FUJITEC

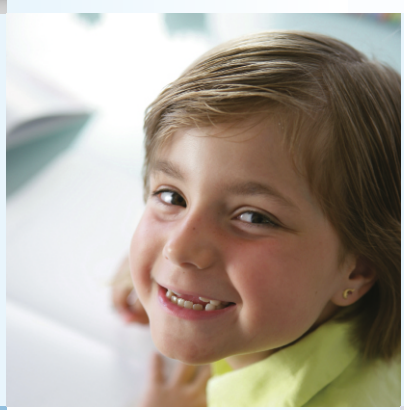
ZEXIA-IN

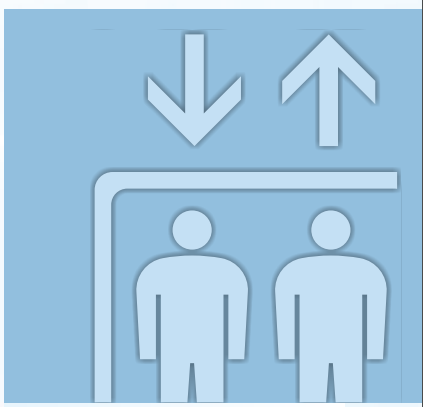
Passenger Elevator with Machine Room

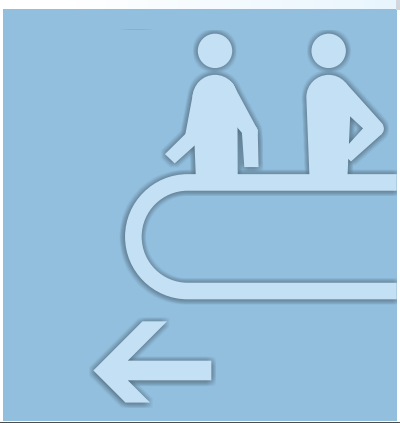
Product Concept

“Made in Fujitec”

By providing people with the safe and reliable elevators that Fujitec manufactures in-house, Fujitec is building trust with people around in the world.







By manufacturing safe and reliable elevators, we are building trust with people around the world.

Fujitec's "Global Common Components" are used in the ZEXIA brand. The quality of components, such as traction machines, elevator controllers, and operating fixtures, is controlled through Fujitec's integrated system of global quality management. Elevators with the same high quality will be provided by Fujitec's global production base under the concept of "Made in Fujitec".

70th

More than 70-Year History in the Business of Elevator, Escalator and Moving Walks

Since the foundation of Fujitec in 1948, seeing the market from a global perspective and having the spirit of being a top global company, Fujitec has been a global leading manufacturer of elevators, escalators, and moving walks. Fujitec has been providing the people with leading-edge technologies and global standards of product.

Product Concept

Safety & Reliability

All control-related components ranging from control circuits to inverters are independently developed by Fujitec, so that highly reliable elevator operation is established. When the elevator control system assembled with Fujitec's reliable component parts detects the possibility of the occurrence of elevator malfunction, it operates in order to maintain the elevator operation stable and efficient.

Ecology

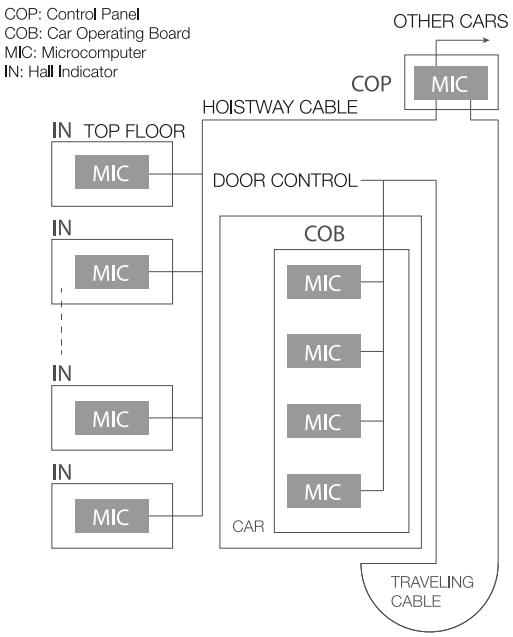
In ZEXIA elevators, the gearless traction machines with a permanent magnetic synchronous motor assure low power consumption. Also, the electric power regenerative unit equipped between the elevator controller and the power supply saves the electrical energy consumption in the building.
Fujitec contributes to global society by providing for ecology-conscious products, reflecting on them 70 years of knowledge and technologies accumulated through the manufacturing of elevators.

Comfort Design

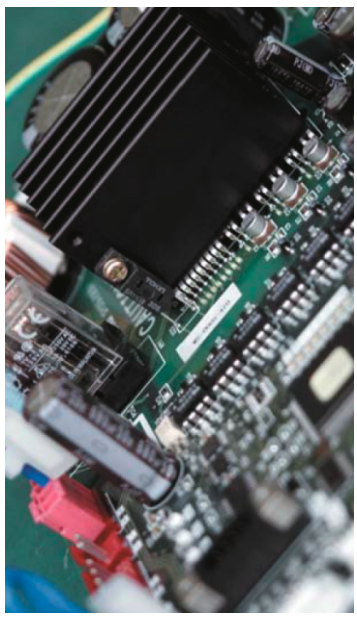
Under Fujitec's universal designs, newly adopted buttons for elevator operating fixtures are highly visible and tactually recognizable, and the numbers and letters shown on aesthetically refined displays can be easily seen and read.
Also, various styles for the decoration of elevator interior and landing floors provide the passengers with a superb and comfortable riding experience.

ZEXIA-IN

Distributed Control System



- A 32-bit data bus provides high-speed and high-precision data transmission of input-output command signals between each microprocessor located in control panels, hall-call / car-call buttons, hall indicators and hall lanterns.
- High-speed data transfer with multiple protocols enables large-scale data processing at ten times the normal speed. This also improves the ability to monitor elevator running speed, landing precision and operating reliability as well as input-output command signals of car operating fixtures and operation indicators.
- The bus system is employed for data transmission between microcomputers located in every hall-call fixture, car operating board, and control panel. This bus system has strong protection against signal interference and has system-extending capability.

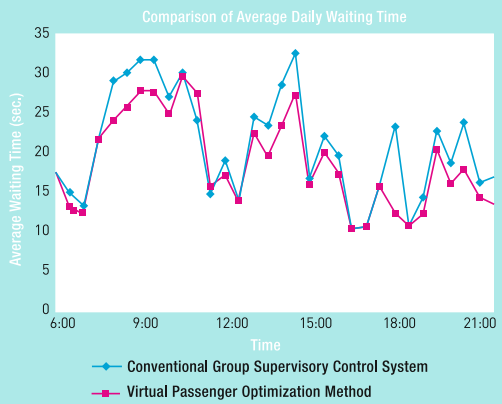


An elevator operation system with multiple microcomputers makes maximum use of a “Distributed Control System.” Hall indicators, car operating boards, and control panels incorporate high-performance microcomputers. These independent microcomputers analyze elevator operating conditions utilizing self-diagnostic functions and implement immediate control of elevator operations. Also, data transmission buses between microcomputers increase data processing capability.

FLEX-NX series -Elevator Group Supervisory Control System- (GSC)

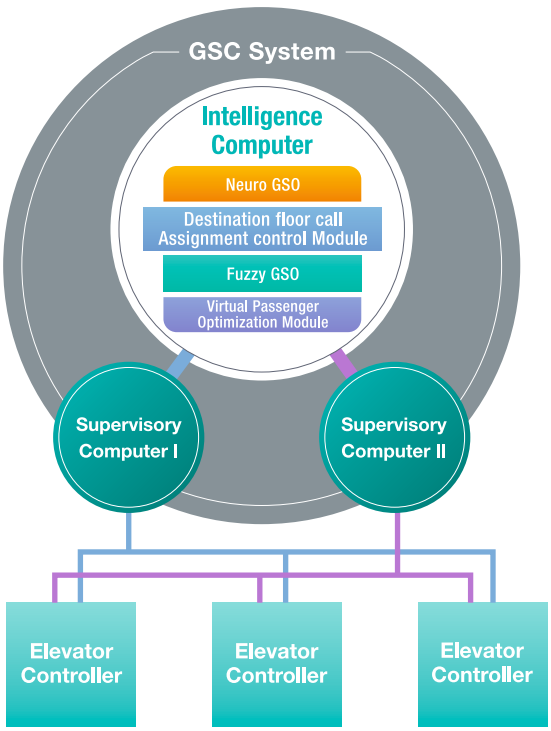
Fujitec has adopted the “Virtual Passenger Optimization Method” as a new elevator group control system. This system controls elevator group operation by virtually calculating passenger waiting time in advance based on past accumulated data, such as passenger travel patterns and passenger volume at each floor. Also, this method comprehensively calculates passenger waiting time based on extrapolated data of probable future passengers, how many passengers will come to a certain floor when a hall call is registered and/or how many passengers will come to a certain floor when no hall call is registered. This comprehensive analysis reflects whole building traffic conditions for efficient elevator operation control as well as reducing daily passenger waiting time by up to 10 %.

Comparison Simulation with Conventional Group Supervisory Control System

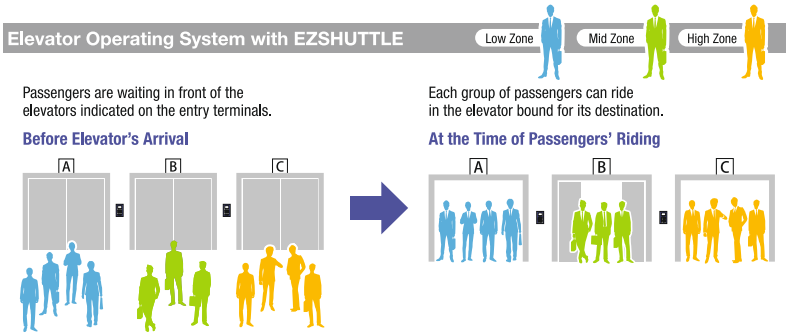


* The graph shows the results of a simulation to reproduce the daily traffic in an actual high-rise condominium having three elevator units and 33 stops.

EZSHUTTLE - Destination Floor Guidance System -



* Based on comparisons of passenger riding time obtained under a conventional elevator operating system and that under a simulated EZSHUTTLE-equipped elevator operating system



In an elevator operating system with EZSHUTTLE, passengers are required to register their destinations at the elevator floors rather than conventionally registering them inside the elevator. The EZSHUTTLE system then guides passengers to their assigned elevators, which will have been selected to minimize the number of destination stops based on the registered destinations.

This passenger guidance and elevator assignment provides passengers with uncongested elevator service and a reduction in passenger riding time by 50%* at peak travel periods.

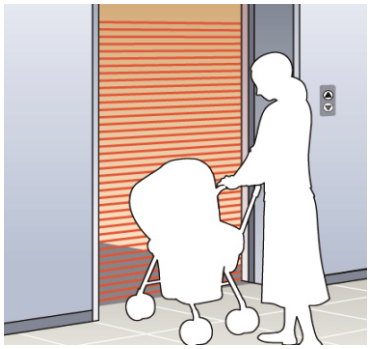
Night-Time Self-Checking Operation

- A safety enhancement for increased reliability -

Mechanical brake conditions are automatically checked by moving the elevator during the night time while not receiving any car and hall calls. This night-time self-checking operation increases passenger safety and contributes to a high after-sales product quality.

Multi-Beam Sensor

Multi-beam Sensor emits multiple infrared beams, creating an invisible curtain covering the entire doorway. If any of the beams is interrupted, the closing doors will stop and reopen.
This function results in a significantly higher detection rate of a passenger and/or an object in the doorway.



Gearless Traction Machine with Permanent Magnetic Synchronous Motor

The gearless traction machines with a permanent magnetic synchronous motor assure high riding comfort quality and low power consumption.
This newly adopted technology reduces the weight and size of a traction machine, because gears are no longer required for elevator speed control.

In addition, ZEXIA's small machines require less motor capacity and power consumption compared to conventional elevators. The differences are shown below.

Given elevator operating conditions:

1) The maximum number of elevator operations per day: 600 times
2) The travel distance in a single operation: 30 meters
3) The rated speed: 1.0 meter per second
4) The rated load: 1200 kgs.

Required Motor Capacity

ZEXIA Elevator (PMGL)	8 kW
Conventional Elevator (ACGD)	11 kW

Energy-efficient Traction Machines reduce power consumption and CO_2 emission.

LED Lights on Car Ceiling

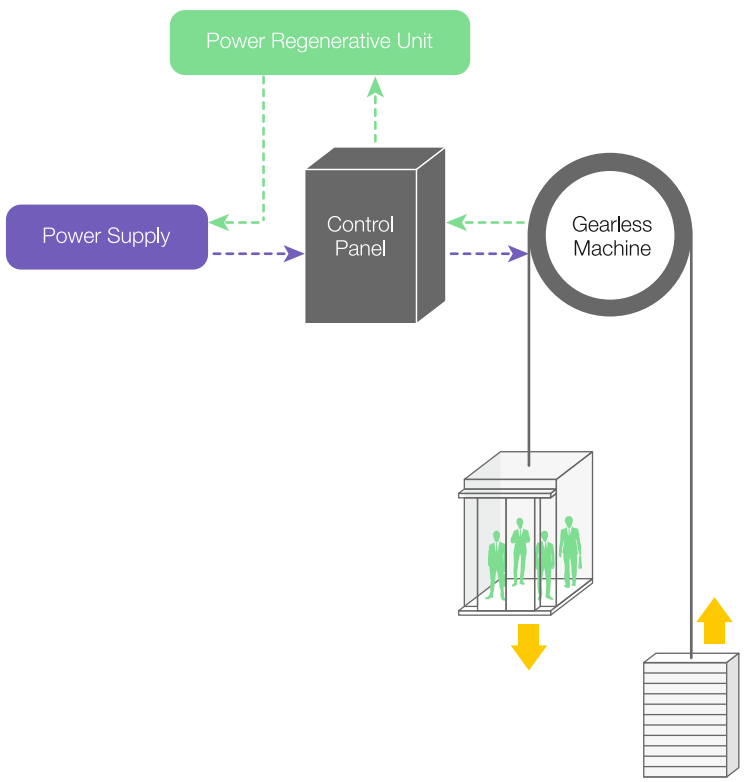
Fujitec's adoption of energy-efficient, long-lasting LED downlights for car ceiling light saves energy, and leads to the preservation of environment.

	Filament Light Bulb	LED Light Bulb	Improvement Results
Lifetime	**approx. 1,500 hours**	**approx. 20,000 hours**	**approx. 13 times**
Wattage	**90 W**	**9 W**	**1/10 (one-tenth)**

Electric Power Regenerative Unit

The adoption of electric power regenerative unit instead of conventional heat dissipation resistor allows the traction-machine-produced electricity to be fed back to the building's electrical facilities. The amount of electricity fed back to the facilities is equivalent to nearly 35 % * of the whole amount of electricity consumed by the corresponding type of elevator with heat dissipation resistor.

*: The value of this percentage differs based on the specifications of the elevator and its usage.



Comfort Design

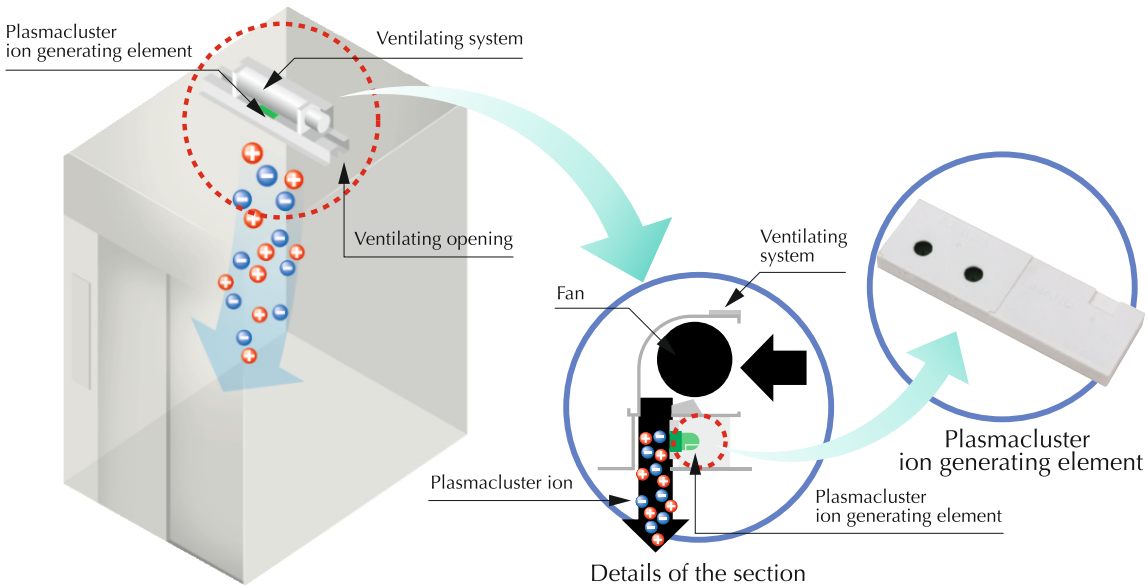
The latest human engineering technologies are reflected on the ZEXIA elevators. As the function of man-machine interface, tactile characters and letters are adopted for the buttons on the elevator operating boards and the elevator call buttons in the hall fixtures. Also, the devices and functional systems for the creation of comfort for the elevator passengers are equipped in the elevator.

IONFUL

(Plasmacluster™* ION Generating Device)

Optional

The first elevator company that installed a Plasmacluster Ion generating device in an elevator is Fujitec. The device built in an elevator's ventilation unit disinfects airborne mold, bacteria, viruses, allergens, and odor molecules as well as creating clean air in the elevator. This increases the comfort of passengers.



※Plasmacluster is a trademark of Sharp Corporation.

VONIC

(Automatic Voice Announcement System)

Optional

A computerized voice system provides passengers with timely information about car directions, car arrivals, door opening and closing, and emergencies, etc.
(Voice announcement is made in English. At the customer's request, it may be made in another language.)

Car Design

Design 1

Car Ceiling	CT-IN21 Ceiling with LED downlights
	Steel Sheet in Paint Finish Color: Light Gray (5AABJ003)
Car Panel	Hairline Finished Stainless Steel
Return Panel	Hairline Finished Stainless Steel
Car Transom	Hairline Finished Stainless Steel
Car Door	Hairline Finished Stainless Steel
Car Floor	Studded Rubber Color : Gray
Car Sill	Extruded Aluminum
Car Operating Board	COB-INM01 Brush Finished Stainless Steel

Design 2

Car Ceiling	CT-IN24 Ceiling with indirect lighting LED downlights
	Steel Sheet in Paint Finish Color: Ivory (5AABJ002)
Car Panel	Steel Sheet in Paint Finish | Color: Gold (5AABJ011)
Return Panel	Steel Sheet in Paint Finish | Color: Gold (5AABJ011)
Car Transom	Steel Sheet in Paint Finish | Color: Gold (5AABJ011)
Car Door	Steel Sheet in Paint Finish | Color: Gold (5AABJ011)
Car Floor	Studded Rubber Color: Black
Car Sill	Extruded Aluminum
Car Operating Board	COB-INM02 Brush Finished Stainless Steel
Handrail	Stainless Steel (CPH-GC01)

Car Design

Design 3

Car Ceiling	CT-IN23 Ceiling with indirect lighting LED tubes
	Steel Sheet with Paint Finish Colour : White (5AABJ001)
Car Panel	Etched Stainless Steel | Pattern : SD1062
Return Panel	Etched Stainless Steel | Pattern : SD1062
Car Transom	Etched Stainless Steel | Pattern : SD1062
Car Door	Etched Stainless Steel | Pattern : SD1062
Car Floor	20 mm Thick Marble (By Customer)
Car Sill	Extruded Aluminum
Car Operating Board	COB-GC01 Brushed Finish Stainless Steel

Design 4

Car Ceiling	CT-IN22 Ceiling with indirect lighting LED lamps
	Steel Sheet with Paint Finish Color : Ivory (5AABJ002)
Car Panel	Painted Steel Sheet | Color : Ivory (5AABJ002)
Return Panel	Painted Steel Sheet | Color : Ivory (5AABJ002)
Car Transom	Painted Steel Sheet | Color : Ivory (5AABJ002)
Car Door	Painted Steel Sheet | Color : Ivory (5AABJ002)
Car Floor	20 mm Thick Marble (By Customer)
Car Sill	Extruded Aluminum
Car Operating Board	COB-GS01 Brushed Finished Stainless Steel

Color and Pattern Variations

For Car Ceiling;
Paint Finish (Flat finish)

5AABJ001

White

5AABJ002

Ivory

5AABJ003

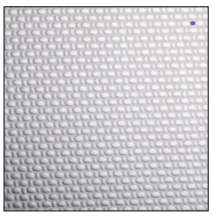
Light Grey

Car Finishes

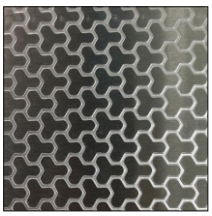
For Car Panel, Return Panel, Car Door, Car Transom, Jamb, Landing Door and Landing Transom; Paint Finish

5AABJ004	5AABJ005	5AABJ006	5AABJ007	5AABJ008	5AABJ009	5AABJ010	5AABJ011
Ivory	Light Gray	Beige	Sakura	Light Green	Ocean Blue	Silver	Gold

SS Hairline



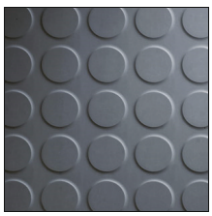
SS Linen



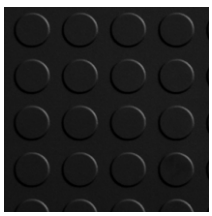
SS Honey Comb

SS Vibration

Flooring



Studded Rubber Grey (Standard)



Studded Rubber Black (Standard)

*Actual colour may vary from the colour shown in the pictures above.

Handrail

CPH-GS01

Stainless Steel Finished
Pipe Handrail with curved ends

CPH-GC01

Stainless Steel Finished
Pipe Handrail with straight ends

CPH-GC02

Stainless Steel Finished
Flat-plate Handrail with curved ends

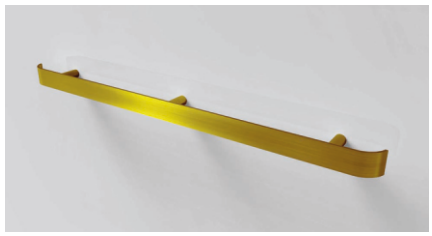
CPH-GC03

Titanium-Gold-Finished Pipe Handrail with curved ends

CPH-GC04

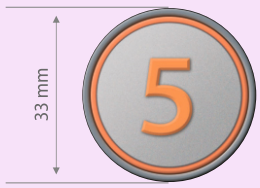
Titanium-Gold-Finished Pipe Handrail with straight ends

CPH-GC05



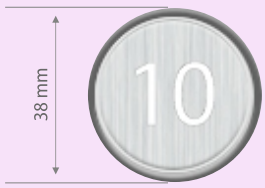
Titanium-Gold-Finished Flat-plate Handrail with curved ends

Button



Button		
	Model No.	BG
	Type	Micro Push Button
	Button Head	Stainless Steel
	Illumination	Outer Ring & Legend
	Lighting Colour	Amber
	Braille	Without
	Shape	Round

Button		
	Model No.	B07
	Type	Micro Push Button
	Button Head	Stainless Steel
	Illumination	Outer Ring
	Lighting Colour	Orange
	Braille	Standard
	Shape	Round



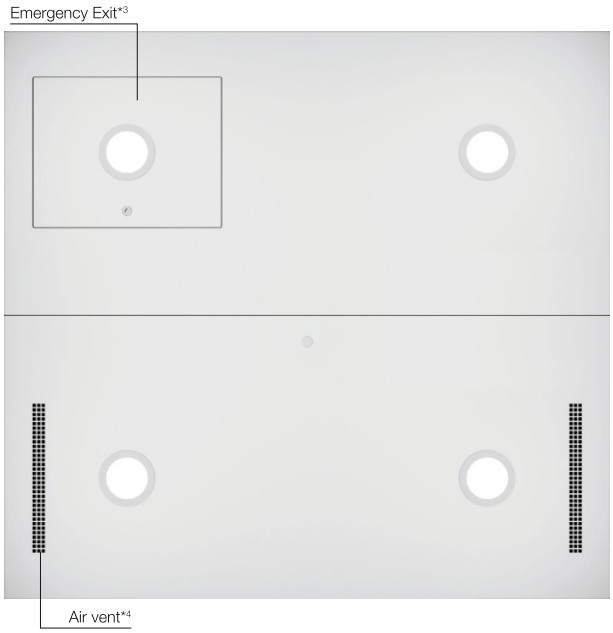
Button		
	Model No.	B08
	Type	Micro Push Button
	Button Head	Stainless Steel
	Illumination	Outer Ring
	Lighting Colour	Amber
	Braille	Without
	Shape	Round

Ceiling Design

Standard | Optional

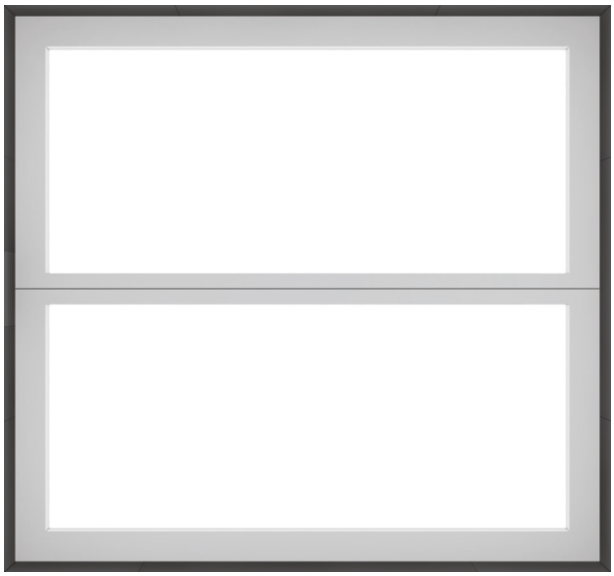
CT-IN21 *1

Lighting:	LED Downlights
Panel:	Paint Finish



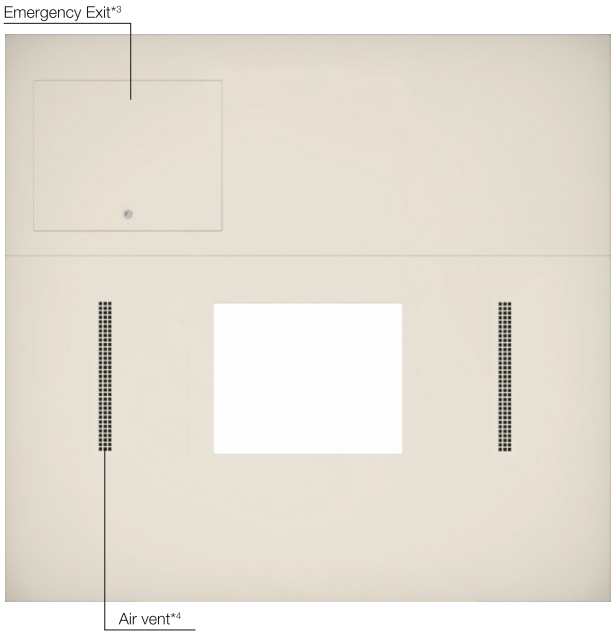
CT-IN23 *2, *4

Lighting:	Indirect Lighting LED tubes
Panel:	Paint Finish



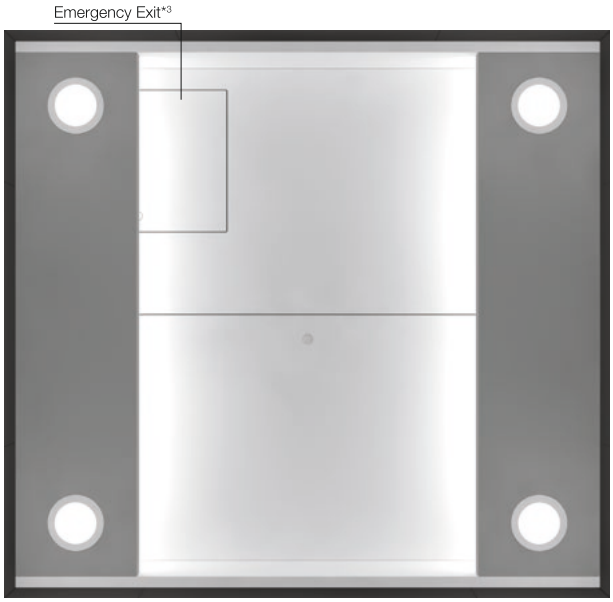
CT-IN22 *1

Lighting:	Indirect Lighting LED Lamps
Panel:	Paint Finish



CT-IN24 *2

Lighting:	Indirect Lighting LED Downlights
Panel:	Paint Finish



Note:
*1. Clear Ceiling Height: 2350mm, Top Ceiling Height: 2350mm
*2. Clear Ceiling Height: 2250mm, Top Ceiling Height: 2400mm
*3. Emergency exit (Required). Applicable for the above ceiling designs.
*4. When the car interior width is greater than 1650mm, the acrylic ceiling will be divided into four sheets instead of two.
*5. No of Verification and location will change according to car size / capacity

Faceplate:	Stainless Steel Finish
Indicator:	Orange Dot-Matrix LED or TFT

Standard Types

Optional Types

COB-INM01

COB-INM02

COB-GS01

COB-GC01

Entrance Design

Standard

Entrance with Narrow Jambs

Landing Door	Painted Steel Sheet Color: Sakura (5AABJ007)	
Jamb	Painted Steel Sheet Color: Sakura (5AABJ007)	
Sill	Extruded Aluminum	
Hall Indicator with Hall Buttons (IN-INM01)	Vertical Indicator	Orange Dot-Matrix LEDs
	Faceplate	Stainless Steel with Brushed Finish

Optional

Entrance with Wide Jambs

Landing Door	Hairline Finished Stainless Steel
Jamb	Hairline Finished Stainless Steel
Sill	Extruded Aluminum
Hall Lantern (HLL-INM 11)	Round Jewel Mounted Hairline-Surface Stainless Steel with Inclined Rims at its Bottom
Hall Buttons (HB-INM 11)	Tactile Button Incorporated Hairline-Surface Stainless Steel with Inclined Rims at its Top

Optional

Entrance with Wide Jambs and Transom

Landing Door	Etched Stainless Steel Pattern: SD-1031(V)	
Jamb	Stainless Steel with Hairline Finish	
Sill	Extruded Aluminum	
Hall Indicator (HIN-INM11)	Horizontal Indicator	Orange Dot-Matrix LEDs
Hall Buttons (HB-INM11)	Tactile Button Incorporated Hairline-Surface Stainless Steel with Inclined Rims at its Top	

Hall Indicator with Hall Button

Faceplate	Stainless Steel Finish
Indicator	Orange Dot-Matrix LEDs / TFT

Standar Hall Indicator with Hall Buttons

IN-INM01 & IN-INM02

Optional Hall Indicator with Hall Buttons

IN-INM03 & IN-INM04

IN-INM11 & IN-INM12

IN-INM13 & IN-INM14

IN-INM21

*The incorporation of key-switch is Optional

Standard Optional

IN-INM01

Indicator	Dot Matrix
Faceplate Design	Stainless Steel Brushed Finish (Wall Mounted Type)

IN-INM02

Indicator	Dot Matrix
Faceplate Design	Stainless Steel Brushed Finish (Wall Mounted Type)

IN-INM03

Indicator	TFT
Faceplate Design	Stainless Steel Brushed Finish (Wall Mounted Type)

IN-INM04

Indicator	TFT
Faceplate Design	Stainless Brushed Finish (Wall Mounted Type)

IN-INM11

Indicator	Dot Matrix
Faceplate Design	Stainless Steel Brushed Finish (Wall Mounted Type)

IN-INM12

Indicator	Dot Matrix
Faceplate Design	Stainless Steel Brushed Finish (Wall Mounted Type)

IN-INM13

Indicator	TFT
Faceplate Design	Stainless Steel Brushed Finish (Wall Mounted Type)

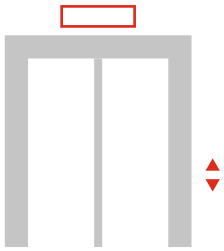
IN-INM14

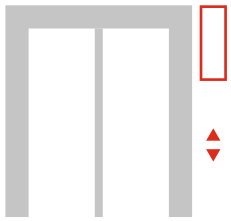
Indicator	TFT
Faceplate Design	Stainless Steel Brushed Finish (Wall Mounted Type)

IN-INM21

Indicator	Dot Matrix
Faceplate Design	Stainless Steel Brushed Finish (Wall Mounted Type)

Hall Fixtures



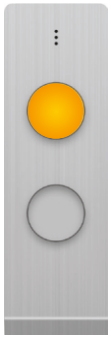


Hall indicator

HIN-INM11

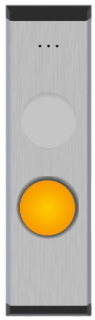
Indicator	Dot Matrix
Faceplate Design	Stainless Steel Finish (Wall Mounted Type)

Hall Lantern



HLL-INM11

Lantern Colour	Orange
Faceplate Design	Stainless Steel Finish (Wall Mounted Type)



HLL-INM21

Lantern Colour	Orange
Faceplate Design	Stainless Steel Brushed Finish (Wall Mounted Type)

Hall Button Unit

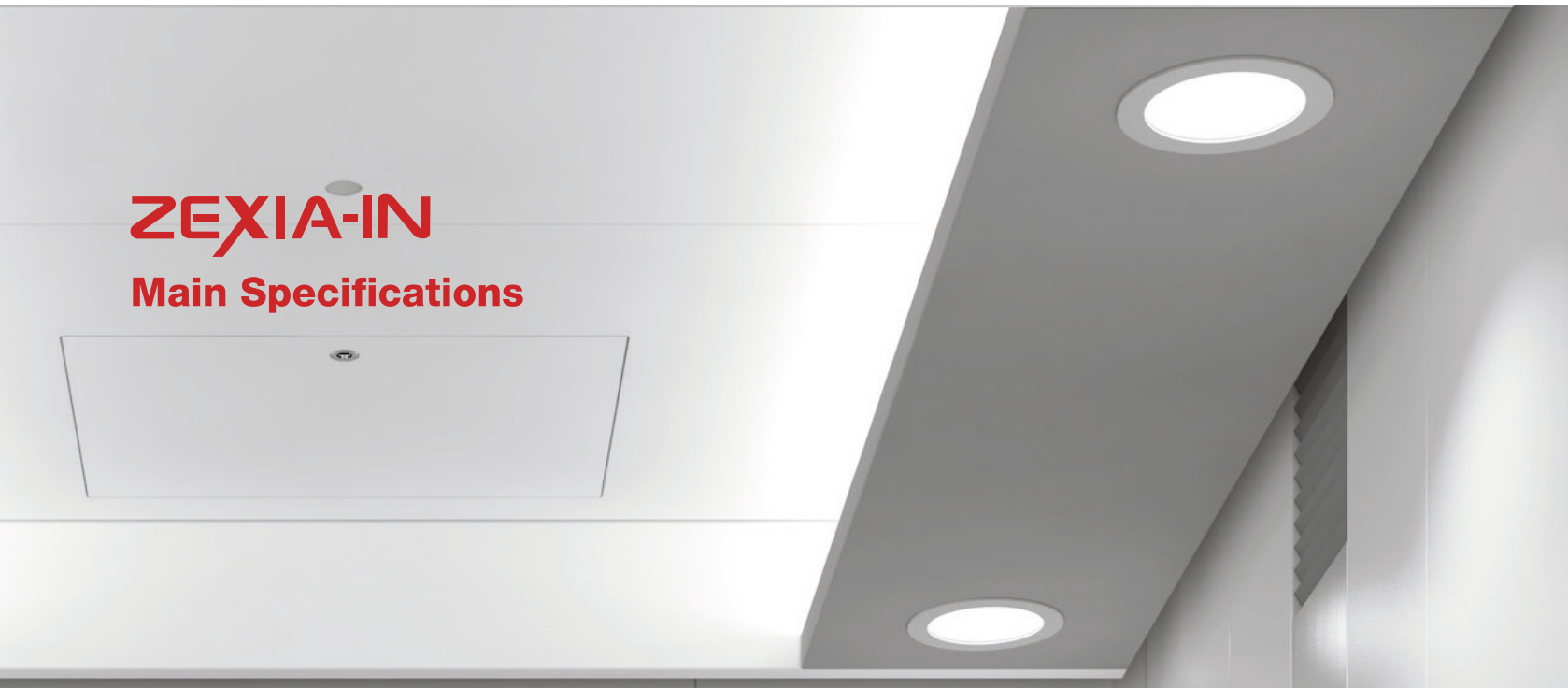
HB-INM11

Button	Push Button
Faceplate Design	Stainless Steel Finish (Wall mounted type)

HB-INM21

Button	Push Button
Faceplate Design	Stainless Steel Finish (Wall mounted type)

*The incorporation of key-switch is Optional



ZEXIA-IN

Main Specifications

Capacity

408, 544, 680, 748, 884
1020, 1156, 1360, 1632 & 2000 kg

Speed

1.0, 1.5, 1.75, 2.0, 2.5, 3.0, 3.5, 4.0 mps
Application of 2.5 mps to 4.0 mps is subject to the satisfaction of the Standard Dimensions table.

Number of Served Floors

40 Stops or Less

Travel Height

For the speed of 1.0 to 3.0 mps = 140 mm
For the speed of 3.5 to 4.0 mps = 230 mm

Control Method

VVVF controlled by distributed 32-bit Microcomputers.

Traction Machine

Gearless Machine with Permanent Magnetic Synchronous Motor

Types of Elevator Operation

1-Car or 2-Car Selective Collective Operation or Group Control Operation for 3 to 8 Cars in a Bank

Door Operation System

Permanent Magnetic Motor controlled by VVVF

Door Opening Type

2-Panel Center Opening
2-Panel Side Opening

Note: *For application range other than the above, please contact our local office for detail.
*The above specifications may change without prior notice.

Specification Details

1. Elevator Operation Control System

Control Systems	Details of the Systems
For One Elevator: 1-Car Selective Collective Operation (: Simplex Collective Operation)	Landing calls in the direction in which the elevator is traveling are served sequentially. After all the landing calls are served, landing calls in the opposite direction will be served. When there are no incoming calls, the elevator stops and stays at the last served floor.
For Two Elevators in a Bank: 2-Car Selective Collective Operation (: Duplex Collective Operation)	Two selective-collective-operation elevators work together in one group. Landing calls are served by either elevator that can respond first. When there are no calls, one will be on standby at the main floor; the other will stay at the last served floor.
For Two to Eight Elevators in a Bank: Group Control Operation For 2 to 8 Elevator in a bank	The operation of more than two elevators in a bank is controlled by a group supervisory system which calculates passenger waiting time in advance based on the accumulated traffic data, such as passenger travel patterns and passenger volume at each floor, etc.

2. Functions and Specific-Purpose Operations, etc.

Functions and Specific-Purpose Operations, etc.		Details	●: Standard / ■: Optional	
Passenger-Safety Functions	Alarm Buzzer	When the emergency button is pressed, buzzer mounted @ lowest landing will sound an alarm.	●	
	Rescue Operation to Nearest Floor	In the event that an elevator stops between floors, a safety circuit will automatically analyze the situation and slowly move the elevator to the nearest available floor.	●	
	Automatic Releveling	In the event that an elevator floor isn't leveled with the landing floor, the Automatic Releveling function will initiate and make the elevator floor flush with the landing floor.	●	
	Emergency Car Lighting	In the event of a power failure, a self-charging-battery-equipped emergency lighting system will light up the elevator for passenger safety and relief.	●	
	Intercom System (2 way Communication System)	An intercom for 2-way communication is installed in the elevator. it allows remote telephones to communicate with the elevator; one at the machine room and one in lift lobby or security room (cable by customer)		■
	Multi-Beam Sensor	Multi-beam Sensor emits multiple infrared beams, creating an invisible curtain covering the entire doorway. If any of the beams is interrupted, the closing doors will stop and reopen.	●	
	Multi-Beam Sensor with Mechanical Safety Edge	A multiple-beam sensor can be incorporated in mechanical safety edges of elevator doors.		■
	Night-Time Self-Checking Operation	During the night time when the elevator doesn't receive any car and hall calls, the system will move the elevator and check the mechanical brake conditions automatically.	●	
	Open Door Warning	If a passenger tries to forcibly open the doors while the elevator is in operation, the warning device will sound an alarm.	●	

The above functions may change without prior notice.

Functions and Specific-Purpose Operations, etc.		Details	●: Standard / ▪: Optional	
Efficient-Operation Functions	Anti-Nuisance Function	1) For elevators with three or more landings, when three or more car calls are registered at the same time, or when four or more car calls are registered in an extremely short period of time, the system will automatically cancel the activated car calls. 2) For elevators with five or more landings, when an elevator loaded with 100 kg or less receives four or more car call registrations, the system will cancel all the activated registrations.	●	
	Auto Adjustment of Door Open Time	This function automatically adjusts the door-hold open time (dwell time) at each floor depending on passengers' hall- and car- call registration situations.	●	
	Automatic Return to Main Floor (for Group Control Operation)	When an elevator does not receive any car- or hall- calls for a certain period of time, the Automatic Return to Main Floor function makes the elevator go to the lobby or a predetermined floor and waits in standby for passengers to board.	●	
	Door Nudging	If the car doors are held open over a given period of time, the Door Nudging function will close them slowly with an audible alarm.		▪
	Auto-Separation after Elevator Failure (for Group Control Operation)	When an elevator under group control operation fails to operate normally, it will be separated from the elevator group so as not to affect the overall group elevator performance.	●	
	Load Bypass	When a traveling car is fully loaded, it will bypass floors where hall calls are registered. Those hall calls will be assigned to another available elevator. *For Group Control Operation, Load Bypass is originally furnished		▪*
	Overload Warning	When a car becomes overloaded, the warning alarm will sound. The elevator doors will not close until the overloaded state is resolved.	●	
	Reverse-Direction Car-Call Cancellation	In the event that a passenger tries to register a car call that is behind the car's current travelling direction, the elevator system will regard it as a nuisance call and ignore it in order to maintain the elevator service efficiency.	●	
	Wrong Car-Call Register Cancellation	In case a passenger presses the wrong car call button, this mistake can be cancelled by pushing the same button twice.	●	

The above functions may change without prior notice.

Specification Details

Functions and Specific-Purpose Operations, etc.		Details	●: Standard	□: Optional
Passenger-Comfort Functions	Arrival Chime(In Car)	When a car arrives at a destination floor, an arrival chime will sound softly.		□
	Attendant Operation	By using attendant-operation buttons inside a car operating board's cabinet, authorized personnel can register car calls for in-car passengers. In addition to monitoring incoming hall calls, the attendant decides the car travel direction and operates the car doors with priority service for in-car passengers.		□
	Automatic Voice Announcement System (VONIC) in English	A computerized voice system provides passengers with timely information about car directions, car arrivals, door opening and closing, and emergencies, etc. At the customer's request, announcements in other languages can be added.		□
	Plasmacluster™ Ion Generating Device (IONFUL)	The first elevator company that installed a Plasmacluster Ion generating device in an elevator is Fujitec. The device built in an elevator's ventilation unit disinfects airborne mold, bacteria, viruses, allergens, and odor molecules as well as creating clean air in the elevator. This increases the comfort of passengers. *: Plasmacluster is a trademark of Sharp Corporation.		□
	Visual Display on Car Operating Board	Informing on an elevator's current condition, a visual display on the car operating board will provide passengers with timely text messages such as "OVERLOADED", "EMER. OPERATION, PLEASE EXIT FROM THE CAR." etc,	●	
	Visual Display on Landing Fixture	Informing on an elevator's current condition, a visual display on the landing fixture will provide waiting passengers with timely text messages such as "FULL, OUT OF SERVICE, etc.		□
Energy-Saving Functions	Automatic Light Control	If an elevator receives no car- and hall- calls within a certain period of time, its lights will turn off automatically.	●	
	Automatic Fan Control	If an elevator receives no car- and hall- calls within a certain period of time, its ventilation fan will turn off automatically.	●	
	Elevator Operation Period Control	The elevator operation period in a day is automatically controlled by a timer mounted on the control panel's computer board.		□
	Parking Operation	When an elevator is shifted to Parking Operation mode, the elevator will move to the pre-assigned floor and park with its doors closed, and car lights and fan turned off.		□
	Electric Power Regenerative Unit	The adoption of electric power regenerative unit instead of conventional heat dissipation resistor allows the traction machine-produced electricity to be fed back to the building's electrical facilities.		□

The above functions may change without prior notice.

Functions and Specific-Purpose Operations, etc.		Details	●: Standard / ■: Optional	
Specific-Purpose Operations	Battery-Powered Automatic Landing Operation (LANDIC)	In the event of a power failure, a compact battery power source will move the car to the nearest available floor.	●	
	Door Opening Failure Rescue Operation	When an elevator fails to open the doors at a landing floor, it will move to the next available floor and open them.	●	
	Earthquake Rescue Operation (WAVIC)	When a seismic sensor has detected a seismic wave (the secondary seismic wave), the elevator(s) will be shifted to rescue operation mode and automatically move to the nearest available floor for passenger evacuation.		■
	Fire Operation	In the event of a fire, the Fire Operation mode will automatically take an elevator directly to an evacuation floor and immobilize it there.		■
	Firefighter Operation	The Firefighter Operation mode allows firefighters to use an elevator during a fire. Under this mode, the elevator responds only to car call registrations made by firefighters.		■
	Independent Operation	When Independent Operation is turned on, a designated elevator can operate independently for exclusive use.		■
	Standby Power Operation	In the event of a power failure, the elevator(s) will return to an evacuation floor using standby power and will be held there on standby. Note: Standby power system shall be provided and installed by third parties.		■
Equipment for Building Security, etc.	Building-Management-System (BMS) Interface	Through a purpose-built interface, a building management system can receive up-to-date elevator operation data.		■
	CCTV-Camera Cables (between car and elevator control panel)	For a CCTV camera, video-signal cables between the hoistway and control panel are available.		■
	Elevator Operation Supervisory Panel	Through an elevator operation supervisory panel, the statuses of elevator operation can be monitored and the elevator operation controlled.		■
	Elevator Visual Monitoring System (ELVIC)	By monitoring the current statuses of running elevators and giving necessary commands to elevators through desk-top PCs in a specific remote location, ELVIC manages and controls elevator operation. (Desk-top PCs shall be provided by the customer.)		■

The above functions may change without prior notice.

Standard Dimensions

*** Capacity, Car Size based on IS 14665**

Capacity (kg)	Speed (m/min)	Opening Type	Car Inside width size (mm)	Car inside depth size (mm)	Opening size (mm)	Hoistway width (mm)	Hoistway depth (mm)	CWT LOC	Pit depth (mm)	Overhead* (mm)	Machine Room reaction (kN)		Pit reaction (kN)	
											R1	R2	R3	R4
408	60	2S	1000	1100	800	1600	1750	REAR	1500	4250	55	30	80	70
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
408	60	2CO	1000	1100	700	1750	1700	REAR	1500	4250				
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
544	60	2S	1100	1300	800	1650	1950	REAR	1500	4250	65	30	90	80
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
544	60	2CO	1200	1200	800	1900	1800	REAR	1500	4250				
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
544	60	2S	1200	1200	800	1750	1850	REAR	1500	4250				
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
544	60	2CO	1300		800	1900	1700	REAR	1500	4250				
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
544	60	2S	1300	1100	800	1750	1750	REAR	1500	4250				
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
680	60	2S	1100	1600	800	1700	2250	REAR	1500	4250	65	40	100	90
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
680	60	2CO	1200	1400	800	1900	2000	REAR	1500	4250				
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
680	60	2S	1200	1400	800	1750	2050	REAR	1500	4250				
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
680	60	2CO	1300	1350	800	1900	1950	REAR	1500	4250				
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
680	60	2S	1300	1350	800	1750	2000	REAR	1500	4250				
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
680	60	2CO	1400	1200	800	1850	1800	REAR	1500	4250				
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
748	60	2CO	1400	1350	800	1850	1950	REAR	1500	4250	65	40	105	90
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
884	60	2S	1100	2000	900	1850	2450	SIDE	1500	4250	85	55	135	115
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
884	60	2CO	1100	2000	800	1950	2400	SIDE	1500	4250	85	55	135	115
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				

Capacity (kg)	Speed (m/min)	Opening Type	Car Inside width size (mm)	Car inside depth size (mm)	Opening size (mm)	Hoistway width (mm)	Hoistway depth (mm)	CWT LOC	Pit depth (mm)	Overhead* (mm)	Machine Room reaction (kN)		Pit reaction (kN)	
											R1	R2	R3	R4
884	60	2CO	1600	1350	900	2100	1950	REAR	1500	4250	85	55	135	115
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
884	60	2CO	2000	1100	1100	2500	1700	REAR	1500	4250	85	55	135	115
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
1020	60	2S	1100	2200	900	1850	2650	SIDE	1500	4250	95	60	145	125
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2300	2650		4200	5800	140	100	225	205
	240								4450	6200				
1020	60	2CO	1100	2200	800	1950	2600	SIDE	1500	4250	95	60	145	125
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2350	2600		4200	5800	140	100	225	205
	240								4450	6200				
1020	60	2S	1200	2000	900	1950	2450	SIDE	1500	4250	95	60	145	125
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2400	2500		4200	5800	140	100	225	205
	240								4450	6200				
1020	60	2CO	1200	2000	900	2100	2400	SIDE	1500	4250	95	60	145	125
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2500	2450		4200	5800	140	100	225	205
	240								4450	6200				
1020	60	2CO	1600	1500	900	2100	2100	REAR	1500	4250	95	60	145	125
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2100	2300		3750	5600	140	100	225	205
	240								4100	5950				
1156	60	2S	1200	2200	900	1950	2650	SIDE	1500	4250	105	60	160	140
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2400	2650		4200	5700	145	115	250	225
	240								4450	6550				
1156	60	2CO	1200	2200	900	2100	2600	SIDE	1500	4250	105	60	160	140
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2500	2550		4200	5700	145	115	250	225
	240								4450	6550				

Standard Dimensions

Capacity (kg)	Speed (m/min)	Opening Type	Car Inside width size (mm)	Car inside depth size (mm)	Opening size (mm)	Hoistway width (mm)	Hoistway depth (mm)	CWT LOC	Pit depth (mm)	Overhead* (mm)	Machine Room reaction (kN)		Pit reaction (kN)	
											R1	R2	R3	R4
1156	60	2CO	1500	1800	1100	2450	2250	SIDE	1500	4250	105	60	160	140
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2500	2650	REAR	3750	5800	145	115	250	225
	240								4200	6200				
1156	60	2CO	1600	1650	1100	2450	2250	REAR	1500	4250	105	60	160	140
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2500	2500		3750	5800	145	115	250	225
	240								4200	6200				
1156	60	2CO	2000	1350	1100	2500	1950	REAR	1500	4250	105	60	160	140
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2500	2200		3750	5800	145	115	250	225
	240								4200	6200				
1360	60	2S	1300	2400	1100	2050	2850	SIDE	1500	4250	110	65	180	155
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2500	2850		4200	5800	165	120	275	250
	240								4850	6250				
1360	60	2CO	1300	2400	1100	2450	2800	SIDE	1500	4250	110	65	180	155
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2750	2800		4200	5800	165	120	275	250
	240								4850	6250				
1360	60	2S	1400	2200	1200	2200	2650	SIDE	1500	4250	110	65	180	155
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2600	2650		4200	5800	165	120	275	250
	240								4850	6250				
1360	60	2CO	1400	2200	1100	2450	2600	SIDE	1500	4250	110	65	180	155
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2800	2600		4200	5800	165	120	275	250
	240								4850	6250				
1360	60	2CO	1750	1750	1100	2450	2350	REAR	1500	4250	110	65	180	155
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2500	2600		3750	5800	165	120	275	250
	240								4200	6200				
1360	60	2CO	1900	1600	1100	2450	2200	REAR	1500	4250	110	65	180	155
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2500	2450		3750	5800	165	120	275	250
	240								4200	6200				
1360	60	2CO	2000	1550	1100	2500	2150	REAR	1500	4250	110	65	180	155
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2550	2400		3750	5800	165	120	275	250
	240								4200	6200				

Capacity (kg)	Speed (m/min)	Opening Type	Car Inside width size (mm)	Car inside depth size (mm)	Opening size (mm)	Hoistway width (mm)	Hoistway depth (mm)	CWT LOC	Pit depth (mm)	Overhead* (mm)	Machine Room reaction (kN)		Pit reaction (kN)	
											R1	R2	R3	R4
1632	60	2S	1500	2400	1200	2250	2850	SIDE	1500	4250	135	75	200	170
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2700	2850		4300	5850	170	130	280	250
	240								4900	6250				
1632	60	2CO	1500	2400	1100	2450	2800	SIDE	1500	4250	135	75	200	170
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2850	2750		4300	5850	170	130	280	250
	240								4900	6250				
1632	60	2CO	2000	1800	1100	2500	2450	REAR	1500	4250	135	75	200	170
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2550	2600		3800	5850	180	130	280	250
	240								4300	6250				
1632	60	2CO	2000	1800	1200	2650	2450	REAR	1500	4250	135	75	200	170
	90								1500	4400				
	105								1550	4450				
	120								1650	4550				
	150								2200	4850				
	180								2450	5150				
	210					2700	2600		3800	5850	180	130	280	250
	240								4300	6250				
2000	60	2CO	2200	1900	1200	2700	2550	REAR	1500	4350	150	80	220	185
	90								1600	4500				
	105								1650	4550				
	120								2050	4650				
	150								2200	5000				
	180								2500	5250				
	210					2750	2700		3850	5900	195	115	305	265
	240								4400	6250				
2000	60	2SL	1550	2700	1200	2300	3150	SIDE	1500	4350	150	80	220	185
	90								1600	4500				
	105								1650	4550				
	120								2050	4650				
	150								2200	500				
	180								2500	5250				
	210					2750			4650	5900	115	115	305	265
	240								4900	6250				

Note :

1) All dimensions are based on speci cation Opening ht. : 2100mm ; Top ceiling ht. : 2350mm ; Counter weight Safety : Without

2) Data shown above may vary based on job speci cation arrangement

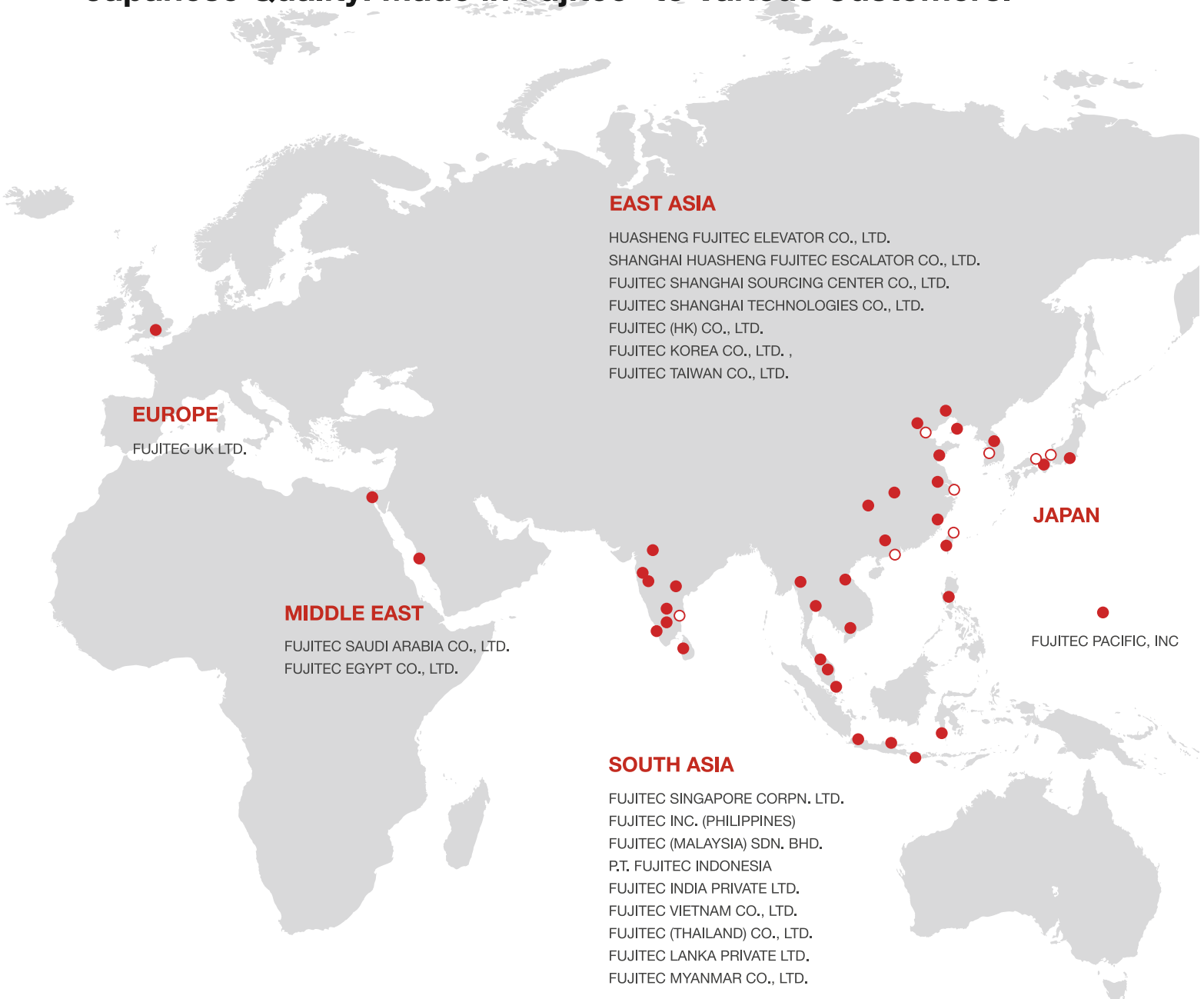
3) Tolerance for Pit depth & Overhead is +50 / -0 mm

4) Acceptable inclination of hoistway's Vertical Centerline :

Total ht. (m)	Allowance (mm)
30m	+ 25 / - 0
60m	+ 35 / - 0
100m	+ 50 / - 0

Global Operations

Fujitec's Global Operations in 24 countries and Regions Delivers "Japanese Quality: Made in Fujitec" to Various Customers.



EAST ASIA

HUASHENG FUJITEC ELEVATOR CO., LTD.
SHANGHAI HUASHENG FUJITEC ESCALATOR CO., LTD.
FUJITEC SHANGHAI SOURCING CENTER CO., LTD.
FUJITEC SHANGHAI TECHNOLOGIES CO., LTD.
FUJITEC (HK) CO., LTD.
FUJITEC KOREA CO., LTD. ,
FUJITEC TAIWAN CO., LTD.

EUROPE

FUJITEC UK LTD.

JAPAN

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FUJITEC SAUDI ARABIA CO., LTD.
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FUJITEC PACIFIC, INC

SOUTH ASIA

FUJITEC SINGAPORE CORPN. LTD.
FUJITEC INC. (PHILIPPINES)
FUJITEC (MALAYSIA) SDN. BHD.
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FUJITEC AMERICA, INC.

Big Wing (Japan)

Big Step (Japan)

FUJITEC INDIA PRIVATE LTD.

In the 1960's, Fujitec became one of the first Japanese companies in the industry and sought for global development of its business. Since then, we have helped build cities all over the world and continue to develop our business aggressively on a global basis. Fujitec and its customers benefit from close relationships and cooperation among all of the members of Fujitec Global Companies.

● ··· Sales Office
○ ··· Production Base

NORTH AMERICA

FUJITEC AMERICA, INC.
FUJITEC CANADA, INC.

SOUTH AMERICA

FUJITEC ARGENTINA S.A.
FUJITEC VENEZUELA C.A.
FUJITEC URUGUAY S.A.

Delivering Japanese Quality Worldwide

Based on our global mission statement, "Respecting people, technologies and products, we collaborate with people from nations around the world to create beautiful and functional cities that meet the needs of a new age,"Fujitec provides reliable products and services all over the world.

Integrated Global Quality Management

By developing technologies as a specialized manufacturer over the years, every Fujitec base has established an integrated quality management system for each stage of manufacturing, installation and maintenance. This supports Fujitec's constant pursuit of safety, reliability and comfort.

HUASHENG FUJITEC ELEVATOR CO., LTD.

SHANGHAI HUASHENG FUJITEC ESCALATOR CO., LTD.

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