



TOSHIBA MACHINE-ROOM-LESS ELEVATORS  
STANDARD PASSENGER ELEVATOR

# SPACE L-III

For GB standard

3rd Edition

For GB 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 Elevator and Building Systems Corporation

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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.  
\* Revised publication effective Sep. 2021

# 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 compact machine room 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
Passenger	8 ~ 26 persons
Rated load	630 ~ 2000 kg
Rated speed	1.0 ~ 2.5 m/s <sup>Note1</sup>

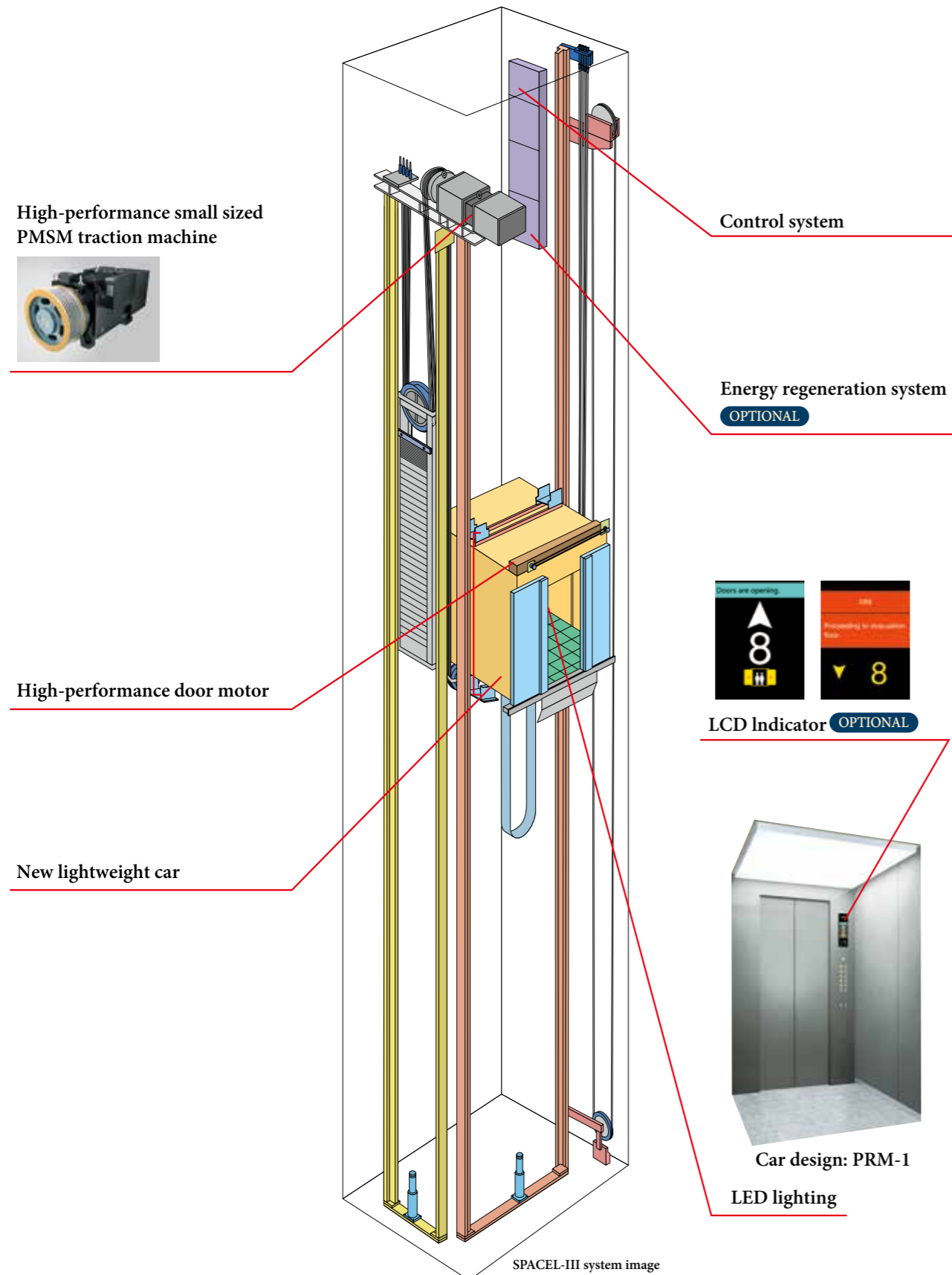
Note1: Applicable range Rated load 1600 or less for rated speed 2.5 m/s.  
Note2: The above scope complies with GB7588:2003 standard.

Rated speed (m/s)	2.5								
	2.0								
	1.75								
	1.5/1.6								
	1.0								
Rated load (kg)	630	825	1050	1150	1275	1350	1600	1800	2000
Type	P8	P11	P14	P15	P17	P18	P21	P24	P26

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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.

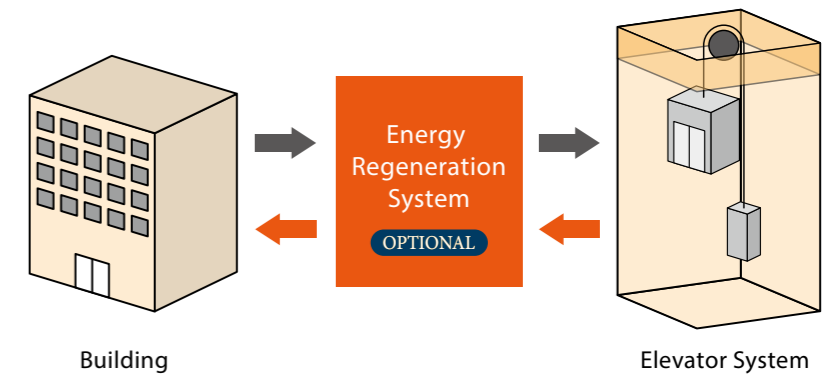


### High Performance Control Systems

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 1050kg, 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 OPTIONAL

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

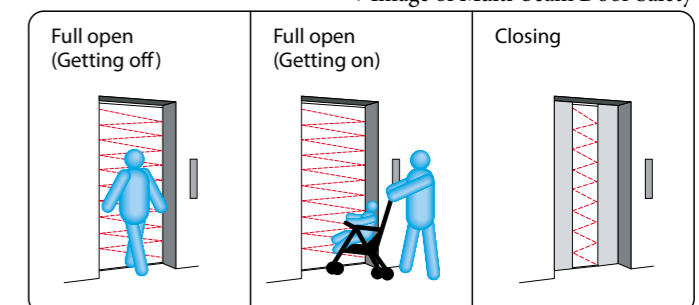
A device to prevents an elevator ascending to the elevator shaft top beyond the rated speed due to a device like an electromagnetic brake or control unit. It monitors the speed of the upper direction mechanically by a governor, then cut off the power supply and safety circuit by an overspeed detecting 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





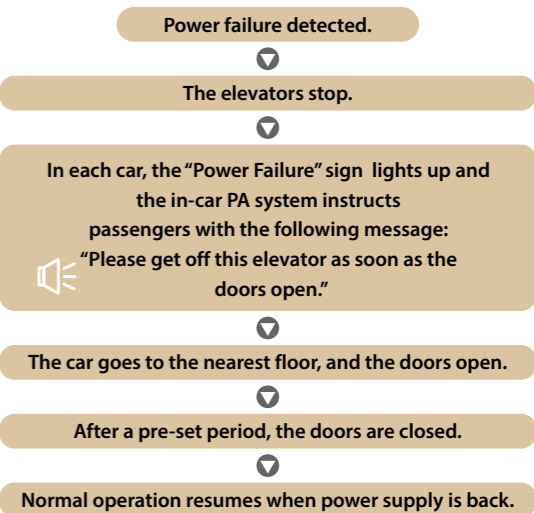
# TECHNOLOGY

## Safety Function

### Automatic Landing in Power Failure

OPTIONAL

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.)

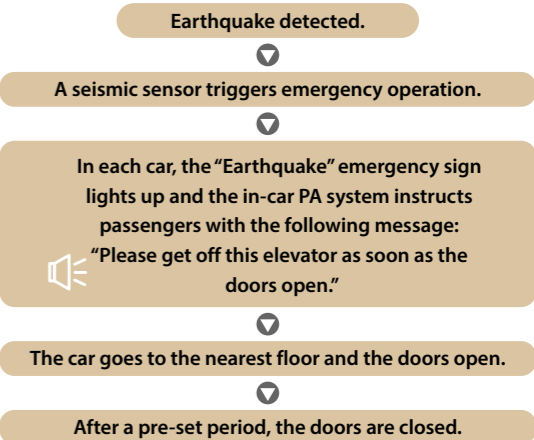


※Above flowchart is representable example

### 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.

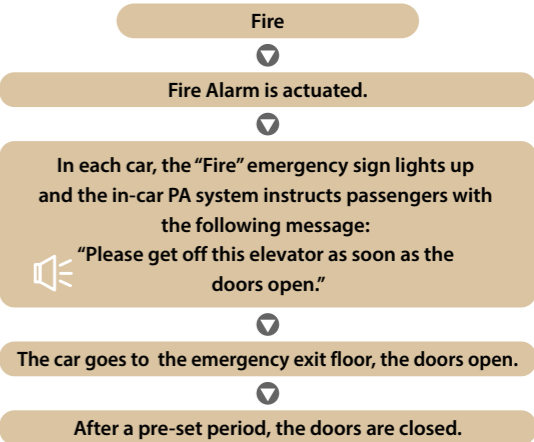


※Above flowchart is representable example

### 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

【Note2】




SL-1 LED

OPTIONAL




DLX-31 LED




DLX-28 LED

【Note1】




DLX-27 LED

【Note1】




DLX-25 LED


【Note1】




DLX-24 LED




DLX-23 LED




DLX-22 LED



DLX-21 LED




PRM-1 LED




PRM-2 LED

【Note2】




TL-1 LED




TL-S2 LED

【Note1】




TL-S1 LED

【Note1】




DLC-1 LED

【Note1】



SL-3 LED

【Note1】



SL-V1 LED

【Note1】

LED : LED light

【Note1】

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

【Note2】

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

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

# 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 LCD
Handrail	Stainless steel flat type hand rail
Remark	Applies to models with a capacity of 1150kg or more.

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

### 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-3



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

# 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	5.7inch LCD
Handrail	Stainless steel round type hand rail

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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

#### DLX-23



OPTIONAL

#### TL-1



OPTIONAL

#### DLX-21



OPTIONAL

#### TL-S2



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

# Car Design



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-84C
Indicator	8.4 inch LCD
Handrail	Nil

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### Design variations

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Please refer to the “DESIGN SELECTION” catalog for each the condition  
and other designs.

OPTIONAL

#### DLX-24



OPTIONAL

#### DLX-25



OPTIONAL

#### PRM-2



STANDARD

#### SL-1



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

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 LCD
Handrail	Nil

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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

DLX-21



OPTIONAL

DLX-28



OPTIONAL

DLX-23



OPTIONAL

DLC-1-1



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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 2  
OPTIONAL



Hall design 3  
OPTIONAL



Hall design 4  
OPTIONAL



Hall design 5  
OPTIONAL



Hall design 6  
STANDARD



Hall design 7  
OPTIONAL

## Hall design 1 OPTIONAL

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



HB-G1K



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



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

## Hall design 3 OPTIONAL

- Hall jamb** Wide type jamb  
Painted steel panel (66YS)
- Hall door** Painted steel panel (66YS)
- Hall transam** Nil
- Hall sill** Hardened aluminium
- Hall indicator** Nil
- Hall button** HIB-G1NL
- Hall lantern** HL-G1-O



HIB-G1NL



HL-G1-O



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# Hall Design

## Hall design 4 OPTIONAL

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



## Hall design 5 OPTIONAL

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



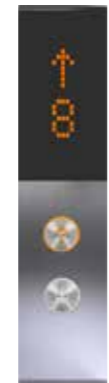
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# Hall Design

## Hall design 6 STANDARD

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



HIB-G1N



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## Hall design 7 OPTIONAL

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



HI-G1L-57B



HB-G1K



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# OPERATION SYSTEMS



# Operation Systems

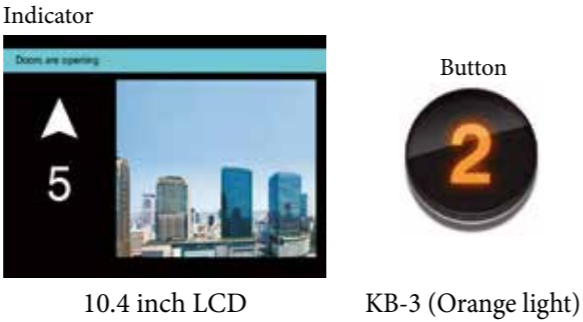
## Car Operation Panel: POP type

※Note: Applicable to Wide Car type models

Car Operation Panel



POP-G1L-104C  
OPTIONAL



PRM-1

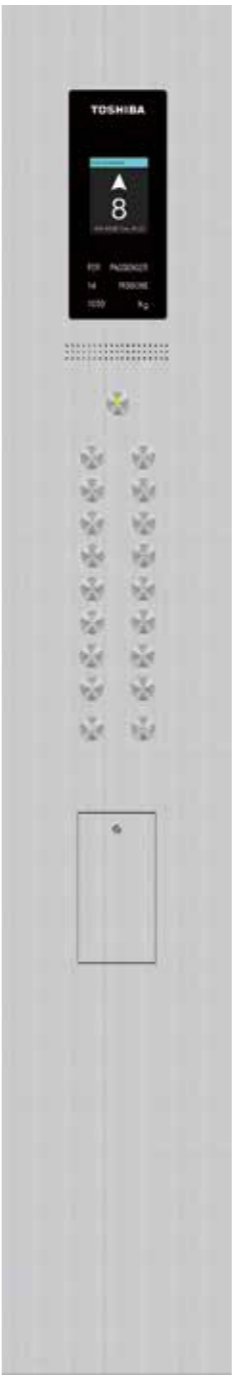


The actual product colors may vary slightly from those printed colors in this catalog.

Car Operation Panel



POP-G1L-84C  
OPTIONAL



POP-G1L-57B  
OPTIONAL



POP-G1L-70S  
OPTIONAL



POP-G1L  
OPTIONAL

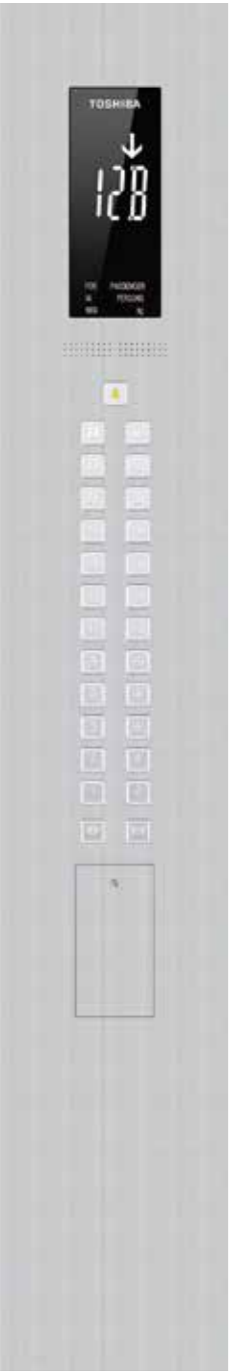
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# Operation Systems

## Car Operation Panel: POP type

※Note: Applicable to Wide Car type models


Car Operation Panel



DLX-31


POP-G1NS  
OPTIONAL

Indicator




7 inch LCD Segment

Button



GS-3LB



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

Car Operation Panel



SL-P1

POP-G1NL  
STANDARD

Indicator



7 inch LCD Segment

Button



GS-5B-WT



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

Indicator



8.4 inch LCD

Button



KB-7 (Orange light)


DLX-24



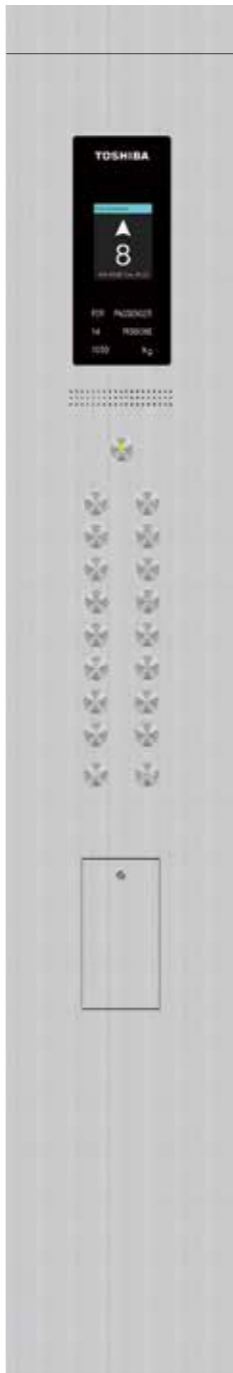
FCOP-G1L-84C  
(8.4 inch LCD)  
OPTIONAL

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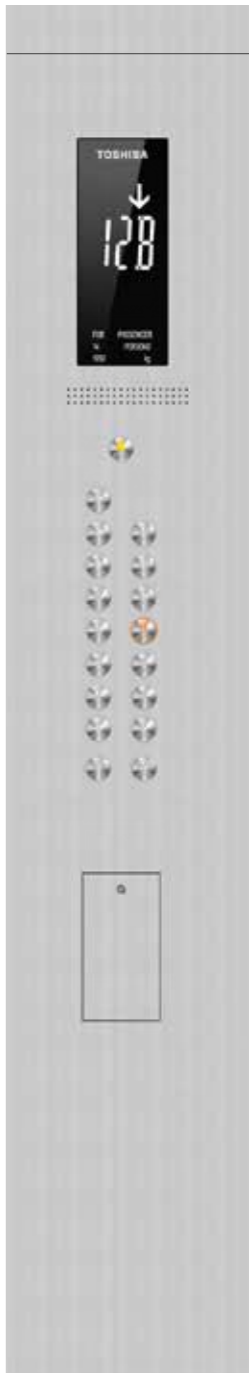
Car Operation Panel




FCOP-G1L-104C  
OPTIONAL



FCOP-G1L-57B  
OPTIONAL



FCOP-G1L-70S  
OPTIONAL



FCOP-G1L  
OPTIONAL

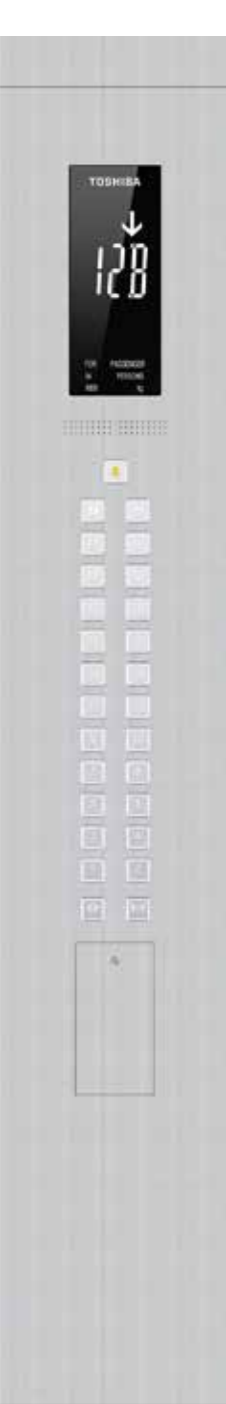
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# Operation Systems

## Car Operation Panel: FCOP type

※Note: Applicable to Deep Car type models

Car Operation Panel



FCOP-G1NS  
OPTIONAL



7 inch LCD  
Segment



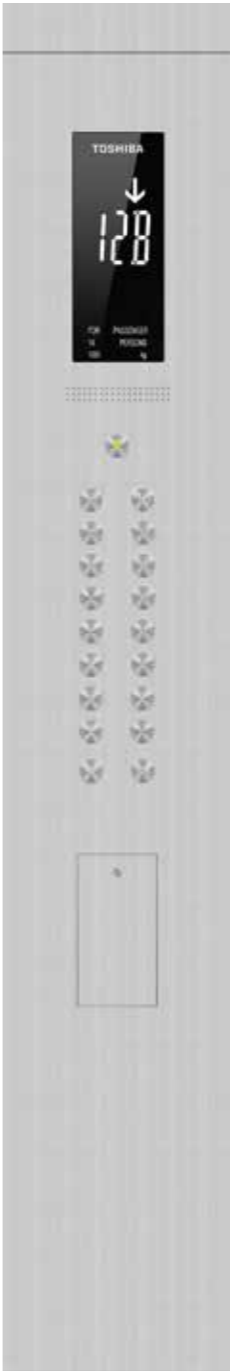
GS-3LB

TL-S2



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Car Operation Panel



FCOP-G1NL  
STANDARD



7 inch LCD  
Segment



GS-5B-WT

DLX-23



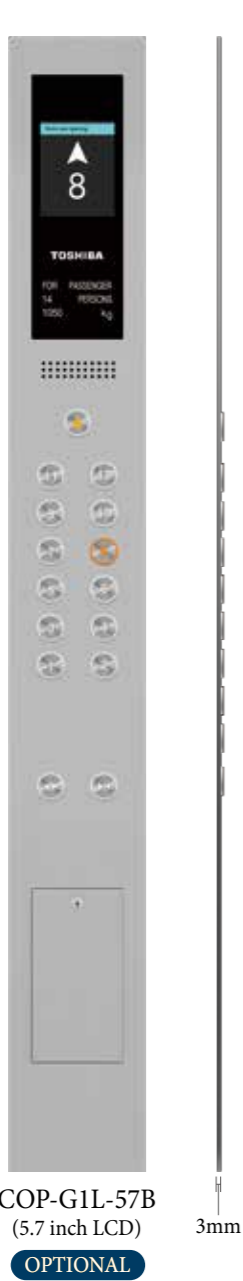
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# Operation Systems

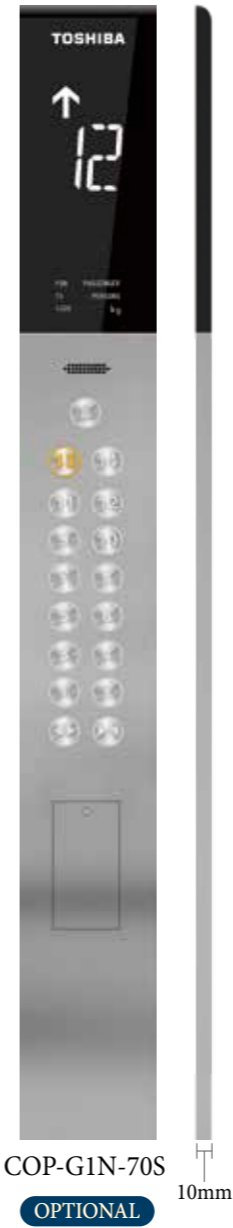
## Car Operation Panel: COP type

※Note: Applicable to all models

Car Operation Panel



Car Operation Panel



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# Operation Systems

## Hall Indicator Button: HIB type

Hall Indicator Button



HIB-G1L-43B  
(4.3 inch LCD)  
OPTIONAL



### LCD Hall Indicator

Toshiba's universal designed 4.3 inch LCD hall indicators are capable of displaying various announcements such as emergency operation, maintenance status, etc.

4.3inch LCD display



4.3inch LCD segment



HIB-G1K3  
OPTIONAL



HIB-G2K3  
OPTIONAL

### 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

### 4.3 inch LCD segment



HIB-G1N-43S  
OPTIONAL



HIB-G2N-43S  
OPTIONAL

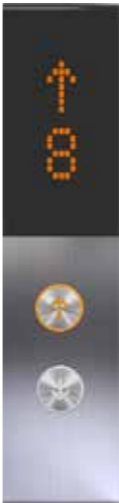


HIB-G1NL  
STANDARD



HIB-G2NL  
STANDARD

### LED Dot Matrix



HIB-G1N  
OPTIONAL



HIB-G2N  
OPTIONAL



HIB-G1NL-L  
OPTIONAL



HIB-G2NL-L  
OPTIONAL

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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 large LCD hall indicator is capable of displaying visuals linked from car security camera.



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



G1K series



3mm

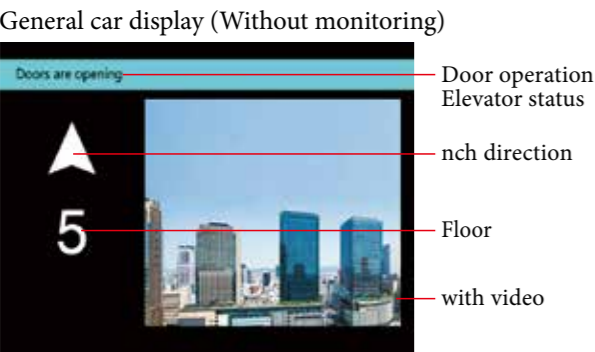
# Operation Systems

## Car Position Indicator

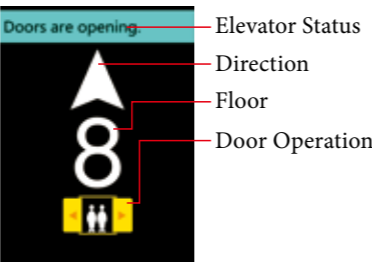
### Large LCD Indicator for Car Operation Panel OPTIONAL

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 display for car operation panel



8.4 inch display for car operation panel



General car display (With monitoring)



Display under controlled status



5.7 inch display for car operation panel



7.0 inch LCD segment



LED Dot matrix



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

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Functions

○ : STANDARD    △ : OPTIONAL

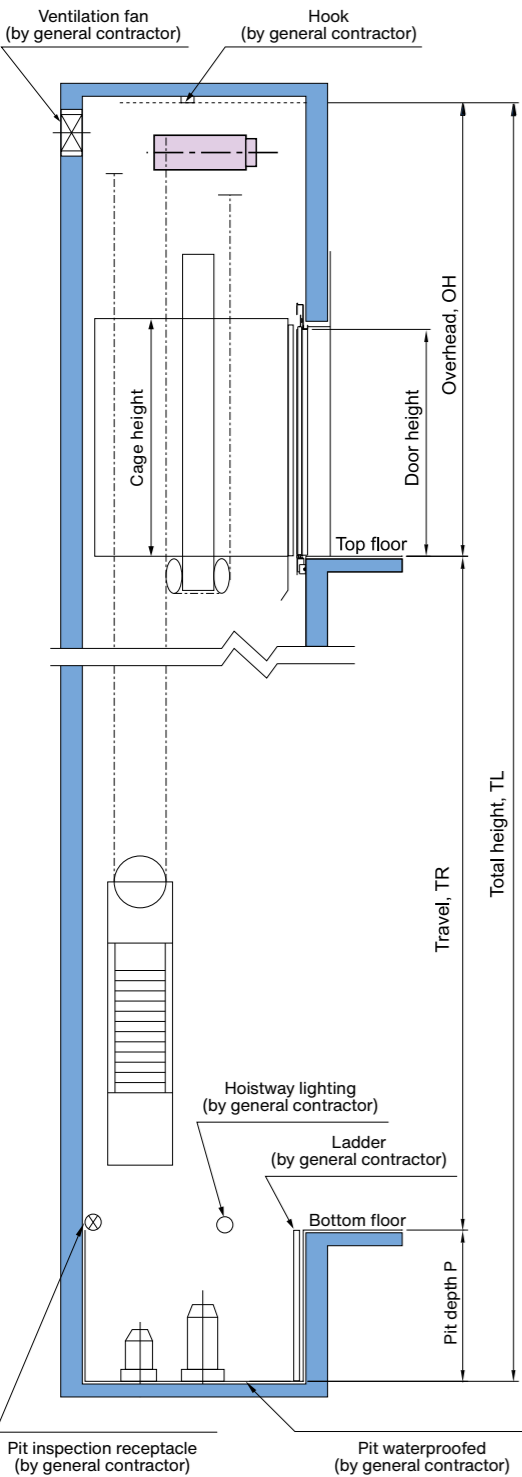
Functions	Notes	Descriptions	
Operations	Simplex selective-collective fully automatic operation	Fully automatic operation by hall and car calls for single car	○
	Duplex selective collective fully automatic operation (Note 1)	Fully automatic operation for 2 cars in the same group	△
	3 or 4-car group supervisory 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 cutt-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: Over 5 stops and in-car weight less than 150 kg.

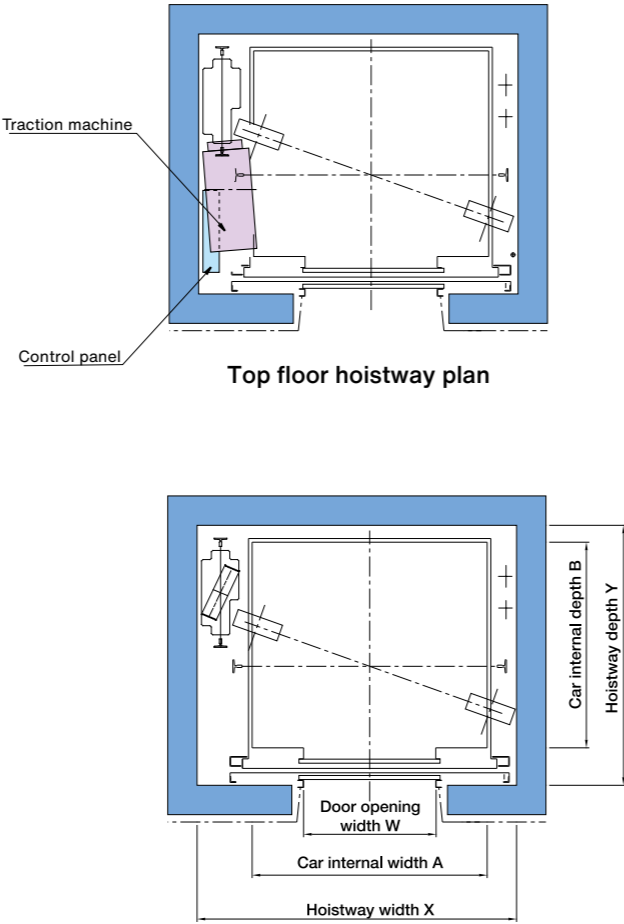
○ : STANDARD    △ : OPTIONAL

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



Typical floor hoistway plan (W, D)

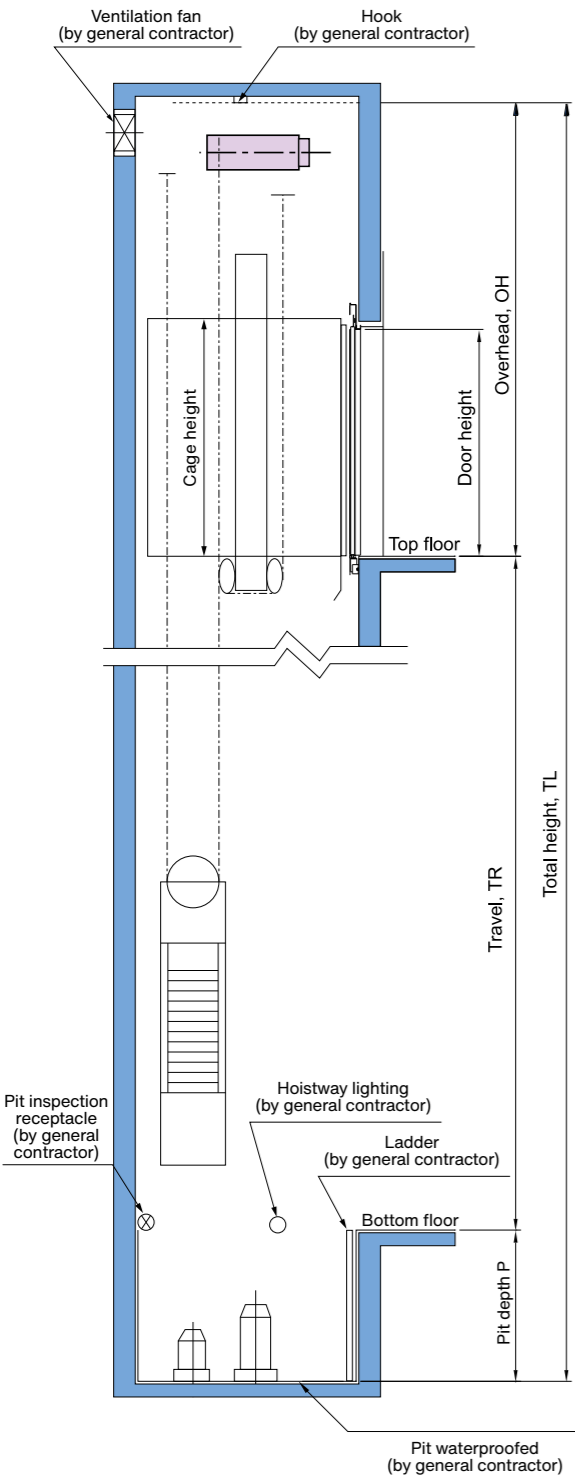
# Specifications

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 x B	Height	Width	Height		X×Y	OH	P			
P8-CO60	W	8	630	1	1400×1100	2300	800	2100	Side	2190 x 1670	3820	1350	3.6	40	80
	900			2290 x 1670											
P8-CO96	W			1.6			800			2190 x 1670	3970	1400	5.8		
	900			2290 x 1670											
P8-CO105	W			1.75			800			2190 x 1670	4020	1450	6.3		
	900			2290 x 1670											
P8-CO120	W	2	800	2190 x 1670	4220	1650	7.2								
	900	2290 x 1670													
P8-CO150	W	2.5	800	2190 x 1670	4270	2100	9.0								
	900	2290 x 1670													
P11-CO60	W	11	825	1	1400×1350	2300	800	2100	Side	2200 x 1780	3820	1350	4.7	40	80
	900			2300 x 1780											
P11-CO96	W			1.6			800			2200 x 1780	3970	1400	7.5		
	900			2300 x 1780											
P11-CO105	W			1.75			800			2200 x 1780	4020	1450	8.3		
	900			2300 x 1780											
P11-CO120	W	2	800	2200 x 1780	4220	1650	9.5								
	900	2300 x 1780													
P11-CO150	W	2.5	800	2200 x 1780	4270	2100	11.8								
	900	2300 x 1780													
P14-CO60	W	14	1050	1	1600×1400	2300	900	2100	Side	2400 x 1800	3820	1350	6.0	40	80
	1000			2500 x 1800											
	1100			2600 x 1800											
P14-CO96	W			1.6			900			2400 x 1800	3970	1400	9.7		
	1000			2500 x 1800											
	1100			2600 x 1800											
P14-CO105	W	1.75	900	2400 x 1800	4020	1450	10.5								
	1100	2600 x 1800													
P14-CO120	W	2	900	2400 x 1800	4220	1650	12.0								
	1000	2500 x 1800													
P14-CO150	W	2.5	900	2400 x 1800	4270	2100	15.0								
	1000	2500 x 1800													
	1100	2600 x 1800													

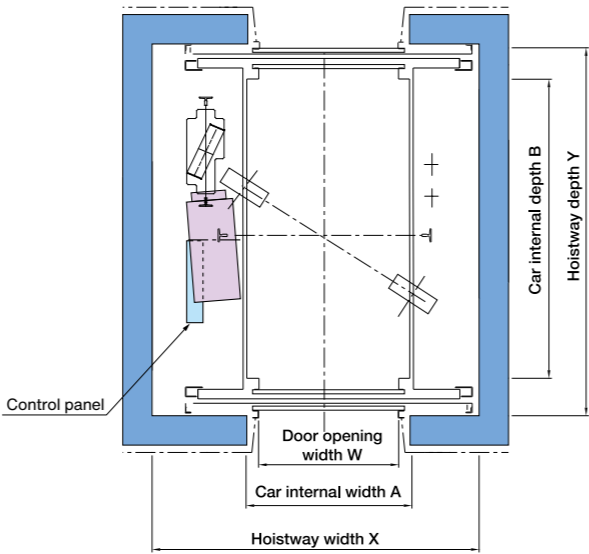
W: Wide car

- Note:**
- The above table complies with GB7588:2003 standards.
  - 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.

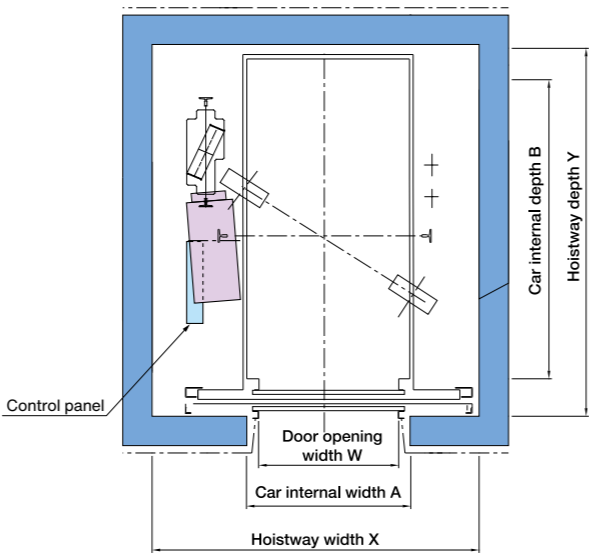
# Hoistway Layout



Hoistway section



Typical floor hoistway plan (D2)



Typical floor hoistway plan (D)

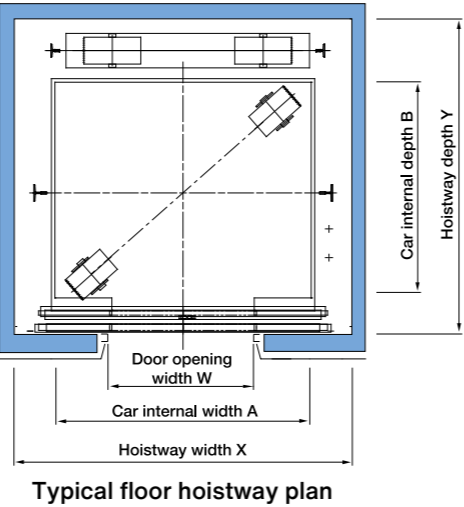
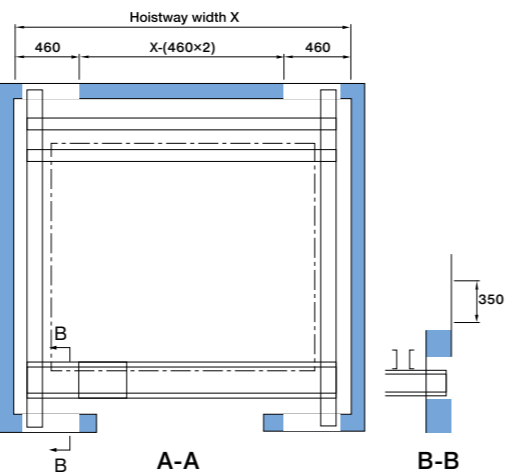
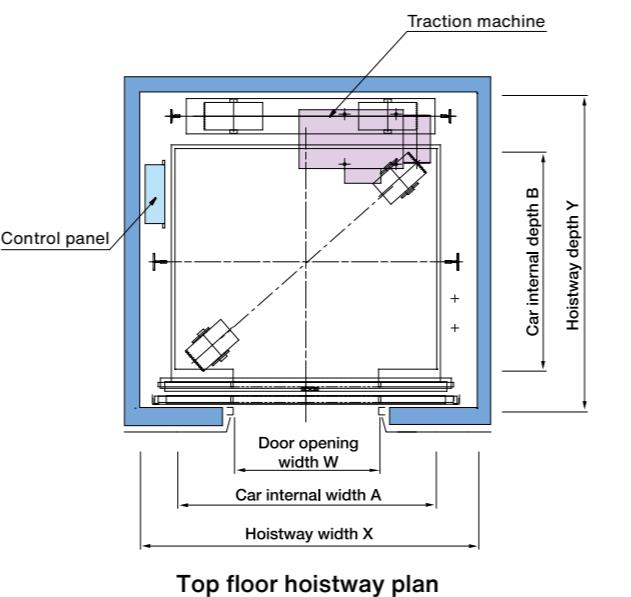
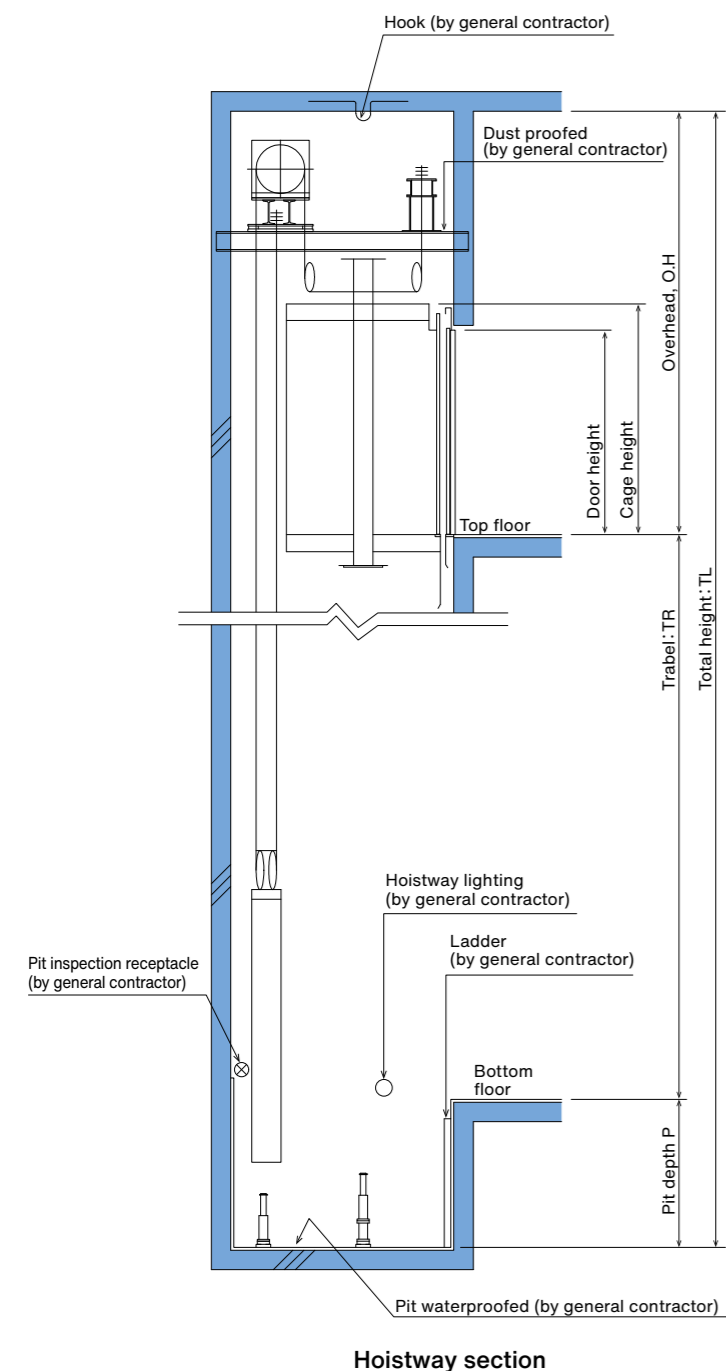
# Specifications

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 x B	Height	Width	Height		X×Y	OH	P								
P8-CO60	D	8	630	1	1100×1400	2300	800	2100	Side	1990 x 1760	3820	1350	3.6	40	80				
P8-CO96	D						900			2140 x 1760									
P8-CO105	D						1.6			800	1990 x 1760	3970	1400			5.8			
										900	2140 x 1760								
P8-CO120	D						1.75			800	1990 x 1760	4020	1450			6.3			
										900	2140 x 1760								
P8-CO150	D	2	800	1990 x 1760	4220	1650	7.2												
			900	2140 x 1760															
P11-CO60	D	11	825	1	1100×1700	2300	800	2100	Side	2000 x 2060	3820	1350	4.7	40	80				
							900			2140 x 2060									
							P11-CO96			D	1.6	800	2000 x 2170			3970	1400	7.5	40
												900	2140 x 2060						
							P11-CO105			D	1.75	800	2000 x 2170			4020	1450	8.3	40
												900	2140 x 2060						
P11-CO120	D	2	800	2000 x 2170	4220	1650	9.5	40											
			900	2140 x 2060					※										
P11-CO150	D	2.5	800	2000 x 2170	4270	2100	11.8	40											
			900	2140 x 2060					※										
			P14-CO60	D	1	800	2000 x 2170	4270		2100	11.8	40							
						900	2140 x 2060		※										
			P14-CO96	D	1.6	800	2000 x 2170	4270		2100	11.8	40							
						900	2140 x 2060		※										
P14-CO105	D	14	1050	1	1100×2100	2300	900	2100		Side	2140 x 2460	3820	1350	6.0	40	80			
							1000		2340 x 2460		3970						1400	9.7	
							P14-CO96		D			1.6	900	2140 x 2460					4020
											1000		2340 x 2460	※					
							P14-CO120		D		1.75	900	2140 x 2570				4220	1650	12.0
												1000	2340 x 2570	※					
P14-CO150	D	2	900	2140 x 2460	4270	2100	15.0	40											
			1000	2340 x 2460					※										
			P14-CO150	D	2.5	900	2140 x 2570	4270		2100	15.0	40							
						1000	2340 x 2570		※										

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

- Note:**
- The above table complies with GB7588:2003 standards.
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  - 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.
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# Hoistway Layout



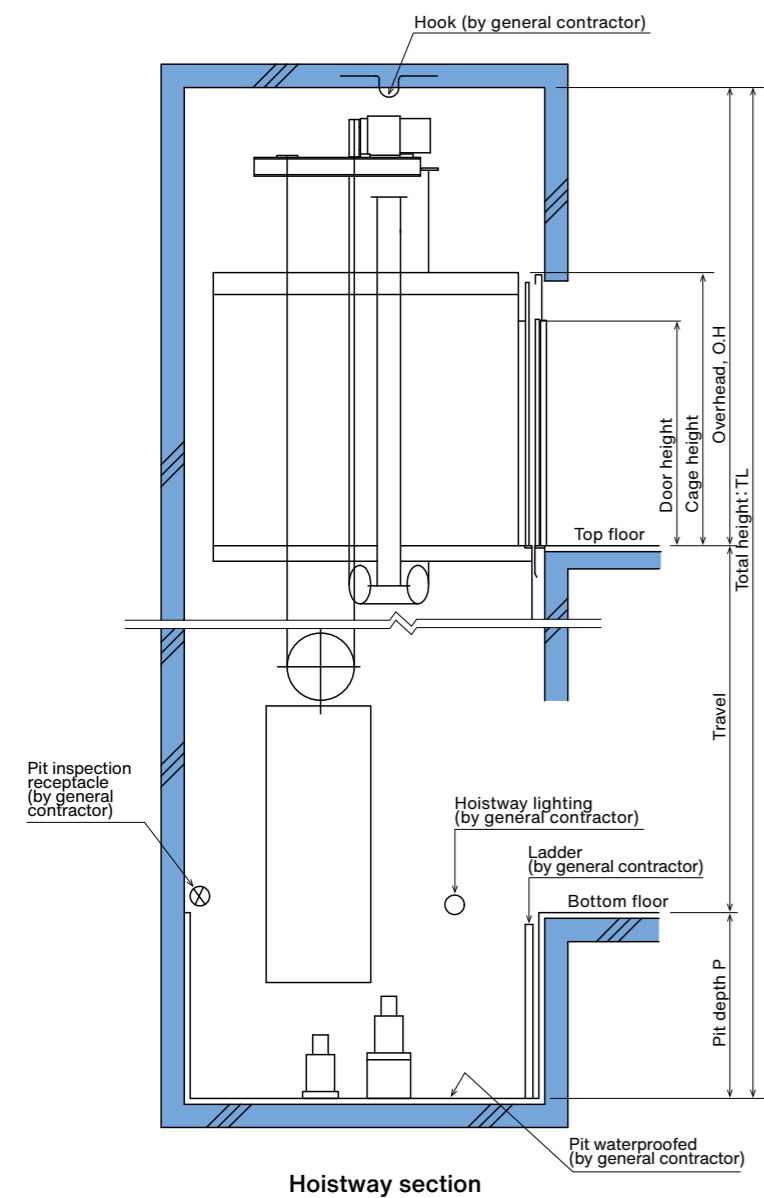
# Specifications

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)
				A x B	Height	Width	Height		X x Y	OH	P			
P15-CO60	W	15	1	1800x1500	2300	1000	2100	Rear	2450 x 2170	4280	1380	7.0	48	100
P15-CO96	W		1.6			1100			2550 x 2170	4450	1450	12.0		
P15-CO105	W		1.75			1000			2450 x 2170	4510	1480	12.0		
P15-CO120	W		2			1100			2550 x 2170	4600	1600	14.0		
P15-CO150	W		2.5			1000			2450 x 2170	4900	2000	18.0		
P18-CO60	W	18	1	2000x1500	2300	1100	2100	Rear	2650 x 2170	4280	1380	8.0	48	100
P18-CO96	W		1.6			1200			2750 x 2370	4450	1450	14.0		
P18-CO105	W		1.75			1100			2700 x 2370	4510	1480	14.0		
P18-CO120	W		2			1200			2750 x 2370	4600	1600	16.0		
P18-CO150	W		2.5			1100			2700 x 2370	4900	2000	20.0		
P21-CO60	W	21	1	2000x1700	2300	1100	2100	Rear	2700 x 2370	4280	1380	10.0	48	100
P21-CO96	W		1.6			1200			2750 x 2370	4450	1450	16.0		
P21-CO105	W		1.75			1100			2700 x 2370	4510	1480	18.0		
P21-CO120	W		2			1200			2750 x 2370	4600	1600	20.0		
P21-CO150	W		2.5			1100			2700 x 2370	4900	2000	24.0		
P24-CO60	W	24	1	2100x1750	2300	1200	2100	Rear	2800 x 2420	4280	1380	12.0	48	100
P24-CO96	W		1.6			1300			2900 x 2620	4450	1450	18.0		
P24-CO105	W		1.75			1200			2800 x 2420	4510	1480	20.0		
P24-CO120	W		2			1300			2900 x 2620	4600	1600	22.0		
P26-CO60	W	26	1	2100x1950	2300	1200	2100	Rear	2800 x 2620	4280	1380	12.0	48	100
P26-CO96	W		1.6			1300			2900 x 2620	4450	1450	20.0		
P26-CO105	W		1.75			1200			2800 x 2620	4510	1480	22.0		
P26-CO120	W		2			1300			2900 x 2620	4600	1600	24.0		

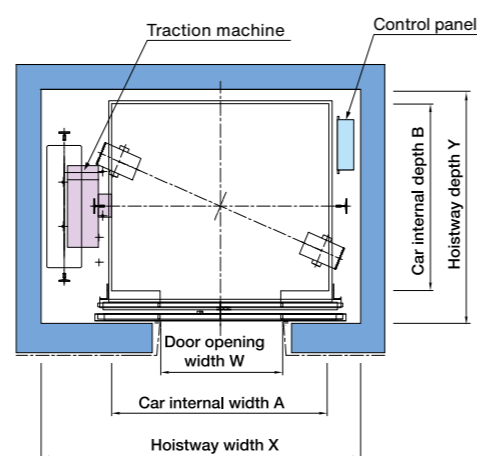
W: Wide car

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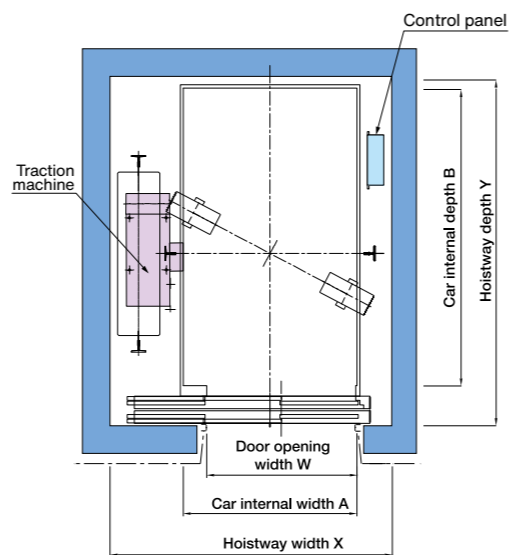
Hoistway Layout



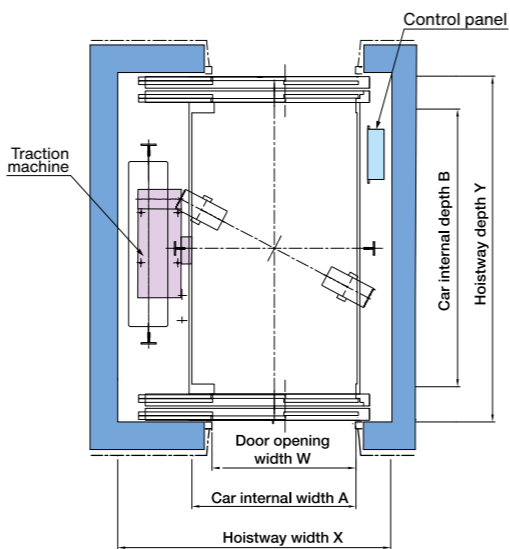
Hoistway section



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 x B	Height	Width	Height		X x Y	OH	P			
P15-CO60	W	15	1	1800 x 1500	2300	1000	2100	Side	2750 x 1870	3910	1350	7.0	48	100
P15-CO96	W		1.6			1100			2850 x 1870	4060	1450	12.0		
P15-CO105	W		1.75			1000			2750 x 1870	4120	1500	12.0		
P15-CO120	W		2			1100			2850 x 1870	4210	1650	14.0		
P15-CO150	W		2.5			1000			2750 x 1870	4460	2050	18.0		
P17-CO60	W	17	1	2000 x 1400	2300	1100	2100	Side	2950 x 1830	3910	1350	8.0	48	100
P17-CO96	W		1.6			1100			2950 x 1830	4060	1450	12.0		
P17-CO105	W		1.75			1100			2950 x 1830	4120	1500	14.0		
P17-CO120	W		2			1100			2950 x 1830	4210	1650	16.0		
P17-CO150	W		2.5			1100			2950 x 1830	4460	2050	20.0		
P18-CO60	W	18	1	2000 x 1500	2300	1100	2100	Side	2950 x 1870	3910	1350	8.0	48	100
P18-CO96	W		1.6			1100			2950 x 1870	4060	1450	14.0		
P18-CO105	W		1.75			1100			2950 x 1870	4120	1500	14.0		
P18-CO120	W		2			1100			2950 x 1870	4210	1650	16.0		
P18-CO150	W		2.5			1100			2950 x 1870	4460	2050	20.0		
P21-CO60	W	21	1	2000 x 1700	2300	1100	2100	Side	2980 x 2110	3910	1400	10.0	48	100
P21-CO96	W		1.6			1200			2980 x 2110	4060	1500	16.0		
P21-CO105	W		1.75			1100			2980 x 2110	4120	1550	18.0		
P21-CO120	W		2			1200			2980 x 2110	4210	1700	20.0		
P21-CO150	W		2.5			1200			2980 x 2110	4460	2100	24.0		
P24-CO60	W	24	1	2100 x 1750	2300	1200	2100	Side	3030 x 2130	3910	1400	12.0	48	100
P24-CO96	W		1.6			1200			3030 x 2130	4060	1500	18.0		
P24-CO105	W		1.75			1200			3030 x 2130	4120	1550	20.0		
P24-CO120	W		2			1200			3030 x 2130	4210	1700	22.0		
P26-CO60	W	26	1	2100 x 1950	2300	1200	2100	Side	3030 x 2310	3910	1400	12.0	48	100
P26-CO96	W		1.6			1200			3030 x 2310	4060	1500	20.0		
P26-CO105	W		1.75			1200			3030 x 2310	4120	1550	22.0		
P26-CO120	W		2			1200			3030 x 2310	4210	1700	24.0		
P17-2S60	D	17	1	1200 x 2300	2300	1100	2100	Side	2180 x 2760	3910	1350	8.0	48	100
P17-2S96	D		1.6			1100			2180 x 2760	4060	1450	12.0		
P17-2S105	D		1.75			1100			2180 x 2760	4120	1500	14.0		
P17-2S120	D		2			1100			2180 x 2760	4210	1650	16.0		
P17-2S150	D		2.5			1100			2180 x 2760	4460	2050	20.0		
P17-2S60	D2	17	1	1200 x 2200	2300	1100	2100	Side	2180 x 2870	3910	1350	8.0	※	100
P17-2S96	D2		1.6			1100			2180 x 2870	4060	1450	12.0		
P17-2S105	D2		1.75			1100			2180 x 2870	4120	1500	14.0		
P17-2S120	D2		2			1100			2180 x 2870	4210	1650	16.0		
P17-2S150	D2		2.5			1100			2180 x 2870	4460	2050	20.0		
P21-2S60	D	21	1	1400 x 2400	2300	1200	2100	Side	2380 x 2860	3910	1400	10.0	48	100
P21-2S96	D		1.6			1200			2380 x 2860	4060	1500	16.0		
P21-2S105	D		1.75			1200			2380 x 2860	4120	1550	18.0		
P21-2S120	D		2			1200			2380 x 2860	4210	1700	20.0		
P21-2S150	D		2.5			1200			2380 x 2860	4460	2100	24.0		
P21-2S60	D2	21	1	1400 x 2300	2300	1200	2100	Side	2380 x 2970	3910	1400	10.0	※	100
P21-2S96	D2		1.6			1200			2380 x 2970	4060	1500	16.0		
P21-2S105	D2		1.75			1200			2380 x 2970	4120	1550	18.0		
P21-2S120	D2		2			1200			2380 x 2970	4210	1700	20.0		
P21-2S150	D2		2.5			1200			2380 x 2970	4460	2100	24.0		

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

Note:

- The above table complies with GB7588:2003 standards.
- 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 jamps, 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  $40^{\circ}\text{C}$  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

# Global Network

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Together with our global partners, we connect with Asia and then the world, through our technology and our spirit.  
This planet is our shared heritage. We must live together, grow together and delight in one another.

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