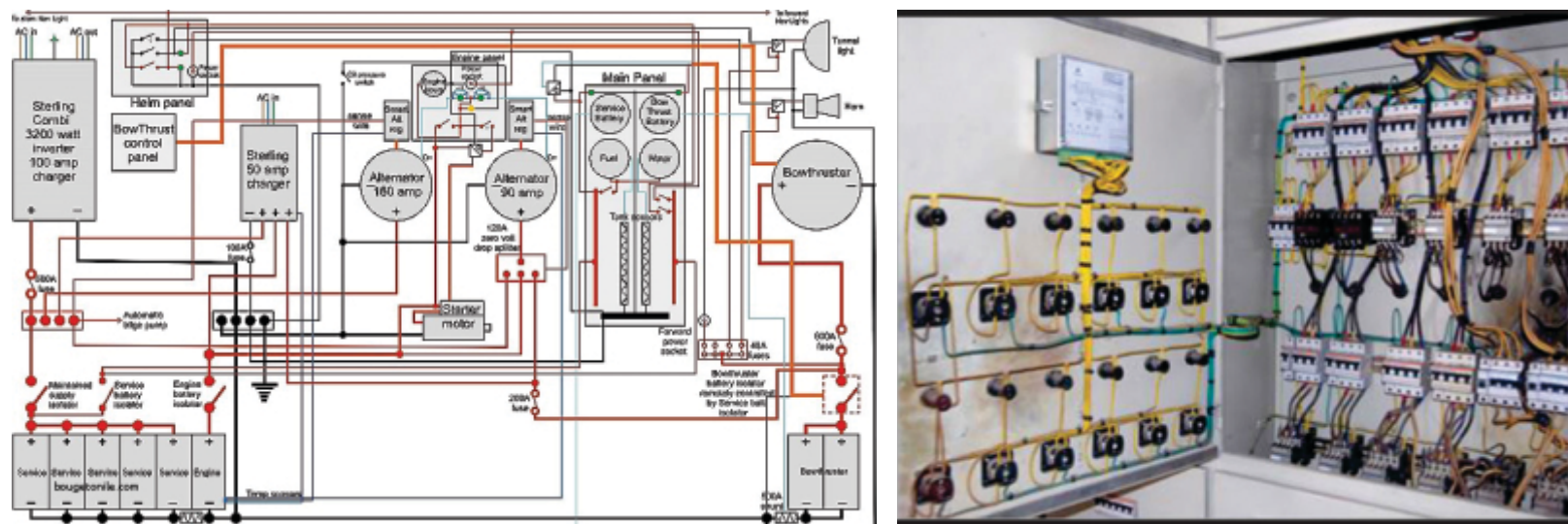
Innovation is our forte and manufacturing along with trading of Electrical Panel Boards from our side is a strong example of the same. When you are constructing a house or redesigning your home and have to design the electric panel board there are many things that you have to take into consideration. The function of the main electrical panel is to distribute electric power to the various appliances in the house.

A distribution board (also known as panel board, breaker panel, or electric panel) is a component of an electricity supply system that divides an electrical power feed into subsidiary circuits, while providing a protective fuse or circuit breaker for each circuit in a common enclosure.

For any Distribution board, the protection system (MCB) must be used in the incomer. For a three phase distribution panel either TP or TPN or 4P can be used as the incoming protection. TP MCB: It is most commonly used type in all ordinary three phase supply.



LIFT CONTROLLER & PANNEL BOARD SYSTEM



HYBON ELEVATORS

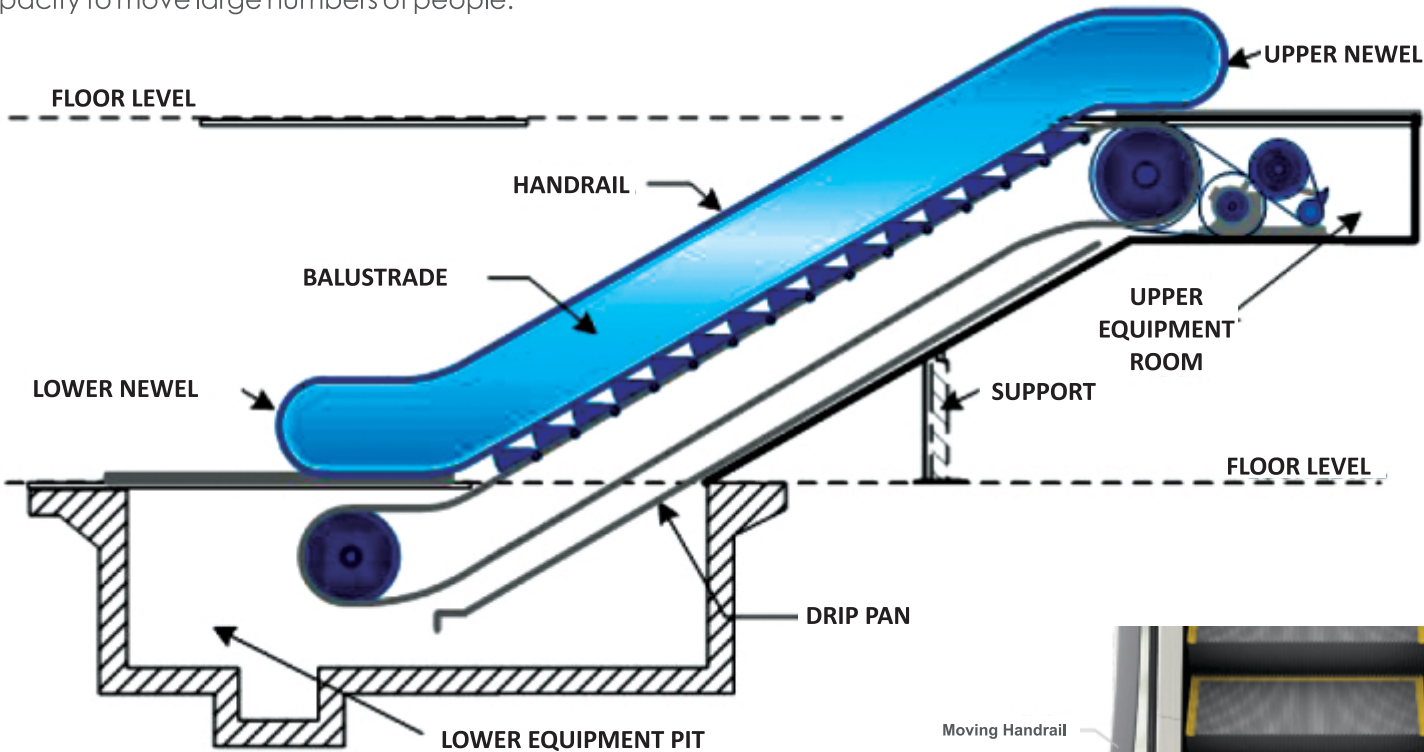
Hybon elevators and escalators are one of the leading producers of elevators and escalators in India. It is also the best lift company in Delhi. By giving focus on creativity and uniqueness, it gives the best product to its customers, according to the customer's choice of design. At Hybon, customer satisfaction is given the utmost priority as Hybon has its own legacy and always has the passion to grow its name and fame

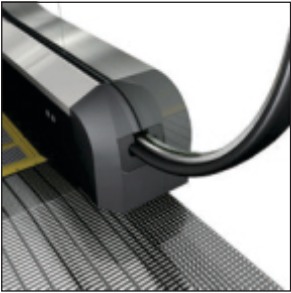




Escalator

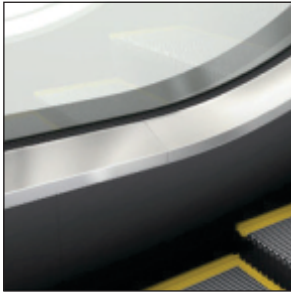
An **escalator** is a moving staircase which carries people between floors of a building or structure. It consists of a motor-driven chain of individually linked steps on a track which cycle on a pair of tracks which keep them horizontal. ... **Escalators** have the capacity to move large numbers of people.





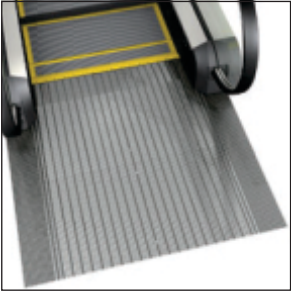
Rounded Handrail Inlet Cap

Our rounded Handrail Inlet Cap streamlines with the Moving Handrails, lending a silent elegance to the boarding and landing areas.



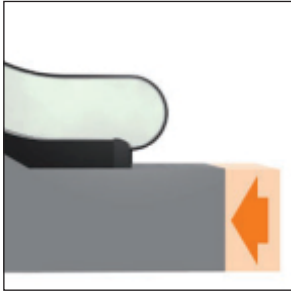
Screw-free Inner Deck

Removing screws from the Inner Deck side face not only presents an even softer, more simple look, but also removes the danger of passengers snagging their clothes.



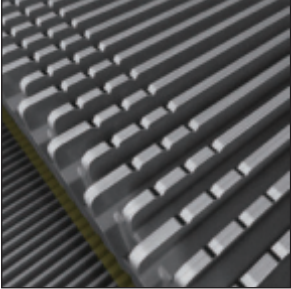
Clearly-contrasted Floor Plate

For improved visibility and smoother passenger flows, extended areas from the Moving Handrails feature different pattern with a clear contrast.



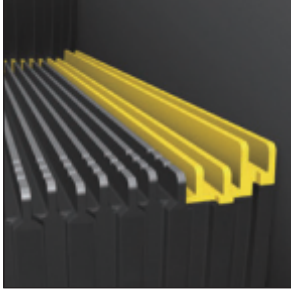
Space Saving

Shortening the Truss by 205mm* requires less escalator installation space and increases freedom in building layout.



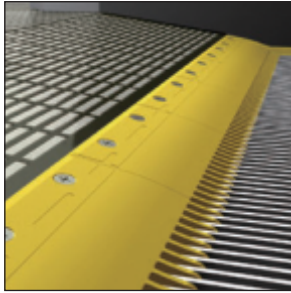
Step with Anti-Slip Grooves

Grooves along the corner edge of each step improve anti-slip performance and the visibility of each step for further passenger safety.



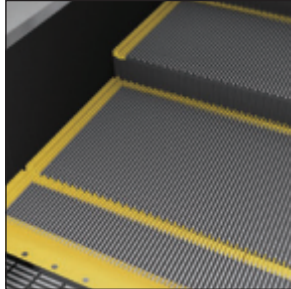
Tiered Demarcation Line

Demarcations along both sides of a step are raised from the step surface, thereby preventing passengers from getting too close to the skirt guards and preventing clothes from getting caught between a step and skirt guard.



Comb with Smaller Angle

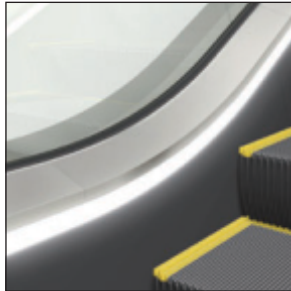
Mitsubishi recognizes how critical the Comb teeth angle is: even a small gap between the Comb and Step can result in a serious accident. Putting our years of experience and research to full use, we have made the angle the smallest it can be (10° to the horizontal) to keep passengers and items such as baggage from stumbling or getting caught between the Comb and Step.



Brighter Demarcation Color

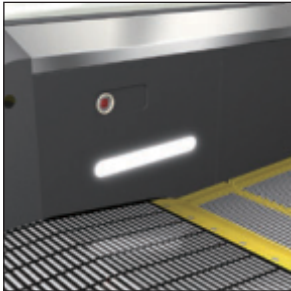
Attention to the smallest details is the chief theme of Mitsubishi's safety criteria, and the color of the Demarcation Line is no exception. The yellow Step and Comb Demarcation Line comes as standard and its brightness has been improved to provide better visibility of the Step, Comb and Floor Plate than in our other models

Lighting*1



Skirt Guard Lighting*2

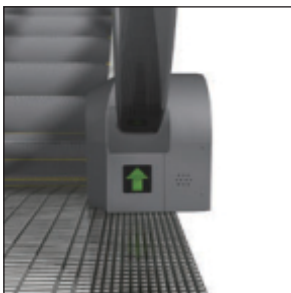
Lighting can be provided along the entire length of the skirt guard, lighting up the step demarcation for both visual effect and passenger safety.



Comb Light

Lighting provided at Comb level increases illumination, which further improves passenger safety around the Step as well as visual effect.

Directional Indicators at boarding and landing areas*1 *3



Handrail Inlet Cap LED Indicator

LED lamps form an arrow to indicate the escalator's traveling direction for boarding, or a No-Entry sign at the landing areas.

Warning System*3

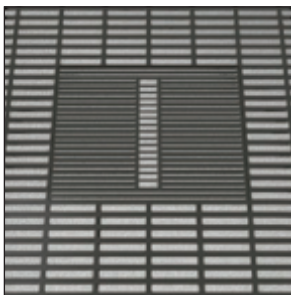


Outer Deck Sensor*4
When a sensor on the Outer Deck detects a passenger leaning outside the Moving Handrail, a buzzer and voice sound to alert the passenger to the potential danger of bumping against an adjacent escalator or wall.

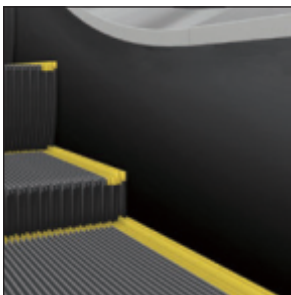


Inlet Sensor
This sensor keeps any passengers or foreign objects away from the Handrail Inlet, a warning buzzer and voice sounding when a person or object comes close to the Inlet.

More Options



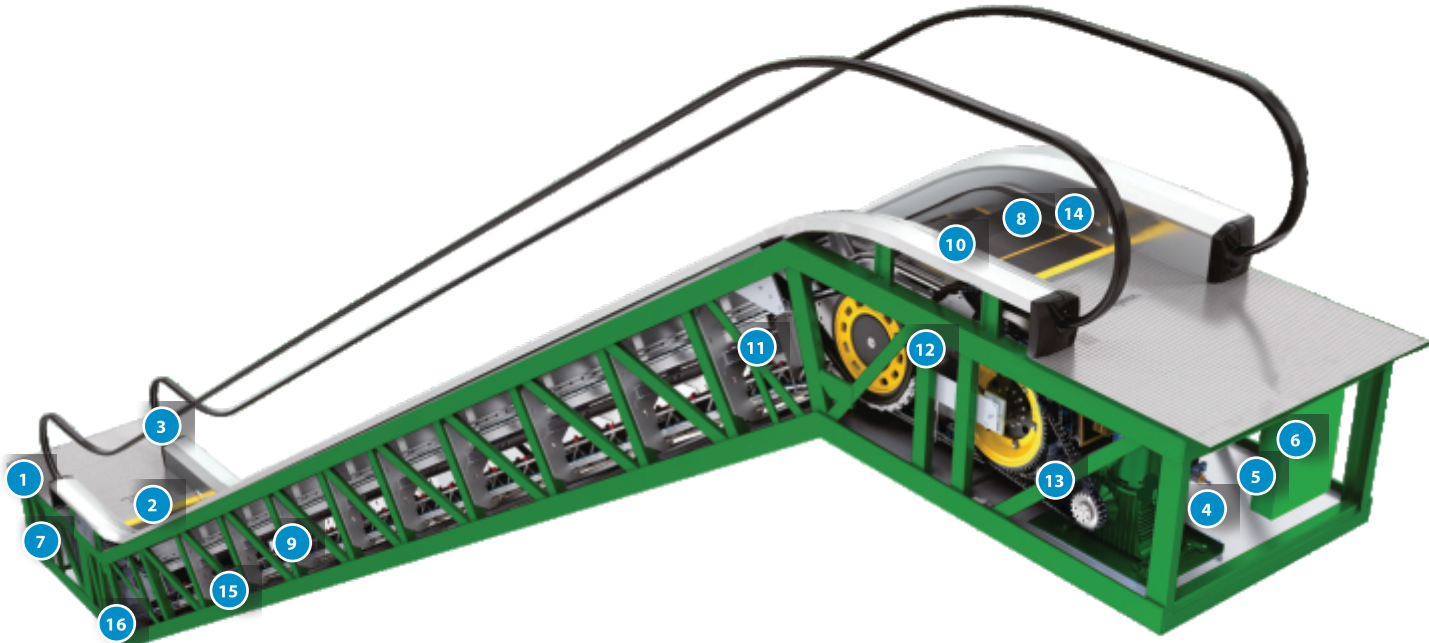
Floor Name
Floor names can be engraved on each floor plate to help passengers quickly identify which floor they are on.



Fluoropolymer Coating on Skirt Guard*5
The Skirt Guard can be coated with a friction-reducing resin to reduce the chance of passengers stumbling when their shoes come in contact with the Skirt Guard.

Multiple safety protection functions for escalator and moving walk

S.L.	Function name	Function description
1	Emergency stop button	Emergency stop device in an emergency, stop immediately if pressed.
2	Comb plate safety device	Comb plate safety device stop if objects are caught between comb plate and step treads.
3	Protective device for handrail	Handrail entry safety device stops if a hand or object is pulled into the handrail entry.
4	Phase (fault phase) protection	Phase monitoring device stops if missing phase or wrong phase occurs.
5	Over speed protection device	Over-speed detector stops if operating above normal speed.
6	Non operation reversal protection device	Non-reversing safety device stops if its direction of operation is reversed.
7	Cascade chain protection device	Step chain safety device stops if the step chain breaks or becomes loose.
8	Apron protection device	Skirting panel safety device stops if objects are caught between the step and skirting panel.
9	Step and pallet protection device	Step safety device stops if steps are operating in abnormal manner due to fractured step.
10	Step gap lighting	Step gap green light under the horizontal steps ease passengers to ride safe.
11	* Additional brake device	Auxiliary brake stops if the driving chain breaks or over-speeds.
12	Safety device of brake shoe wear	Brake lining wear safety device stops if the lining of main break is worn abnormally.
13	Drive chain protection device	Driving chain safety device stops if the driving chain breaks are excessively loosed.
14	* Comb plate lighting	Comb plate light lighting on both sides of comb plate ease passengers to ride safety.
15	Handrail speed detection device	Handrail speed detector stops if handrail is below normal speed due to handrail breakage or elongation.
16	Protection device with a broken handrail	Handrail broken safety device stops if the handrail breaks or stops.



Ascensor

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