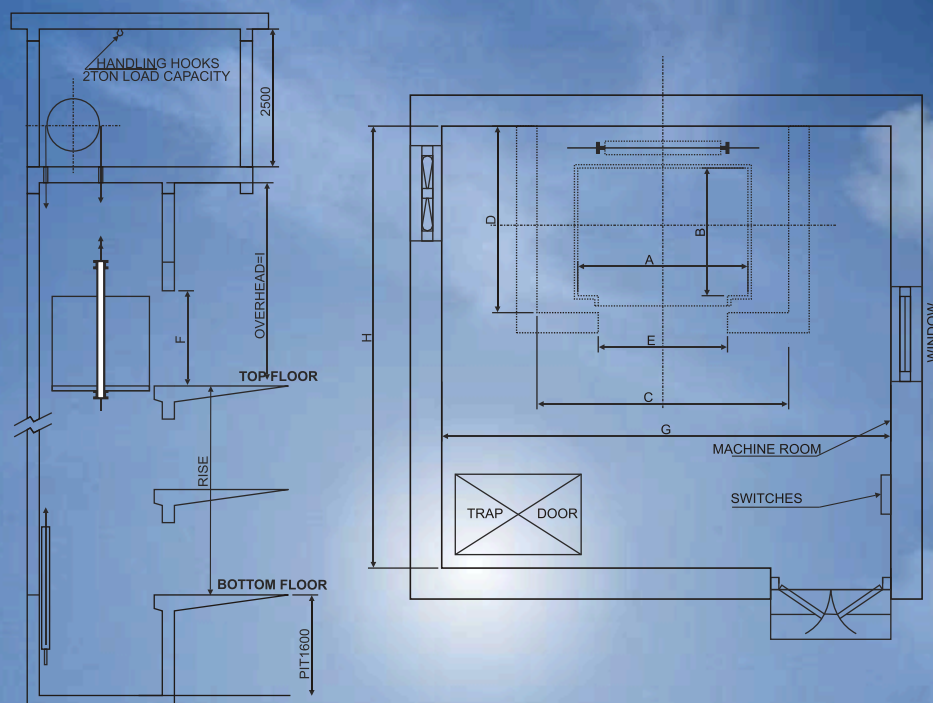


**Civil Dimension - PASSENGER ELEVATOR**



**EAGLE ELEVATOR**

CAPACITY	CAR INSIDE		LIFT WELL		ENTRANCE	LINTLE HEIGHT	MACHINE ROOM		OVERHEAD
	A	B	C	D	E	F	G	H	I
5	1190	800	1650	1450	900	2100	C+1500	D+1500	4800
6	1240	850	1700	1500	900	2100	C+1500	D+1500	4800
8	1440	1000	1900	1650	900	2100	C+1500	D+1500	4800
10	1540	1150	2000	1800	900	2100	C+2300	D+1800	4800
13	1540	1400	2100	2100	1000	2100	C+2300	D+1800	4800
	1840	1390	2700	1700	1100	2100	C+2300	D+1800	4800
16	1940	1350	2800	1900	1100	2100	C+2300	D+1800	4800
	1940	1600	2800	2100	1100	2100	C+2300	D+1800	4800
20	1940	1600	2800	2100	1100	2100	C+2300	D+1800	4800
26	1940	2050	2800	2500	1300	2900	C+2500	D+2000	5200

**Trio Eagle Elevator**

Trio Eagle is a design that incorporates a microprocessor based control system for variable frequency geared elevators that run upto a speed of 1.0 m/s. High and medium rise apartments, hotels, hospitals and corporate buildings can make ideal use of the Eagle. It incorporates the most advanced Variable Voltage Variable Frequency (VVVF) drive for motion control. It can be programmed on-site in accordance with changing parameters of the building and ensures easy and quick fault diagnosis; outperforming conventional elevator systems. The powerful microprocessor provides more flexibility and efficiently controls all elevator functions with high reliability for better passenger comfort and maximum safety. In case of modernization, this control system can also be adapted with existing elevators at 1.0 m/s or 0.63 m/s.



**TRIO ELEVATORS COMPANY (INDIA) LIMITED**  
(A Joint Venture between OTIS India & TRIO Elevators)

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**Branches :**

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Near Raymonds Showroom, Majura Gate, Race Course, VADODARA - 395 007  
SURAT - 395 001 Tel. : 0261 2470 826. Telefax : 0265 235 90 83

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## TRIO *E*agle

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## IMPROVE RELIABILITY

Reliability is achieved through:

- ▶ Microprocessor technology which minimises the number of moving mechanical parts.
- ▶ Minimum wear-and-tears of brake, as it is applied after the elevator is brought to stop.
- ▶ For Duplex Elevator controller communication through Serial Link, minimizing wiring and connections
- ▶ Software controlled inverter technology that offer flexibility to take full advantage of machine's performance. Field programmability allows for greater flexibility **In changing Installation requirements**



The State-of-the-art Controller

## EFFICIENT PERFORMANCE

Greater efficiency and high performance is achieved through a powerful micro computer which is combined with VF Inverter control system. The VF Inverter provides constant speed control over the entire frequency range from zero to rated, operates at almost unity power factor, minimises reactive power, reduces motor heat and thus increases efficiency.

## SLS (Safe landing system) (Optional)

The SLS is a battery operated automatic rescue device that takes over in the event of a power failure and brings the elevator safely to the nearest floor avoiding anxious moments for trapped passengers.

Incorporating an electronic controller powered by **dry maintenance free batteries, SLS ensures reliable and safe travel.**



## UPS

During power failure the UPS in the Controller provides power to emergency light and alarm etc.



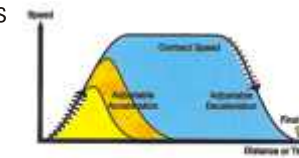
## THE VF INVERTER

The VF Inverter is the heart of the VFLS Controller.

Designed and manufactured in Japan for high performance, the fully digital VF inverter Incorporates V/F or Flux Vector Control with super low-noise operation .



- ▶ Employs the technique of Pulse Width Modulation (PWM) with high carrier frequency
- ▶ Directly controls the current (torque) of the Elevator Motor
- ▶ Provides constant speed control over the entire frequency range under all load conditions
- ▶ Produces high starting torque and smooth operation at very low speeds which results into **BETTER LEVELING.**
- ▶ Has a user friendly Digital Operator which serves as a customised programming and monitoring tool for adjustment and troubleshooting
- ▶ Precise Wave form control coupled with the high performance, high speed switch device - the IGBT (Insulated Gate Bipolar Transistor) provides numerous advantages such as quiet operation, high starting torque, smoother rotation and improved reliability.
- ▶ Improved power factor and low starting current results in reduced power consumption ultimately great **ENERGY SAVING.**



Computer based speed profiles with direct approach to landing for real-time flight optimisation and repeatability.

## ELECTRONIC ENTRANCE PROTECTION SYSTEM

### Greater Passenger Safety

**INFRA-RED** Entrance Protection System forms a highly effective safety net across the entire effective entrance area with invisible infrared beams. These ultra sensitive infrared beams are able to detect passengers and objects in the path of closing doors within a fraction of second. Therefore, should a passenger enter or exit the elevator just when the doors close, the system instantaneously reopens the elevator doors, without touching the passenger.



### Exceptional reliability

The INFRA-RED has satisfied Trio extensive product validation process designed to ensure the door protection system will withstand the harshest environment for years to come.

### Higher Passenger Comfort

Due to its design superiority, even if a single infrared beam is interrupted, the elevator doors open automatically and remain open, allowing the passengers to exit or enter, without the fear of the elevator doors closing unexpectedly.

## Safety Features

- ▶ Guarded moving parts
- ▶ Pit Switch
- ▶ Top of car inspection box
- ▶ Push & Talk
- ▶ Intercom between Ground & Car
- ▶ Car top railing

### Safety Lock And Latch

- ▶ Ensures that doors are armed before the elevator is mobile
- ▶ Closed doors, till the elevator has reached the particular level



Pit Switch

### Ceiling

The all-new ceiling with revolving fan grill sports a clean design and promises distinct visual relief.



Also available with Blower fan. (Optional)

Available in various design options too.

### LCD

#### LCD display

The monochrome LCD display option comes with a host of friendly features:

- Scrolling arrow
- Floor Indication
- Real time Clock date



#### Scrolling Dot Matrix Display

The new Scrolling Dot Matrix display for that touch of class.

Features :

- Scrolling arrow
- Floor numbers- alpha numeric
- Arrow and digit in Red colour



### Doors



Stainless Steel Doors



Glass Doors



Powder Coated Doors

### COP

The operating panel is provided with individual floor buttons to reach the desired floor. The digital display indicates the position of the elevator. Illuminated direction arrows indicate the direction of car travel.



### Hall Button



(Standard)

(Optional)

### Intercom



### Handrail

Stainless Steel



### Colour Shades Floorings

