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SAFEX INDUSTRIES LIMITED

CRANES AND ELEVATORS



Safe Admired Fastgrowing Engineered for Xcellence

Photo Gallery



SAFEX - THE SAFEST IN MATERIAL HANDLING

INDEX

CRANES

| | |
|---|----|
| >> SINGLE GIRDER EOT CRANE | 02 |
| >> DOUBLE GIRDER EOT CRANE | 03 |
| >> SEMI GOLIATH CRANE | 04 |
| >> GOLIATH CRANE | 05 |
| >> JIB CRANE | 06 |
| >> CONTAINER HANDLING CRANE (RMGC) | 07 |
| >> HOISTS | 08 |
| >> WIRE ROPE HOISTS | 09 |
| >> CHAIN PULLEY BLOCKS | 10 |
| >> CHAIN HOISTS | 11 |

ELEVATORS

| | |
|--|----|
| >> CAPSULE ELEVATOR..... | 12 |
| >> PASSENGER ELEVATOR (MANUAL DOOR)..... | 13 |
| >> PASSENGER ELEVATOR (AUTO DOOR)..... | 14 |
| >> FREIGHT ELEVATOR..... | 15 |
| >> FLAME PROOF GOODS CUM PASSENGER ELEVATOR | 16 |
| >> HOSPITAL (STRETCHER) ELEVATOR | 17 |
| >> HYDRAULIC ELEVATOR..... | 18 |
| >> MRL (GEARLESS) HOME ELEVATOR..... | 19 |
| >> MRL (GEARLESS) ELEVATOR..... | 20 |
| >> OPTIONAL CAR DESIGNS..... | 21 |
| >> OPTIONAL DOOR DESIGNS..... | 22 |
| >> COP & LOP | 23 |

CRANES

» SINGLE GIRDER EOT CRANE



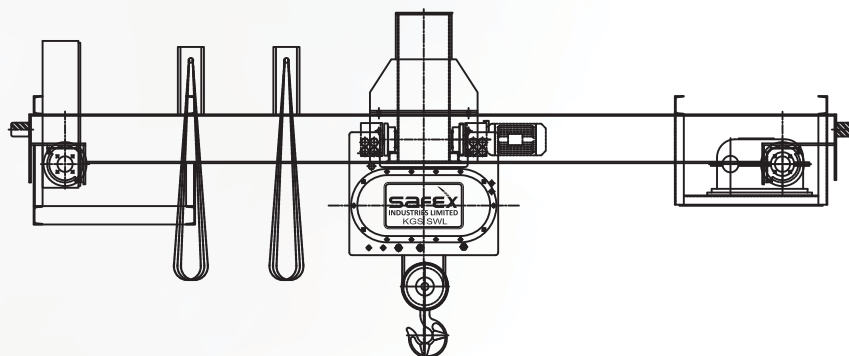
» **Span**
3 mtrs. to 35 mtrs.

» **Safe Working Load**
0.5 ton to 20.0 ton

» **Crane Control**
From floor through Pendant Push Buttons, Optionally through Radio Remote Control / cabin with master control.

» **Power Supply System**
To Hoist and Cross Travel through Trailing Cables / Drag Chain to Crane through Shrouded Bus Bars / Trailing Cable / MS Angle Iron Conductors / Bare Copper Conductors (Depending on Customer's Choice and Application).

» **Motors**
Squirrel Cage & Slip Ring Motors based on application requirements, built-in separator electrically operated fail to safe brakes for all three motions. Motors with 'F' class insulation provided in all motions.



CRANES

» DOUBLE GIRDER EOT CRANE



» **Span**
5 mtrs. to 85 mtrs.

» **Safe Working Load**
0.5 ton to 200 ton

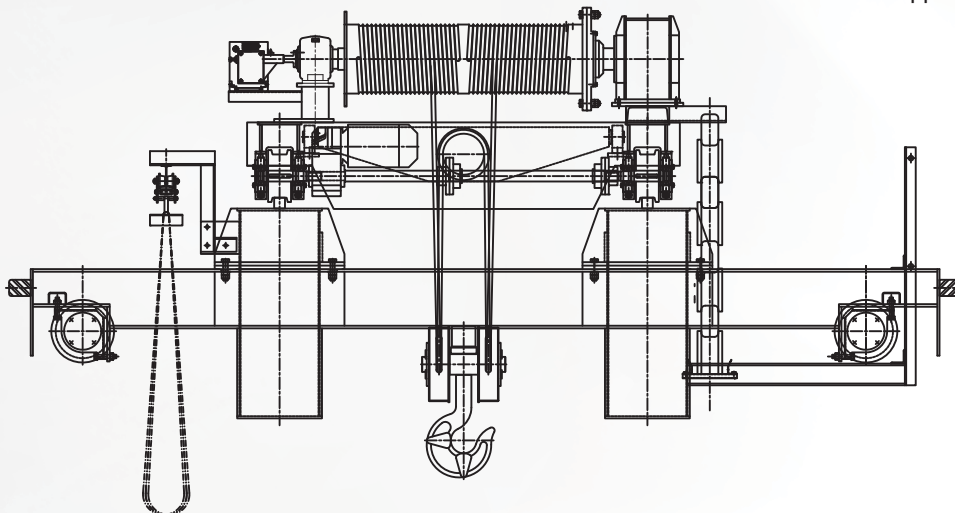
» **Drive System**
Accordance with IS/BS/DIN Structural Parts and
Other Miscellaneous Parts with IS/BS/DIN

SAFEX Single Girder and Double Girder E.O.T. Cranes are designed in accordance with IS 807 & IS 3177 Code of practice for design, manufacturing creation & testing of structural portion of the crane.

In the design of Components adequate factor of safety as per relevant code is allowed, impact, fatigue, wear & stress concentration factors are considered whenever applicable.

» **Class of Duty / Standards**
Equivalent to M3, M5, M7, M8 as per IS/BS/DIN

» **Speed**
Selected depending on client specifications /
applications / shed dimensions.



SEMI GOLIATH CRANES

>> SEMI GOLIATH CRANE



> Span

5 mtrs. to 20 mtrs.

> Safe Working Load

1.0 ton to 30.0 ton

>> Crane Control

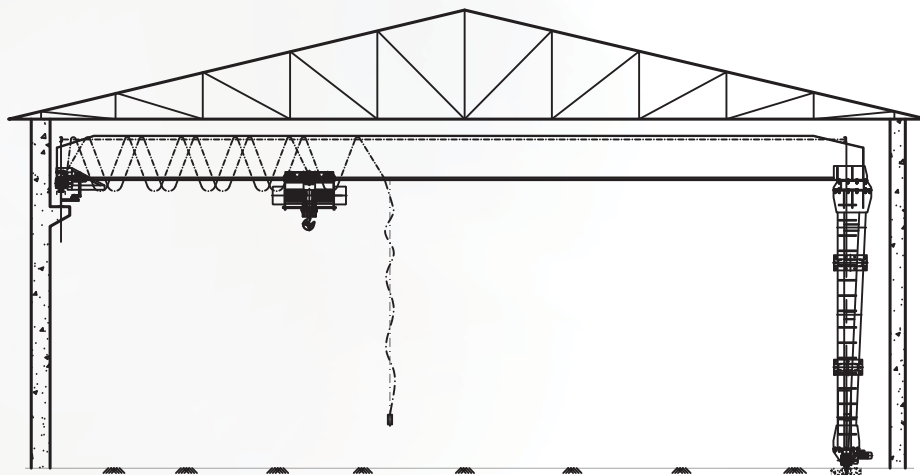
From floor through Pendant Push Buttons, Optionally through Radio Remote Control / cabin with Master control.

>> Motors

Squirrel Cage & Slip Ring Motors based on application requirements, built-in separator electrically operated fail to safe brakes for all three motions. Motors with 'F' class insulation provided in all motions.

>> Power Supply System

To Hoist and Cross Travel through Trailing Cables / Drag Chain to Crane through Shrouded Bus Bars / Trailing Cable / MS Angle Iron Conductors / Bare Copper Conductors (Depending on Customer's Choice and Application).



GOLIATH CRANES

>> GOLIATH CRANE



➤ **Span**

5 mtrs. to 50 mtrs.

➤ **Drive System**

Accordance with IS/BS/DIN Structural Parts
and other Miscellaneous Parts with IS/BS/DIN

➤ **Speed**

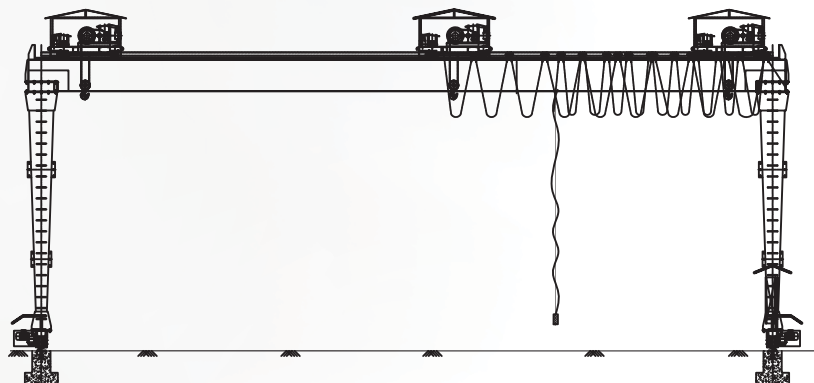
Selected depending on client specifications /
applications / shed dimensions.

➤ **Safe Working Load**

1.0 ton to 200 ton

➤ **Class of Duty / Standards**

Equivalent to M3, M5, M7, M8
as per IS/BS/DIN



JIB CRANES

>> JIB CRANE

SAFEX Jib cranes meet the most demanding material handling requirements. There are various jib crane models from which to choose; floor-mounted pillar types; top and bottom-supported units; wall or column-mounted version and models that afford manual or motorized rotation. Built to the highest industry standards. **SAFEX** Jib cranes have earned a reputation for ruggedness and durability.



➤ **Radius**
2 mtrs. to 6 mtrs.

➤ **Safe Working Load**
0.5 ton to 5.0 ton

➤ **Class of Duty / Standards**
Equivalent to M5, M7, M8 as per IS/BS/DIN

➤ **Crane Control**
From floor through Pendant Push Buttons, Optionally through Radio Remote Control

➤ **Power Supply System**
To Hoist and Cross Travel through Trailing Cables

➤ **Motors**
Squirrel Cage, based on application requirements, built-in separator electrically operated fail to safe brakes for all three motions. Motors with 'F' class insulation provided in all motions.

➤ **Drive System**
Accordance with IS/BS/DIN Structural Parts and other Miscellaneous Parts with IS/BS/DIN

➤ **Speed**
Selected depending on client specifications / applications.

CONTAINER HANDLING CRANE (RMGC)



Features :

- Applauded for high performance, energy efficiency and robust structure
- Highly demanded for lifting heavy weight goods
- Designed with rail span up to 50 meters and lifting height up to 25 meters
- Available with cantilever option
- Finished by anti-corrosive paint to protect from rust
- High hoisting and trolley speed for fast operation

RMG Model Designation SILRMGC35

Advantages of Rail Mounted Gantry Crane for Yard Stacking

- Perfect material handling option for rail terminals as well as for port
- Can be operated in different yard space areas. It is useful for increasing storage space
- The utilization of this crane ensures low emission rate and noise level
- Low maintenance cost
- Due to its low energy consumption, its operation cost is low

Anti-Sway System (Eight Rope Reeving)

Advantages by Design

- Low spreader setting time
- Maintains firmness of hoist and trolley position.
- Ensures steadiness of crane
- It eliminates the necessity of using extra machinery or ropes
- Prevents head block and lowers unnecessary load caused for using rope or empty container
- Energy efficient mechanism
- These electricity operated spreaders require minimal maintenance
- Raises production rate

Motors and Speed Control System

Motors / Suppliers

- All drives are specially designed to ensure high rotational speed and high power requirements for increasing its working life
- All the key parts have been procured from trustworthy European manufacturers

Speed Control System

- Featured with rigid construction, trouble free functioning and adjustable design, the offered control system has been designed by keeping operational requirements of container cranes in mind.
- The "plug-in" interchangeable design of this electronic item ensures easy accessibility of crane. Moreover, its advanced mechanism helps to reduce its running cost by lowering the necessity of employing competent operator.

Safex Rail Mounted Gantry Crane

- The unique design of reeving system prevents oscillation
- Regenerative operation for reduction of load and working speed that ensure low energy consumption
- Its well built structure is truly useful for automation application purpose. Optional accessories like DGPS auto steering and container positioning system are available with this gantry crane
- Its travel system is directly controlled by its gearbox
- Arrangement for different drives for its trolley, hoist and travel sections for eliminating the necessity of side shift on its spreader. This special design is useful for its hassle free operation.
- Large service network all over India.
- Wide scope of both in house and on location training
- Group of highly competent and veteran employees who have required domain knowledge of after sales service
- The responsibility of employees involve to provide necessary solution for operational, structural, electrical functioning, development and service related problems.

Options

- Communication point with terminal operating system or TOS
- Festoon/energy chain system
- Anti impact system
- Container pathway and automation of RMG
- Container fixing arrangement
- Facility for remote operation

HOISTS

>> FLAME PROOF HOISTS



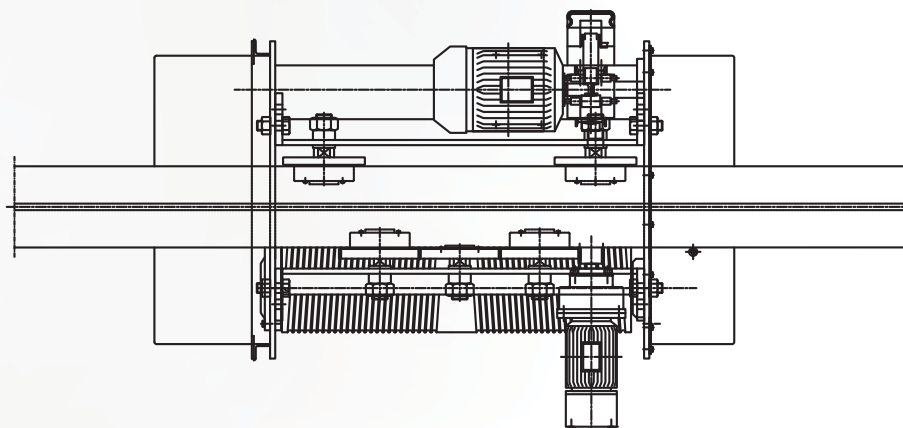
SAFEX flame proof hoists are manufactured in wide range like lifting capacities between 0.5 ton, to 25 ton, lifting height up to 50 mtrs., with various types of cross travel trolleys like power travel type, hand geared travel, push pull trolley, flexible trolley to negotiate even a small radius.

>> **SAFEX** flame proof hoists are designed in modular construction which greatly simplifies repairs and cuts down-time. **SAFEX** flame proof hoists are designed in accordance with IS/BS/DIN All electrical apparatus are housed in flame proof enclosures confirming to IS/BS/DIN and mechanical components are designed so that there is no ferrous metal to ferrous metal contact in order to void any chance of sparking. Hence **SAFEX** flame proof hoists are flame proof as well as spark proof.

➤ **Class of Duty / Standards**
IS/BS/DIN

➤ **Safe Working Load**
0.5 ton to 25.0 ton

>> **SAFEX** flame proof hoists are offered for gas group I, IIA and IIB suitable for zone - 1 and zone - 2 areas whereas for gas group IIC flame proof hoists are offered only for zone - 2 areas.



WIRE ROPE HOISTS

» WIRE ROPE HOISTS

SAFEX Wire hoist is very compact with elegant appearance. Hoist with modular construction which simplifies repairs & maintenance. The various parts like motors, gear box, control panel etc. are easily accessible. The hoist gear train is with precision hob cut helical gears having hardness up to 250 to 300 BHN, running on antifriction type ball/roller bearings housed in sheet metal cover with gasket & lubricated with oil bath lubrications. The rope drum is made from M. S. pipe having machined cut spiral grooves & mounted on self alining ball bearings. The guide is made from ferrous material will be provided for perfect siting of rope drum grooves. Electromagnetic fail to safe type brakes are provided on hoist motion which ensure perfect safety even in case of power failure. Limit switches are provided on hoisting & over lowering.



» Crane Control

From floor through Pendant Push Buttons, Optionally through Radio Remote Control.

» Safe Working Load 0.5 ton to 25.0 ton

» Power Supply System

To Hoist and Cross Travel through Trailing Cables / Shrouded type DSL system (Depending on Customer's Choice and Application).

» Motors

Squirrel Cage Motors based on application requirements, built-in separator electrically operated fail to safe brakes for all three motions. Motors with 'F' class insulation provided in all motions.

» Class of Duty / Standards

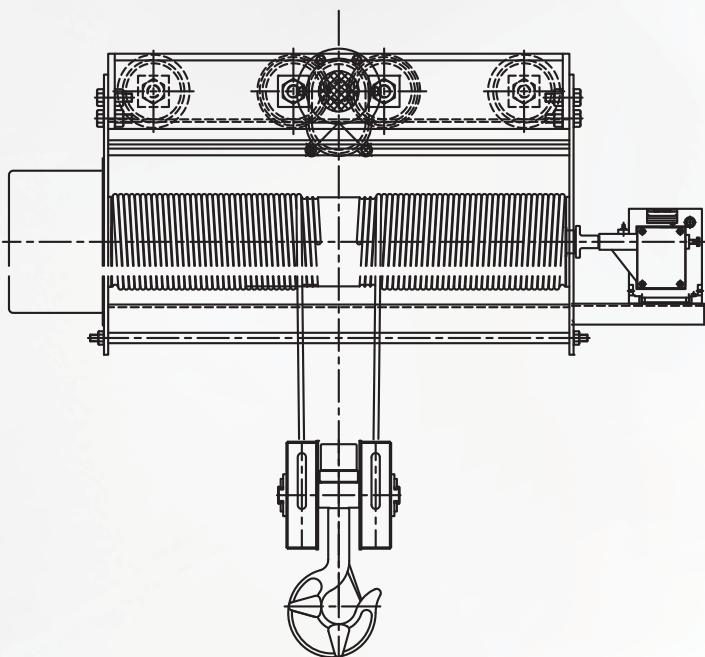
Equivalent to IS/BS/DIN

» Speed

Selected depending on client specifications / applications / shed dimensions.

» Drive System

Drive through Squirrel Cage Induction Motors with built-in separate fail to safe brakes.



CHAIN PULLEY BLOCK

» CHAIN PULLEY BLOCKS



SAFEX chains pulley blocks are designed and manufactured in accordance with and are available in Hook suspension type push-pull trolley type and geared trolley type. Load chain used is graded alloy steel chain and hand chain is M. S. calibrated to relevant Indian standards and International standards.

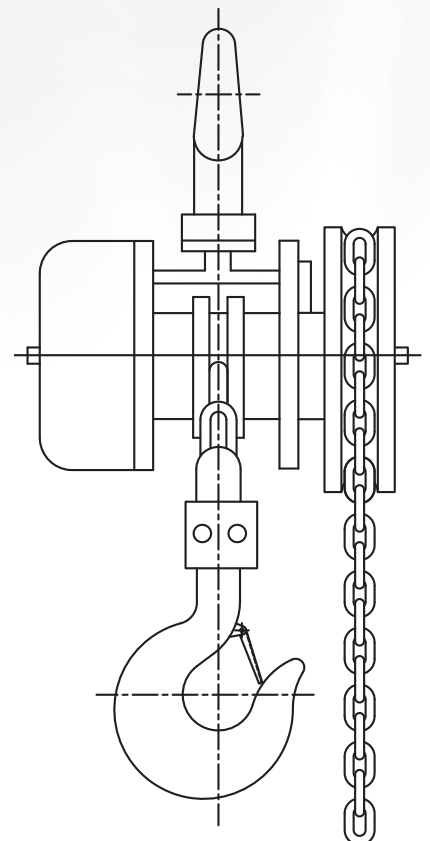
➤ **Safe Working Load**
Capacity upto 20 Tons.

» **Low Headroom.**

» **Positive Transmission**

» **Lubrication :**

Totally enclosed gear case is packed with sufficient grease.



CHAIN HOISTS

>> CHAIN HOISTS

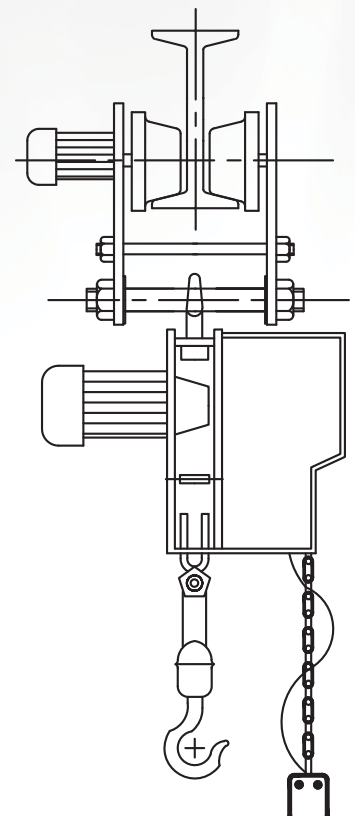


SAFEX electric chain hoists are designed in modular construction for easy maintenance. The special features like low headroom, spur gears running on antifriction ball bearings with oil bath lubrication, motors conforming to IS/BS/DIN etc. **SAFEX** chain hoists unbeatable to its price. **SAFEX** chain hoists are available in hook suspension type, Push pull trolley type, hand geared trolley type, power travel trolley type and flexible trolley type to negotiate small radius.

Chain Hoists

➤ **Safe Working Load**
0.5 ton to 2.0 ton

- ▶▶ Concentrated design for high substance.
- ▶▶ The chain hoist tested at 125% overload before dispatch.
- ▶▶ Quality Designed forged steel top and bottom hooks.
- ▶▶ Precision shaped load sheave is mounted to assure minimum wear and smooth operation.



ELEVATORS

>> CAPSULE ELEVATOR

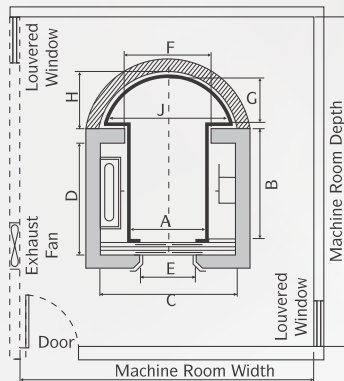
We provide all types of capsule lifts having ultra modern design to provide a cosmic zone experience to the passengers. The design provides extremely silent operation. It is also reliable and economical with minimum maintenance.

The VVVF close loop microprocessor controller incorporated with the system makes the whole operation very sophisticated.

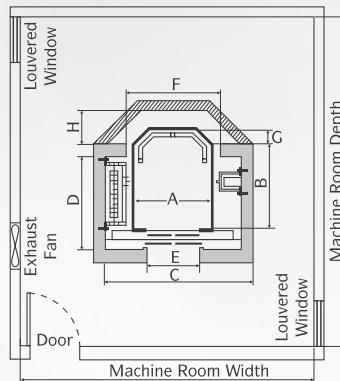
Features of the Capsule Elevators

- ▶ Made from S.S./M.S. with vision panel.
- ▶ Color-Powder coated, Elegant looks, Light in weight and variable speed.
- ▶ Controller Full Proof to voltage (PLC or Solid state) with fully collective- selective system.
- ▶ AC VVVF drive for jerk free operation & for variable speed.
- ▶ Overload indication and Auto Door announcing system.
- ▶ Avail Inverter facility for single base at time of Power failure.
- ▶ Push Button Luminous type highly attractive as well as durable.
- ▶ Facility Floor Position Indication at the floors as well as in cabin.

Option-A



Option-B

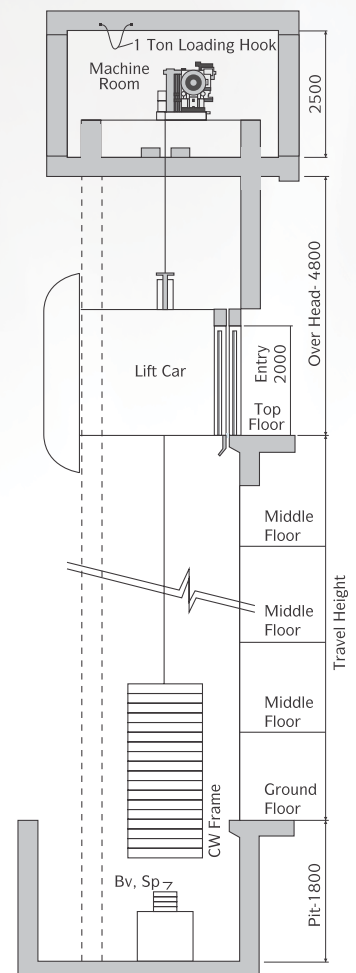


Parameters for
Options - A

| Load | | Car Inside | | | | Left 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 |

Options - B

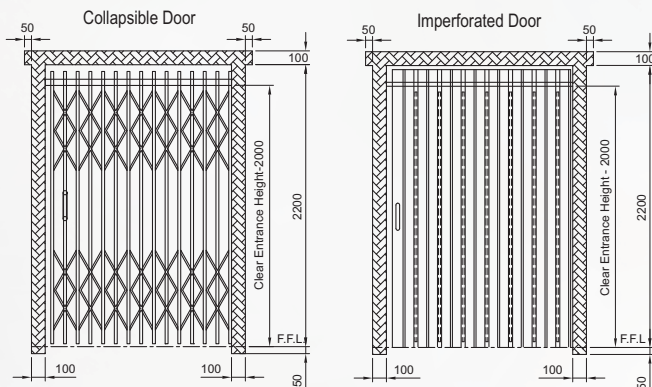
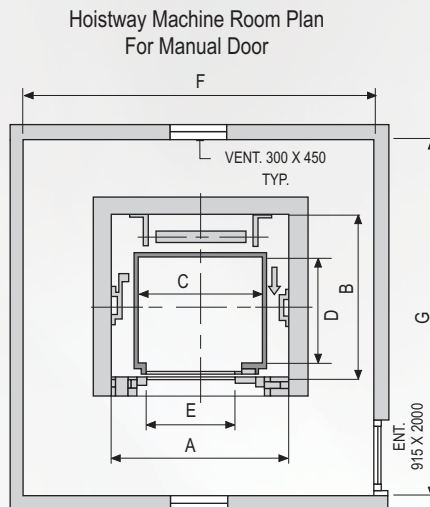
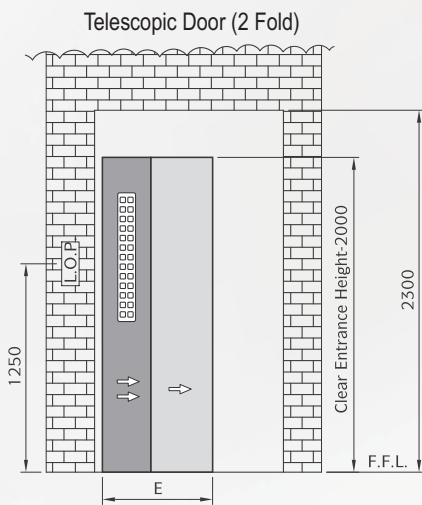
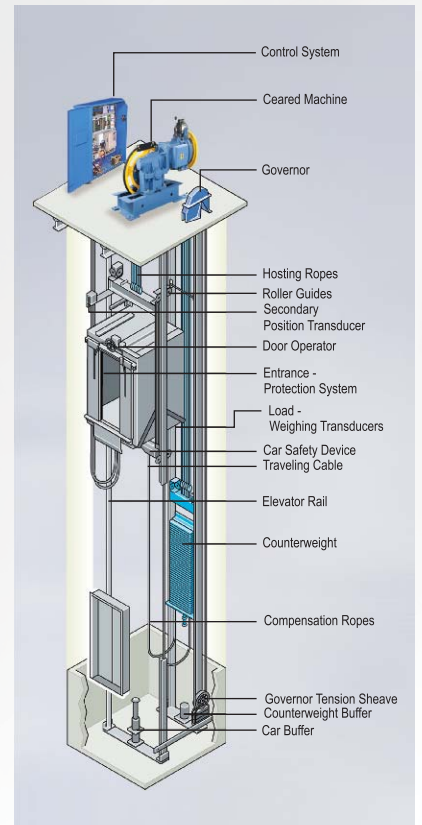
| Load | | Car Inside | | | Left Well | | | | Entrance |
|--------|------|------------|------|-----|-----------|------|------|-----|----------|
| Person | Kgs. | A | B | G | C | D | F | H | E |
| 10 | 680 | 1250 | 1300 | 250 | 2200 | 1450 | 1480 | 580 | 800 |
| 13 | 884 | 1400 | 1400 | 300 | 2400 | 1550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



» PASSENGER ELEVATOR

MANUAL DOOR

- The passenger elevators detailed here are designed to handle promptly and efficiently the transportation requirements of any type of building-which means any traffic condition.
- They are renowned for fine quality and robust performance.
- Delivers maximum lifting power with a minimum of effort.
- A superior combination of flexibility and performance.
- It gives benefits of jerk less travelling, economically low power consumption and excellent design.
- Features : Cent percent safety, Easy to use and maintain



Parameters for Manual Traction Lift

| Capacity | | Lift Well | | Cabin Inside | | Entry |
|----------|------|-----------|------|--------------|-------|----------|
| Person | Kgs. | A | B | C | D | E |
| 5 | 340 | 1600 | 1500 | 1070* | 900* | 700 |
| 6 | 408 | 1650 | 1650 | 1120* | 990* | 700 |
| 8 | 544 | 1800 | 1650 | 1320* | 1100* | 800 |
| 10 | 680 | 1800 | 2050 | 1070 | 1650 | 800 |
| 13 | 884 | 1850 | 2500 | 1070 | 2100 | 800/900 |
| 15 | 1020 | 1900 | 2600 | 1120 | 2200 | 800/900 |
| 20 | 1360 | 2100 | 2800 | 1320 | 2400 | 900/1000 |
| 26 | 1786 | 2400 | 2800 | 1620 | 2400 | 900/1000 |

All Dimension are in mm.
This is General Data, it may be changed without notice.
All hoist way walls should be minimum 230 mm brick or 150 mm R. C. C.

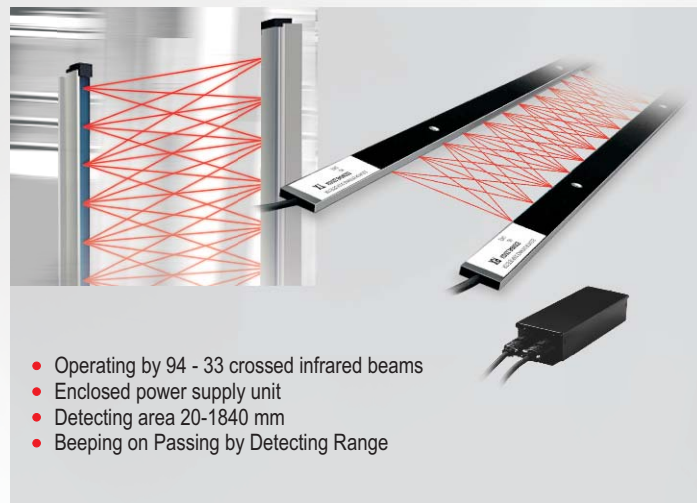
ELEVATORS

>> PASSENGER ELEVATOR

AUTO DOOR

- Has been engineered with full automatic doors.
- Fabricated with most advanced lift controls, appreciated for their high speed, smooth travel and perfect leveling different types of doors Centre Opening, Telescopic Opening.
- In high density requirements, we can provide grouping of multiple elevators to reduce the waiting time of the passengers.
- Our proficiency allows us to design and develop Passenger Elevators of various sizes and capabilities.
- It gives benefits of jerk less travelling, economically low power consumption and excellent design.

Multi-ray Entrance Protection System

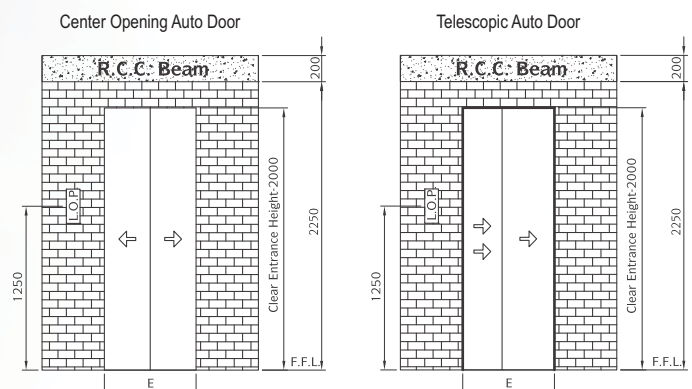


- Operating by 94 - 33 crossed infrared beams
- Enclosed power supply unit
- Detecting area 20-1840 mm
- Beeping on Passing by Detecting Range

Parameters for Automatic Traction Lift

| Capacity | | Lift Well | | Cabin Inside | | Entry |
|----------|------|-----------|------|--------------|------|----------|
| Person | Kgs. | A | B | C | D | E |
| 5 | 340 | 1600 | 1500 | 1120 | 850* | 700 |
| 6 | 408 | 1650 | 1600 | 1220 | 880* | 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 |

All Dimension are in mm.
This is General Data, it may be changed without notice.
All hoist way walls should be minimum 230 mm brick or 150 mm R. C. C.

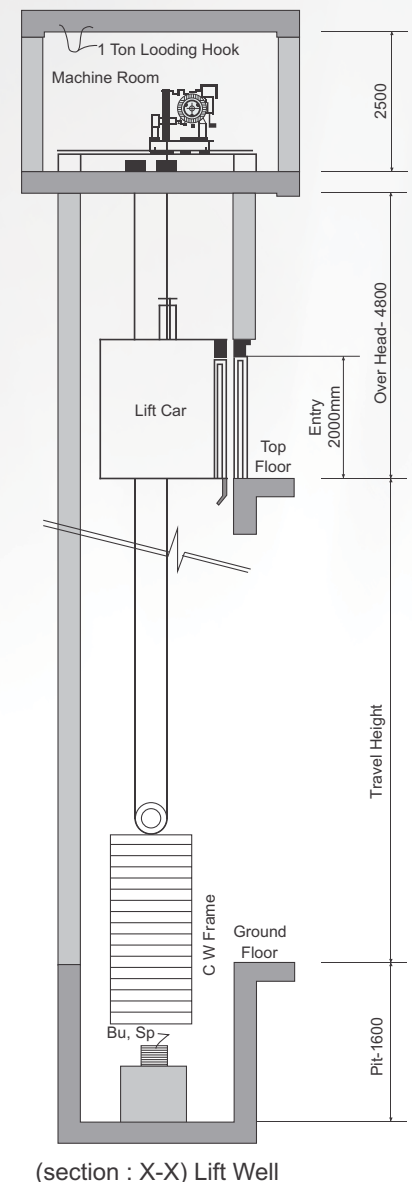
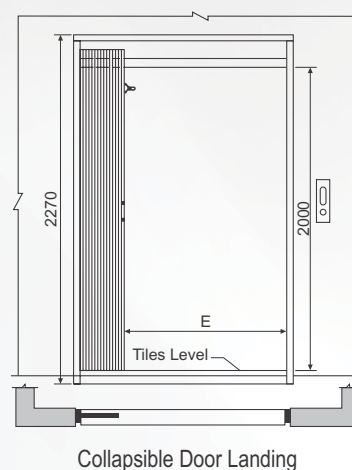
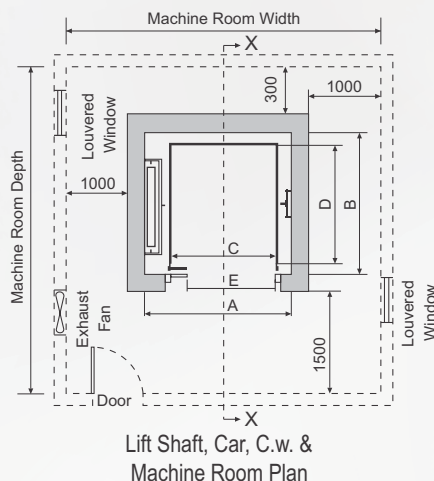


ELEVATORS

» FREIGHT ELEVATOR

We provide a complete range of freight elevators of different load carrying capacity. An freight elevator in your building will make handling of goods easy & enhancing production. We supply freight elevators with dust proof equipments as per our customers' requirement.

Directly and indirectly, modern freight elevators make for efficient operation throughout the building. The results of properly planned freight elevator installation show up in increased material handled volume and greater earning power.



Parameters for Freight Elevator

| Capacity | Shaft-W | Shaft-D | Car-W | Car-D | Entrance |
|----------|---------|---------|-------|-------|----------|
| Kgs. | (A) | (B) | (C) | (D) | (E) |
| 500 | 1900 | 1500 | 1100 | 1200 | 900 |
| 1000 | 2300 | 2100 | 1400 | 1800 | 1150 |
| 1500 | 2600 | 2300 | 1700 | 2000 | 1400 |
| 2000 | 2600 | 2800 | 1700 | 2500 | 1400 |
| 2500 | 2900 | 2800 | 2000 | 2500 | 1625 |
| 3000 | 2900 | 3300 | 2000 | 3000 | 1625 |

ELEVATORS

>> FLAME PROOF GOODS CUM PASSENGER ELEVATOR

Wherever Inflammable, Explosive and corrosive vapours liquids and gases are expected to be present the most important demand to be met by elevator in such hazardous area is high degree of reliability and perfection " SINCE FAULTS MAY ENTITLE SERIOUS DANGER TO PERSONNEL & PLANT ". For selection of explosion proof elevator, following points should be taken care of :

(1) Hazardous Area: Hazardous area categorised into zones depending on the frequency and duration as per IS:5572 (Part-1) i.e. zone '0', zone '1' and zone '2'

(2) Ignition Temperature: Flammable gases and vapours are categorized in temperature classes from T1 to T6. Ignition temperature is the lowest temperature at which the flammable gas will ignite.

(3) Hazardous Gas: Hazardous gas have been classified in IS: 2148-1981 and are associated only with flame proof enclosures. These gases along with the ignition temperature classes are listed as following :

Gas Group - I, IIA & IIB

All electrical apparatus are housed in flame proof enclosures confirming to IS.2148 and mechanical components are designed so that there is no ferrous metal to ferrous metal contact in order to void and chance of sparking. Hence 'SAFEX' flame proof elevator are flame proof as well as spark proof. 'Safex' flame proof elevators are offered for Gas Group I, IIA & IIB suitable for zone-1 & zone-2 Areas.

Cap.500 kgs to 5000 kgs



FLP Equipments



FLP Junction Box



FLP Push Button Station



FLP Isolator Switch



FLP Control Panel



FLP Gravity Limit Switch



FLP Rotary Limit Switch



FLP Floor & Gate Limit Switch



FLP Light

ELEVATORS

>> HOSPITAL (STRETCHER) ELEVATOR

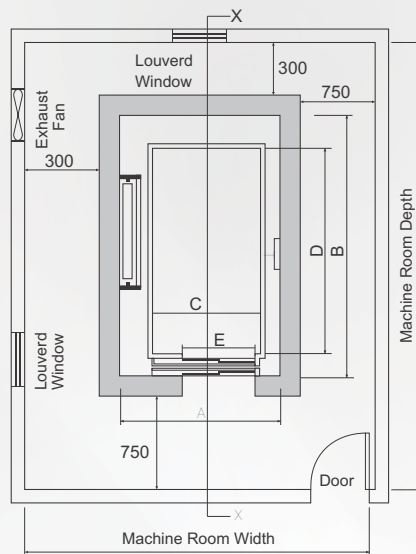
We are manufacturing stretcher elevators of various capacities & speeds to suit customers' requirement. The cabin we provide for patients, are spacious & very comfortable with proper exhaust system and jerk free stopping . It is also designed to transport bulky hospital equipments. Versatile automatic control system is provided to permit economical self service or an attendant operation. Emergency control system makes the lift reliable and safe.



Safety Door Edge (SDE) (Standard)



A mechanical safety device with a micro-switch reverses closing doors if there is physical contact with a passenger or an object.



Parameters for Automatic Centre Opening Door Lifts

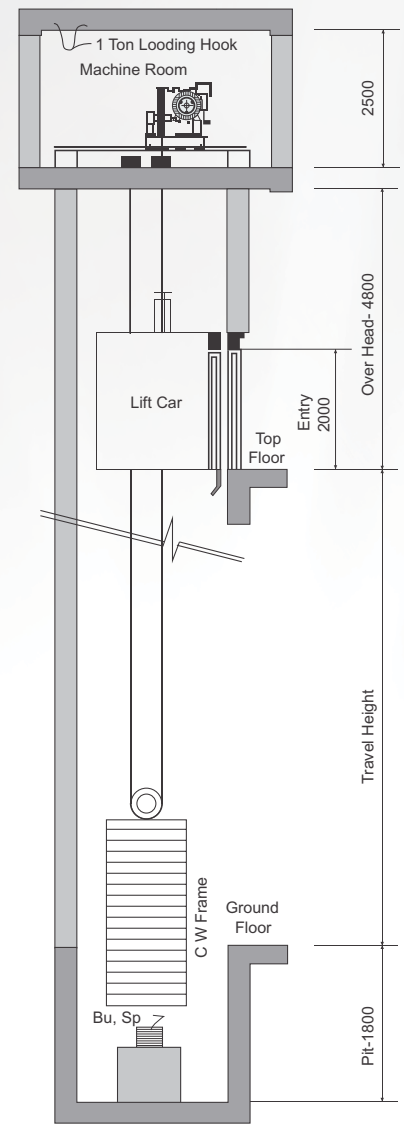
| Person | Capacity | Shaft-W | Shaft-D | Car-W | Car-D | Entrance |
|--------|----------|---------|---------|-------|-------|----------|
| | Kg | A | B | C | D | E |
| 15 | 1020 | 1900 | 3000 | 1000 | 2400 | 800 |
| 20 | 1360 | 2300 | 3000 | 1300 | 2400 | 900 |
| 26 | 1768 | 2600 | 3000 | 1600 | 2400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

Collapsible Door can be provided if required.

Parameters for 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 |

All dimension in mm.



(section : X-X) Lift Well

ELEVATORS

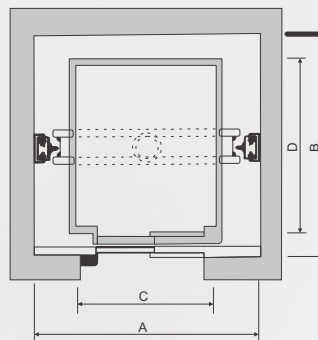
>> HYDRAULIC ELEVATOR

Looking for a low-maintenance elevator? Hydraulic lifts provide the advantages of being relatively inexpensive, safe and easy to maintain. They're very convenient and cost-effective solution for low-rise buildings with low traffic.

Hydraulic elevators have been rated the safest option for home elevators. They boast superb user friendliness and easy access machine room located at the basement. Once they are put in place, hydraulic elevators provide the smoothest rides possible.

Hole Type

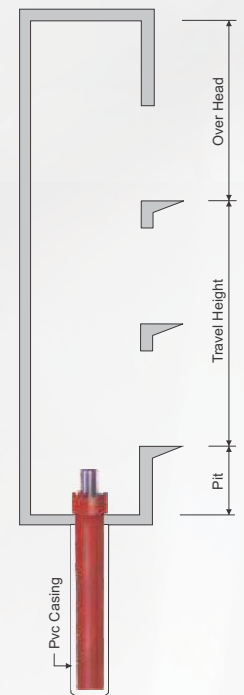
It is a direct suspension with a simple or split piston.
It is the simplest solution of suspension for any load.



Parameters for
Hole Type

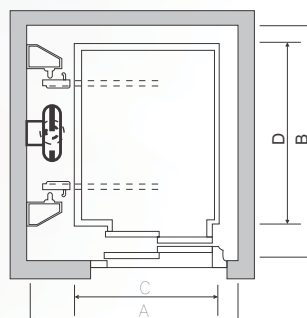
| Person | Capacity Kg. | Shaft-W (A) | Shaft-D (B) | Car-W (C) | Car-D (D) |
|--------|-----------------|----------------|----------------|--------------|--------------|
| 3 | 225 | 1200 | 1200 | 800 | 900 |
| 4 | 300 | 1250 | 1350 | 850 | 1050 |
| 5 | 375 | 1400 | 1400 | 1000 | 1100 |
| 6 | 450 | 1500 | 1500 | 1100 | 1150 |
| 8 | 600 | 1500 | 1700 | 1100 | 1400 |
| 10 | 750 | 1600 | 1850 | 1200 | 1550 |
| 12 | 900 | 1700 | 1950 | 1300 | 1650 |
| 15 | 1125 | 1700 | 2300 | 1300 | 2000 |
| 20 | 1500 | 1800 | 2700 | 1400 | 2400 |
| 24 | 1800 | 1900 | 2800 | 1500 | 2500 |

PIT : 1500 mm • O.H. : 3900 mm
(PIT & O.H. change the technical specification)



Holeless Type 1

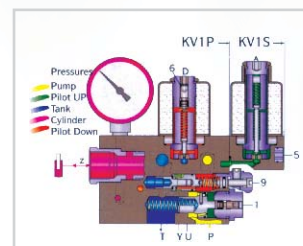
It is a single side direct suspension with a simple piston
for regular loads and short travels of maximum 4 meters.



Parameters for **Holeless Type 1**

| Per son | Capacity Kg. | Shaft-W (A) | Shaft-D (B) | Car-W (C) | Car-D (D) |
|---------|-----------------|----------------|----------------|--------------|--------------|
| 3 | 225 | 1500 | 1500 | 800 | 900 |
| 4 | 300 | 1550 | 1550 | 850 | 1050 |
| 5 | 375 | 1700 | 1700 | 1000 | 1100 |
| 6 | 450 | 1800 | 1800 | 1100 | 1150 |
| 8 | 600 | 1800 | 1800 | 1100 | 1400 |
| 10 | 750 | 1900 | 1900 | 1200 | 1550 |
| 12 | 900 | 2000 | 2000 | 1300 | 1650 |
| 15 | 1125 | 2000 | 2000 | 1300 | 2000 |
| 20 | 1600 | 2100 | 2100 | 1400 | 2400 |

PIT : 1200 mm • O.H. : 3660 mm



COMPONENTS



HYDRAULIC CONTROL PANEL



POWER UNIT



EV-100



PIPE RUPTURE VALVE



L-10



HAND PUMP



KV-1P



SCREW PUMP



Oil Pipe



ELEVATORS

» MRL (GEARLESS) HOME ELEVATOR

Home elevators not only increase the value of your home, but can also provide you stunning showpiece. At the same time, home lifts can allow the disabled and elderly to easily move about a multi-level dwelling.

The term "home elevator" commonly refers to a lift enclosed in a shaft, and which can travel vertically as much as 15 m. (50 ft.). Home elevators make it easier to carry groceries, laundry or anything else from one floor to another. And today, they're fully customizable - choose from a wide range of materials, such as marble walls or stained glass, to turn your home elevator into an expression of your own unique style !

Less Space Less Energy
More Flexibility

Gear-less Machines for HOME ELEVATORS

- Our home elevators are driven by a Permanent Magnet Gearless Machine. Only available until recently on high-end commercial elevators, this technology delivers extremely smooth, noiseless motion. No need to worry about being disturbed by the noise of the elevator in your living space!
- Multiple safety components (such as low-speed shaft braking and electrical dynamic braking) act either separately or combined, to provide the highest level of safety in the industry.
- Our home elevators are featured Machine Room-Less (MRL) design. They take up no additional space other than the hoist way.
- Our home elevators need no space overhead.

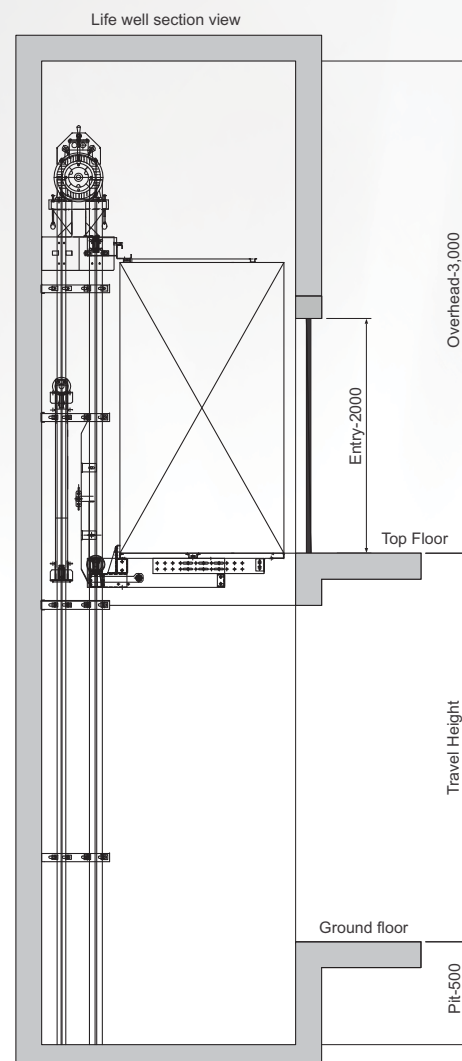
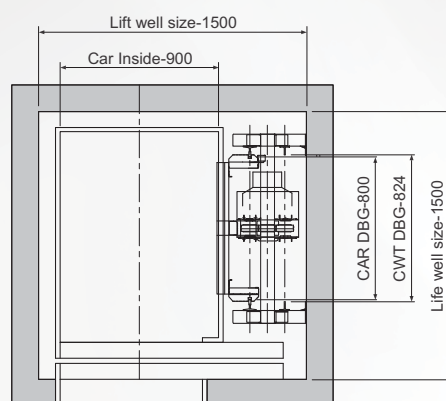
Energy Savings



Permanent Magnet Gearless Machines
For Home Elevators

Parameters For Home Elevator

| | | | |
|-----------|-------------------|------------------|----------|
| RPM | 120 | Pulley Dia. | 100 mm |
| Frequency | 12 Hz. | Rope Dia. | 4 mm |
| Voltage | 230 VAC | No. of Ropes | 4 |
| kW / Hp | 0.75 / 1 | Lifting capacity | 300 kg |
| Weight | 70 Kg. | Lift Speed | 0.32 m/s |
| Brake | Pick-Up : 220 VDC | Max. Travel | 15 Mts. |
| Voltage | Holding : 110 VDC | Starts / Day | 100 |



ELEVATORS

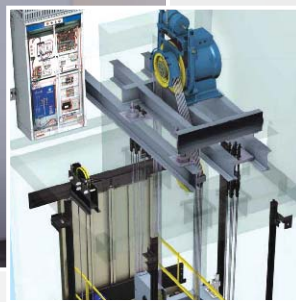
>> MRL (GEARLESS) ELEVATOR

Machine Room-Less (MRL) lifts are traction elevators that feature a compact motor drive mounted on the car itself. They don't require to build a separate elevator machine room.

MRL lifts allow you architectural flexibility, but they also provide fast, powerful and energy-efficient transportation. Though traction lifts were originally limited to high-rises, the innovative MRL design has allowed engineers to adapt traction elevators for low-rise buildings and multi-story homes.

Advantages of MRL Elevators :

- Permanent Magnet Gearless Machine for smooth and quiet motion.
- 1 m/s to 1.6m/s speed range (180 starts per hour).
- 10 to 16 passenger load range (680 - 1088kg).
- Smooth ride, due to the first-class roller shoe suspension.
- Versatile landing and car door configurations.
- Earthquake-friendly jugged guiding.
- Small control cabinet on the upper level.
- Totally integrated system for greater reliability.
- Time and money-saving benefits: long lifespan, low operating cost, easy installation and service.
- Cost-efficient elevator application, No machine room.



Low Noise

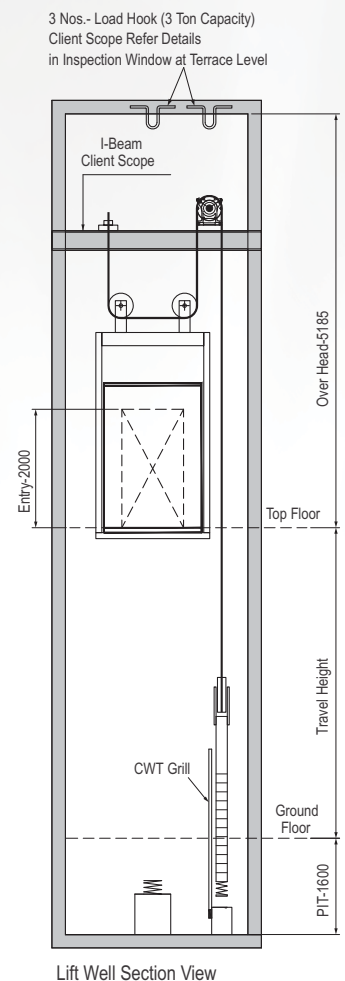
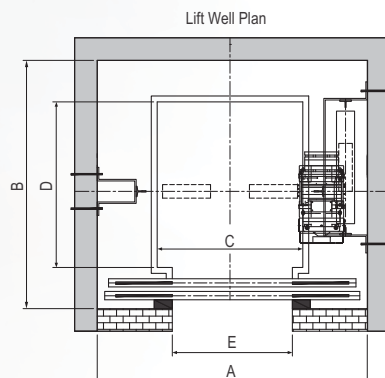
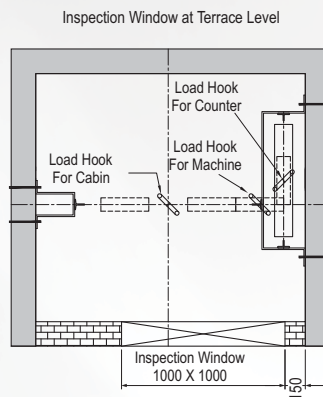


Parameters For Manual MRL Lift

| Capacity | | Lift Well | | Cabin Inside | | Entry |
|----------|------|-----------|------|--------------|------|----------|
| Person | Kgs. | A | B | C | D | E |
| 5 | 340 | 1600 | 1500 | 920* | 1050 | 700 |
| 6 | 408 | 1650 | 1650 | 870* | 1200 | 700 |
| 8 | 544 | 1800 | 1650 | 1120 | 1300 | 800 |
| 10 | 680 | 1800 | 2050 | 1070 | 1650 | 800 |
| 13 | 884 | 1850 | 2500 | 1070 | 2100 | 800/900 |
| 15 | 1020 | 1900 | 2600 | 1120 | 2200 | 800/900 |
| 20 | 1360 | 2100 | 2800 | 1320 | 2400 | 900/1000 |
| 26 | 1786 | 2400 | 2800 | 1620 | 2400 | 900/1000 |

Parameters For Automatic MRL Lift

| Capacity | | Lift Well | | Cabin Inside | | Entry |
|----------|------|-----------|------|--------------|------|----------|
| Person | Kgs. | A | B | C | D | E |
| 5 | 340 | 1600 | 1500 | 920* | 1050 | 700 |
| 6 | 408 | 1650 | 1600 | 870* | 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 | 1786 | 2450 | 3000 | 1620 | 2400 | 900/1000 |



ELEVATORS

>> OPTIONAL CAR DESIGNS

The elevator cabin can make a big impression on passengers. It reflects the building's decor and your commitment to tenants' comfort.

DECORATION STYLE

Fall Ceiling



Carpet



Handrail



Stainless Steel & Glass Cabin



Wooden Cabin



Stainless Steel Cabin



Gold Finish Decorative Cabin



Wooden & Stainless Steel Cabin



Stainless Steel Designer Cabin



Stainless Steel Decorative Cabin



Stainless Steel & Powder Coating Cabin

ELEVATORS

>> OPTIONAL DOOR DESIGNS

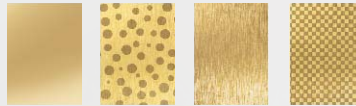


2-PANEL SIDE OPENING Car Door Mechanism

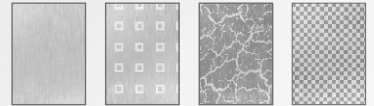


2-PANEL CENTRE OPENING Landing Door Mechanism

Etching Gold Finish



Etching S.S. Finish



Big Vision Glass Door



Full Vision Glass Door



Telescopic Door



Center Opening S.S. Auto Door



Manual Telescopic Door



Swing Door



Collapsible Door



Imperforate Door

ELEVATORS

>> COP & LOP

A wide choice of durable interior materials



Elegance Designs

Secure COP



RF ID Based COP Access



Biometric Based COP Access

Push Buttons



Operating Panels



Operating Panels



Stainless Steel Finish



Light
(Dual Light) Red & Blue



Red Illumination



Landing Fixture



Landing Fixture



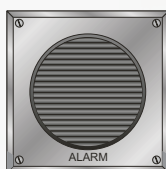
Car & Hall Surface Mount Fixtures



Elevator Floor Announcing System



Announcer Close Door



Emergency Alarm



QUALITY AND SERVICES

Quality and Services

► Quality Policy

SAFEX Industries Ltd. is manufacturer of materials handling and electrical equipments in Flame Proof Enclosures which are designed as per agreed specifications and timely supplying quality products to satisfy the customers with continuous improvement in product and service with motivated and committed work force and effectively complying Quality Management System.

► Quality of our Products

Beyond a stellar attention to customer service and excellence in engineering, we at **SAFEX** ensure that the utmost in quality is applied to all means of production, supplying and exporting of all our material handling equipments. To deliver quality products :

- We perform alignment of trolley and crane wheels, leveling and measuring, analysis of results, strength calculations for safe operations of crane.
- We provide Testing Certificate for all the crucial parts required for the all type of cranes.
- In-house Testing Capabilities for up to 150-200 tonnes.

► Internal Quality Audits

One of the best ways that we can get across our attention to quality to someone considering our services is not just through our words; but through the strict accreditation of internal quality audits that come with being ISO 9001:2008 certified. ISO 9001:2008 means Companies that are accredited with this certification have been strenuously and continuously audited as regards how their qualitative product is being created and engineered. The International Organization of Standardization has many strict requirements that a company must satisfy in order to receive this certification, of which the following apply :

- Procedural conduct for all key processes in the business.
- Process monitoring for effectiveness.
- Maintaining internal records.
- Reviewing output for defects with corrective action where necessary.
- Reviewing on a regular basis individual processes and quality system to ensure that the optimum efficiency is obtained.
- Striving towards improvement at all legs of the company's existence.

► Our Service

- We arrange selection and installation procedure for Gantry Rails and Gantry Girders for Single Girder Type E.O.T. Cranes, Double Girder Type E.O.T. Cranes and Goliath/ Gantry Cranes.
- We perform design of supporting the Gantry Girders, design of Monorails and support for Electric Hoists.
- We contribute selection of the control system for the Hoists and E.O.T. Cranes , sizing of Cable Reeling Drums and cables of Goliath / Gantry Cranes.
- We arrange selection and sizing of incoming cables and protective equipment and economic routing, based on work shop architecture
- We carry out Erection and Commissioning of Cranes, Hoists, Cage Hoists (Goods Elevator), Chain Pulley Blocks and Rails. We also provide Gantry Alignment readiness and refurbishment of old Cranes.
- We provide Load Testing and Certification of the Material Handling Equipment.

FEW OF OUR ESTEEMED CLIENTS

- » Alembic Pharmaceuticals Ltd.
- » ABB Limited
- » Asian Paints Limited
- » Adani Group
- » Arvind Mills Ltd.
- » Bayer Cropscience Ltd.
- » Birla Corporation Limited
- » Bharat Electronics Limited
- » Bridgestone India Private Limited
- » DCM Sriram Group
- » Ferromatik Milacron India Ltd.
- » Godrej Industries Ltd.
- » Hindustan Unilever Ltd.
- » Hindustan Petroleum Corporation Ltd.
- » Institute of Plasma Research
- » IFFCO
- » Indian Oil Tanking Ltd.
- » Indian Oil Corporation Limited
- » Indian Steel Corporation Limited
- » Inductotherm (India) Limited
- » ISRO
- » Jindal Saw Limited
- » Larsen & Toubro Ltd.
- » Lupin Ltd.
- » Nilkamal Ltd.
- » ONGC Mangalore Refinery
- » Pidilite Industries Ltd.
- » Reliance Industries Ltd.
- » Sintex Industries Ltd.
- » Suzlon Energy Ltd.
- » Tata Chemicals Ltd.
- » Telco Construction Equipment Co. Ltd.
- » Welspun India Ltd.

asianpaints



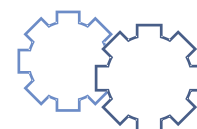
Quality of Products

Beyond a stellar attention to customer service and excellence in engineering, we at **SAFEX** ensure that the utmost in quality is applied to all means of production, supplying and exporting of all our material handling equipments.



Services

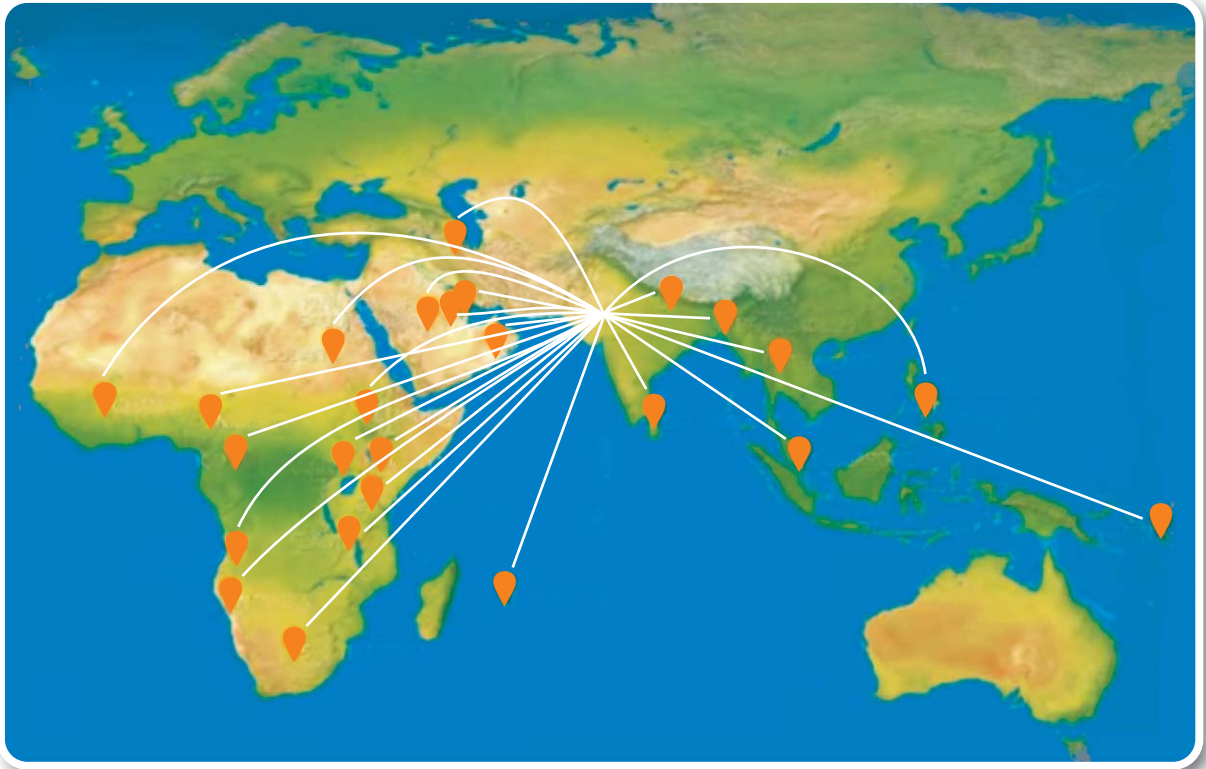
We arrange selection and installation procedure for Gantry Rails and Gantry Girders for Single Girder Type E.O.T. Cranes, Double Girder Type E.O.T. Crane and Goliath / Gantry Cranes.



Custom Solutions

SAFEX has a history of designing material handling equipments for any kind of hazardous environment. We have succeeded where other have failed. We provide Custom solution to any material handling requirement.

Our Global Presence



SAFEX INDUSTRIES LIMITED

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E-mail : sales@safexcranes.co.in **Website :** www.safexcranes.co.in, www.safexelevators.com



❖ Technical data & Information in catalog for customer guide line, It may vary during actual engineering.