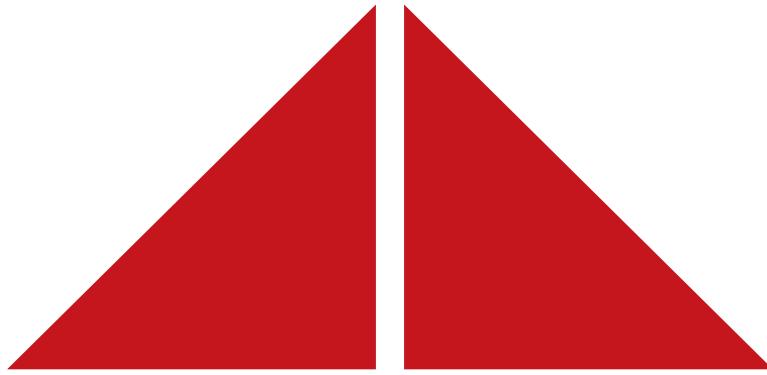




**Engineering and
Elevator Services**



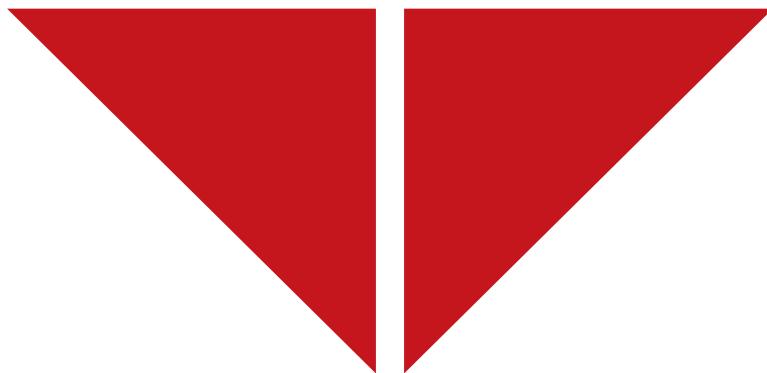


About Us

Triton Engineering was established in 2020 as experts in modern vertical transportation and elevation systems in Pakistan.

The brand is synonymous with reliability and comfort as we aspire to deliver perfection using state of the art technology and highly skilled professionals. The technology used at Triton Engineering enables us to provide complete efficiency and dependability in both services and maintenance keeping in view higher temperatures and power outage situations in Pakistan.

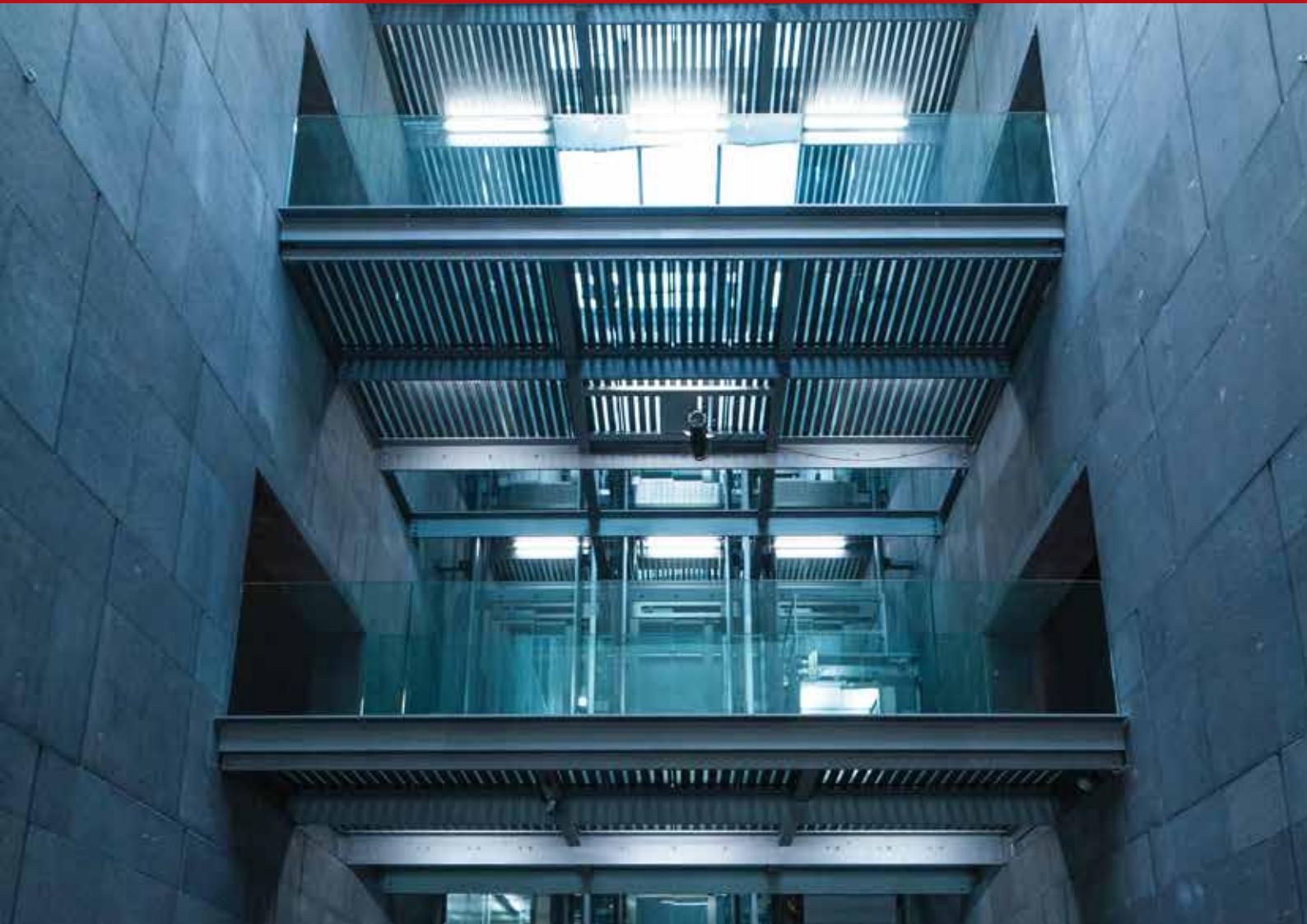
Focused on innovating ways of mass people movement in new and existing urban structures, Triton Engineering specializes in modern technology/engineering, as well as mechanical and micro-technology products designed and tested for comfort, efficiency and reliability. We strive to provide the best solutions to our clients.



What We Do

We help architects, owners and builders add value to any building type – from planning, operations and modernization. Our vertical transportation elevation systems are recognized as a benchmark for quality and safety.

Working with a wide array of top quality international brands to choose from we offer variable solutions that can be customized to our client's needs.

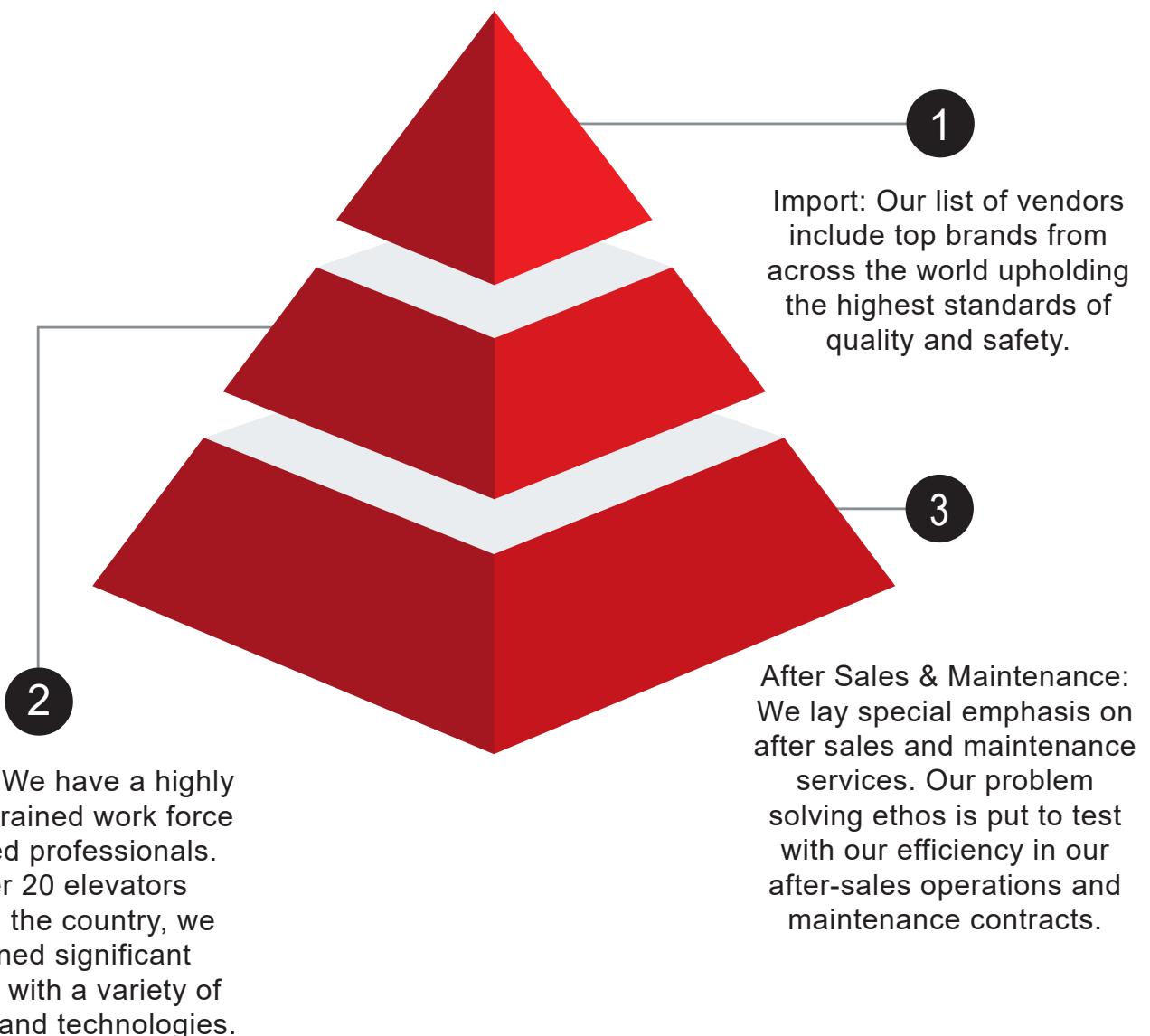




Our Mission

We are dedicated to bringing highest standards of service in each project reflecting in providing products that comply with strict safety laws of the European standard EN 81.1.

Our Process



Passenger Elevator







Hall Position Indicators

ZPIE-C110 ZPIE-C120



ZPIT-H110 ZPIT-H120



ZPID-H110 ZPID-H120

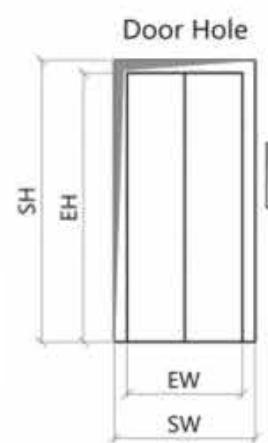
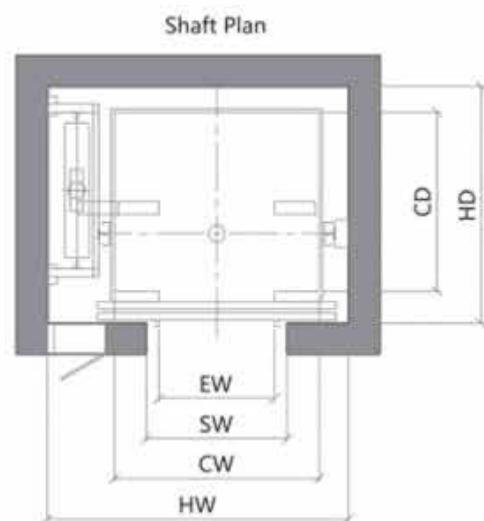
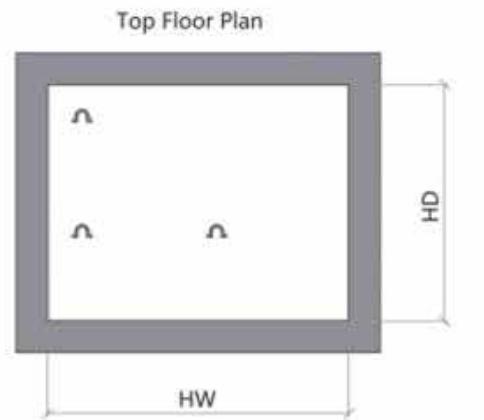
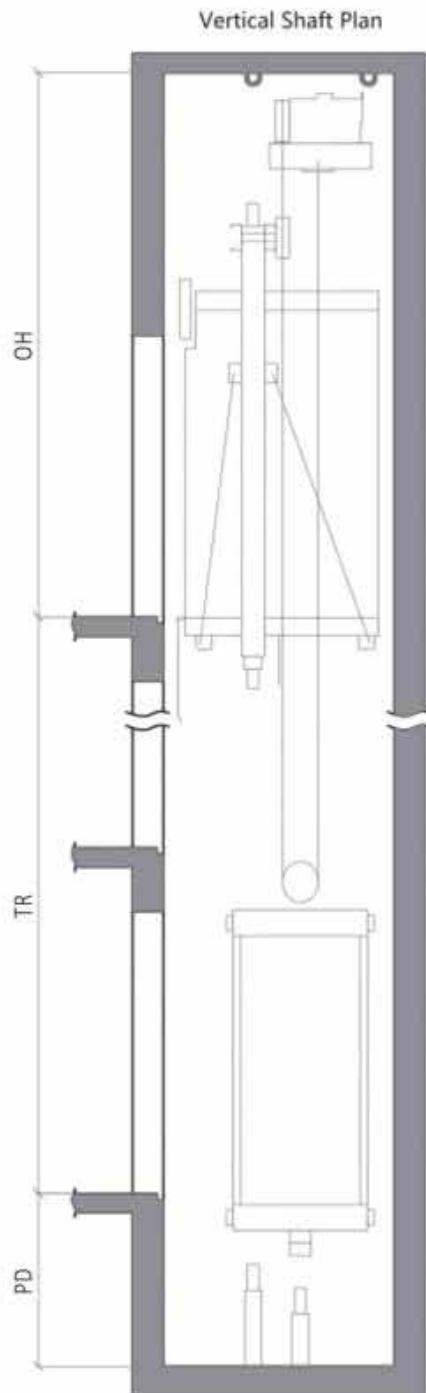


ZPIM-H610 ZPIM-H620



ZPIT-F110 ZPIT-F120

Technical Drawings



Technical Data

| Speed [m/min] | Capacity | | Opening | | Car Insize | | Holstway Size | | | | Machine Room Size | | | | MC Room Reaction Load (Kg) | | Pit Reaction Load (Kg) | |
|------------------|----------|------|---------|-------|------------|-------|---------------|------|------|------|-------------------|------|------|------|----------------------------------|------|---------------------------|-------|
| | Person | [kg] | Type | Width | CW | CD | HW | HD | HW | HD | MW | MD | MW | MD | R1 | R2 | RC | RW |
| 60 | 5 | 400 | 2p-CO | 800 | 1100 | 950 | 1750 | 1550 | 3650 | 1550 | 2050 | 3050 | 3950 | 3050 | 3700 | 2300 | 5150 | 3200 |
| | 6 | 450 | 2p-CO | 700 | 1100 | 1100 | 1550 | 1700 | 3250 | 1700 | 1850 | 3200 | 3550 | 3200 | 3800 | 2350 | 5500 | 3300 |
| | | | 2P-CO | 800 | 1400 | 850 | 1800 | 1450 | 3750 | 1450 | 2100 | 2950 | 4050 | 2950 | | | | |
| | 7 | 525 | 2P-CO | 800 | 1400 | 1000 | 1800 | 1850 | 3750 | 1650 | 2100 | 3150 | 4050 | 3150 | 4200 | 2800 | 6200 | 4500 |
| | 8 | 600 | 2P-CO | 800 | 1400 | 1100 | 1800 | 1700 | 3750 | 1700 | 2100 | 3200 | 4050 | 3200 | 4050 | 3100 | 6550 | 4700 |
| | 9 | 680 | 2P-CO | 800 | 1400 | 1250 | 1800 | 1850 | 3750 | 1850 | 2100 | 3350 | 4050 | 3350 | 4900 | 3400 | 6550 | 4700 |
| | 10 | 750 | 2P-CO | 800 | 1400 | 1350 | 1800 | 1950 | 3750 | 1950 | 2100 | 3450 | 4050 | 3450 | 5400 | 3850 | 7800 | 5500 |
| | 11 | 900 | 2P-CO | 900 | 1800 | 1350 | 2000 | 1950 | 4150 | 1950 | 2300 | 3450 | 4450 | 3450 | 5750 | 4100 | 9400 | 6550 |
| | 13 | 1000 | 2P-CO | 1100 | 1600 | 1400 | 2350 | 2000 | 4850 | 2000 | 2650 | 3500 | 5150 | 3500 | 6150 | 4600 | 9950 | 6900 |
| | | | 2P-CO | 1100 | 2100 | 1100 | 2550 | 1750 | 5250 | 1750 | 2850 | 3250 | 5550 | 3250 | | | | |
| | | | 2P-2S | 800 | 1100 | 2100 | 1850 | 2550 | 3850 | 2550 | 2150 | 4050 | 4150 | 4050 | | | | |
| | 15 | 1150 | 2P-CO | 1000 | 1800 | 15R00 | 2250 | 2100 | 4650 | 2100 | 2550 | 3600 | 4950 | 3600 | 9400 | 7750 | 12300 | 8750 |
| | 17 | 1250 | 2P-CO | 1100 | 1950 | 1400 | 2600 | 2050 | 5350 | 2050 | 2900 | 3550 | 5650 | 3550 | 10000 | 8250 | 13600 | 9500 |
| | 21 | 1600 | 2P-CO | 1100 | 1950 | 1750 | 2600 | 2600 | 5350 | 2600 | 2900 | 4100 | 5650 | 4100 | 11600 | 8700 | 15400 | 11600 |

(Unit : mm)

| Speed | Overhead [mm] | Pit Depth [mm] | Machine Room Height [mm] | Remark |
|-------|------------------|-------------------|-----------------------------|----------------------|
| 60 | 3800 | 1500/ (1200) | 2200 | () : Urethane buffer |
| 90 | 3900 | 1600 | 2400 | |
| | | | | |

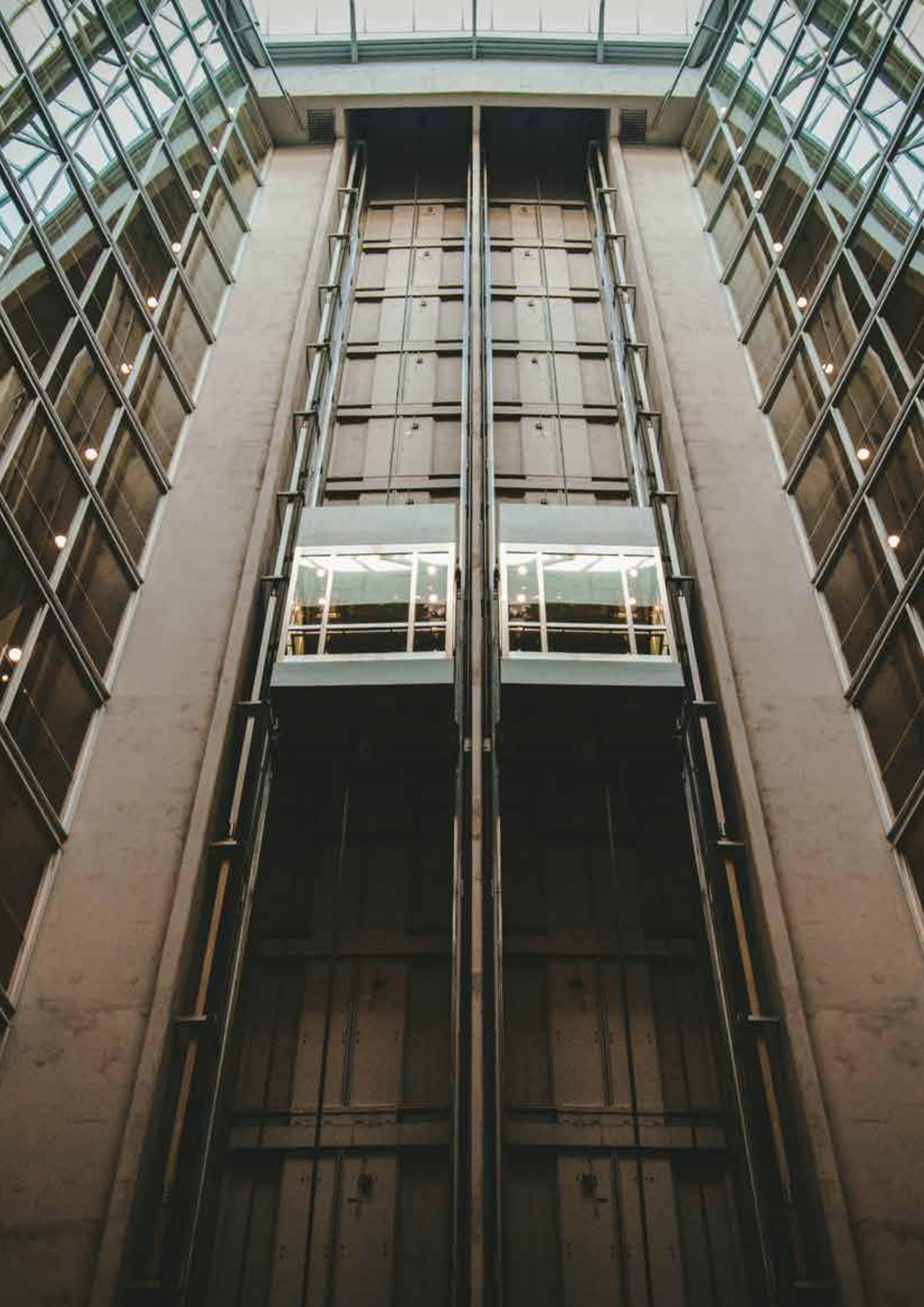
Technical Features

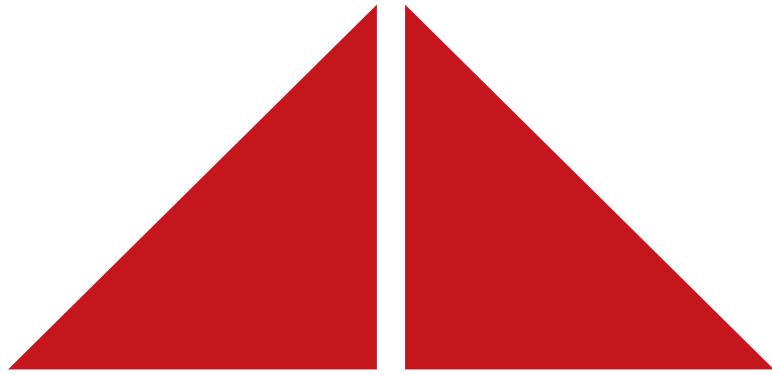
| Feature | Description |
|--|---|
| Automatic Turn Off of Car Light and Fan | Car illumination and fan are turned off automatically incase there is no hall call or call to save energy |
| By Pass Operation (80%) | If the actual load comes to more the 80% of the allowable maximum load, the elevator will not react to the calling signals from other passing floors |
| Overload (110% of Rated load) Holding Stop | When the load of passengers exceeds the maximum capacity, a buzzer sounds and the elevator remains stopped at that floor. When the passengers get off the buzzer will stop. Consequently elevator doors will close and operation continues |
| Anti Hall Button Jamming | If landing door would not close by a hall button's jamming and it is caused car can't start then, the floor will close in force by the command from controller so that the car service next calls. |
| Door Reopen Beam | While the car door is closing, if a door reopen signal is occurred the door will be reopened immediately and after specified time expired the door will close again. |
| Car Door Safety Edges | The device enables the doors to return to the fully open position, should the door encounter a person or obstacle while closing |
| Safety Drive Operation | During Normal Operations, a malfunction is occurred suddenly but it's not serious, in this case, if the car is not in a door zone then the car starts to run to the nearest floor in slow speed. After stopping at the nearest floor, the case remains stop with the door fully open and "Out of Service" lamp. If the car condition is possible to return a normal condition itself then, the car can service normal operation again |
| Door Photo Sensor | The door will return to fully open position if the light ray unit detects an obstacle when the doors are closing |
| Multi-Photo | When passengers are entering or getting out of the elevator, the multi-photo device will prevent door from closing. |
| Parking Operation | In order to park the elevator, if the parking key is on position the car stops at the specified floor after finishing of service of all registered calls. The car light and fan are automatically off and every button both on the car operating panel and the hall box buttons are no more responsive. |
| Forced Floor Stop | After service on specific floor stop by car call, the car is operated normally. |

Completed Projects

Completed projects listed as below:

| Project Name | No. of Units |
|---|-------------------|
| FAYSAL Bank (Abdullah Haroon rd.)(Karachi) | 3 Elevator Units |
| Tricon Tower (Gulberg) (Lahore) | 4 Elevator Units |
| Mumtaz Shah Nawaz (Gulberg)(Lahore) | 3 Elevator Units |
| Volka Food (Bahawalpur Bypass)(Lahore) | 2 Elevator Units |
| Mukhtar Memorial Hospital (Multan) | 9 Elevator Units |
| Wah General Hospital (Wah Cantt.) (Islamabad) | 4 Elevator Units |
| Decent Builders (F10) (Islamabad) | 1 Elevator Unit |
| Citizens Club (I8) (Islamabad) | 1 Elevator Unit |
| Mall of Gujran walla (Gujranwala) | 1 Elevator Unit |
| Deputy Commissioners Office (South, East & central) (Karachi) | 10 Elevator Units |
| District Sessions Court (Korangi)(Karachi) | 4 Elevator Units |
| Sindh Government Hospital (PIB Colony, Landhi, Baldia & Ancholi) (Karachi) | 7 Elevator Units |
| Population Control Dept. (Scheme 33) (Karachi) | 2 Elevator Units |
| National Institute of Child Health (Karachi) | 2 Elevator Units |
| South City Hospital (Clifton) (Karachi) | 2 Elevator Units |
| Judges Studio Apartments (Bath Island) (Karachi) | 4 Elevator Units |
| Karachi Haleem (Defense) (Karachi) | 2 Dumbwaiters |
| Home Lifts (Falcon Society, defense) (Karachi) | 5 Elevator Unit |
| Faisal Bilwani Architect (Bukhari commercial)(Karachi) | 1 Elevator Unit |
| Agha Steel (Phase 2 EXT)(Karachi) | 1 Elevator Unit |
| Fawad Eye Clinic (Gulshan)(Karachi) | 1 Elevator Unit |
| Novartis Pharma (Shersha) (Karachi) | 1 Elevator Unit |
| Meezan Bank HQ (Sher Sha) (Karachi) | 2 Elevator Units |
| NHS Towers (Naval Housing Scheme Phase IV Shahra e Faisal) (Karachi) | 24 Elevator Units |
| Lahore International Airport | 1 Elevator Unit |
| Karachi International Airport | 4 Escalator Units |
| Cybernet (Khe Muslim) (Karachi) | 1 Elevator Unit |
| Pakistan Stock Exchange (Lahore) | 2 Elevator Units |
| Pakistan Ordnance Factory (Taxila) | 2 Elevator Units |
| District Commissioner South Club House (Saddar, Karachi) | 1 Elevator Unit |





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