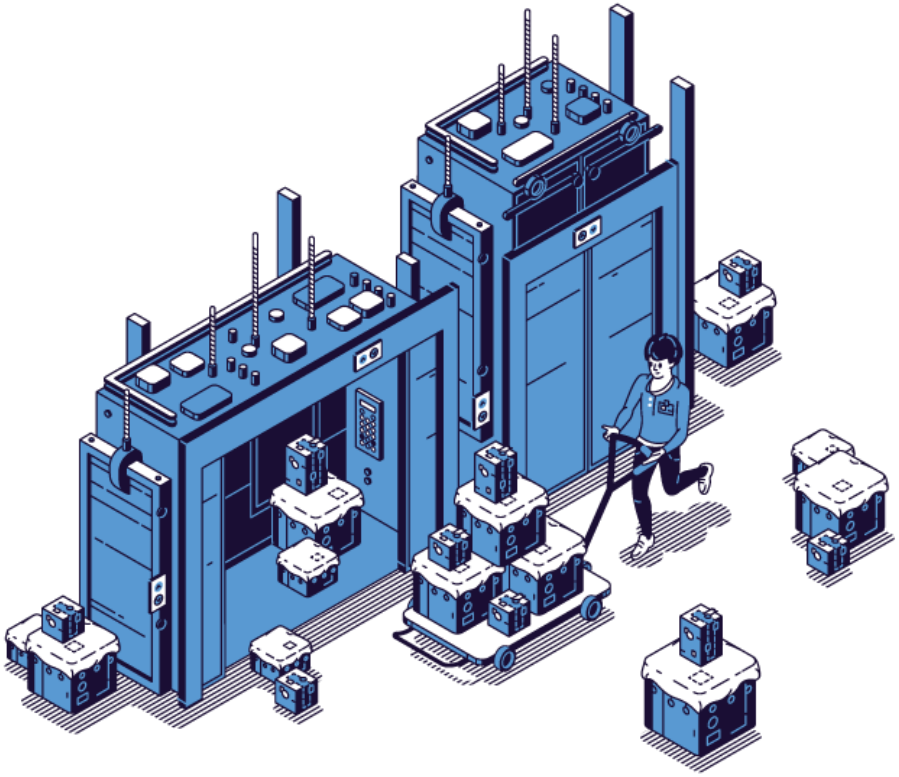
EASA ELEVATORS

How to Choose a **Freight Elevator?**



You have the power to make an informed choice!

A Freight Elevator has to be carefully chosen as it is meant to serve you for decades, it's just not only for its Size, Capacity, Speed and Orientation but also should be compatible as per Indian Standards (IS), Government norms and Lift rules in force.

Capacity

How & What

The Weight and Volume of the material to be transported at ONE TIME will determine the capacity.

Remarks & Recommendations

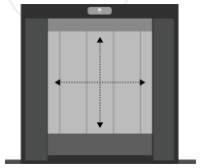
However, volume and size of the cabin will also have to be considered keeping in mind the requirement of lift authorities. A capacity of 443 kg/Sq.mtr for moderate loading is recommended.

Size of Car

How & What

The volume of goods (trolley size/ no. of pallets) to be transported at ONE TIME will determine the size of the car/ cabin.

Remarks & Recommendations

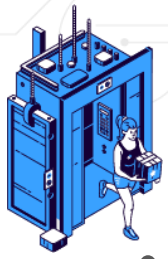


You can choose any size that is required by the user, we will suitably design the elevator according to BIS specification.

Number of Floors and Travel Height

How & What

Each stoppage will be considered as one stop and travel from the bottom most floor to the topmost floor is the travel distance.



Remarks & Recommendations

Example: A four stop lift will have Ground + First + Second + Third floor. We can cater travel heights from 2.5 meters to 150 meters

Lifting Speed

How & What

General industry standard is 0.5 meters/second i.e. 30 meters/minute.

Remarks & Recommendations

Higher or Customized speeds is an option

Traffic Analysis- How many elevators do you need in your facility

How & What

To calculate the actual weight, volume of material to be transported between various floor levels in one hour / one shift and the various areas in which the load is to be carried in one facility

Remarks & Recommendations

This helps in concluding the capacity, speed, and the number of lifts to be installed in the facility

Machine Room or Machine Room Less

How & What

Most installations are now machine room less type. However, please check for convenience, if your building height permits or you have an option to provide machine rooms on top of the shaft. This option is not mandatory.

Remarks & Recommendations

Machine room less elevators save construction cost hence most elevators are now fitted with Gearless Machines which employ latest modern technologies for enhanced performance.

Lift Entrance Door

How & What

Manual Doors or Automatic Doors with electrical and Mechanical interlocks

Remarks & Recommendations

Automatic Doors are used for air-conditioned shop floors or clean room areas or where lift rules demand so. Manual Doors are employed for very rough and tough usage

Orientation
Loading and Un-loading Sides

How & What

The Car can be loaded from one side and unloaded from another side, please choose from any options.

Front Opening – Single side opening
Front & Rear Opening -180 degrees -Two side opening
Front & Side Opening - 90 degrees -Two side opening
Front, Rear & Side Opening – 180 & 90 degrees - Three side opening

Remarks & Recommendations

Yes, any choice is possible!

Cabin Interior & Landing Door & Door Frame Materials

How & What

Mild Steel Powder Coated | Stainless Steel

Remarks & Recommendations

General Industries use powder coated finishes. | Food Processing & Pharma industry use stainless steel interiors for unpacked, raw and finished goods

Traction Drives

How & What

Counter-Weight System - Use of multiple ropes & out of balance loads. The number of ropes will depend on the load and speed of the elevator

Remarks & Recommendations

Elevators used with S4 / S5, Industrial duty always Use multiple ropes & out of balance load system for higher speeds, efficiency, safety and Longer Life.

Safety Brakes & Over-speed Governor

How & What

Overspeed Governor to trip on more than rated speed in the downward direction which activates the safety brake on cabin to prevent free fall of the elevator in an emergency is mandatory

Remarks & Recommendations

During a free fall, when the cabin speed in downward direction is more than the rated speed, the overspeed Governor trips resulting in Safety Brake below the cabin getting actuated resulting in instant stoppage of the lift.

Integrated Frequency Drives with Closed Loop Operations

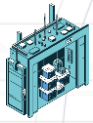
How & What

Integrated Drives are the latest technology in Elevator Engineering. CE Certified Integrated lift controllers

Remarks & Recommendations

Integrated Drives have inbuilt safety features, smooth functioning and a very good uptime. Results in accurate floor levelling, Jerk less Travel, Soft start & stop features and up to 40% saving on power

Advanced
Optional Features & Benefits



Multiple Guiding System

Overload Device

Automatic Rescue Device

Self Leveling Device

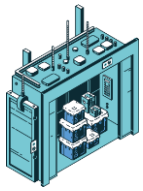
Emergency Calling & IOT Functions

Multiple Guiding System

How & What

4 or more guide rails with safety brakes on each rail are used for sturdy and balanced vertical movement in large cabins

Remarks & Recommendations



To prevent the car from tilting or for unbalanced loads in the car, in large cabins and heavy concentrated loads multiple guiding system is used. Safety Brake is installed along with all guide rails on the cabin for these installations.

Overload Device

How & What

When the car is overloaded an Audible and visual display is activated.

Remarks & Recommendations

Accuracy of +/- 2 to 3 %. When the load is corrected within the permissible limit (rated load) an Auto Correction for normal operations is facilitated instantly.

Automatic Rescue Device
ARD

How & What

In case of Power failure, the lift moves to the next floor.

Remarks & Recommendations

With the ARD back up device which have Maintenance free batteries, The car travels to the nearest landings and the doors open for evacuation. Mandatory in some states All Controller should have the option to use an ARD

Re Leveling Device

How & What

A re levelling device corrects the floor levelling after heavy loads are loaded in the cabin. For very heavy loads, this option is necessary

Remarks & Recommendations

Example - When a forklift enters the cabin, the cabin floor level changes, the cabin moves down about 50-75mm (depending on load). The floor level of the cabin needs to be corrected to the landing level. In this instance the Re Levelling device activates and bring back the cabin to match the floor level.

Emergency Calling & IOT Functions

How & What

Emergency calling for trapped passengers
& Remote monitoring

Remarks & Recommendations

A passenger can use this facility for calling or reaching out to three pre-fed numbers. The Calling device calls on the pre-fed numbers thrice until it receives a response.

Remote monitoring is used by Building Management systems. Easa can also offer this facility for predictive maintenance, fault finding and remote correction.

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