

**MITSUBISHI  
ELECTRIC**

Freight Elevator Series GFC-L2

*Changes for the Better*

Quality  
in Motion



# Elevate Your Efficiency of Material-Handling Tasks

ADVANCED TECHNOLOGIES



Freight elevators of less than 2000kg capacity can only be loaded by forklifts with casters. Loads cannot be loaded by forklift. Please consult our local agents if you need to use a forklift to load and unload goods with our forklift-type freight elevators of 2000kg capacity or more.

## Energy Saving, Helical Gear Driven Traction Machine

GFC-L2 freight elevator equipped with high efficient helical gear driven traction machine. Through the advanced technology of precision gear cutting and grinding, the traction machine brings more comfortable and quiet riding for the passengers. Moreover, it saves more than 15% electricity compared with the traditional worm gear driven traction machine.

For the large capacity of car, we use worm gear traction machine to transfer heavy goods. (applicable in the range of capacity 18000-300kg at speed 90/115 m/min and more than 3000kg)

## Variable Voltage Variable Frequency (VVVF) Control System

The application of VVVF control to the freight elevator is a great breakthrough of technology. Not only does it provide smooth and steady operations, but also greatly improves the efficiency of energy utilization to achieve more energy saving performance.

## Data Network with Artificial Intelligence and Friendly Man-Machine Interfacing

The elevator system configures with a data network. Developed using leading edge technology, it consists with microprocessors at each distributed modules through a serial transmission line. Each module is assigned a variety of intelligent features, resulting in a substantial improvement in man-machine interfacing. A mutual check function ensures further reliability and efficiency in data.

## More User-Friendly Operating Features

To ensure the safety and smooth riding for both passengers and goods, the new series GFC-L2 freight elevator employs more user-friendly features. They have been strictly tested and simulated in the factory before delivery, thus the reliability is greatly improved and possibility of breakdown is reduced.



Energy saving, helical gear driven traction machine (applicable in the range of capacity under 1800kg, up to an extra 150% extra capacity under 2000kg speed under 50m/min)

## CAR DESIGNS



### • Type FCD-4

#### Specification

| Car Size                  | FCD-1   | FCD-2   |
|---------------------------|---|---|
| Lighting                  | Fluorescent lighting through recessed ceiling and floor | Fluorescent lighting through recessed ceiling and floor |
| Interior equipment        | Office  | Office (with glass wall 8' width)                       |
| Handrails                 | Plated steel handrail                                   | Stainless steel handrail (Optional)                     |
| Emergency intercom        | Standard intercom                                       | Standard intercom                                       |
| Car wall protection plate | Stainless steel handrail for protection with vinyl      | Stainless steel handrail for protection with vinyl      |
| Hoisting                  | Steel structure plate with steel joint                  | Stainless steel plate (Optional)                        |
| (W)                       | Standard rated maximum capacity of 1,000kg or less      | Steel plate with hand joint (Capacity over 1,000kg)     |

Optional equipment of floor and lighting, panel removal, etc. (consult agent)



### • Type FCD-2

Interior plate structure is fully attached from exterior

## ENTRANCE DESIGNS

### Specification

|          |  |
|----------|--|
| Car form | Standard steel door                                      |
| Color    | Various steel finish (Optional)                          |
| Class    | Standard steel door                                      |
|          | Various steel finish (Optional)                          |
| Call     | For door form selection<br>K-1000 or K-1000-2 (Optional) |
|          | Complete with hand panel<br>(Optional with K-1000)       |

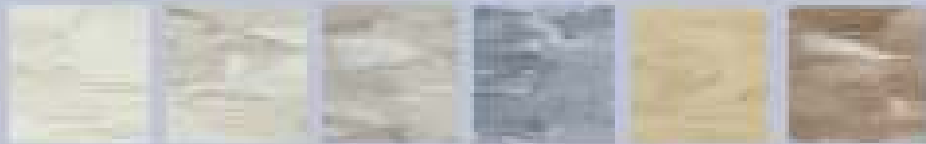


### • Type K-100

Panel for door closure is fully attached from exterior

## FINISH COLORS AND PATTERNS

### Durable Vinyl Tiles (For Car Flooring)



501

505

506

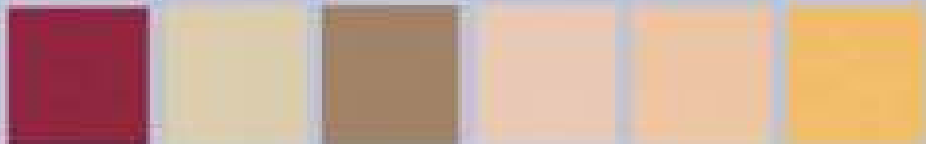
507

509

531

### Painted Finish

(For Car Walls / Car Doors & Entrance Doors / Door Frames)



27R

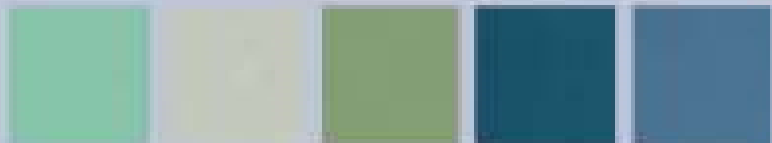
37R(A)

46YR

52YR

70Y

71Y



80G

80Y

82Y

1090

118PB

Color shown is only illustrative reference.

## FEATURES FOR COMFORT, CONVENIENCE AND SAFETY

### False Call Canceling - Car Button Type (FCC-P)

If the wrong car button is pressed, it can be canceled by quickly pressing the same button again twice.

### Non-Service to Specific Floors - Car Button Type (NS-CB) (Optional)

Service to specified floors can be restricted by locking out car buttons from the car operating panel.

### Repeated Door - Close (RDC)

If the elevator doors cannot fully close because of blocking of an object in the door track (such as a pebble or fabric), the doors will repeatedly open and close until the object is removed.

### Extended Door - Open Button (DKO-TB)

By pressing this button in the car, the doors will remain open for an extended time to facilitate the loading of materials, luggage, etc.

### Door Load Detector (DLD)

When excessive door load has been detected while opening or closing, the doors immediately reverse.

### Mitsubishi Emergency Landing Device (MELD) (Optional)

Upon power failure, a car equipped with this function automatically moves and stops at the nearest floor using a rechargeable battery, and the doors open to ensure passenger safety.

(Maximum allowable floor-to-floor distance is 12 meters.)

(MELD is only applied between 750-1500kg 45-135 mins and 2000-3500kg 45-60 mins.)

\* See page 21-24 for details of other features.

# OPERATING SYSTEMS & SIGNAL EQUIPMENT

## Car Operating Panels



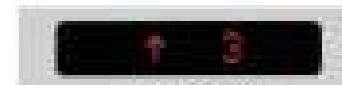
**CBF-C511**

### Specification

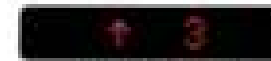
|                               |  |
|-------------------------------|--|
| Faceplate                     | Carbon steel frame   |
| Display panel                 | Smoke grey plastic, matt surface                               |
| Direction light and indicator | Digital LED dot-matrix display (orange color when illuminated) |
| Call button                   | Micro stroke click button in grey plastic                      |
| Response light                | LED (orange color when illuminated)                            |

Response light shown slightly offset from actual face

## Hall Position Indicators



PFH-B030 (Optional)



PFH-C030 (Optional)  
Assembled into train horn panel

### Specification

|                               |  |
|-------------------------------|--|
| Faceplate                     | Carbon steel frame (PFH-B030)                                  |
| Display panel                 | Smoke grey plastic, matt surface                               |
| Direction light and indicator | Digital LED dot-matrix display (orange color when illuminated) |

## Hall Buttons



HBF-A210 (Optional)



HBF-C210 (Optional)

### Specification

|                |   |
|----------------|---|
| Faceplate      | Carbon steel frame with dark grey plastic case (HBF-A210) |
|                | Carbon steel frame (HBF-C210)                             |
| Call button    | Micro stroke click button in grey plastic                 |
| Response light | LED (orange color when illuminated)                       |

## Hall Position Indicators and Call Buttons



PFH-A200



PFH-A220



PFH-C210 (Optional)



PFH-C220 (Optional)



PFH-C211 (Optional)



PFH-C221 (Optional)

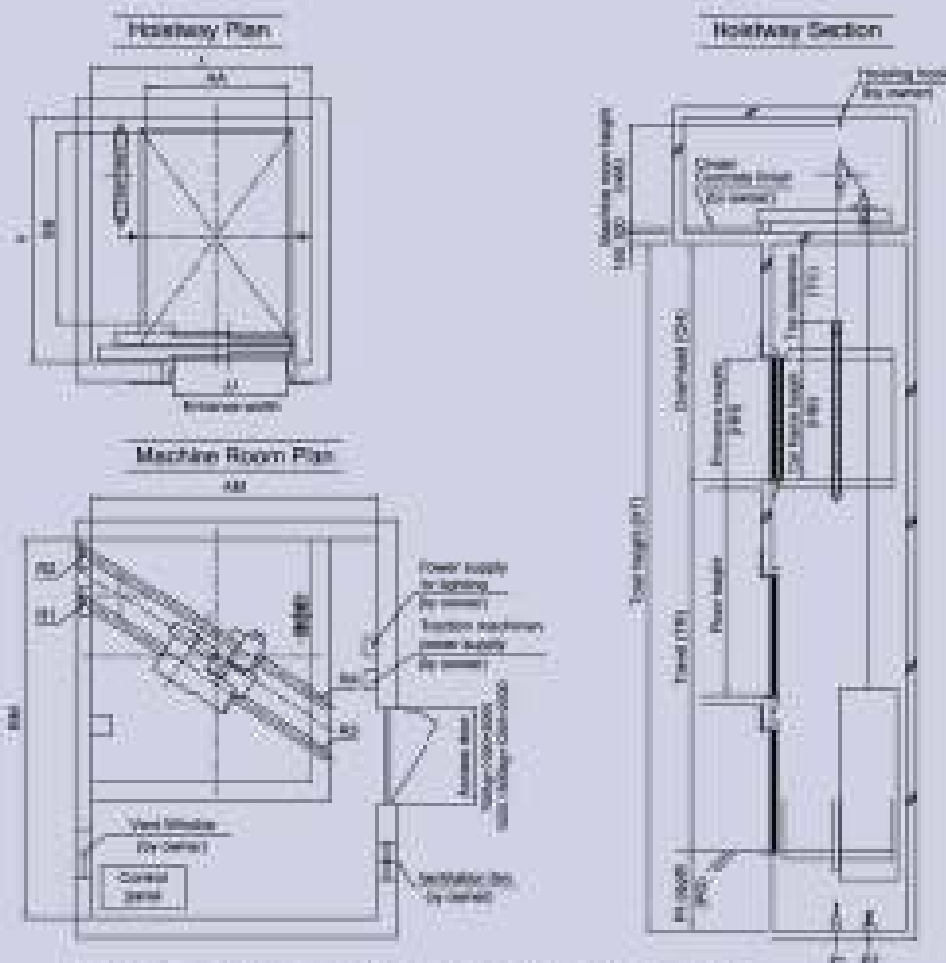
### Specification

|                               |  |
|-------------------------------|--|
| Faceplate                     | Carbon steel frame with dark grey plastic case (PFH-A200 / PFH-A220)<br>Carbon steel frame (PFH-C210 / PFH-C220 / PFH-C211 / PFH-C221) |
| Display panel                 | Smoke grey plastic, matt surface   |
| Direction light and indicator | Digital LED dot-matrix display (orange color when illuminated)   |
| Call button                   | Micro stroke click button in grey plastic  |
| Response light                | LED (orange color when illuminated)  |

Response light shown slightly offset from actual face

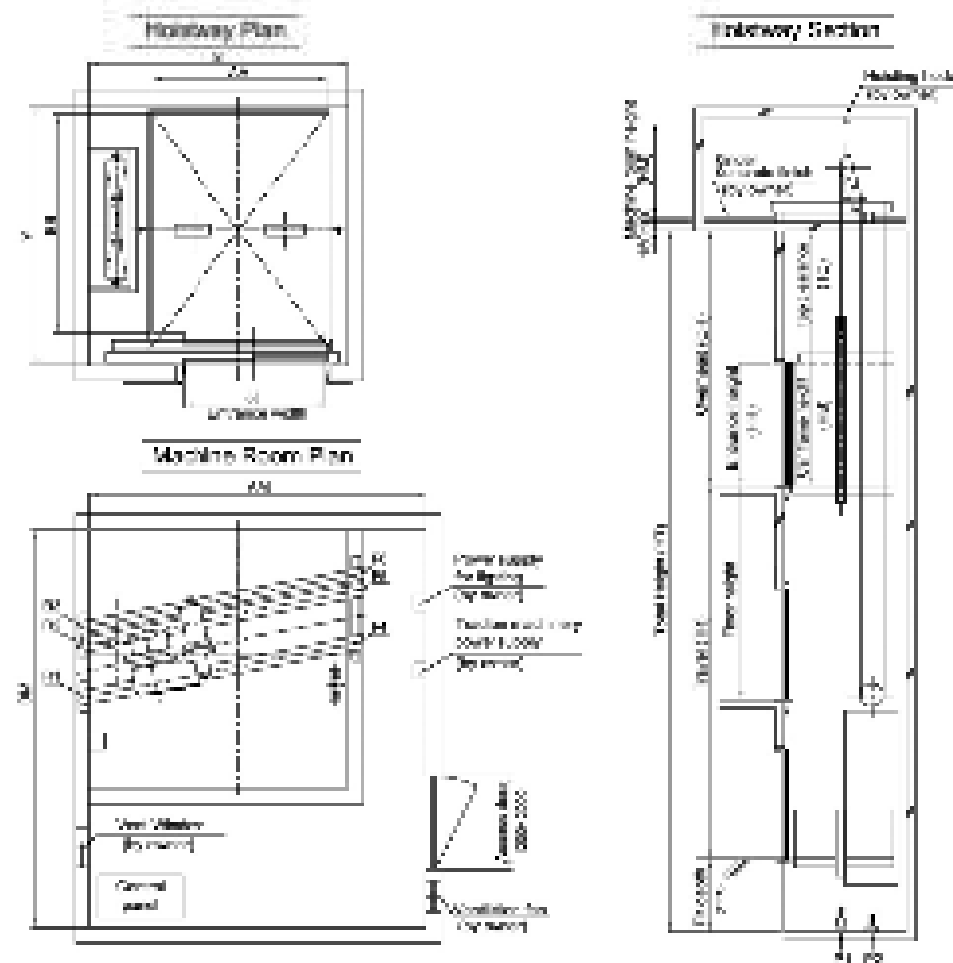
# INSTALLATION DRAWINGS

Capacity 750Kg-1500Kg (45,60,90,105m/min)



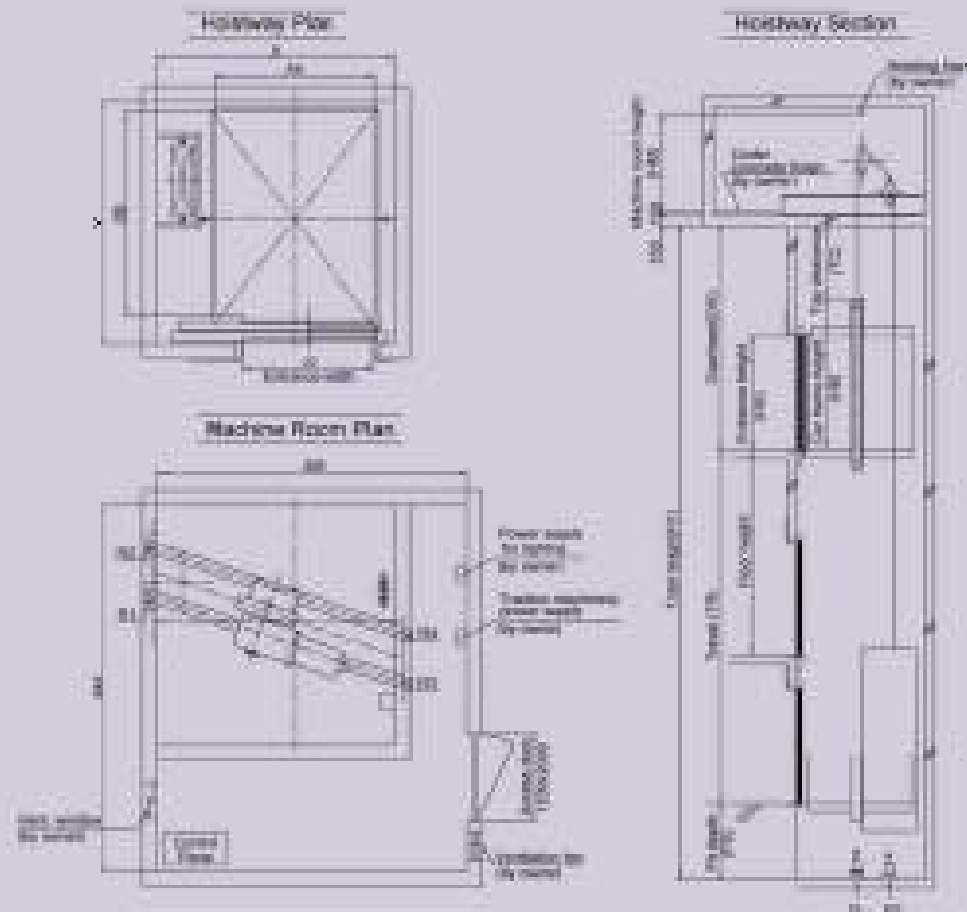
\* The above installation drawings (2:1 scaling) are only applicable for rated capacity under 1500Kg

Capacity 2000Kg-2500Kg (45,60m/min)



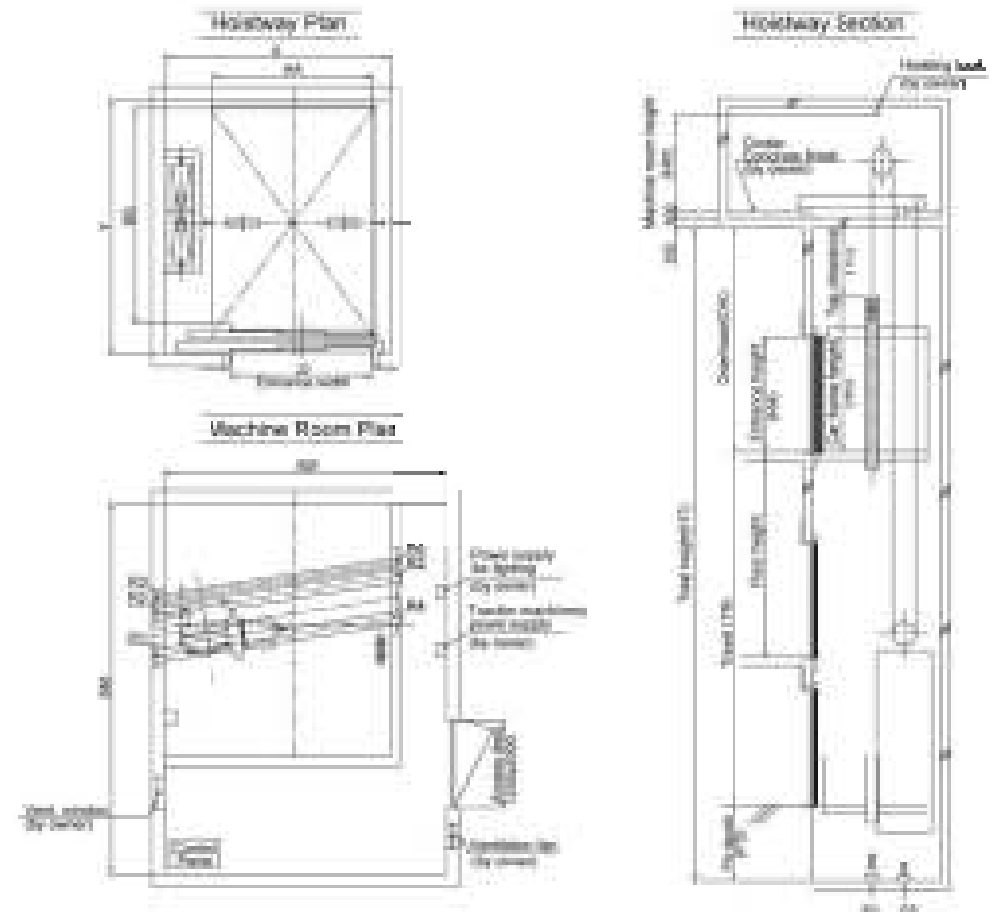
\* The above installation drawings (2:1 scaling) are only applicable for rated capacity 2000-2500Kg

Capacity 2000Kg-2500Kg(90,105m/min)



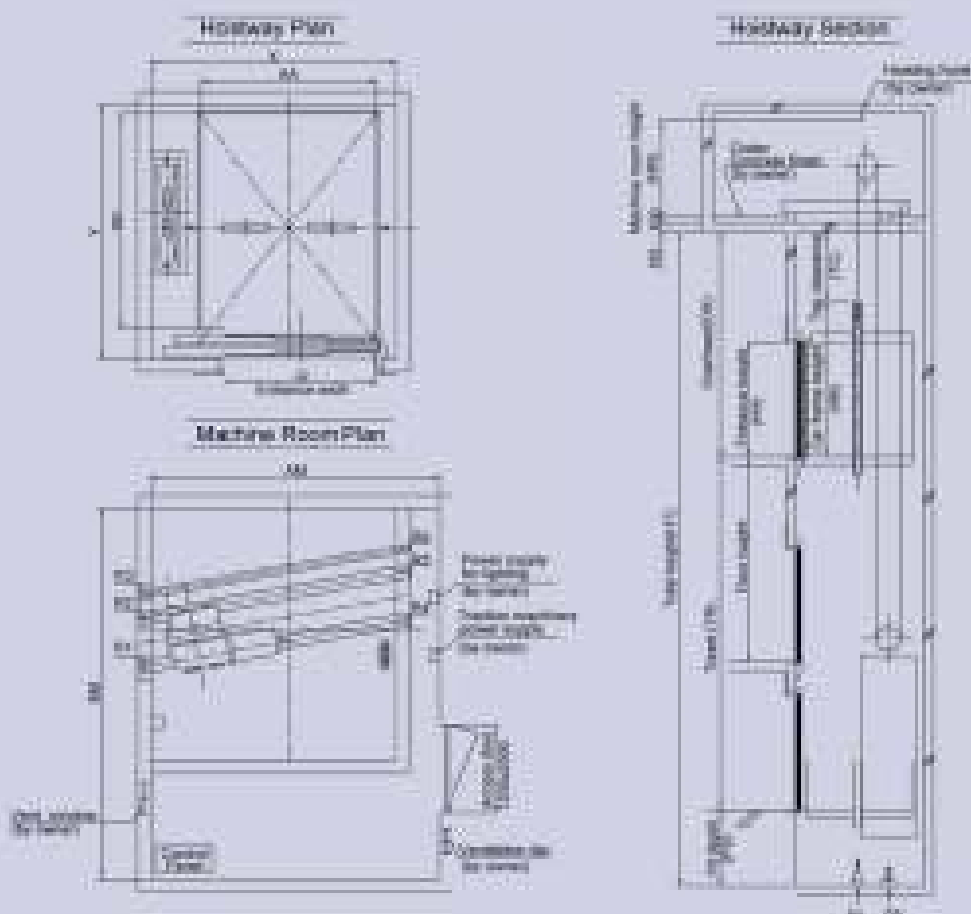
① The above installation drawings (2) Hoisting are only applicable for rated capacity 2000-2500kg.

Capacity 3000Kg(30,45,60m/min) - 3500Kg(30,45m/min)



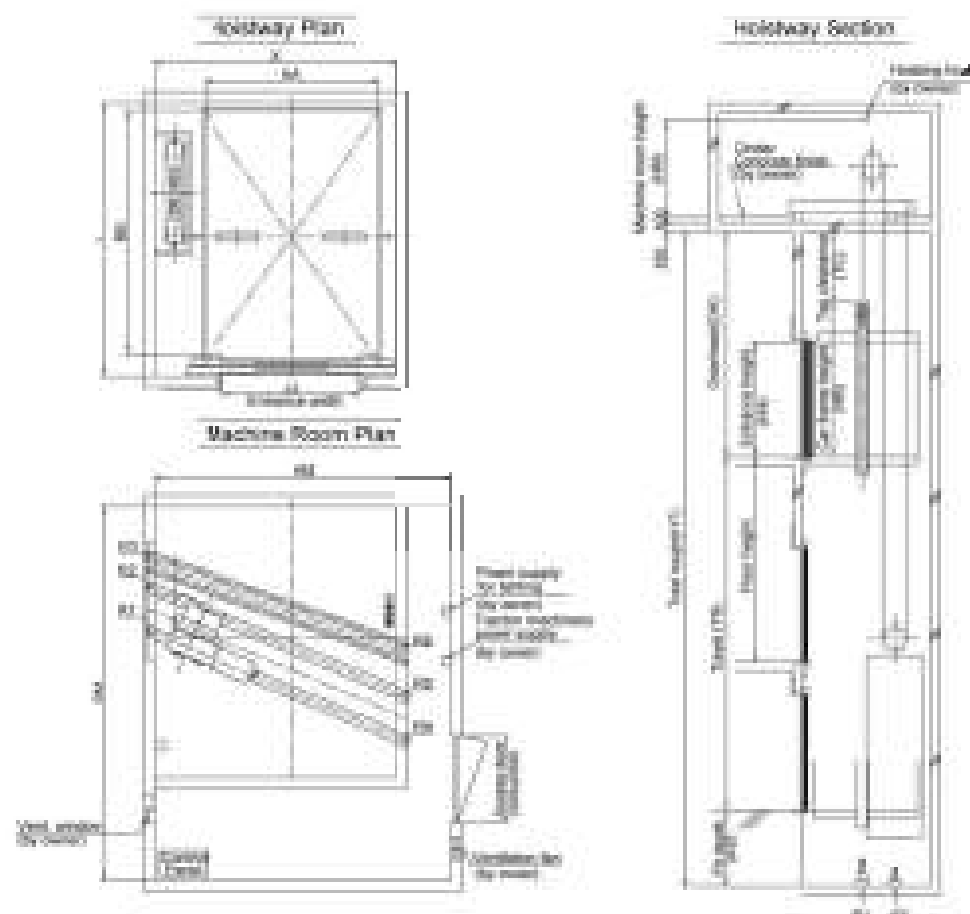
① The above installation drawings (2) Hoisting are only applicable for rated capacity 3000-3500kg.

Capacity 3500Kg(60m/min) · 4000Kg (30-45m/min)



\*The above installation drawings (2) Hoisting are only applicable for rated capacity 3500-4000kg.

Capacity 5000Kg (30-45m/min)



\*The above installation drawings (2) Hoisting are only applicable for rated capacity 5000kg.

## SUPPLY SCOPE (1)

### Horizontal Dimensions and Reaction Loads

Capacity 750Kg – 1500Kg (45,60,90,105mm/min)

| Load capacity (kg) | Door type | Roller speed (mm/min) | Entrance width (mm) | Dimensions (mm)   |                     |                     | Reaction loads (kN) |      |      |      |       |       |       |       |
|--------------------|-----------|-----------------------|---------------------|-------------------|---------------------|---------------------|---------------------|------|------|------|-------|-------|-------|-------|
|                    |           |                       |                     | Car internal (MM) | Minimum roller (Ø1) | Minimum roller (Ø2) | Machine room        |      |      |      | Ft    |       |       |       |
|                    |           |                       |                     |                   |                     |                     | Ø1                  | Ø2   | Ø3   | Ø4   | F1    | F2    | F3    | F4    |
| 750                | 24        | 45                    | 1200                | 1500x2000         | 2300x2170           | 3000x4000           | 27.5                | 26.4 | 19.3 | 26.8 | 11.3  | 11.1  | 75.3  | 63.5  |
|                    |           | 60                    |                     |                   |                     |                     |                     |      |      |      | 67.0  | 73.1  |       |       |
|                    |           | 90                    |                     |                   |                     |                     |                     |      |      |      | 102.7 | 96.3  |       |       |
|                    |           | 105                   |                     |                   |                     |                     |                     |      |      |      | 102.7 | 96.3  |       |       |
| 1000               | 24        | 45                    | 1800                | 1800x2200         | 2720x2720           | 3400x4400           | 39.1                | 30.8 | 27.6 | 31.0 | 65.7  | 79.0  | 111.8 | 122.8 |
|                    |           | 60                    |                     |                   |                     |                     |                     |      |      |      | 95.1  | 79.0  |       |       |
|                    |           | 90                    |                     |                   |                     |                     |                     |      |      |      | 131.7 | 109.3 |       |       |
|                    |           | 105                   |                     |                   |                     |                     |                     |      |      |      | 131.7 | 109.3 |       |       |
| 1500               | 24        | 45                    | 1700                | 2300x2400         | 3100x3100           | 4000x5100           | 50.7                | 36.0 | 37.3 | 44.3 | 120.3 | 100.9 | 147.0 | 120.0 |
|                    |           | 60                    |                     |                   |                     |                     |                     |      |      |      | 147.0 | 120.0 |       |       |
|                    |           | 90                    |                     |                   |                     |                     |                     |      |      |      | 173.5 | 142.0 |       |       |
|                    |           | 105                   |                     |                   |                     |                     |                     |      |      |      | 173.5 | 142.0 |       |       |

Capacity 2000Kg – 2500Kg (45,60mm/min)

| Load capacity (kg) | Door type | Roller speed (mm/min) | Entrance width (mm) | Dimensions (mm)   |                     |                     | Reaction loads (kN) |      |      |      |      |     |       |       |
|--------------------|-----------|-----------------------|---------------------|-------------------|---------------------|---------------------|---------------------|------|------|------|------|-----|-------|-------|
|                    |           |                       |                     | Car internal (MM) | Minimum roller (Ø1) | Minimum roller (Ø2) | Machine room        |      |      |      | Ft   |     |       |       |
|                    |           |                       |                     |                   |                     |                     | Ø1                  | Ø2   | Ø3   | Ø4   | Ø5   | Ø6  | F1    | F2    |
| 2000               | 24        | 45                    | 1900                | 2800x3000         | 3300x3300           | 4300x5100           | 52.1                | 42.0 | 38.7 | 37.3 | 13.4 | 5.8 | 196.2 | 185.9 |
|                    |           | 60                    |                     |                   |                     |                     |                     |      |      |      |      |     | 198.4 | 133.7 |
|                    |           | 90                    |                     |                   |                     |                     |                     |      |      |      |      |     | 210.0 | 142.8 |
| 2500               | 24        | 45                    | 2100                | 3000x3000         | 3500x3500           | 4500x5700           | 66.8                | 50.0 | 40.8 | 33.4 | 18.8 | 6.5 | 218.8 | 177.7 |
|                    |           | 60                    |                     |                   |                     |                     |                     |      |      |      |      |     | 218.8 | 177.7 |
|                    |           | 90                    |                     |                   |                     |                     |                     |      |      |      |      |     | 218.8 | 177.7 |



## SUPPLY SCOPE (2)

Capacity 2000Kg – 2500Kg (90, 105mm/min)

| Load capacity (kg) | Door type | Roller speed (mm/min) | Entrance width (mm) | Dimensions (mm)   |                     |                     | Reaction loads (kN) |      |      |      |       |       |    |    |
|--------------------|-----------|-----------------------|---------------------|-------------------|---------------------|---------------------|---------------------|------|------|------|-------|-------|----|----|
|                    |           |                       |                     | Car internal (MM) | Minimum roller (Ø1) | Minimum roller (Ø2) | Machine room        |      |      |      | Ft    |       |    |    |
|                    |           |                       |                     |                   |                     |                     | Ø1                  | Ø2   | Ø3   | Ø4   | Ø5    | Ø6    | F1 | F2 |
| 2000               | 24        | 90                    | 1800                | 2200x2800         | 3200x3200           | 4300x5100           | 55.4                | 43.7 | 46.2 | 58.1 | 167.4 | 151.0 |    |    |
|                    |           | 105                   |                     |                   |                     |                     |                     |      |      |      | 221.2 | 178.7 |    |    |
| 2500               | 24        | 90                    | 2100                | 2500x3000         | 3500x3500           | 4800x5700           | 60.1                | 48.8 | 49.7 | 73.8 | 187.6 | 180.0 |    |    |
|                    |           | 105                   |                     |                   |                     |                     |                     |      |      |      | 252.0 | 221.4 |    |    |

Capacity 3000Kg – 5000Kg (30,45,60mm/min)

| Load capacity (kg) | Door type | Roller speed (mm/min) | Entrance width (mm) | Dimensions (mm)   |                     |                     | Reaction loads (kN) |      |      |       |      |      |       |       |
|--------------------|-----------|-----------------------|---------------------|-------------------|---------------------|---------------------|---------------------|------|------|-------|------|------|-------|-------|
|                    |           |                       |                     | Car internal (MM) | Minimum roller (Ø1) | Minimum roller (Ø2) | Machine room        |      |      |       | Ft   |      |       |       |
|                    |           |                       |                     |                   |                     |                     | Ø1                  | Ø2   | Ø3   | Ø4    | Ø5   | Ø6   | F1    | F2    |
| 3000               | 24        | 30                    | 2200                | 3500x3400         | 3670x4020           | 4400x5600           | 67.8                | 52.5 | 47.8 | 70.9  | 14.1 | 6.1  | 282.1 | 143.8 |
|                    |           | 45                    |                     |                   |                     |                     |                     |      |      |       |      |      | 270.4 | 132.2 |
|                    |           | 60                    |                     |                   |                     |                     |                     |      |      |       |      |      | 321.9 | 111.8 |
| 3500               | 24        | 30                    | 2400                | 3800x3400         | 3860x4020           | 4500x5600           | 69.0                | 53.8 | 56.0 | 80.0  | 18.0 | 8.1  | 290.8 | 117.8 |
|                    |           | 45                    |                     |                   |                     |                     |                     |      |      |       |      |      | 353.8 | 178.7 |
|                    |           | 60                    |                     |                   |                     |                     |                     |      |      |       |      |      | 377.2 | 250.8 |
| 4000               | 200       | 30                    | 2400                | 3000x4000         | 4170x4650           | 4500x6000           | 66.3                | 73.1 | 67.8 | 94.1  | 28.5 | 7.4  | 282.7 | 206.4 |
|                    |           | 45                    |                     |                   |                     |                     |                     |      |      |       |      |      | 280.8 | 230.8 |
| 5000               | 200       | 30                    | 2500                | 3200x4000         | 4510x5050           | 5400x6000           | 68.0                | 88.1 | 88.1 | 114.4 | 21.9 | 10.7 | 310.0 | 249.0 |
|                    |           | 45                    |                     |                   |                     |                     |                     |      |      |       |      |      | 352.4 | 273.5 |

Freight elevators of less than 2500kg capacity can only be loaded by forklifts with extenders. Goods cannot be loaded by forklift. Please consult our local agent if you plan to use a forklift to load and unload goods with our traction-type freight elevators of 2000kg capacity or more.

## SUPPLY SCOPE (3)

### Maximum Number Stops, Travel and Minimum Floor Height

| Rated capacity (kg) | Rated speed (m/min) | Maximum number of stops | Maximum travel (m) | Minimum floor height (mm) |
|---------------------|---------------------|-------------------------|--------------------|---------------------------|
| 750 - 2500          | 45                  | 30                      | 40                 | HH+700                    |
|                     | 60                  |                         | 60                 |                           |
|                     | 90                  |                         |                    |                           |
| 3000 - 3500         | 30                  | 1                       | 40                 |                           |
|                     | 45                  |                         |                    |                           |
|                     | 60                  |                         |                    |                           |
| 4000 - 5000         | 30                  |                         |                    |                           |
|                     | 45                  |                         |                    |                           |

### Vertical Dimensions

| Rated capacity (kg) | Rated speed (m/min) | OH (mm) | FD (mm) | TC (mm) | HH (mm) | HB (mm) | HF (mm) |
|---------------------|---------------------|---------|---------|---------|---------|---------|---------|
| 750                 | 45                  | 4400    | 1200    | 1250    | 2100    | 3200    | 2200    |
|                     | 60                  | 4600    | 1500    | 1450    |         |         |         |
|                     | 90                  | 4800    | 1800    | 1600    |         |         |         |
|                     | 105                 | 5000    | 2100    | 1800    |         |         |         |
| 1000                | 45                  | 4400    | 1200    | 1250    | 2100    | 3200    | 2200    |
|                     | 60                  | 4600    | 1500    | 1450    |         |         |         |
|                     | 90                  | 4800    | 1800    | 1600    |         |         |         |
|                     | 105                 | 5000    | 2100    | 1800    |         |         |         |
| 1500                | 45                  | 4400    | 1200    | 1250    | 2100    | 3200    | 2200    |
|                     | 60                  | 4600    | 1500    | 1450    |         |         |         |
|                     | 90                  | 4800    | 1800    | 1600    |         |         |         |
|                     | 105                 | 5000    | 2100    | 1800    |         |         |         |
| 2000                | 45                  | 4400    | 1200    | 1250    | 2100    | 3200    | 2200    |
|                     | 60                  | 4600    | 1500    | 1450    |         |         |         |
| 2500                | 45                  | 4600    | 1200    | 1250    | 2500    | 3600    | 2200    |
|                     | 60                  | 5000    | 1600    | 1450    |         |         |         |

## SUPPLY SCOPE (4)

### Vertical Dimensions

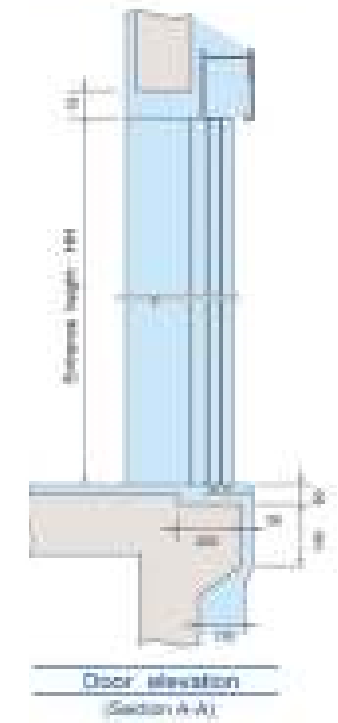
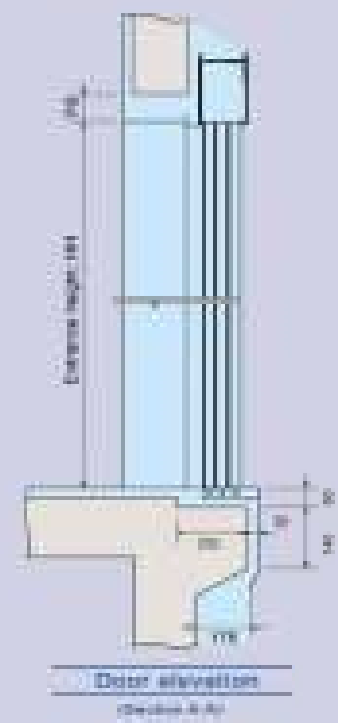
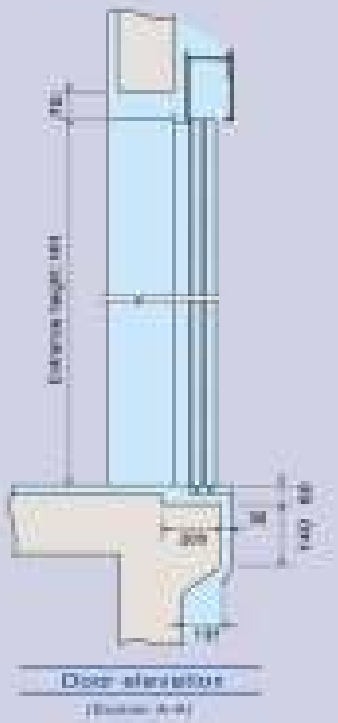
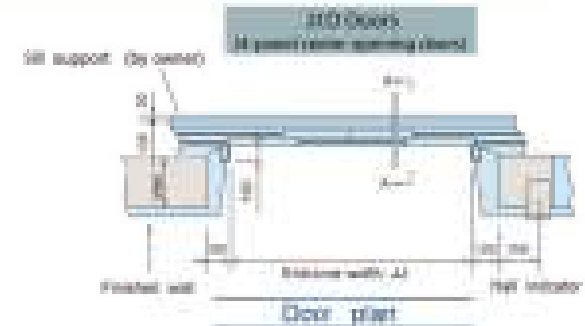
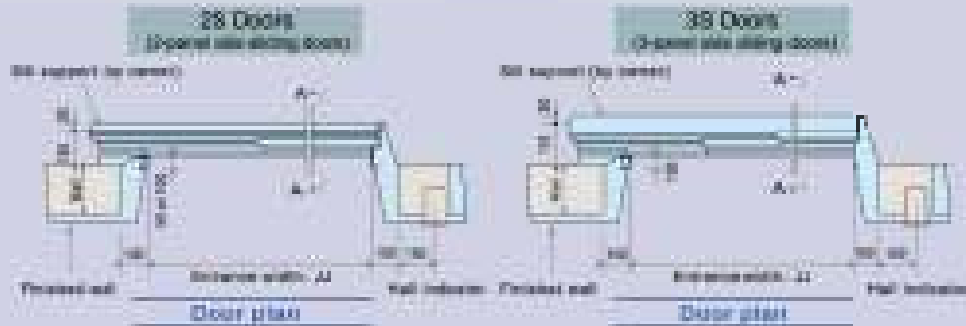
| Rated capacity (kg) | Rated speed (m/min) | OH (mm) | FD (mm) | TC (mm) | HH (mm) | HB (mm) | HF (mm) |
|---------------------|---------------------|---------|---------|---------|---------|---------|---------|
| 2000                | 60                  | 4500    | 1800    | 1800    | 2100    | 3200    | 2500    |
|                     | 100                 | 5300    | 2100    | 1800    |         |         |         |
| 2500                | 60                  | 5200    | 1800    | 1800    | 2500    | 3600    | 2600    |
|                     | 100                 | 6400    | 2100    | 1800    |         |         |         |
| 3000                | 30                  | 5200    | 1400    | 1400    | 2500    | 3600    | 2600    |
|                     | 45                  | 5200    | 1500    | 1400    |         |         |         |
|                     | 60                  | 5400    | 1800    | 1600    |         |         |         |
| 2000                | 30                  | 5400    | 1500    | 1500    | 2500    | 3600    | 2600    |
|                     | 45                  | 5400    | 1600    | 1500    |         |         |         |
|                     | 60                  | 5600    | 1800    | 1700    |         |         |         |
| 4000                | 30                  | 5800    | 1800    | 1800    | 2500    | 4100    | 2600    |
|                     | 45                  | 5800    | 1800    | 1500    |         |         |         |
| 5000                | 30                  | 5700    | 1800    | 1600    | 2500    | 4100    | 2600    |
|                     | 45                  | 6000    | 1800    | 1800    |         |         |         |

OH: Overhead  
 FD: Floor-to-floor  
 TC: Top clearance  
 HH: Hoistway height  
 HB: Car frame height  
 HF: Landing floor height

### NOTES

The given number of cars does not include emergency cars only for use in fire situations with rescuers. Goods elevator for loading by fork lift. Please consult your local agents if you plan to use a fork lift to load and unload goods with our overhead-type freight elevators or loading capacity of yours.

# ENTRANCE LAYOUT



\* For other door types, please contact our local agents for detail

# FEATURES



## Standard Feature

| Feature  | Description   |
|--|---|
| <b>Call System</b>                                   |   |
| (NC-DEC)<br>1 CAR Selective<br>Collective            | The system consists of call buttons in the car, and a pair of up and down destination floor buttons installed at each elevator hall (single button at terminal floors), which connect electrically with microprocessors supervising floor selection and direction of travel. Each will respond to those car and hall calls that comply with its direction of service. |
| <b>Control and Service Features</b>                  |   |
| (CCC)<br>Car Call<br>Canceling                       | When a car has responded to the hall car call in one direction, the system regards remaining calls in the other direction as voided and clears them from the memory.  |
| (DLH)<br>Overload<br>Holding Stop                    | A buzzer, as well as voice guidance sounds to alert the passengers that the car is overloaded, the doors remain open and the car will not leave that floor until enough passengers exit the car.  |
| (SFL)<br>Safe Landing                                | If a car has stopped between floors due to some equipment malfunction, the controller checks the counts, and if it is considered safe to move the car, the car will move to the nearest floor at a low speed and the doors will open.   |
| (CFC-A)<br>Car fan Shut Off<br>- Automatic           | If there are no calls for a specified period, the car ventilation fan will automatically be turned off to conserve energy.  |
| (CLCA)<br>Car light Shut Off<br>- Automatic          | If there are no calls for a specified period, the car lighting will automatically be turned off to conserve energy.   |
| (FCC-F)<br>False Call Canceling<br>- Car Button Type | If the wrong car button is pressed, it can be canceled by quickly pressing the same button again twice.   |
| (IRC)<br>Independent Service                         | Exclusive operation where a car is withdrawn from group control operation for independent use, such as maintenance or repair, and responds only to car calls.   |

## Standard Feature

| Feature                                   | Description   |
|---|---|
| <b>Door Closing Features</b>              |   |
| (DLI)<br>Door Load<br>Detector            | When excessive door load has been detected while opening or closing, the doors immediately reverse.   |
| (RDC)<br>Repeated Door<br>-Close          | Should an obstacle prevent the doors from closing, the doors will repeatedly open and close until the obstacle is cleared from the doorway.                             |
| (RHSB)<br>Reopen with Hall<br>Button      | Closing doors can be reopened by pressing the hall button corresponding to the traveling direction of the car.  |
| (DCE)<br>Safety Door Edge                 | Sensitive door edges detect passengers or objects during door closing.  |
| (D4D-TB)<br>Extended Door<br>-Open Button | When a button inside a car is pressed, the doors will remain open longer to allow loading and unloading of a stretcher, baggage, etc.                                   |
| <b>Special Call Display Features</b>      |   |
| (ITH)<br>Inter Communication<br>System    | A system which allows communication between passengers inside a car and the building personnel.   |
| <b>Emergency Illumination Features</b>    |   |
| (ECL)<br>Emergency Car<br>Lighting        | Car lighting which turns on immediately when power fails, providing a minimum level of lighting within the car. (Choice of dry-cell battery or trickle-charge battery.) |



## Optional Feature

| Feature  | Description  |
|--|--|
| <b>• Call and Chime Features</b>                                   |  |
| <b>(ABP) Automatic Bypass</b>                                      | A fully-loaded car bypasses hall calls in order to maintain maximum operational efficiency (Optional in case of HC - 290 system.)  |
| <b>(AS) Attendant Service</b>                                      | Exclusive operation where an elevator can be operated using the buttons and switches located in the car operating panel, allowing smooth boarding of passengers or loading of baggage. |
| <b>(MOSHOS-T) Out-of-Service by Hall Key Switch</b>                | For maintenance or energy-saving measures, a car can be taken out of service temporarily with a key switch (with or without a timer) mounted in a specified hall.                      |
| <b>(NS-CB) Non-Service to Specific Floors - Car Button Type</b>    | To enhance security, service to specific floors can be disabled using the car operating panel. This function is automatically deactivated during emergency operation.                  |
| <b>(NSMC-T) Non-Service to Specific Floors - Switch/Timer Type</b> | To enhance security, service to specific floors can be disabled using a manual or timer switch. This function is automatically deactivated during emergency operation.                 |
| <b>• Door Operation Features</b>                                   |  |
| <b>(SR) SafetyRay</b>  | One or two infrared-light beams cover the full width of the doors as they open or close to detect passengers or objects.   |
| <b>(UGDS) Ultrasonic Door Sensor</b>                               | Sound waves are used to scan a 30° area near the open doors to detect passengers or objects.   |

## Optional Feature

| Feature  | Description  |
|--|--|
| <b>• Signal and Display Features</b>                                 |  |
| <b>(ADDCNCH) Car Arrival Chime - Car or Hall</b>                     | Electronic chimes sound to indicate that a car will soon arrive. (The chimes are mounted either on the top and bottom of the car, or in each hall.)  |
| <b>(EXCL) Excluding Operation-Signal Light</b>                       | As the reserved operation for emergency (FE-B) function is started, hall indicator instructs the lantern fan to light special-purpose, normal and side advantage of hall passengers changing to take other lifts.  |
| <b>• Emergency Control and Features</b>                              |  |
| <b>(EER-OPER-0) Earthquake Emergency Return</b>                      | Upon activation of primary and/or secondary wave seismic sensors, all cars stop at the nearest floor, and park there with the doors open to facilitate safe evacuation of passengers.  |
| <b>(FER) Fire Emergency Return</b>                                   | Upon activation of a key switch or a building's fire sensors, all calls are cancelled, all cars immediately return to a specified evacuation floor and the doors open to ensure safe passenger evacuation.   |
| <b>(DEPB) Operation by Emergency Power Source - Automatic/Manual</b> | Upon power failure, predetermined car(s) use the building's emergency power supply to move to a specified floor, where the doors then open to facilitate the safe evacuation of passengers. After all predetermined car(s) have arrived at the floor, normal operation will be available with only pre-determined car(s).    |
| <b>(MP) Supervisory Panel</b>  | Each elevator's status and operation can be remotely monitored and controlled through a panel installed in building's supervisory room, etc.   |
| <b>(MELD) Movable Emergency Landing Device</b>                       | Upon power failure, a car equipped with this function automatically moves and stops at the nearest floor using a rechargeable battery, and the doors open to ensure passenger safety. (Max. allowable floor-to-floor distance is 10 meters.) (MELD is only applied below 750-1500 kg 45-100 min and 2000-2600 kg 45-60 min.) |

