



TOSHIBA

TOSHIBA MACHINE-ROOM-LESS ELEVATORS
STANDARD PASSENGER ELEVATOR

SPACE-III

For Indian standard

3rd Edition

For Indian standard

Safety Cautions

- Observance of relevant laws / regulations are required.
- Read the entire "Instruction Manual" carefully before use, for important information about safety, handling and operation.

TOSHIBA

Toshiba Elevator and Building Systems Corporation

72-34, Horikawa-cho, Saiwai-ku, Kawasaki
212-8585, Japan

Please enter the contents from the "Inquiry Input Form" in website.
<https://www.toshiba-elevator.co.jp/elv/infoeng/>

• The data given in this catalog are subject to change without notice.

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THE SOLUTIONS

COMPANY SOLUTIONS

Toshiba Elevator and Building Systems Corporation has built a framework which encompasses all aspects from system development to production, sales to marketing, installation, adjustment, maintenance and services in order to provide clients with the highest quality products and services.

Utilizing the comprehensive technological infrastructure developed by Toshiba Group in more than 140 years since its foundation, we aim to enhance the leading edge technology and quality that we used to develop the ultra high speed elevator, harnessing Toshiba's technological innovations to their fullest extent. To meet clients' expectations and requirements for safe and pleasant elevators as well as constantly pursuing further innovation and improvement. Furthermore, we are aiming to strengthen system development, production, enhancing sales channel and sales partnership to expand in the global market.

CONCEPT of SPACEL-III

Toshiba manufactures elevators by applying the latest technology and improved elevator development skills. SPACEL-III, the most recent high-end machine room less elevator, which incorporates various technologies to save energy and time, contributes to global environment.

Product Line-up

Expanded the applicable speed of the SPACEL-III.
We can comply with various needs such as building use, layout design, etc.

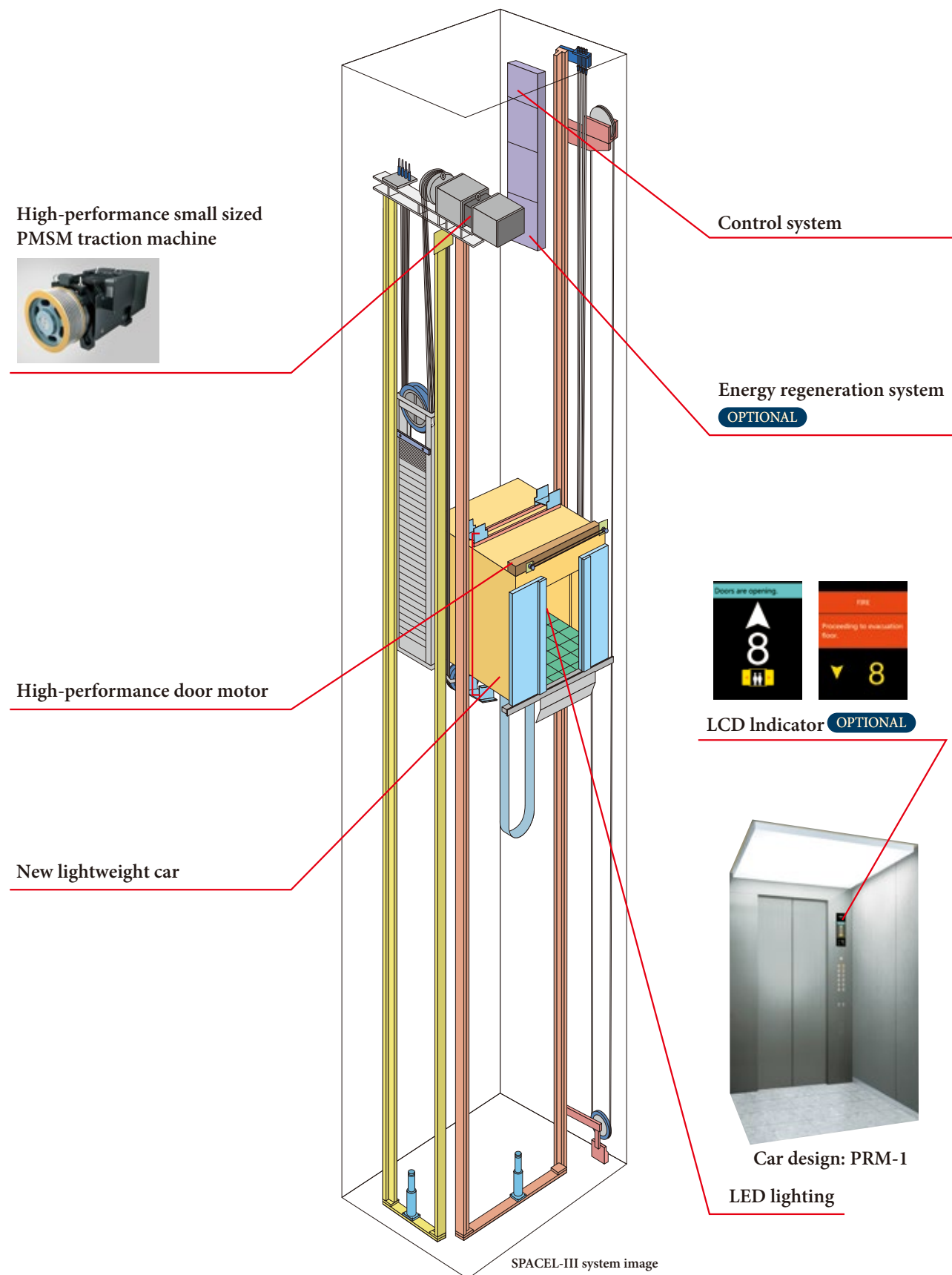
Scope of specification	Range of application	SPACEL-III													
Passenger	9 ~ 29 persons	2.5													
Rated load	612 ~ 1972 kg	2.0													
Rated speed	1.0 ~ 2.5 m/s ^{Note1}	1.75													
		1.5/1.6													
		1.0													
Rated load (kg)		476	544	612	748	952	1156	1224	1292	1496	1564	1700	1972		
Type		P7	P8	P9	P11	P14	P17	P18	P19	P22	P23	P25	P29		

Note1: Applicable range Rated load 1564 or less for rated speed 2.5 m/s.
Note2: The above scope complies with IS14665 standard.

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TECHNOLOGY



The actual product colors may vary slightly from those printed colors in this catalog.

New Technology

High-performance Small Sized PMSM Traction Machine

- ◆ Compact PMSM (Permanent Magnet Synchronous Motor) for space saving.
- ◆ Over 30% less power consumption (compared to conventional electric motor).
- ◆ Gearless traction without gear oil for low vibration, low noise and better environmental conservation.

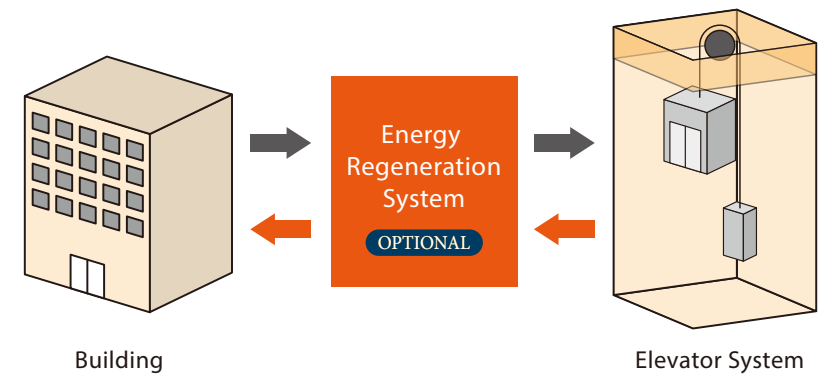


High Performance Control Systems

A high performance CPU is adopted for control systems. This control system enables to reduce standby electricity, automatic shutoff system for lightings and ventilation to contribute furthermore reduction of electricity.

Energy Regeneration System OPTIONAL

An energy regeneration device feeds energy back to the power grid while the traction machine is under power generation to achieve high-efficiency energy utilization, which results in over 38% energy conservation (with the assumption of 952kg, 1.75m/s, 12-hour operation per day, 25 days per month).



Use of Roller Guide OPTIONAL

- A roller guide is used instead of a conventional sliding guide shoe. Features include:
- ◆ Comfort: Using the successful vibration damping solution from the high-end elevator type, riding comfort is further improved after roller guide is mounted on the car.
 - ◆ High efficiency: Visible improvement of the mechanical efficiency with lower friction and energy consumption.
 - ◆ Environmental conservation: Lubrication oil and lubrication unit are eliminated and replaced by a long-life rubber roller to reduce environmental pollution.



*This optional system may not be suitable for certain buildings. Please contact us for more information.

TECHNOLOGY



Safety Function

Unintended Car Movement Protection

A traction drive elevator shall include means to prevent uncontrolled movement of the elevator away from the landing with neither the landing nor the car doors in the locked position. The Elevator shall detect uncontrolled movement of the car away from the landing and stop no more than 1200mm after as measured from the landing floor sill. Before operation, the uncontrolled car movement protection system means for an ascending elevator, the clearance between the landing door floor sill and the apron of the stopped elevator shall not exceed 200mm. In additional, uncontrolled movement protection means the horizontal distance between the sill or entrance frame of the stopped elevator and the wall of the well, from the landing floor sill to 1200mm downward for a descending elevator.

Car Door Lock **OPTIONAL**

Every car door shall be mechanically locked by at least 7mm such that it can only be opened in the unlocking zone of a landing. The lift operation shall automechanically depend on the locking of the car door. This locking shall be proved by an electrical safety device to confirm the horizontal distance between the well wall and the sill or entrance frame of the car is within 150mm.

Ascending Car Overspeed Protection

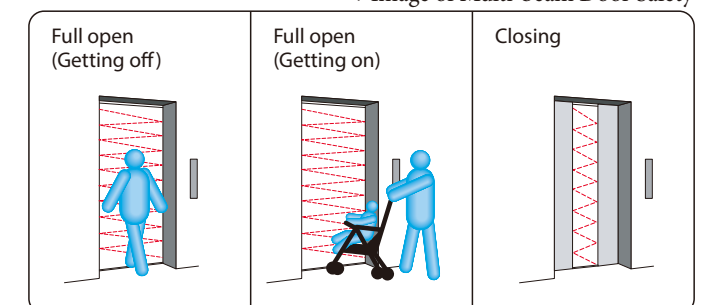
A device to prevent an elevator ascending to the elevator shaft top beyond the rated speed due to a device like an electromagnetic brake or control unit. It monitors the speed of the upper direction mechanically by a governor, then cut off the power supply and safety circuit by an overspeed detecting switch when the speed exceeds the rated speed more than 1.3 times. The elevator shall be stopped by triggering the double brake when overspeed occurred.

Multi-beam Door Safety

OPTIONAL

The photoelectric cell detects passengers in the doorway and reopens closing doors.

* Image of Multi-beam Door Safety

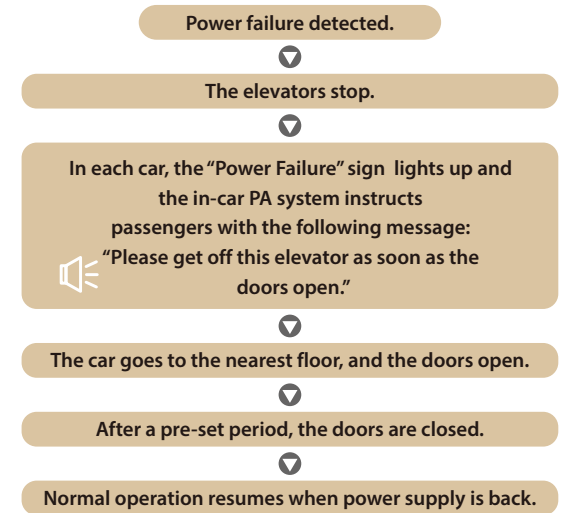


TECHNOLOGY

Safety Function

Automatic Landing in Power Failure

In case of a power failure, backup lamps are automatically lighted up in the cars, while the system's operation is switched to the elevator system's own battery powered inverter. Cars stranded between floors are taken to the nearest floor; otherwise, doors are opened and passengers are let out. The doors automatically open in case the car stops at any point that is not between floors but where the doors can be opened. (Note: Overridden by any similar backup or safety systems installed in compliance with safety codes.)

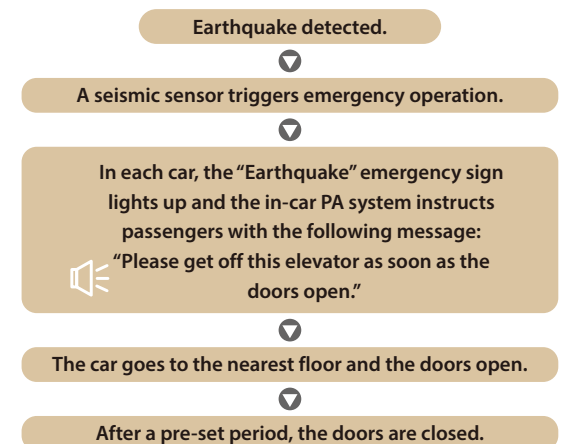


※Above flowchart is representable example

Earthquake Emergency Operation

OPTIONAL

When the system's seismic sensor installed in the elevator shaft detects an S-wave (the secondary seismic wave and the main shock of an earthquake) that exceeds the pre-set threshold, the system takes control with emergency procedures. "Earthquake" emergency signs lighted up in all cars, all cars are taken immediately to the nearest floor, doors are opened and passengers are instructed to alight.

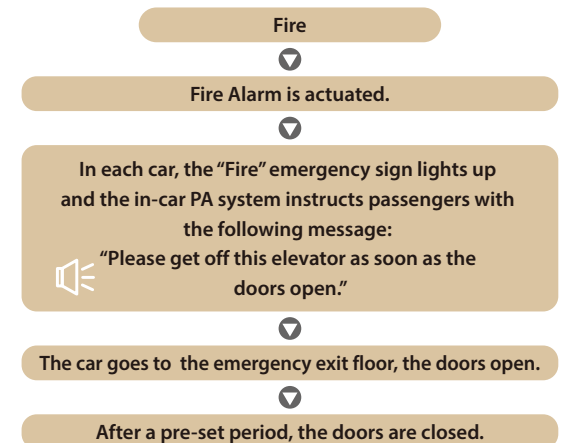


※Above flowchart is representable example

Fire Emergency Operation

OPTIONAL

This emergency operation is automatically triggered in case of a fire, when a fire alarm button is actuated, or when a Fire/Smoke Detector detects an abnormality. All hall calls and floor selections are cancelled, passengers are informed of the emergency procedure with a "Fire" sign and a voice announcement and all cars are sent directly to the emergency exit floor. Doors open at the emergency floor and passengers are guided to safety.



※Above flowchart is representable example

TECHNOLOGY

Energy Saving & Environment

Toshiba Group and the SDGs

The main plank of the "Toshiba Group Basic Commitment" is "Committed to people, Committed to the Future.". This expresses Toshiba Elevator and Building Systems is unwavering determination to contribute to the development of society through its business, and is consistent with the direction of the SDGs, which aim to realize a sustainable society. Acting in good faith in our daily activities, and with a passion to make the world a better place, looking to the future beyond the next generation, and to create that future with our stakeholders-inspired by these ideas, Toshiba Elevator and Building Systems has and will continue to bring together the creativity and technological capabilities it has cultivated to confront social issues that are becoming more complicated and serious, and to turn on the promise of a new day.

Note: Toshiba Elevator and Building Systems is working on business activities by extracting 11 items that can be promoted from all 17 types of SDGs goals.

SUSTAINABLE DEVELOPMENT GOALS



Products and functions adopted to reduce power consumption

Suppress power consumption by reducing standby power, commercialization of the regenerative power function, adoption of LED lighting.

LED Lightings

Under equal brightness, an LED lighting system only consumes 10% of electrical with comparison of an incandescent lamp and 50% of an fluorescent lamp. (part of the ceiling)



PRM-1

TECHNOLOGY



Energy Saving & Environment

Providing environmentally conscious products

Toshiba elevator group is promoting the development of environmentally conscious products, which involves environmentally conscious product design, assessing the environmental impact of products and disclosing the environmental performance of products. Products are developed in compliance with the updated voluntary environmental performance standards.

Product assessment and voluntary environmental standards for products

In developing products, we assess them across their life cycles from manufacturing, logistics and use to disposal and recycling to conduct product development and reduce the environmental impacts on the global environment.

Whereas product assessment is used to confirm the minimum necessary environmentally conscious requirements for product development, Voluntary Environmental Standards for Products have been established in the Toshiba elevator group to create highly environmentally friendly products and products complying with the same are released as environmentally conscious products.

Reducing hazardous materials

[Reduction of lead use]

By changing the method of tying rope, the use of lead can be eliminated or reduced.

[Employing LED lightings]

By employing LED light, various materials used for light became mercury free.

Lead-free Design of Base Plate, RoHS Compliance and Elimination of Specific Chemical Substances (15 Classifications)

Continuous concern over RoHS compliance, eliminating 15 classifications of specific chemical substances and using the lead-free technique for main circuit boards.



Expansion of variations in car ceiling design

Suitable for harmonization of a wide variety for building applications and concepts.
 Expanding the lineup of ceiling designs utilizing LED lighting
 All ceiling lighting uses LED lighting to take environmental measures such as long life and energy saving.

STANDARD



SL-P1 LED
【Note1】



SL-1 LED

LED : LED light

【Note1】 Applies to models with a capacity of 1600kg or less.

【Note2】 Applies to models with a capacity of 1050kg or less.

OPTIONAL



DLX-31 LED



DLX-28 LED
【Note2】



DLX-27 LED
【Note2】



DLX-25 LED
【Note2】



DLX-24 LED



DLX-23 LED



DLX-22 LED



DLX-21 LED



PRM-1 LED



PRM-2 LED
【Note1】



TL-1 LED



TL-S2 LED
【Note2】



TL-S1 LED
【Note2】



DLC-1 LED
【Note2】



SL-3X LED
【Note2】



SL-V1 LED
【Note2】

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Car Design

OFFICE

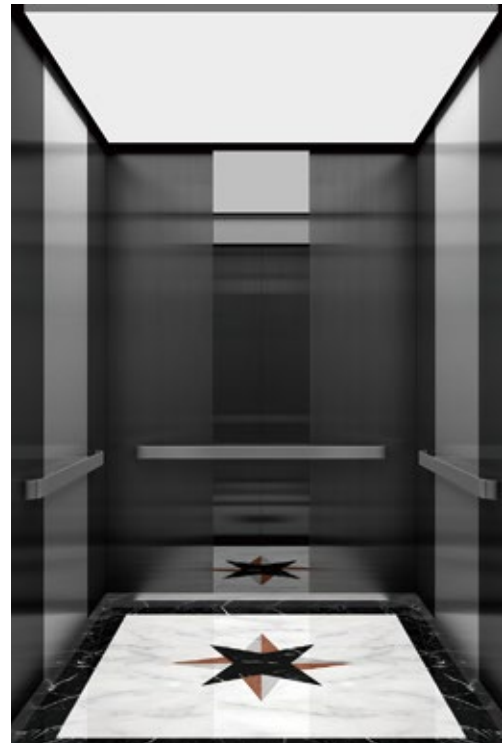
OPTIONAL

PRM-1

Front side view



Back side view



Ceiling design	PRM-1
Car side panel (Return panel)	Vibration finish stainless steel
Car side panel (Side panel)	Black color hairline finish stainless steel and Vibration finish stainless steel
Car side panel (Rear panel)	Black color hairline finish stainless steel and Mirror finish stainless steel
Kick plate	Hairline finish stainless steel
Car door	Black color hairline finish stainless steel
Car floor	Marble tile (JQ-1013)
COP	POP-G1L-104C
Indicator	10.4inch Color LCD
Handrail	Stainless steel flat type hand rail
Remark	Applies to models with a capacity of 1150kg or more.

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Design variations

The publication of this page is an example of design. Please refer to the "DESIGN SELECTION" catalog for each the condition and other designs.

OPTIONAL

PRM-2



OPTIONAL

DLX-31



OPTIONAL

DLX-27



OPTIONAL

SL-3X



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Car Design

RESIDENCE

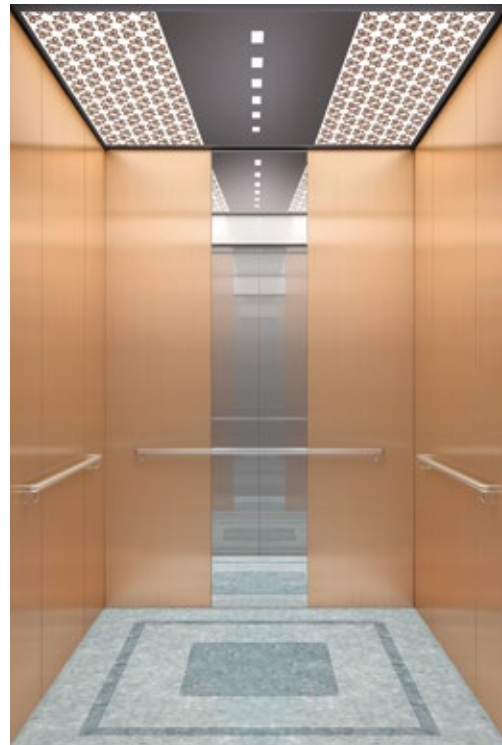
OPTIONAL

DLX-24

Front side view



Back side view



Ceiling design	DLX-24 with pattern C
Car side panel (Return panel)	Vibration finish stainless steel
Car side panel (Side panel)	Rose gold color hairline finish stainless steel
Car side panel (Rear panel)	Rose gold color hairline finish stainless steel and Mirror finish stainless steel
Kick plate	Nil
Car door	Mirror finish stainless steel
Car floor	Vinyl tile (TSF-1C)
COP	COP-G1L-57B
Indicator	5.7 inch Color LCD
Handrail	Stainless steel round type hand rail

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Design variations

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OPTIONAL
DLX-23



OPTIONAL
TL-1



OPTIONAL
DLX-21



OPTIONAL
TL-S2



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Car Design

HOTEL

OPTIONAL

DLX-31

Front side view



Back side view



Ceiling design	DLX-31
Car side panel (Return panel)	Black color hairline finish stainless steel
Car side panel (Side panel)	Black color hairline finish stainless steel and Mirror etching finish stainless steel
Car side panel (Rear panel)	Black color hairline finish stainless steel and Mirror etching finish stainless steel
Kick plate	Nil
Car door	Mirror etching finish stainless steel
Car floor	Marble (JQ-1012)
COP	POP-G1L-57B
Indicator	5.7 inch Color LCD
Handrail	Nil

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Design variations

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OPTIONAL
DLX-24



OPTIONAL
DLX-25



OPTIONAL
PRM-2



STANDARD
SL-1



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Car Design



OPTIONAL

DLX-22

Front side view



Back side view



Ceiling design	DLX-22
Car side panel (Return panel)	Vibration finish stainless steel
Car side panel (Side panel)	Vibration finish stainless steel and Mirror finish stainless steel
Car side panel (Rear panel)	Vibration finish stainless steel and Mirror finish stainless steel
Kick plate	Nil
Car door	Mirror finish stainless steel
Car floor	Marble (JQ-1013)
COP	POP-G1L-57B
Indicator	5.7 inch Color LCD
Handrail	Nil

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Design variations

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OPTIONAL

DLX-21



OPTIONAL

DLX-28



OPTIONAL

DLX-23



OPTIONAL

DLC-1



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Hall Design

Hall Decoration Item Variation

The combination of elevator hall equipment and specifications extends design. It can be easily harmonized with the entrance design of the building.



Hall design 1 OPTIONAL

- Hall jamb** Wide type jamb with transom
Hairline finish stainless steel
- Hall door** Hairline finish stainless steel
- Hall transom** Hairline finish stainless steel
- Hall sill** Hardened aluminium
- Hall indicator** Nil
- Hall button** HB-G1K
- Hall lantern** HL-G1-O



Note : In the case of jamb with transom, fire-proof specification cannot be applied to the transom.

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Hall Design

Hall design 2 OPTIONAL

- Hall jamb** Wide type jamb
Painted steel panel (1NS)
- Hall door** Painted steel panel (1NS)
- Hall transam** Nil
- Hall sill** Hardened aluminium
- Hall indicator** HI-G34-O
- Hall button** HB-G1K
- Hall lantern** Nil



HI-G34-O



HB-G1K



Hall design 3 OPTIONAL

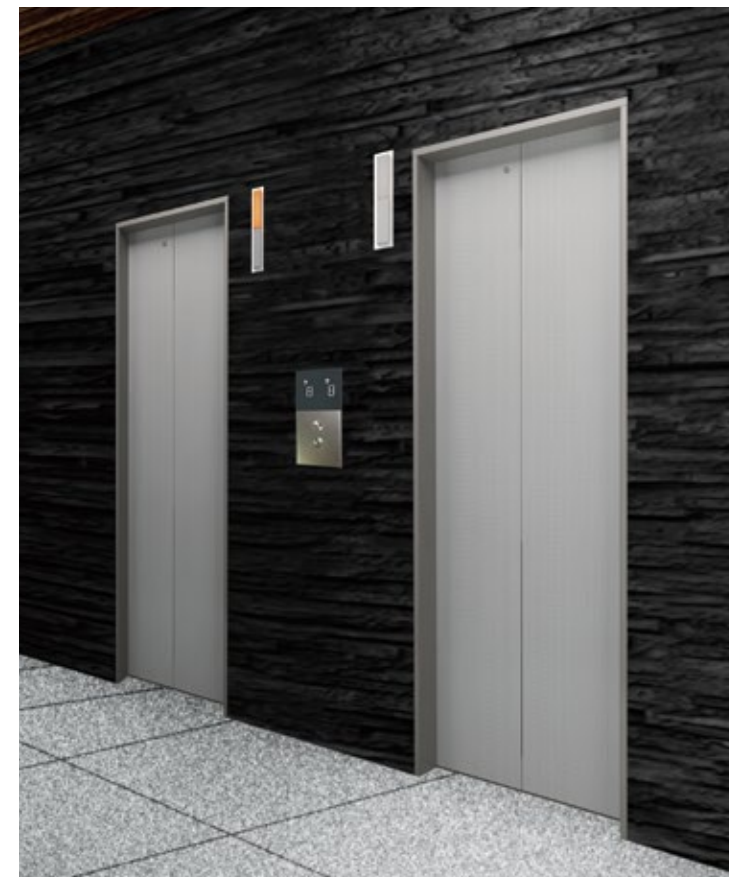
- Hall jamb** Wide type jamb
Painted steel panel (3NS)
- Hall door** Painted steel panel (3NS)
- Hall transam** Nil
- Hall sill** Hardened aluminium
- Hall indicator** Nil
- Hall button** HIB-G1NL
- Hall lantern** HL-G1-O



HIB-G1NL



HL-G1-O



Hall Design

Hall design 4 OPTIONAL

Hall jamb	Wide type jamb Hairline finish stainless steel
Hall door	Painted steel panel (62YS)
Hall transam	Nil
Hall sill	Hardened aluminium
Hall indicator / Hall button	HIB-G1L-43B
Hall lantern	Nil



HIB-G1L-43B



Hall design 5 OPTIONAL

Hall jamb	Wide type jamb Painted steel panel (114PBS)
Hall door	Painted steel panel (114PBS)
Hall transam	Nil
Hall sill	Hardened aluminium
Hall indicator	HI-G1-O
Hall button	HB-G1K
Hall lantern	Nil



HI-G1-O



HB-G1K



Hall Design

Hall design 6 STANDARD

- Hall jamb** Narrow type jamb
Painted steel panel (77GS)
- Hall door** Painted steel panel (77GS)
- Hall transam** Nil
- Hall sill** Hardened aluminium
- Hall indicator /
Hall button** HIB-G1N
- Hall lantern** Nil



HIB-G1N



Hall design 7 OPTIONAL

- Hall jamb** Wide type jamb
Hairline finish stainless steel
- Hall door** Hairline finish stainless steel
- Hall transam** Nil
- Hall sill** Hardened aluminium
- Hall indicator** HI-G1L-57B
- Hall button** HB-G1K
- Hall lantern** Nil



HI-G1L-57B



HB-G1K



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OPERATION SYSTEMS



Operation Systems

Car Operation Panel: POP type

※Note: Applicable to Wide Car type models

Car Operation Panel



POP-G1L-104C
OPTIONAL

Indicator



10.4 inch Color LCD

Button



KB-3 (Orange light)

PRM-1



Car Operation Panel



POP-G1L-84C
OPTIONAL



POP-G1L-57B
OPTIONAL



POP-G1L-70S
OPTIONAL



POP-G1L
OPTIONAL

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Operation Systems

Car Operation Panel: POP type

※Note: Applicable to Wide Car type models

Car Operation Panel



DLX-31



POP-GINS
OPTIONAL

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Car Operation Panel



SL-P1



POP-G1NL
STANDARD

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Operation Systems

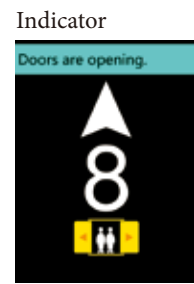
Car Operation Panel: FCOP type

※Note: Applicable to Deep Car type models

Car Operation Panel



FCOP-G1L-84C
(8.4 inch LCD)
OPTIONAL



8.4 inch Color LCD



KB-7 (Orange light)

DLX-21



The actual product colors may vary slightly from those printed colors in this catalog.

Car Operation Panel



FCOP-G1L-104C
OPTIONAL



FCOP-G1L-57B
OPTIONAL



FCOP-G1L-70S
OPTIONAL



FCOP-G1L
OPTIONAL

The actual product colors may vary slightly from those printed colors in this catalog.

Operation Systems

Car Operation Panel: FCOP type

※Note: Applicable to Deep Car type models

Car Operation Panel



TL-S2



FCOP-G1NS
OPTIONAL

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Car Operation Panel



DLX-23



FCOP-G1NL
STANDARD

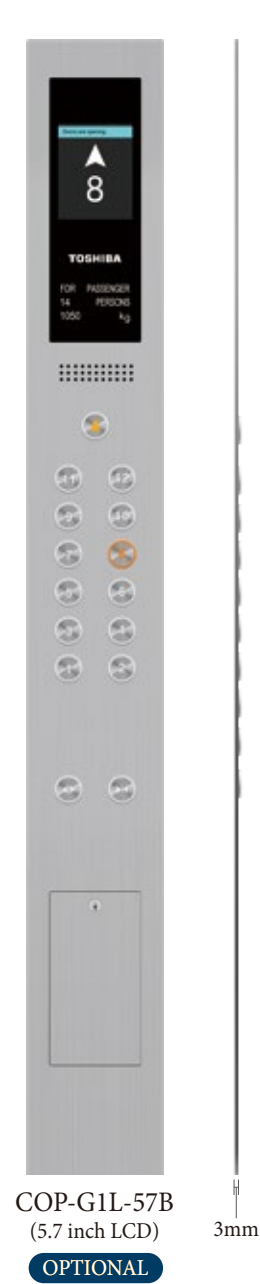
The actual product colors may vary slightly from those printed colors in this catalog.

Operation Systems

Car Operation Panel: COP type

※Note: Applicable to all models

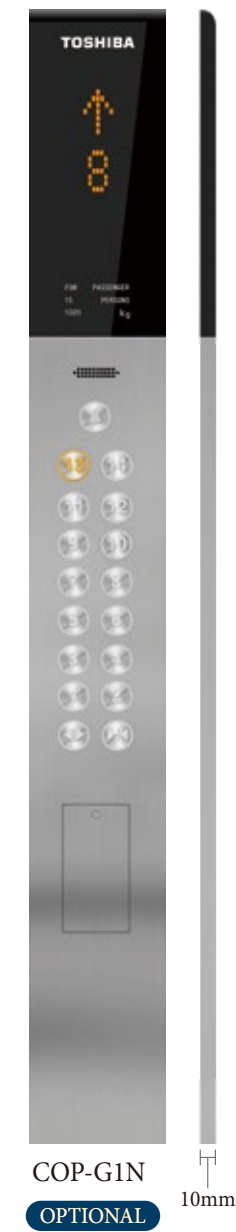
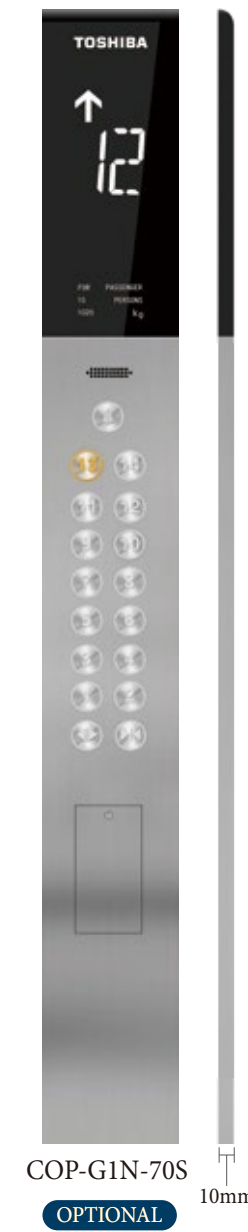
Car Operation Panel



SL-1



Car Operation Panel



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Operation Systems

Hall Indicator Button: HIB type

Hall Indicator Button



Hall Indicator Display

4.3inch Color LCD



LCD Segment



LED Segment



LED Dot Matrix

※Note: A white color or orange color can also be selected for the LED light.

Orange light



White light

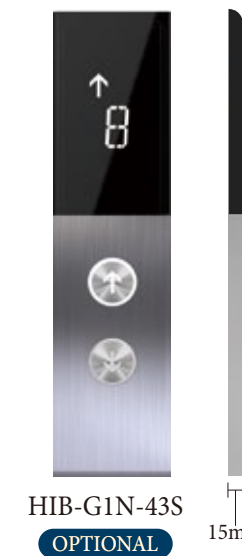


Detail of display



Hall Indicator Button

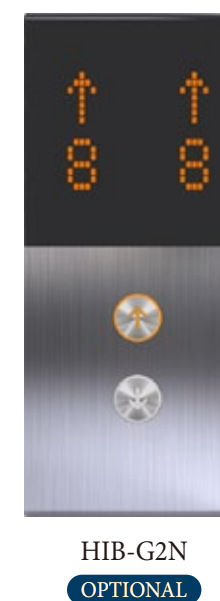
LCD Segment



LED Segment



LED Dot Matrix



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Operation Systems

Hall Indicator

Hall Indicator **OPTIONAL**



HI-G1-O



HI-G34-O



LED Dot matrix

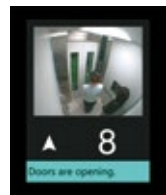
LCD Hall Indicator **OPTIONAL**

5.7 inch Color LCD

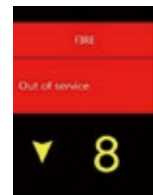


HI-G1L-57B

With monitoring



Controlled status



Hall Lantern

Hall Lantern **OPTIONAL**

*Note: A white light or orange light can also be selected for the lantern light.



HL-G1-O
(Orange light)



HL-G2-W
(White light)



HL-G3-O
(Orange light)



HL-G4-O
(Orange light)

Hall Button **OPTIONAL**



HB-G1
with parking SW

15mm



HB-G1K

3mm

Operation Systems

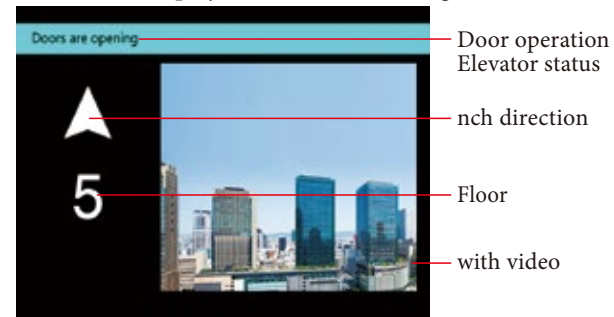
Car Position Indicator

Large LCD Indicator for Car Operation Panel OPTIONAL

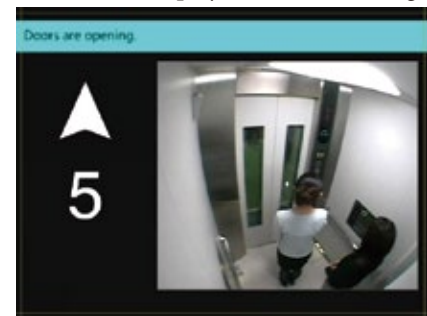
These 10.4 inch and 8.4 inch LCD indicators are capable of displaying in the elevator's various conditions (emergency operations, maintenance status) in large icons and letter in highly visible colors.

10.4 inch Color LCD

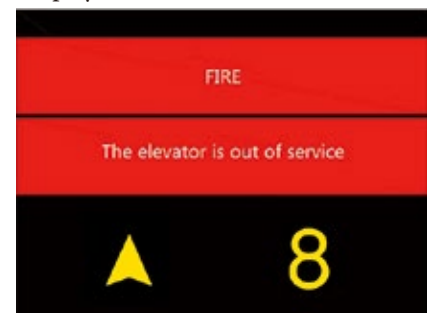
General car display (Without monitoring)



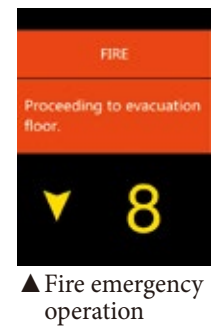
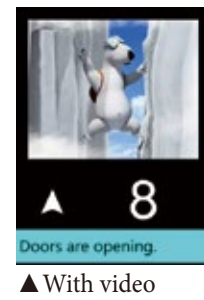
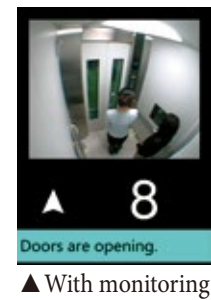
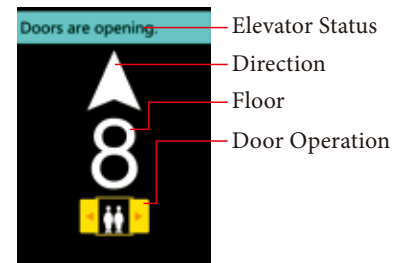
General car display (With monitoring)



Display under controlled status



8.4 inch Color LCD



5.7 inch Color LCD

General car display



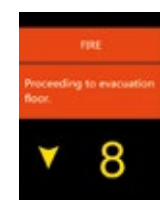
With monitoring



With video



Controlled status



LCD Segment



LED Segment



LED Dot matrix



The actual product colors may vary slightly from those printed colors in this catalog.

The actual product colors may vary slightly from those printed colors in this catalog.

Functions

○ : STANDARD △ : OPTIONAL

Functions	Notes	Descriptions	
Operations	Simplex selective-collective fully automatic operation	Fully automatic operation by hall and car calls for single car	○
	Duplex selective collective fully automatic operation (Note 1)	Fully automatic operation for 2 cars in the same group	△
	3 or 4-car group supervisory control system (Note 1)	Fully automatic operation for 3 or 4 cars in the same group	△
	Group supervisory control system	For supervisory operation of groups of more than 4 cars, please contact us	△
	FLOORNAVI	Destination Control System	△
	Independent operation	Lift car separated from group control operation and responde to car call only	△
	Attendant operation	Operation by attendant by switch & button provided at service cabinet in COP	△
Safety Functions	Automatic landing function when system fails	When system failure occurs, the lift will automatically land at the nearest floor and the door will open for passengers to exit	○
	Automatic withdrawn from group control	If an elevator under a group supervisory operation fails to run for some reason, the elevator is cut out of the group and the other elevators automatically back up the faulty one to continue the group supervisory operation.	○
	Car inspection operation [INS]	During car inspection operation, the lift car will run at slowly speed without responding to hall call	○
	Overload protection	The car overload buzzer will sound to prevent overloading and the doors will remain open	○
	Fireman's operation (Note 2)	In the event of fire, when the Fireman's switch is activated, the designated lift will be ready for firemen to use	△
	Fire emergency operation	In the event of fire, all lifts will return to the designated floor and stop operation to allow passengers to exit	△
	Emergency operation indication at COP	In the event of an emergency, the emergency operation status will be displayed at COP	○
	Power failure emergency operation	In the event of power failure, all lifts will return to the designated floor by emergency power supply from the building to allow passengers to exit	△
	Automatic landing during power failure [TOSLANDER]	In the event of power failure, the lift will land at the nearest floor by emergency battery	○
	Earthquake emergency operation	In the event of an earthquake, the elevator will detect the seismic signal and land at the nearest floor	△
	In-car emergency lamp [Self-charging]	In the event of power failure, the in-car emergency lamp will be activated	○
	Emergency call button	A button for passenger to make an emergency call when they are trapped inside the lift	○
	Door open when lift car is overloaded	The doors will re-open when over load is detected, even during the closing of doors.	○
	Mechanical door safety	When the mechanical door safety device is touched by a passenger, the door will open	△
	Multi-beam door safety sensor [Or light curtain door safety sensor]	When the multi-beam door safety device senses a passenger, the door will open	△
	2 in 1 door safety [Multi-beam door safety + Mechanical door safety]	A combination of multi-beam door safety and mechanical door safety	○
	Service Functions	Home landing	To reduce passenger waiting time, the lift will return to the designated floor and stand by
Service floor cut-off selection [Software interface]		This is of the free setting type, where the elevator superintendent for every building is free to set and modify service cut-off floors even after in use. This is the most appropriate type for such office buildings as their tenants are not yet fixed before completion.	△

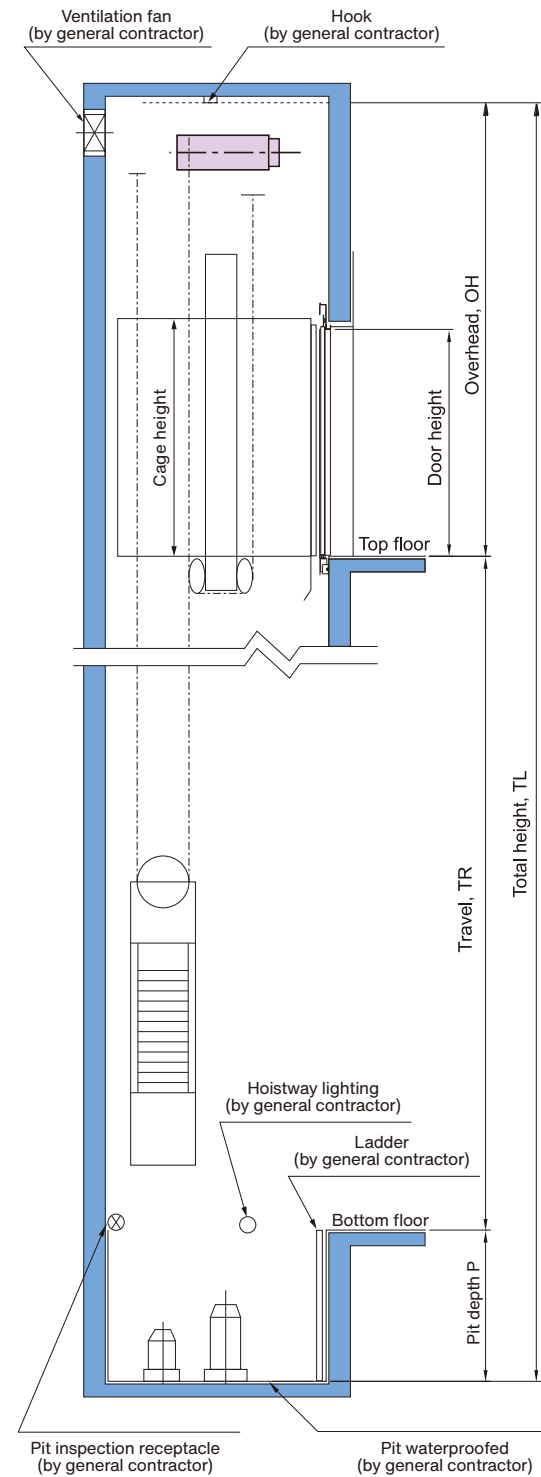
Notes

- 1: Not applicable to lift car with through door.
- 2: Fire emergency operation and fireman service cannot be applied simultaneously.
- 3: Standard function for 2-car operation or 3-car operation.
- 4: Car load is less than 150kg and there are five or more registered car calls.

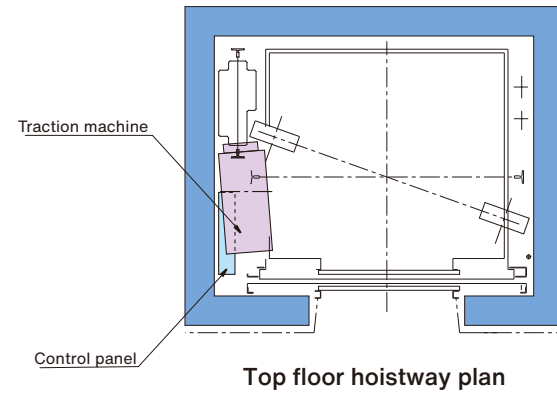
○ : STANDARD △ : OPTIONAL

Functions	Notes	Descriptions	
Service Functions	Service floor cut-off selection [Manual]	installing a switch or a timer on the supervisory panel, disables registration of car calls or hall calls for a basement floor's or an intermediate floors or intermediate floors thus engaging in non-stop (bypass) without servicing there.	△
	Full car bypass (Note 3)	When the lift car is full, the lift will bypass all hall calls and go straight to the designated floor	○
	Car call cancellation	The floor call can be cancelled from the COP by pressing the floor button twice within 3 second	○
	Nuisance call cancellation (Note 4)	Incorrect or nuisance floor calls can be cancelled to eliminate unnecessary operation	○
	Door repeated opening	When an obstacle is detected, the door will repeatedly open and close until the obstacle is removed	○
	Car indicator	Car indicator with the car operating panel	○
	Adjustable door opening time	Adjusts the door opening time to reflect building usage	○
	Door open extension button	Extends the door opening time	△
	Car chime	A chime installed in the car ceiling will sound when the lift arrives	△
	Hall chime	A chime installed in the lift lobby will sound when the lift arrives	△
	Car full load indicator	"Full Load" will display on the hall indicator when the lift car is full	○
	Hall lantern	The hall lantern will light up when the lift arrived	△
	Sub car operating panel	Additional car operating panel	△
	Out of service indicator	"Out of Service" will display on the hall indicator when the lift car is faulty	○
	Parking operation [Manual]	Parks the lift at designated floor by key-switch	○
	Parking operation [Automatic]	Parks the lift at designated floor autotmatically	△
	Car lighting automatic cut-off	When the lift is not in operation after a pre-determined period of time, the car light will turn off automatically	○
	Ventilation fan automatic cut-off	When the lift is not in operation after a pre-determined period of time, the ventilation fan will turn off automatically	○
	Door Open button lamp [For automatically cut-off car lighting]	The "Door Open" button will remain lit when the lift car light is turned off automatically	○
	Nuisance call cancellation at reversal	Cancel intentionally registered nuisance calls automatically in the reversal travel direction	○
	Multi-channel intercom	The intercom system can communicate with multi-stations simultaneously	○
	Designated floor stop operation	Automatically stops the lift at the designated floor for crime prevention purposes	△
	Card access system	Allows activation of the disnated floor call by IC card ※ Card Access System by others	△
	Speech synthesizer	Announces car operations	△
	Supervisory panel	Located in the building control room, etc. to monitor the status and control of each lift	△

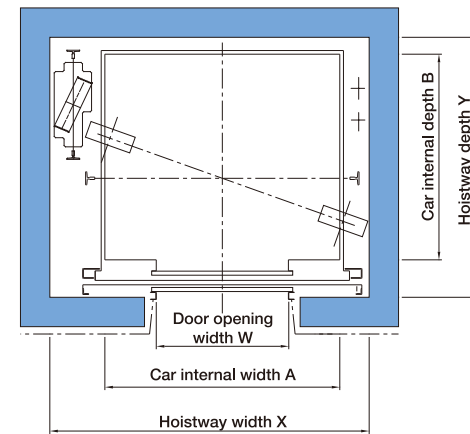
Hoistway Layout



Hoistway section



Top floor hoistway plan



Typical floor hoistway plan (W, D)

Specifications

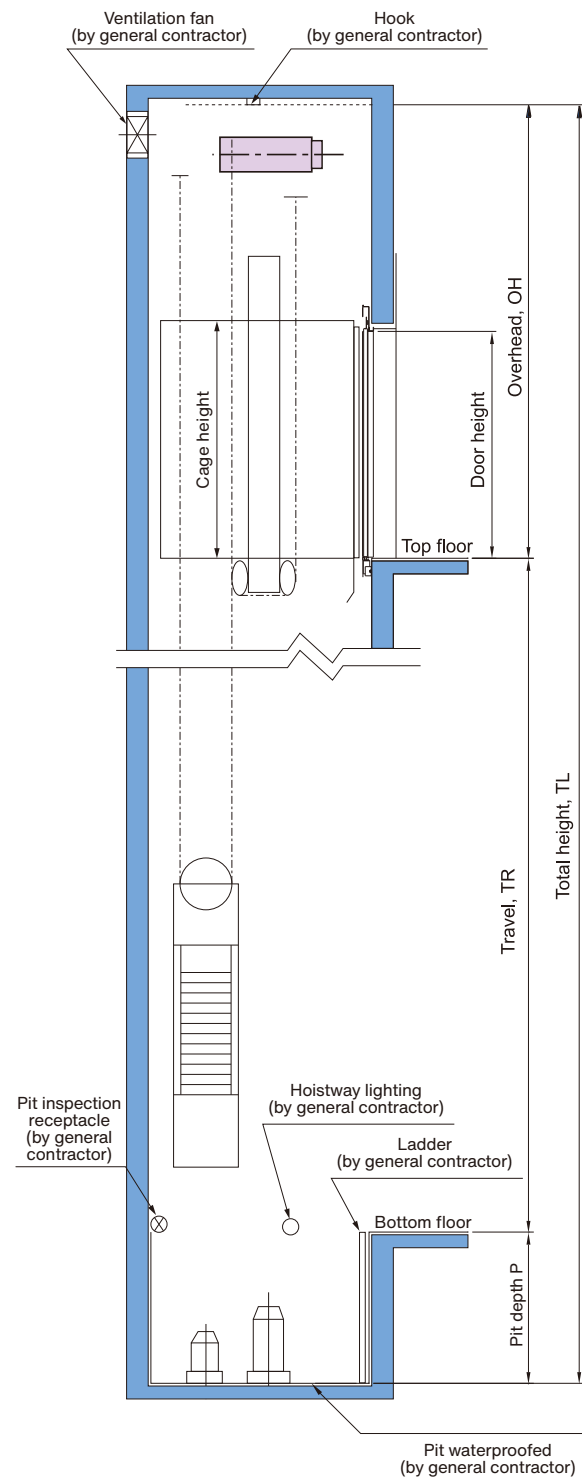
Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Motor Capacity (kW)	Max. Service Stops (s)	Max. Travel (m)
				A×B	Height	Width	Height		X×Y	OH	P			
P9-CO60	W	612	1	1400×1100	2300	800	2100	Side	2190×1670	4120	1450	3.5	40	80
P9-CO96	W		1.6			900			2190×1670					
P9-CO105	W		1.75			800			2190×1670					
P9-CO120	W		2			900			2290×1670					
P9-CO150	W		2.5			800			2190×1670					
						900			2290×1670					
						800			4520	1650	7.0			
						900			2190×1670					
						900			4570	2100	8.7			
P11-CO60	W	748	1	1400×1350	2300	800	2100	Side	2200×1780	4120	1450	4.2	40	80
P11-CO96	W		1.6			900			2200×1780					
P11-CO105	W		1.75			800			2300×1780					
P11-CO120	W		2			900			2200×1780					
P11-CO150	W		2.5			800			2300×1780					
						900			4520	1650	8.4			
						900			2200×1780					
						900			4570	2100	10.5			
						900			2400×1800					
P14-CO60	W	952	1	1600×1400	2300	1000	2100	Side	2500×1800	4120	1450	5.4	40	80
P14-CO96	W		1.6			1100			2600×1800					
P14-CO105	W		1.75			900			2400×1800					
P14-CO120	W		2			1000			2500×1800					
P14-CO150	W		2.5			1100			2600×1800					
						900			2400×1800					
						1000			4520	1650	10.9			
						1100			2600×1800					
						900			2400×1800					
			1000	2500×1800										
			1100	4570	2100	13.6								
			1100	2600×1800										

W: Wide car

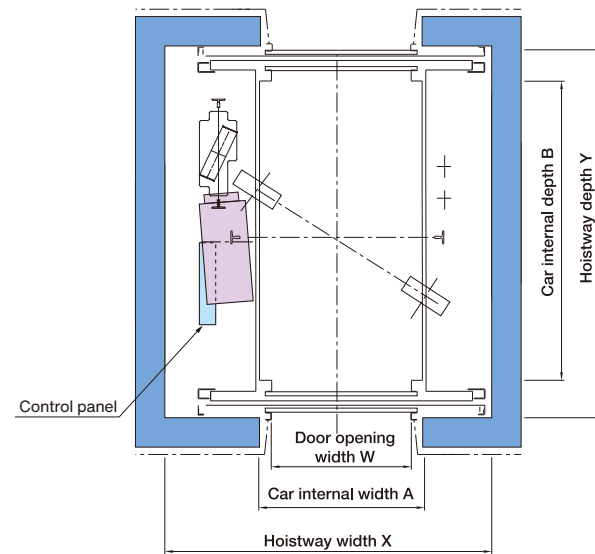
Note:

- The above scope complies with IS14665 standard. Please contact us to check for other standard.
- Please contact to our local distributor to check for other standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- Hoistway dimensions take into account the error of up to 50 mm after the construction work.
- The hoistway dimensions in chart are the minimum requirement.
- The hoistway structure wall must be 150mm thick or more.
- Piping, wiring and cables which is not relevant to elevator are prohibited inside the hoistway.
- OH value in the chart is for standard ceiling. As for the non-standard cars, please consult our local distributor.
- If the size of the hoistway is greater than the above sizes, OH will be larger. Please consult our local distributor.
- If the location of Power source panel, Control panel and Electric power supply are changed. Please consult our local distributor.

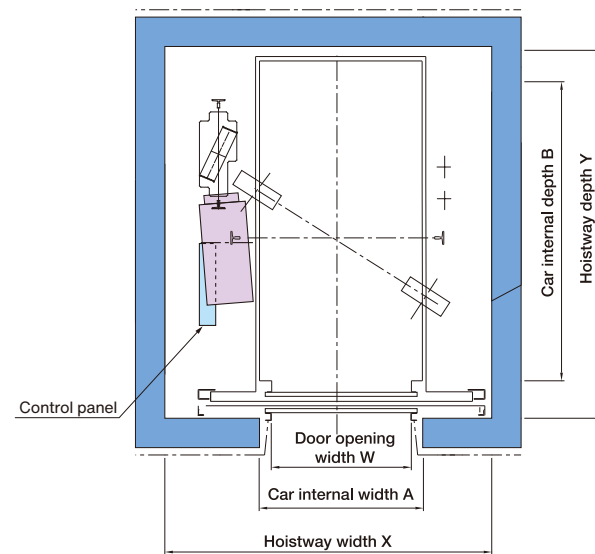
Hoistway Layout



Hoistway section



Typical floor hoistway plan (D2)



Typical floor hoistway plan (D)

Specifications

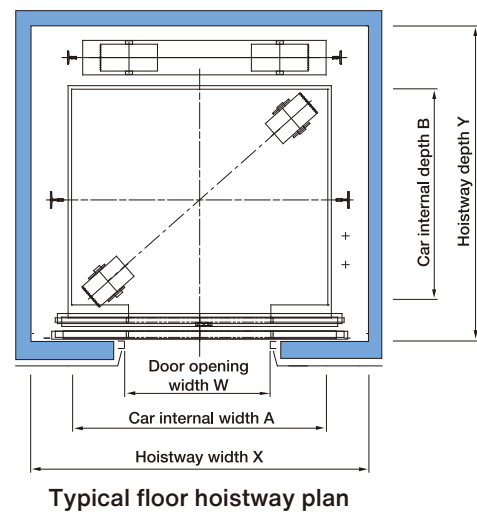
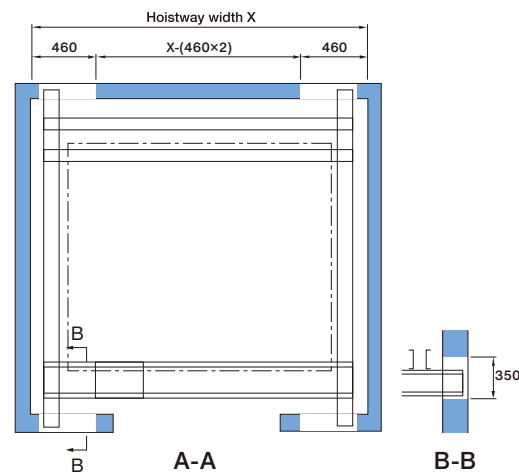
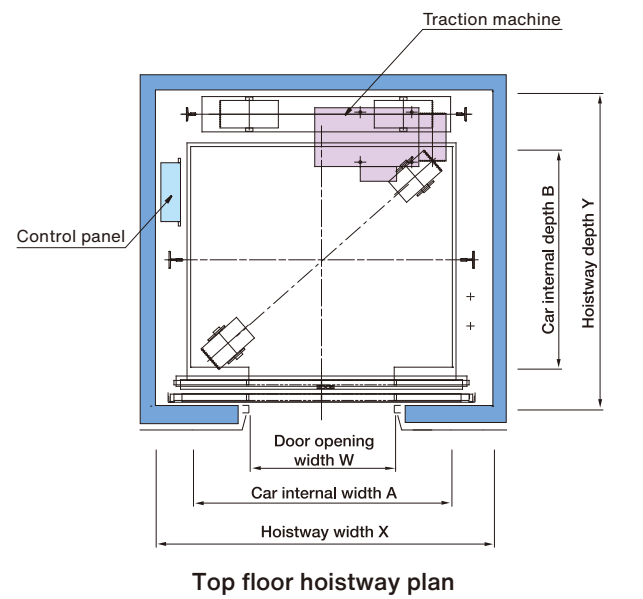
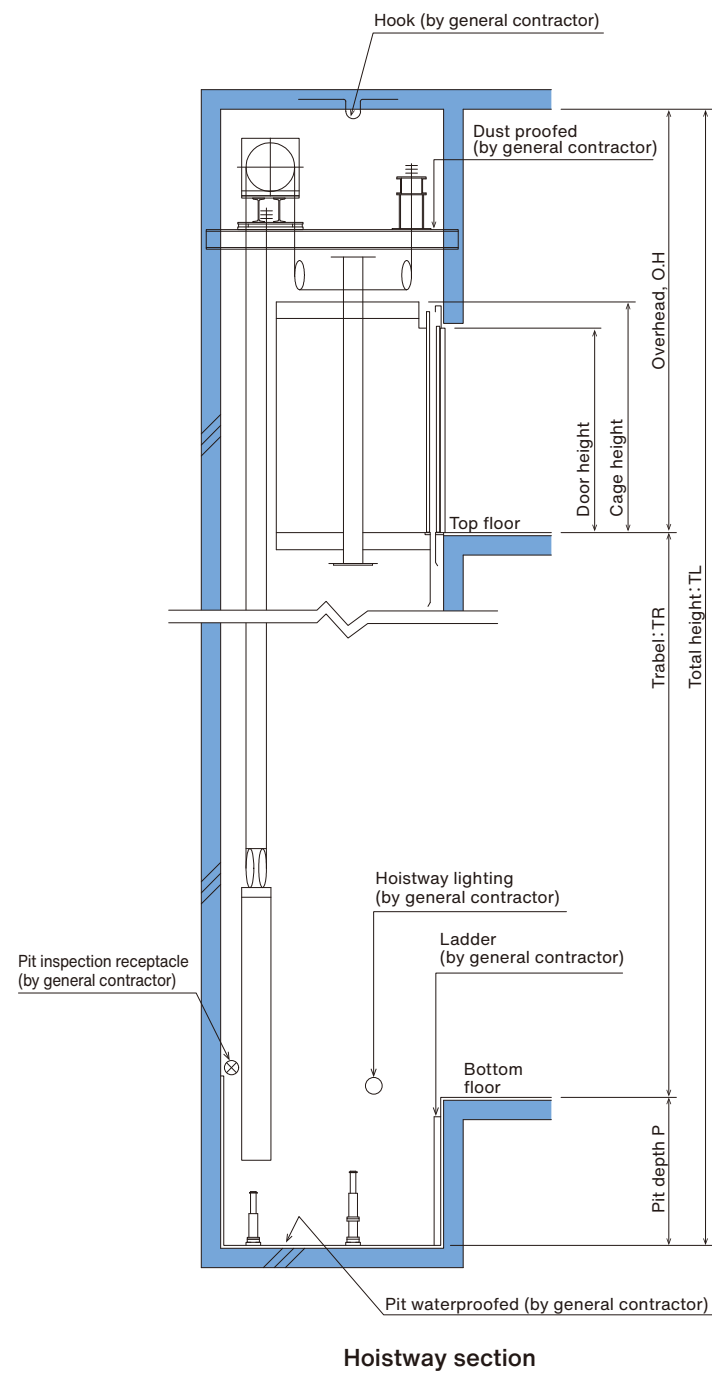
Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Motor Capacity (kW)	Max. Service Stops (s)	Max. Travel (m)	
				A×B	Height	Width	Height		X×Y	OH	P				
P7-CO60	D	7	476	1	1100×1100	2300	800	2100	Side	1950×1670	4120	1450	2.7	40	80
P7-CO105	D			4320							1550	4.7	100		
P8-CO60	D	8	544	1	1100×1300	2300	800	2100	Side	1950×1740	4120	1450	3.1	40	80
P8-CO105	D			4320							1550	5.4	100		
P9-CO60	D	9	612	1	1100×1400	2300	800	2100	Side	1990×1760	4120	1450	3.5	40	80
P9-CO96	D			900			1990×1760								
P9-CO105	D	9	612	1.6	1100×1400	2300	800	2100	Side	1990×1760	4120	1450	6.1	40	100
P9-CO120	D			900			1990×1760								
P9-CO150	D	9	612	1.75	1100×1400	2300	800	2100	Side	1990×1760	4120	1450	6.1	40	100
P9-CO150	D			900			1990×1760								
P9-CO150	D	9	612	2	1100×1400	2300	800	2100	Side	1990×1760	4120	1450	6.1	40	100
P9-CO150	D			900			1990×1760								
P9-CO150	D	9	612	2.5	1100×1400	2300	800	2100	Side	1990×1760	4120	1450	6.1	40	100
P9-CO150	D			900			1990×1760								
P11-CO60	D	11	748	1	1100×1700	2300	800	2100	Side	2000×2060	4120	1450	4.2	40	80
P11-CO60	D2														
P11-CO96	D	11	748	1.6	1100×1700	2300	800	2100	Side	2000×2060	4120	1450	6.7	40	100
P11-CO96	D2														
P11-CO105	D	11	748	1.75	1100×1700	2300	800	2100	Side	2000×2060	4120	1450	7.3	40	100
P11-CO105	D2														
P11-CO120	D	11	748	2	1100×1700	2300	800	2100	Side	2000×2060	4120	1450	8.4	40	100
P11-CO120	D2														
P11-CO150	D	11	748	2.5	1100×1700	2300	800	2100	Side	2000×2060	4120	1450	10.5	40	100
P11-CO150	D2														
P14-CO60	D	14	952	1	1100×2100	2300	900	2100	Side	2140×2460	4120	1450	5.4	40	80
P14-CO60	D2														
P14-CO96	D	14	952	1.6	1100×2100	2300	900	2100	Side	2140×2460	4120	1450	8.7	40	100
P14-CO96	D2														
P14-CO105	D	14	952	1.75	1100×2100	2300	900	2100	Side	2140×2460	4120	1450	9.5	40	100
P14-CO105	D2														
P14-CO120	D	14	952	2	1100×2100	2300	900	2100	Side	2140×2460	4120	1450	10.9	40	100
P14-CO120	D2														
P14-CO150	D	14	952	2.5	1100×2100	2300	900	2100	Side	2140×2460	4120	1450	13.6	40	100
P14-CO150	D2														

D: Deep car D2: Front and rear opening door ※: Please consult our local distributor

Note:

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- Please contact to our local distributor to check for other standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- Hoistway dimensions take into account the error of up to 50 mm after the construction work.
- The hoistway dimensions in chart are the minimum requirement.
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Hoistway Layout



Specifications

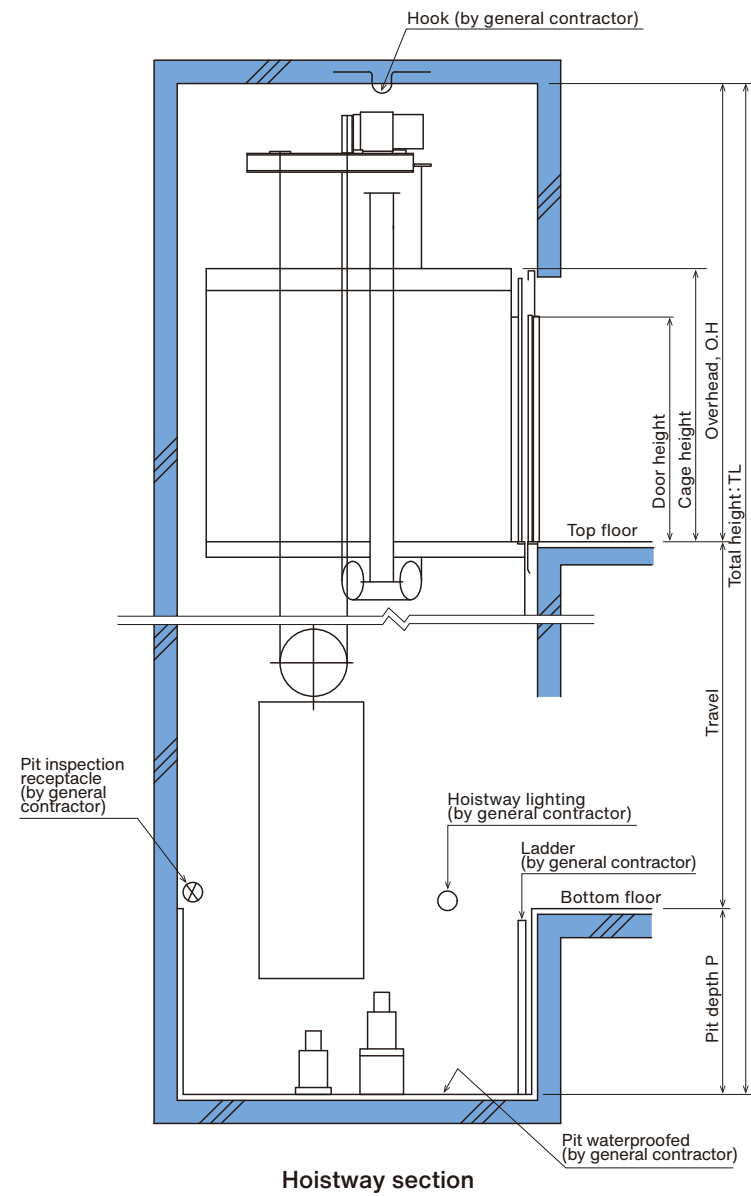
Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Motor Capacity (kW)	Max. Service Stops (s)	Max. Travel (m)
				AxB	Height	Width	Height		XxY	OH	P			
P17-CO60	W		1	1800x1500	2300	1000	2100	Rear	2450x2170	4580	1480	7.0	48	100
P17-CO96	W		1.6			1100			2450x2170					
P17-CO105	W	17	1.75			1000			2450x2170					
P17-CO120	W		2			1100			2450x2170					
P17-CO150	W		2.5			1000			2450x2170					
						1100			2550x2170					
P19-CO60	W		1	2000x1500	2300	1100	2100	Rear	2650x2170	4580	1480	8.0	48	100
P19-CO96	W		1.6			1100			2650x2170					
P19-CO105	W	19	1.75			1200			2650x2170					
P19-CO120	W		2			1100			2650x2170					
P19-CO150	W		2.5			1200			2650x2170					
						1100			2700x2370					
P23-CO60	W		1	2000x1700	2300	1100	2100	Rear	2700x2370	4580	1480	10.0	48	100
P23-CO96	W		1.6			1200			2700x2370					
P23-CO105	W	23	1.75			1100			2700x2370					
P23-CO120	W		2			1200			2700x2370					
P23-CO150	W		2.5			1100			2700x2370					
						1200			2750x2370					
P25-CO60	W		1	2100x1750	2300	1200	2100	Rear	2800x2420	4580	1480	10.0	48	100
P25-CO96	W		1.6			1200			2800x2420					
P25-CO105	W	25	1.75			1200			2800x2420					
P25-CO120	W		2			1200			2800x2420					
P25-CO150	W		2.5			1200			2800x2420					
						1200			2900x2620					
P29-CO60	W		1	2100x1950	2300	1200	2100	Rear	2800x2620	4580	1480	12.0	48	100
P29-CO96	W		1.6			1200			2800x2620					
P29-CO105	W	29	1.75			1200			2800x2620					
P29-CO120	W		2			1200			2800x2620					
						1200			2900x2620					
						1200			2900x2620					

W: Wide car

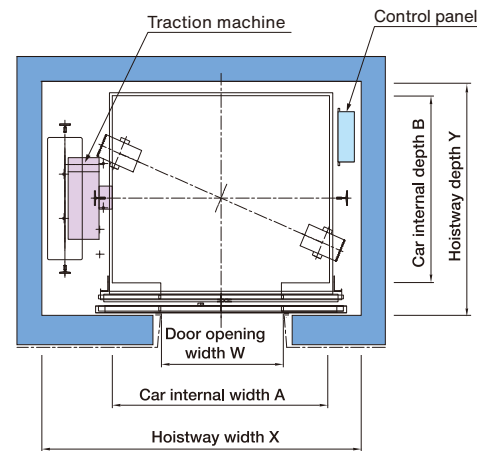
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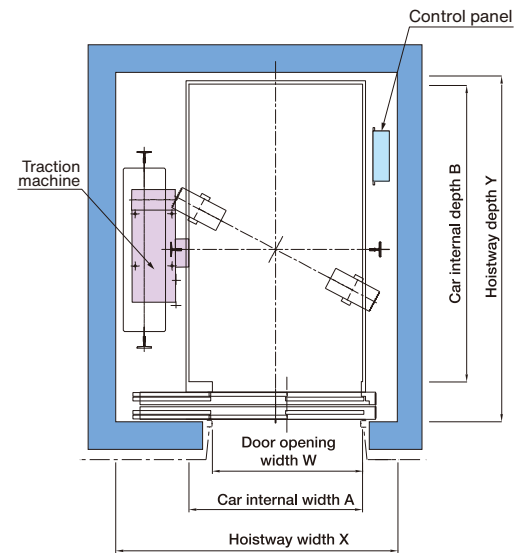
Hoistway Layout



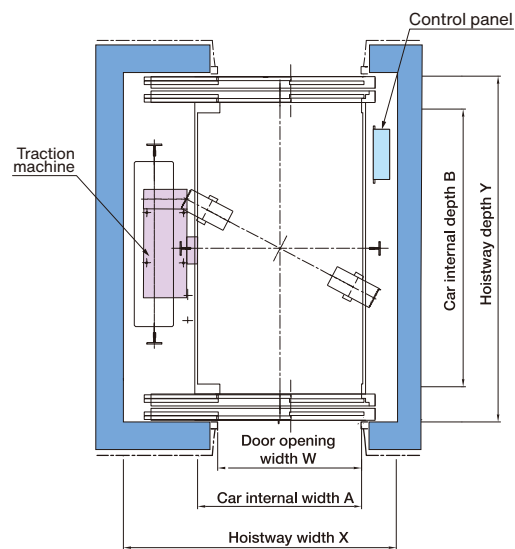
Hoistway section



Typical floor hoistway plan (W)



Typical floor hoistway plan (D)



Typical floor hoistway plan (D2)

Specifications

Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Motor Capacity (kW)	Max. Service Stops (s)	Max. Travel (m)
				A×B	Height	Width	Height		X×Y	OH	P			
P17-CO60	W		1			1000			2750×1870	4210	1450	7.0		80
P17-CO96	W		1.6			1100			2850×1870					
P17-CO105	W	17	1.75	1800×1500	2300	1000	2100	Side	2750×1870	4360	1550	12.0	48	100
P17-CO120	W		2			1100			2850×1870					
P17-CO150	W		2.5			1100			2750×1870	4510	1650	14.0		
P17-CO150	W		2.5			1100			2850×1870	4760	2100	18.0		
P18-CO60	W		1						4210	1450	8.0		80	
P18-CO96	W		1.6						4360	1550	12.0			
P18-CO105	W	18	1.75	2000×1400	2300	1100	2100	Side	2950×1830	4420	1600	14.0	48	100
P18-CO120	W		2						4510	1650	16.0			
P18-CO150	W		2.5						4760	2100	20.0			
P19-CO60	W		1						4210	1450	8.0		80	
P19-CO96	W		1.6						4360	1550	12.0			
P19-CO105	W	19	1.75	2000×1500	2300	1100	2100	Side	2950×1870	4420	1600	14.0	48	100
P19-CO120	W		2						4510	1650	16.0			
P19-CO150	W		2.5						4760	2100	22.0			
P23-CO60	W		1						2980×2110	4210	1500	10.0		80
P23-CO96	W		1.6						3080×2110					
P23-CO105	W	23	1.75	2000×1700	2300	1100	2100	Side	2980×2110	4360	1600	16.0	48	100
P23-CO120	W		2						3080×2110					
P23-CO150	W		2.5						2980×2110	4420	1650	16.0	48	100
P23-CO150	W		2.5						3080×2110	4510	1700	20.0		
P23-CO150	W		2.5						3080×2110	4760	2150	24.0		
P25-CO60	W		1						4210	1500	10.0		80	
P25-CO96	W		1.6						4360	1600	16.0			
P25-CO105	W	25	1.75	2100×1750	2300	1200	2100	Side	3030×2130	4420	1650	18.0	48	100
P25-CO120	W		2						4510	1700	20.0			
P29-CO60	W		1						4210	1500	12.0		80	
P29-CO96	W		1.6						4360	1600	20.0			
P29-CO105	W	29	1.75	2100×1950	2300	1200	2100	Side	3030×2310	4420	1650	20.0	48	100
P29-CO120	W		2						4510	1700	24.0			
P18-CO60	D		1						4210	1450	8.0		80	
P18-CO96	D		1.6						4360	1550	12.0			
P18-CO105	D	18	1.75	1200×2300	2300	1100	2100	Side	2180×2760	4420	1600	14.0	48	100
P18-CO120	D		2						4510	1650	16.0			
P18-CO150	D		2.5						4760	2100	20.0			
P17-2S60	D2		1						4210	1450	7.0		80	
P17-2S96	D2		1.6						4360	1550	12.0			
P17-2S105	D2	17	1.75	1200×2200	2300	1100	2100	Side	2180×2870	4420	1600	12.0	※	100
P17-2S120	D2		2						4510	1650	14.0			
P17-2S150	D2		2.5						4760	2100	18.0			
P22-2S60	D		1						4210	1500	9.0		80	
P22-2S96	D		1.6						4360	1600	14.0			
P22-2S105	D	22	1.75	1400×2400	2300	1200	2100	Side	2380×2860	4420	1650	16.0	48	100
P22-2S120	D		2						4510	1700	18.0			
P22-2S150	D		2.5						4760	2150	22.0			
P21-2S60	D2		1						4210	1500	9.0		80	
P21-2S96	D2		1.6						4360	1600	14.0			
P21-2S105	D2	21	1.75	1400×2300	2300	1200	2100	Side	2380×2970	4420	1650	16.0	※	100
P21-2S120	D2		2						4510	1700	18.0			
P21-2S150	D2		2.5						4760	2150	22.0			

W: Wide car D: Deep car D2: Front and rear opening door ※: Please consult our local distributor

Note:

- The above scope complies with IS14665 standard. Please contact us to check for other standard.
- Please contact to our local distributor to check for other standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- Hoistway dimensions take into account the error of up to 50 mm after the construction work.
- The hoistway dimensions in chart are the minimum requirement.
- The hoistway structure wall must be 150mm thick or more.
- Piping, wiring and cables which is not relevant to elevator are prohibited inside the hoistway.
- OH value in the chart is for standard ceiling. As for the non-standard cars, please consult our local distributor.
- If the size of the hoistway is greater than the above sizes, OH will be larger. Please consult our local distributor.
- If the location of Power source panel, Control panel and Electric power supply are changed. Please consult our local distributor.

Works by Others

Works below are not included in elevator installation works:

► Hoistways

1. Hoistway construction and fire-proofing, and opening for jambs, indicators and push-buttons, etc.
Please note that chipping or padding work is required according to the necessity, in case the error of the structure is 30 mm or over.
2. Installation of separating beams, intermediate beam, back beam and lateral beams (if necessary).
3. Installation of the base plate for each floor and of bed steel for furnishing the equipment related to landing entrance, in case of hoistways of steel structure of PC structure.
4. Fire-proofing of steel frame material in steel structured hoistways, and fire-proofing around landing entrances (if necessary).
5. Finishing of walls and floors, etc., around entrances, after furnishing equipment related to landing entrances.
6. Furnishing of base steel or others for furnishing rail brackets, especially where the floor height is high (if necessary).
7. Installation of the entrance or the gangway for pit inspection (if necessary).
8. Water-proofing of the pit (including drainage if necessary).
9. Rearrangement of the building body in case that there are some spaces to be used under the pit.
10. Installation of emergency exits for rescue purposes in the event there are floors at which the elevator does not stop and installation of a fascia plate.
11. Shelter equipment from rain at landing entrances directly contacting to the air in the place like roof.
12. Installation of hooks or beams on top of the elevator shaft.
13. Installation of lighting in hoistway (if necessary).
14. Installation of vent opening at the top of shaft (if necessary).
15. Installation of a net or wall to prevent falling into the pit (in cases where the pit level is different.)
16. All related to the building structure other than works above.

► Works for Equipment

1. Wiring of the power supply for motors and that for lighting equipment, and of grounding to power source panels of elevators in the Elevator shaft.
2. Wiring of the power supply to the supervisory panels.
3. Piping and wiring of intercoms outside hoistway and of others necessary for elevators.
4. Supply and installation of switching devices for emergency power supply in case of power failure and two pairs of relay contacts for normal / emergency power identification, and their piping and wiring (if necessary).
5. Piping and wiring of supervisory panels, alarm panels and inter-communication systems, etc., outside hoistways.
6. Furnishing of receptacles for inspection in pits.

► Temporary Works

It is required to arrange the following matters:

1. To secure the site office for installation work and the stock yard for materials without charge.
2. Enclosure to be used during the installation work.
3. Supply of electric power for installation work and the trial operation for adjustment.
4. Security of enough passage for carrying heavy goods.
5. On use of elevator for the construction work of the building, It is required to make contract with a separate written estimate.

Note

During equipment planning of elevators, please take the following items into consideration:

1. Provide power facility so that voltage regulation of the power supply at the receiving terminals in the hoistway is kept within $\pm 10\%$ for the motor, and $\pm 2\%$ for the lighting equipments.
2. In the hoistways, please prevent the temperature from exceeding 40°C and humidity from exceeding 90% (monthly mean) and 95% (daily mean).
3. Please do not allow any chemically toxic gas or an excessive amount of dust to enter into the hoistways, as these can corrode the metal or electrical contacts.

When asking for an estimate, please inform us of the following:

1. Building name and address.
2. Desired type and number of set.
3. Number of stops.
4. Floor height.
5. Voltage and frequency of main power supply.
6. Desired completion date.

Memo

Toshiba elevator's network in India and Globally

● Head office/Manufacturing base ● Head office ● Branch office

H TOSHIBA JOHNSON ELEVATORS (INDIA) PVT. LTD.
Head Office (MUMBAI)

1 602, 6th Floor, C&B Square, Sangan Complex, 127, Andheri Kurla Road, Andheri (East), Mumbai 400 059, India



2 BANGALORE

No. 413, 5th Main Road, ARKA, 2nd Floor, OMBR Layout, Banaswadi, Bengaluru 560033

3 NEW DELHI

Unit No. 234, 2nd Floor, DLF Prime Tower, Okhla Industrial Area, Phase-I, New Delhi 110020

4 GURGAON

4th Floor, Building no.10, Tower B, Phase-II, DLF Cyber city, Gurgaon-122002, Haryana.

5 CHENNAI

Door No.28, Lawyer Jaganathan Street, AMG Towers, 2nd Floor, Alandur, Chennai 600016

6 KOLKATA

Unit No. 1203, 12th Floor, DN 36, Primarc Tower, Salt Lake City, Sector V, Kolkata 700 091

7 HYDERABAD

No. 6-16/3A, Dee Nagar, Chintal, Ranga Reddy District, Telangana 500054

8 PUNE

S.No. 309/2A+1BMP/Final Plot No. 82, Phase II & III, 1st Floor, Office No. 19, Sangamwadi D. P. Scheme, Valsali Road, Sangam Bridge, Pune 411 001.

9 COCHIN

39/6501, Chiramel Chambers, Kurisupally Road, Ravipuram, Cochin - 682015

10 AHMEDABAD

Block A, TF 4, Anand Complex, Sarkhej - Gandhi Nagar Highway, Ahmedabad - 9

A TOSHIBA ELEVATOR AND BUILDING SYSTEMS CORPORATION

Head Office: 72-34, Horikawa-cho, Saiwai-ku, Kawasaki 212-8585, Japan
Factory: 1 Toshiba-cho, Fuchu City, Tokyo 183-8511

B TOSHIBA ELEVATOR (SHENYANG) CO., LTD.

Head Office: No.5 Feiyun Road Hunnan New District Shenyang, The People's Republic of China

C TOSHIBA ELEVATOR (CHINA) CO., LTD.

Head Office: No. 685 Wen Chuan Road, Baoshan District, Shanghai 201901, The People's Republic of China.

D CHEVALIER (HK) LIMITED

Head Office: 22nd Floor, Chevalier Commercial Centre, 8 Wang Hoi Road, Kowloon Bay, Hong Kong

E CHEVALIER SINGAPORE HOLDINGS PTE. LTD.

Head Office: 23 Genting Road #07-01/02 Chevalier House, Singapore 349481

F M S ELEVATORS Sdn. Bhd.

Head Office: 8th Floor, Wisma Penang Garden, 42 Jalan Sultan Ahmad Shah, 10050 Penang, Malaysia.
Factory: 2530, Lorong Perusahaan 10, Prai Industrial Estate, 13600 Prai, Province, Wellesley, Malaysia.

M S ELEVATORS ENGINEERING Sdn. Bhd.

Head Office: 8th Floor, Wisma Penang Garden, 42 Jalan Sultan Ahmad Shah, 10050 Penang, Malaysia.
KL Office: Wisma MS, No.15, Jalan 2/116 D, Kuchai Entrepreneurs' Park, Off Jalan Kuchai Lama, 58200 Kuala Lumpur, Malaysia.

G TOSHIBA JOHNSON ELEVATORS (INDIA) PVT. LTD.

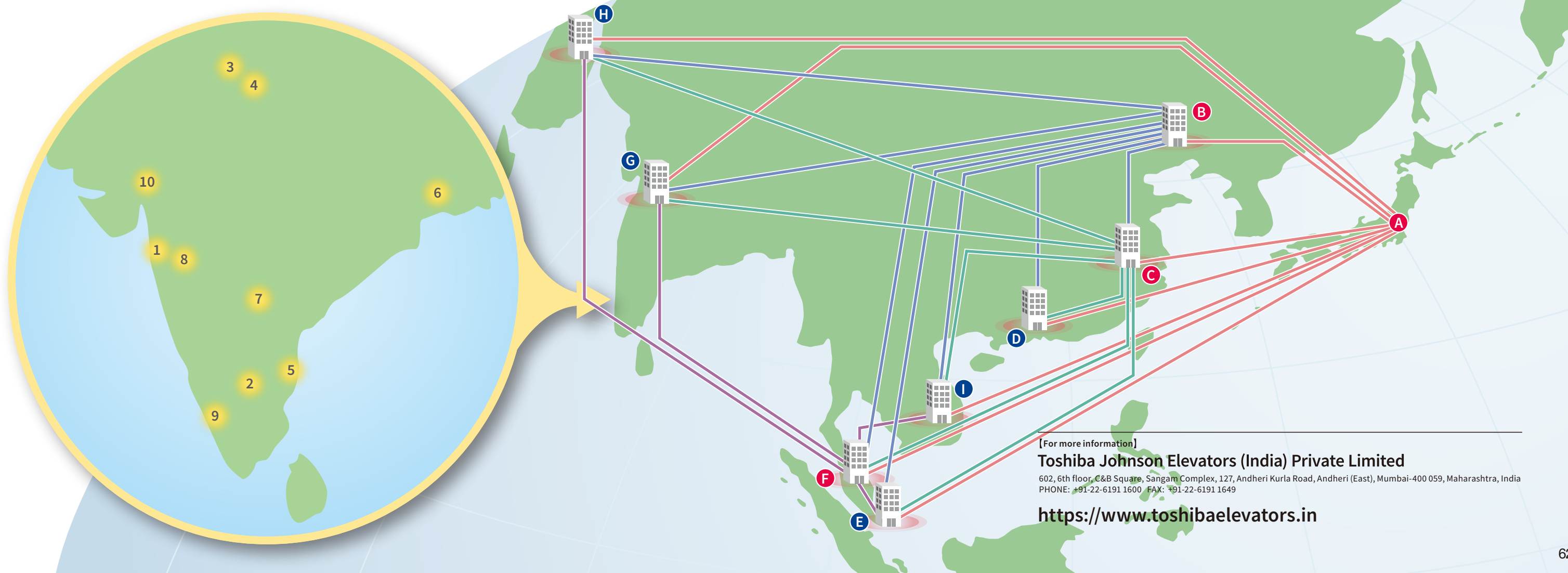
Head Office: 602, 6th Floor, C&B Square, Sangan Complex 127, Andheri Kurla Road. Andheri (East), Mumbai, 400059 India

H TOSHIBA ELEVATOR MIDDLE EAST (L.L.C.)

Head Office: P. O. Box 16733, Dubai, UAE

I Toshiba Elevator (Vietnam) Limited Liability Company

Head Office: No. 36, Street 96, Quarter 2, Thanh My Loi Ward, Thu Duc City, Ho Chi Minh City, Vietnam



[For more information]
Toshiba Johnson Elevators (India) Private Limited
 602, 6th floor, C&B Square, Sangan Complex, 127, Andheri Kurla Road, Andheri (East), Mumbai-400 059, Maharashtra, India
 PHONE: +91-22-6191 1600 FAX: +91-22-6191 1649
<https://www.toshibaelevators.in>