3rd Edition

For GB standard

* Revised publication effective Jun. 2023

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/

GK-F207(3)-2306-500-2306(TD)

TOSHIBA

Toshiba Machine-room-less Elevators Standard Passenger Elevator

SPACEL-III

For GB standard

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

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-

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.

Range of application
8 ∼ 26 persons
630 ∼ 2000 kg
1.0 ~ 3.0 m/s

Note1: Applicable range of rated speed 3.0m/s are rated load 1150kg or more.

Rated speed (m/s)	3.0									
	2.5									
	2.0			ē			-]]]			
	1.75			7	VA.					
	1.5/1.6									
	1.0									
Rated I	oad (kg)	630	825	1050	1150	1275	1350	1600	1800	2000
Ту	/pe	P8	P11	P14	P15	P17	P18	P21	P24	P26



Contents

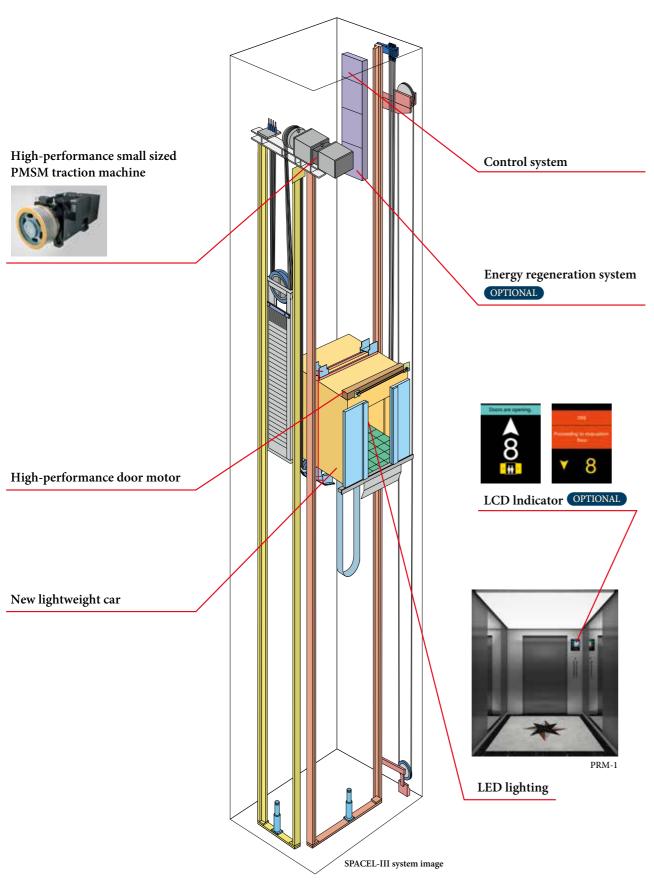
Concept of ELCOSMO-III
Technology New Technology Safety Function
Energy Saving & Environment
Energy Saving & Environment
Expansion of variations in car ceiling design
Car Design
RESIDENCE
HOTEL
SHOP
Hall Design
Hall Decoration Item Variation
Operation Systems
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Works by Others
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TECHNOLOGY



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.

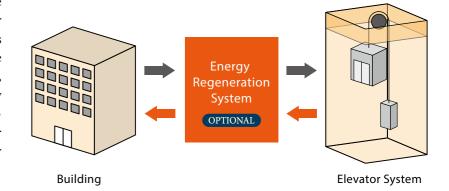


High Performance Control Systems

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).



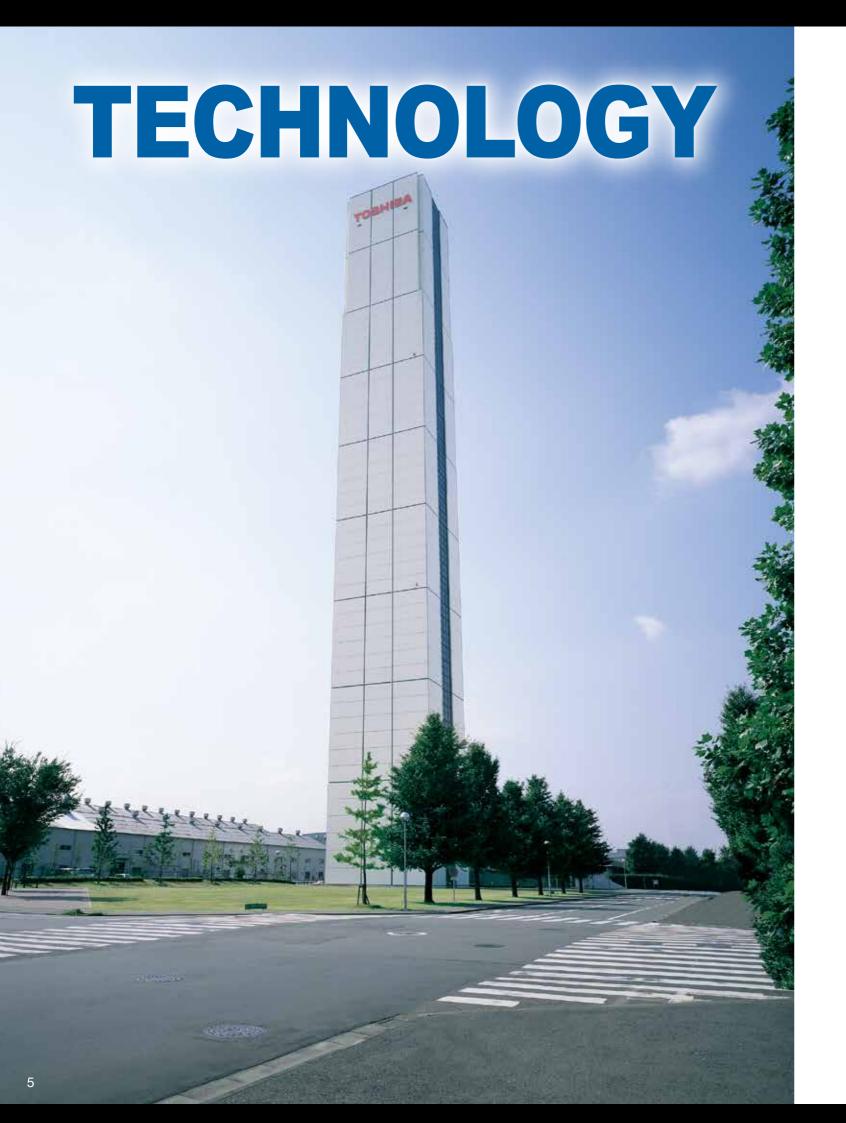
Use of Roller Guide OPTIONAL

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.



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



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 150 mm.

Ascending Car Overspeed Protection

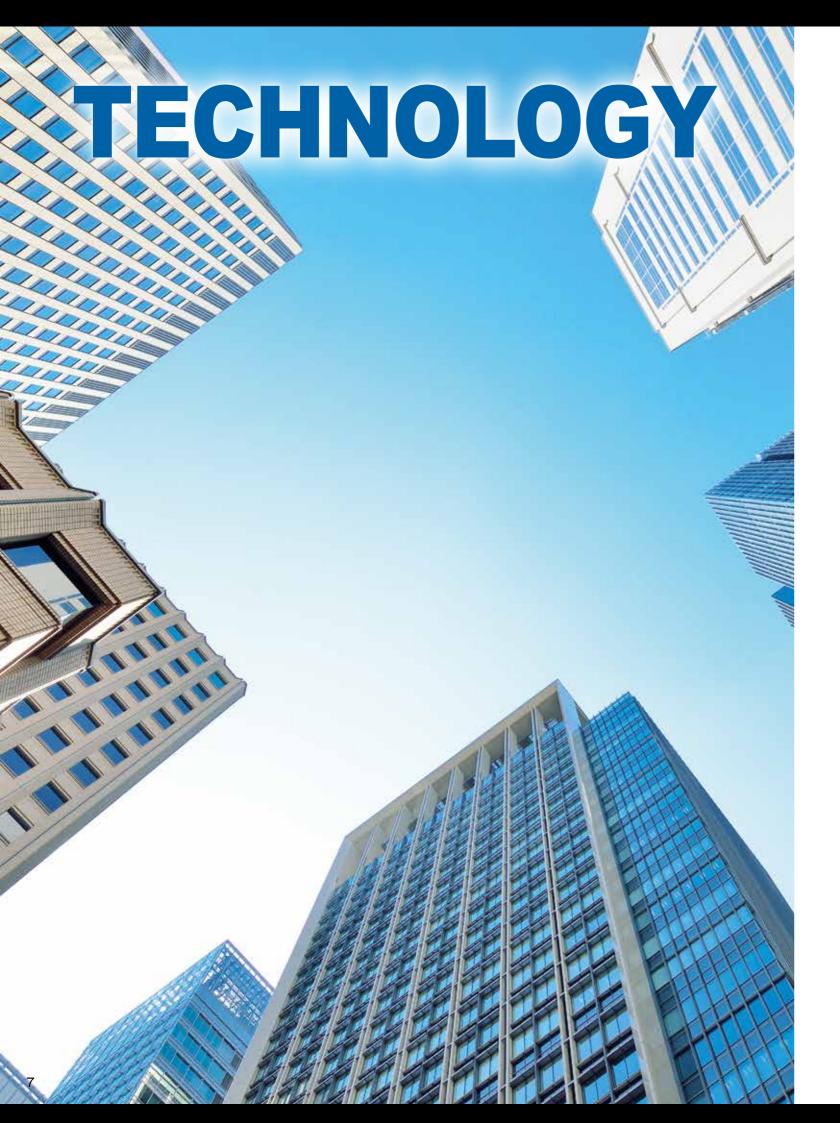
A device to prevent an elevator ascending to the elevator shaft top beyond the rated speed due to a device like an electromagnetic brake or control unit. It monitors the speed of the upper direction mechanically by a governor, then cut off the power supply and safety circuit by an overspeed detecting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

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

Full open Full open (Getting on)

* Image of Multi-beam Door Safety



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.)

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.

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.

Power failure detected.

0

The elevators stop

0

In each car, the "Power Failure" sign lights up and the in-car PA system instructs passengers with the following message: "Please get off this elevator as soon as the doors open."

0

The car goes to the nearest floor, and the doors open.

 \bigcirc

After a pre-set period, the doors are closed.

0

Normal operation resumes when power supply is back.

 $\ensuremath{\ensuremath{\%}}\xspace Above flow$ chart is representable example

Earthquake detected.

A seismic sensor triggers emergency operation

0

In each car, the "Earthquake" emergency sign lights up and the in-car PA system instructs passengers with the following message:

"Please get off this elevator as soon as the

0

The car goes to the nearest floor and the doors open.

Ω

After a pre-set period, the doors are closed.

XAbove flowchart is representable example

Fire

0

Fire Alarm is actuated.

In each car, the "Fire" emergency sign lights up and the in-car PA system instructs passengers with the following message:

"Please get off this elevator as soon as the

0

The car goes to the emergency exit floor, the doors open.

0

After a pre-set period, the doors are closed.

X 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 GALS DEVELOPMENT GALS

























Products and functions adopted to reduce power consumption

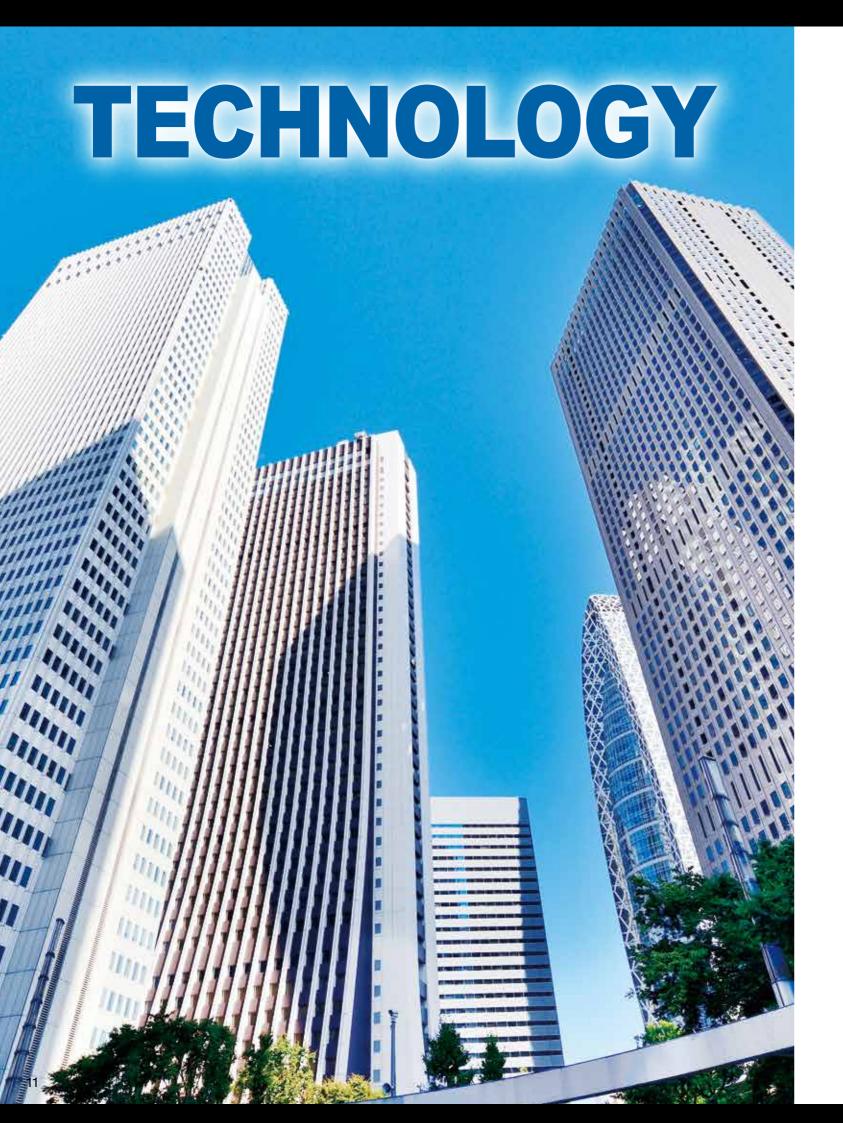
Suppress power consumption by reducing standby power, commercialization of the regenerative power function, adoption of LED lighting.

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



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]

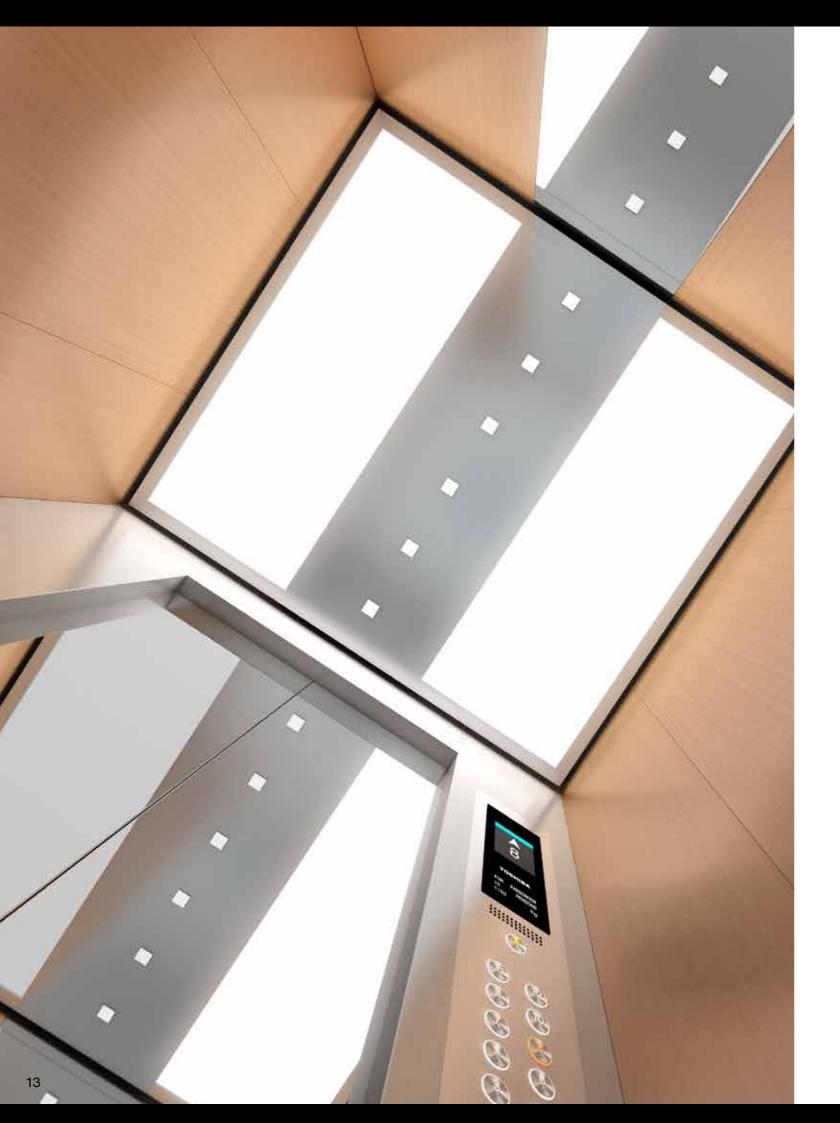
By changing the method of tying rope, the use of lead can be eliminated or reduced.

[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.



OFFICE

OPTIONAL

PRM-1

Front view



Back view



	PRM-1	
Ceiling design	Light shade (Ceiling entire surface)	
Car side panel (Return panel)	Vibration finish stainless steel	
Car side panel (Side panel)	Black color hairline finish stainless steel and Mirror 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 (JQ-1013)	
COP	POP-G1L-104C	
Button	KB-3A	
Indicator	10.4 inch Color LCD	
Remark	Applies to models with a capacity of 1150kg or more.	

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.

PRM-2



TL-S2



OPTIONAL DLC-1



SL-3X



RESIDENCE

OPTIONAL

DLX-27

Front view



Front side view



DLX-27 Hairline finish stainless steel (Central part: Mirror finish stainless steel)
Hairline finish stainless steel
Hairline finish stainless steel
Hairline finish stainless steel
Nil
Hairline finish stainless steel
Vinyl tile (MID809)
POP-G1NL
GS-6A-BT
LED segment
HCOP-G1D (Button: UB-1)

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.

DLX-25



TL-1



OPTIONAL DLX-21



SL-P1



The actual product colors may vary slightly from those printed colors in this catalog. Please consult our local distributor before adoption about the material and the color.



DLX-31

Front view



Back view



Ceiling design	DLX-31 Hairline finish stainless steel
Car side panel (Return panel)	Black color mirorr finish stainless steel
Car side panel (Side panel)	Black color mirorr finish stainless steel and Mirror etching finish stainless steel (DZ-008)
Car side panel (Rear panel)	Black color mirorr finish stainless steel and Mirror etching finish stainless steel (DZ-008)
Kick plate	Nil
Car door	Mirror etching finish stainless steel (DZ-008)
Car floor	Marble (JQ-1012)
COP	POP-G1L-57B
Indicator	5.7 inch Color LCD
Handrail	Nil

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.

DLX-24





DLC-1



SL-1





OPTIONAL

DLX-22

Front view



Back view



Ceiling design	DLX-22 Hairline finish stainless steel
Car side panel (Return panel)	Vibration finish stainless steel and Mirror 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
Kick plate	Nil
Car door	Mirror finish stainless steel
Car floor	Marble (JQ-1013)
COP	POP-G1L-57B
Button	KB-7B
Indicator	5.7 inch Color LCD

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.

SL-P1



DLX-28



OPTIONAL DLX-23



OPTIONAL TL-S1





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 6

Hall design 1 OPTIONAL

Hall jamb Wide inclined type

Vibration finish stainless steel Vibration finish stainless steel Hall Transon Hall Door Vibration finish stainless steel

Hall Indicator / HIB-G1L-43B

KB-1A Button HL-G1 Hall Lantern







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

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

Hall design 2 OPTIONAL

Hall jamb

Wide inclined type Mirror finish stainless steel

Hall Door Mirror etching finish stainless steel (DZ-018)

HI-G34-O **Hall Indicator** Hall Button HB-G1K KB-1B Button









Hall design 3 OPTIONAL

Hall jamb

Wide inclined type Hairline finish stainless steel

Hall Door Hairline finish stainless steel

Hall Indicator HI-G1 Hall Button HB-G1 Button

Other Hall Emergency Operationg Panel



HB-G1









1 1 A

Hall design 4 OPTIONAL

Hall Jamb Wide inclined type

Wide inclined type Hairline finish stainless steel

Hall Door Painted steel panel (77GS)

Hall Indicator / Hall Button

HIB-G1NL-O

Button GS-7B-B



HIB-G1NL-O





Hall design 5 OPTIONAL

Hall Jamb Nar

Narow type Hairline finish stainless steel

Hall Door Hairline etching finish stainless steel (DZ-007)

Hall Indicator/ Hall Button

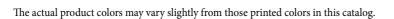
HIB-G1N-O

Button NB-1B



HIB-G1N-O





Hall design 6 STANDARD

Hall Jamb Narow typ

Narow type Painted steel panel (62YS)

Hall Door Painted steel panel (62YS)

Hall Indicator / Hall Button

/ HIB-G1NL-L-O

Button GS-7A-BT







Hall design 7 OPTIONAL

Hall jamb

Wide inclined type Hairline finish stainless steel

Hall Door

Hairline finish stainless steel

Hall IndicatorHI-G1L-57BHall ButtonHB-G1K







HI-G1L-57B







Car Operation Panel: G1NL series

※Note: Applicable to Wide Car type models

POP type



SL-P1



FCOP type





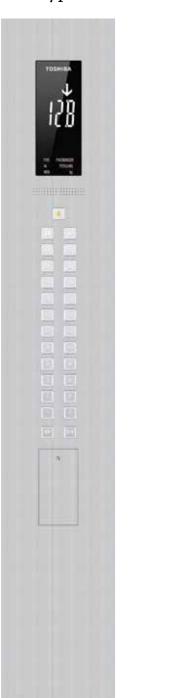
Button Line-up

GS-5-B	GS-5A-B	GS-5B-B
1		
GS-5-BT	GS-5A-BT	GS-5B-BT
1		
GS-5-W	GS-5A-W	GS-5B-W
GS-5-WT	GS-5A-WT	GS-5B-WT
GS-6-B	GS-6A-B	GS-6B-B
1	1	1
GS-6-BT	GS-6A-BT	GS-6B-BT
1	1	1
GS-6-W	GS-6A-W	GS-6B-W
*		*
GS-6-WT	GS-6A-WT	GS-6B-WT
		7
GS-7-B	GS-7A-B	GS-7B-B
4		4
GS-7-BT	GS-7A-BT	GS-7B-BT
4		4
GS-7-W	GS-7A-W	GS-7B-W
GS-7-WT	GS-7A-WT	GS-7B-WT
		1
UB-3	UB-3A	UB-3B
\uparrow	1	\uparrow

Car Operation Panel: G1NS series & Hall Indicator Button: G1NL series

*Note: Applicable to Wide Car type models

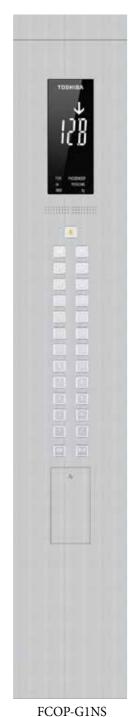
POP type



POP-G1NS

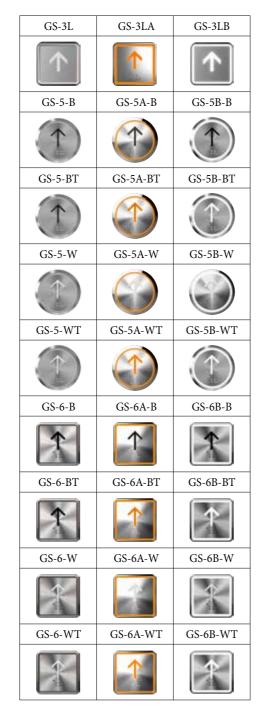
OPTIONAL

FCOP type



OPTIONAL

Button Line-up



LED Segment

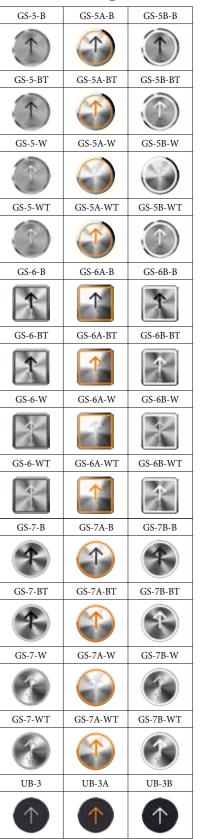


LED Dot Matrix

 $\mbox{\ensuremath{\%}}$ Note: A white color or orange color can also be selected for the LED light.



Button Line-up



Car Operation Panel: G1L series

*Note: Applicable to Wide Car type models

POP type



OPTIONAL

POP-G1L-84C POP-G1L-57B POP-G1L-70S POP-G1L OPTIONAL OPTIONAL

PRM-1



FCOP type





FCOP-G1L-57B

FCOP-G1L-70S

FCOP-G1L

FCOP-G1L-104C

1 00

Button Line-up



KB-8B

KB-8

KB-8A

Car Operation Panel & Hall Indicator Button: G1N series

 $\ensuremath{\ensuremath{\mathsf{W}}}$ Note: Applicable to Wide Car type models



COP-G1N OPTIONAL



COP-G1N-70S

Button Line-up

NB-1	NB-1A	NB-1B
*	*	1
NB-2	NB-2A	NB-2B
		4



HIB type

LCD Segment

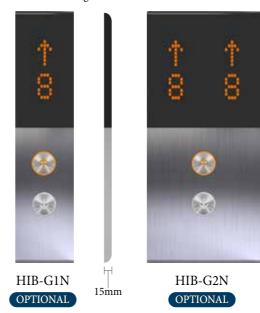


Button Line-up

NB-1	NB-1A	NB-1B
*		1
NB-2	NB-2A	NB-2B
		4

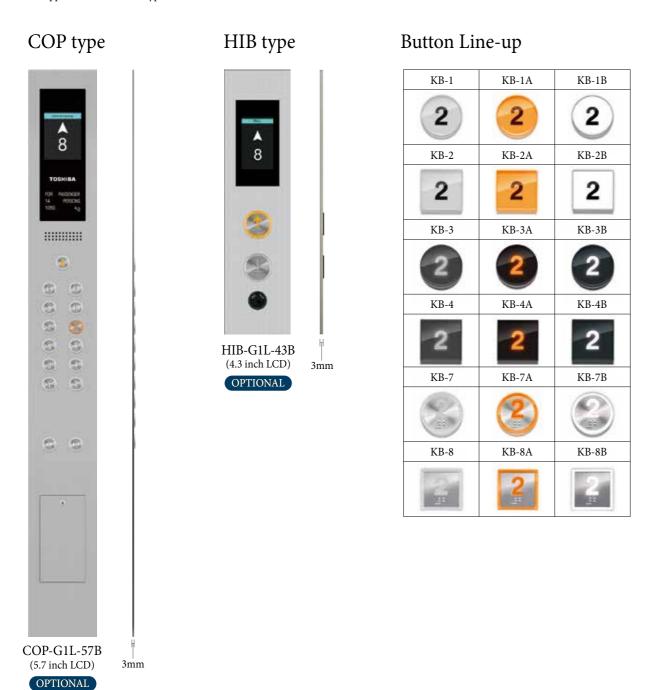
LED Dot Matrix

 $\mbox{\ensuremath{\%}}$ Note: A white color or orange color can also be selected for the LED light.



Car Operation Panel & Hall Indicator Button : G1L · G1K series

*Note: Applicable to Wide Car type models





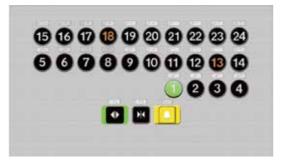


Car Operation Panel: HCOP series

*Note: Applicable to Wide Car type models

HCOP type





HCOP-G1D OPTIONAL

HCOP-G1D-N OPTIONAL



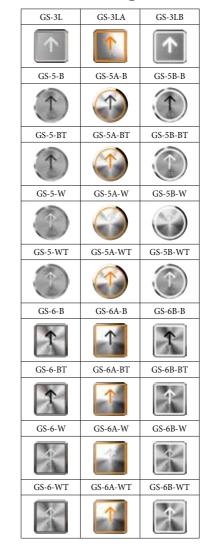
Button Line-up

UB-1	UB-1A	UB-1B
2	2	2
UB-2	UB-2A	UB-2B
2	2	2



HCOP-G1NS-N OPTIONAL

Button Line-up





HCOP-G1K-N OPTIONAL

Button Line-up

		1
KB-1	KB-1A	KB-1B
2	2	2
KB-2	KB-2A	KB-2B
2	2	2
KB-3	KB-3A	KB-3B
2	2	2
KB-4	KB-4A	KB-4B
2	2	2
KB-7	KB-7A	KB-7B
8	3	2
KB-8	KB-8A	KB-8B
	2	2

Hall Button OPTIONAL





Button Line-up

NB-1	NB-1A	NB-1B
X		4
NB-2	NB-2A	NB-2B
X		4
GS-3L	GS-3LA	GS-3LB
$ \uparrow\rangle$		1

Button Line-up

KB-1	KB-1A	KB-1B
2	2	2
KB-2	KB-2A	KB-2B
2	2	2
KB-3	KB-3A	KB-3B
2	2	2
KB-4	KB-4A	KB-4B
2	2	2
KB-7	KB-7A	KB-7B
	3	2
KB-8	KB-8A	KB-8B
E	2	2

Hall Lantern

Hall Lantern OPTIONAL



 $\ensuremath{\mathrm{\%}}$ 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 Indicator

Hall Indicator OPTIONAL

LED Dot matrix

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





HI-G1-O

HI-G34-O

LCD Hall Indicator OPTIONAL

5.7 inch Color LCD



With monitoring



Controlled status



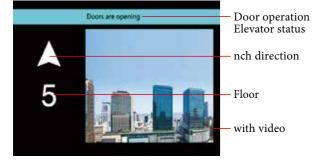
Car Position Indicator

Large LCD Indicator for Car Operation Panel OPTIONAL

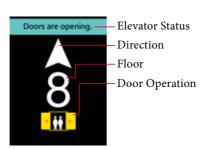
These 10.4 inch and 8.4 inch LCD indicators are capable of displaying in the elevator's various conditions (emergency operations, maintenance status) in large icons and letter in highly visible colors.

10.4 inch Color LCD

General car display (Without monitoring)



8.4 inch Color LCD



General car display (With monitoring)



A 8

Doors are opening.

A With monitoring



Display under controlled status





5.7 inch Color LCD

General car display





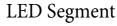
With video

Formulas is assistant

Controlled status

LCD Segment







LED Dot matrix



Functions

 \bigcirc : STANDARD \triangle : OPTIONAL

Functions	Notes	Descriptions						
	Simplex selective-collective fully automatic operation	Fully automatic operation by hall and car calls for single car	0					
	Duplex selective collective fully automatic operation (Note 1)	Fully automatic operation for 2 cars in the same group	Δ					
	3 or 4-car group supervisory control system (Note 1)	Fully automatic operation for 3 or 4 cars in the same group	Δ					
Operations	Group supervisory control system	For supervisory operation of groups of more than 4 cars, please contact us	Δ					
	FLOORNAVI	Destination Control System	Δ					
	Independent operation	Lift car separated from group control operation and responde to car call only	Δ					
	Attendant operation	Operation by attendant by switch & button provided at service cabinet in COP	Δ					
	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	0					
	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.	0					
	Car inspection operation [INS]	During car inspection operation, the lift car will run at slowly speed without responding to hall call	0					
	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	Δ					
	Fire emergency operation	In the event of fire, all lifts will return to the designated floor and stop operation to allow passengers to exit	Δ					
Safety	Emergency operation indication at COP	In the event of an emergency, the emergency operation status will be displayed at COP						
Functions	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	0					
	Emergency call button	A button for passenger to make an emergency call when they are trapped inside the lift	0					
	Door open when lift car is overloaded	The doors will re-open when over load is detected, even during the closing of doors.	0					
	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	Δ					
	2 in 1 door safety [Multi-beam door safety + Mechanical door safety]	A combination of multi-beam door safety and mechanical door safety	0					
0	Home landing	To reduce passenger waiting time, the lift will return to the designated floor and stand by	Δ					
Service Functions	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 complection.	Δ					

- Notes

 1: Not applicable to lift car with through door.

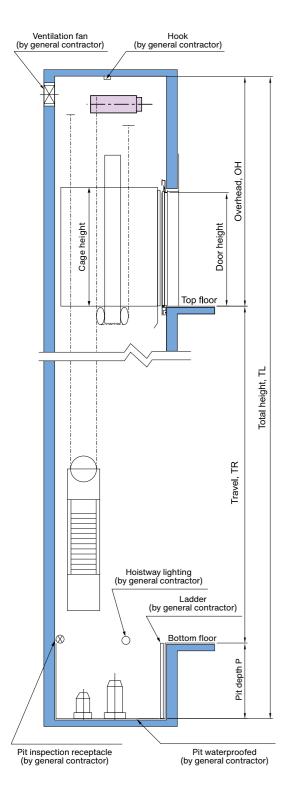
 2: Fire emergency operation and fireman service cannnot be applied simultaneously.

 3: Standard function for 2-car operation or 3-car operation.

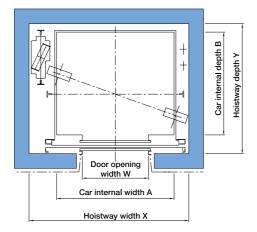
 4: Car load is less than 150kg and there are five or more registered car calls.

 \bigcirc : STANDARD \triangle : OPTIONAL

Functions	Notes	Descriptions						
	Service floor cut-off selection [Manual]	linstalling 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.	Δ					
	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	0					
	Car call cancellation	The floor call can be cancelled from the COP by pressing the floor button twice within 3 second	0					
	Nuisance call cancellation (Note 4)	Incorrect or nuisance floor calls can be cancelled to eliminate unnecessary operation	0					
	Door repeated opening	When an obstacle is detected, the door will repeatedly open and close until the obstacle is removed	0					
	Car indicator	Car indicator with the car operating panel	0					
	Adjustable door opening time	Adjusts the door opening time to reflect building usage	0					
	Door open extension button	Extends the door opening time	Δ					
	Car chime	A chime installed in the car ceiling will sound when the lift arrives	Δ					
	Hall chime	A chime installed in the lift lobby will sound when the lift arrives	Δ					
	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						
Service Functions	Sub car operating panel	Additional car operating panel						
Tanoaono	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 auotmatically						
	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	0					
	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	0					
	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	0					
	Nuisance call cancellation at reversal	Cancel intentionally registered nuisance calls automatically in the reversal travel direction	0					
	Multi-channel intercom	The intercom system can communicate with multi-stations simultaneously	0					
	Designated floor stop operation	Automatically stops the lift at the designated floor for crime prevention purposes	Δ					
	Card access system	Allows activation of the disnated floor call by IC card & Card Access System by others	Δ					
	Speech synthesizer	Announces car operations						
	Supervisory panel	Located in the building control room, etc. to monitor the status and control of each lift	Δ					



Traction machine Control panel



Top floor hoistway plan

Typical floor hoistway plan (W, D)

Hoistway section

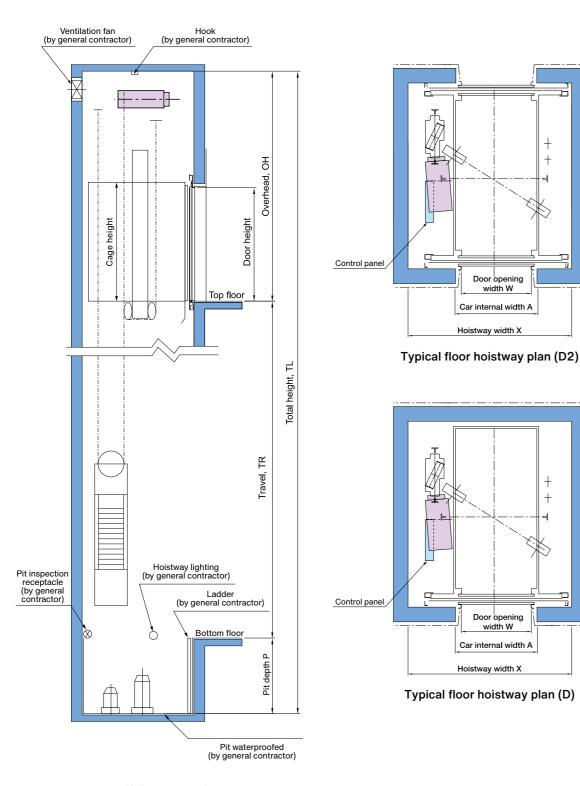
Specifications

Туре		Nos.of	Capacity	Speed	Cage s Internal(ntrance nm)	C/W	Hoistway	size(m	m)	Max. Service	Max. Travel
		Person	(kg)	(m/s)	A×B	Height	Width	Height		X×Y	ОН	Р	Stops(s)	(m)
P8-CO60	w			1			800 900			2190×1670 2290×1670	3820	1350		80
P8-CO96	w			1.6			800 900			2190×1670 2290×1670	3970	1400		
P8-CO105	w	8	630	1.75	1400×1100	2300	800 900	2100	Side	2190×1670 2290×1670	4020	1450	40	100
P8-CO120	w			2			800 900			2190×1670 2290×1670	4220	1650		100
P8-CO150	w			2.5			800 900			2190×1670 2290×1670	4270	2100		
P11-CO60	w			1			800 900			2200×1780 2300×1780	3820	1350		80
P11-CO96	w			1.6			800 900			2200×1780 2300×1780	3970	1400		
P11-CO105	w	11	825	1.75	1400×1350	2300	800 900	2100	Side	2200×1780 2300×1780	4020	1450	40	100
P11-CO120	w			2			800 900			2200×1780 2300×1780	4220	1650		.00
P11-CO150	w			2.5			800 900			2200×1780 2300×1780	4270	2100		
P14-C060	w			1			900 1000 1100			2400×1800 2500×1800 2600×1800	3820	1350		80
P14-CO96	w			1.6			900 1000 1100			2400×1800 2500×1800 2600×1800	3970	1400		
P14-CO105	w	14	1050	1.75	1600×1400	2300	900 1000 1100	2100	Side	2400×1800 2500×1800 2600×1800	4020	1450	40	
P14-CO120	w			2			900 1000 1100			2400×1800 2500×1800 2600×1800	4220	1650		100
P14-CO150	w			2.5			900 1000 1100			2400×1800 2500×1800 2600×1800	4270	2100		

W: Wide car

- 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.



Door opening

Hoistway section

Specifications

Туре		Nos.of	Capacity	Speed	Cage s Internal(size mm)		ntrance im)	C/W	Hoistway	size(m	m)	Max. Service	Max. Travel			
71		Person	(kg)	(m/s)	A×B	Height	Width	Height		X×Y	ОН	Р	Stops(s)				
D0 0000	_			_			800			1990×1760	3820	1350		80			
P8-CO60	D			1			900			2140×1760	3020	1330		00			
P8-CO96	D			1.6			800			1990×1760	3970	1400					
F6-C090				1.0			900			2140×1760	3370	1400					
P8-CO105	D	8	630	1.75	1100×1400	2300	800	2100	Side	1990×1760	4020	1450	40				
1 0 00 100		0	030	1.70	1100~1400	2300	900	2100	Side	2140×1760	.020		40	100			
P8-CO120	D			2			800			1990×1760	4220	1650					
							900						2140×1760				
P8-CO150	D			2.5			800			1990×1760	4270	2100					
							900			2140×1760							
	D					800				2000×2060			40				
P11-CO60				1			900 800			2140×2060 2000×2170	3820	1350		80			
	D2						900			2140×2170			*				
	\vdash				-		800			2000×2060							
	D						900			2140×2060			40				
P11-CO96				1.6			800			2000×2170	3970	1400					
	D2						900			2140×2170			*				
		1			1		800			2000×2060			40				
P11-CO105	D	44	005	4 75	1100×1700	2300	900	2100	.	2140×2060	4000	1450	40				
P11-C0105	D2	- 11	825	1.75	1100~1700	2300	800	2100	Side	2000×2170	4020	1450	*	100			
	D2						900			2140×2170			*				
	D						800				2000×2060			40	100		
P11-CO120				2			900			2140×2060	4220	1650	1 1				
	D2			_			800			2000×2170			*				
							900			2140×2170							
	D						800			2000×2060			40				
P11-CO150		_ !		2.5			900					2140×2060	4270	2100			
	D2						800 900		2000×2170 2140×2170	- 2.00	-	-	*				
							800			2000×2460							
	D						900			2140×2460			40				
P14-CO60	\vdash			1			800			2000×2570	3820	1350		80			
	D2						900			2140×2570			*				
					1		800			2000×2460							
D44 COOC	D			4.0			900			2140×2460	0070	4400	40				
P14-CO96	- DO			1.6			800			2000×2570	3970	1400	*				
	D2						900			2140×2570			*				
	D						800			2000×2460			40				
P14-CO105	U	14	1050	1.75	1100×2100	2300	900	2100	Side	2140×2460	4020	1450	40				
	D2	1-7	1000	1.75	1100-2100	2000	800	2100	Side	2000×2570	1020	1700	*				
							900			2140×2570			^	100			
	D						800			2000×2460			40	100			
P14-CO120	$\vdash \vdash \vdash$			2			900			2140×2460	4220	1650					
	D2			-			800	1		2000×2570			*				
							900			2140×2570				-			
	D						800 900			2000×2460			40				
P14-CO150				2.5		-	800			2140×2460 2000×2570	4270	2100					
	D2						900	\dashv		2140×2570			*				
							_ 550			2170~2010							

- 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.

Hook (by general contractor) Traction machine Control panel Door opening Car internal width A Hoistway width X Top floor hoistway plan 460 Hoistway lighting (by general contractor) Ladder (by general contractor) Pit inspection receptacle (by general contractor) B-B A-A Pit waterproofed (by general contractor) Hoistway section Door opening Car internal width A Hoistway width X

Typical floor hoistway plan

Specifications

PEIS-CO06 W PIS-CO16 W	Type		Nos.of Person	Capacity	Speed	Cage s Internal(ntrance nm)	C/W	Hoistway	size(m	m)	Max. Service	Max. Travel
PIS-CO06 W PIS-CO16 W PIS-			Person	(kg)		A×B	Height	Width	Height		X×Y	ОН	Р		
P15-CO16 W	D15 CO60	۱۸/			4			1000			2450×2170	4000	4200		00
PIS-CO16 W	P 15-CO00	VV			1			1100			2550×2170	4280	1380		80
P15-CO100 W	D15 CO06	١٨/			4.0			1000			2450×2170	4450	1450		
PIS-CO165 W 15	F 15-CO90	VV			1.0			1100			2550×2170	4450	1450		
P15-CO120 W	D15 CO105	\ _{\\\}			1 75			1000			2450×2170	4510	1/180		
P15-CO120 W	1 13-00103	**	15	1150	1.75	1800×1500	2300	1100	2100	Rear	2550×2170	4510	1400	48	100
P15-CO150 W	P15_C0120	$ _{w} $		1100	2	1000**1000	2000	1000	2100	rtoui	2450×2170	4600	1600		100
P15-CO150 W P16-CO180 W P18-CO60 W P18-CO150 W P18-CO150 W P18-CO160 W P18-CO1	1 10-00120	**			2			1100			2550×2170	4000	1000		
P15-CO100 W	P15-C0150	$ _{w} $			25			1000			2450×2170	4900	2000		
PRISCORD W	1 10-00100	**			2.5			1100			2550×2170	4500	2000		
P18-CO60 W P18-CO105 W P18-CO1	P15-C0180	$ _{w} $			3			1000			2600×2170	5350	2500		150
P18-C0105 W P18-C0	1 10 00 100				3			1100			2700×2170		2000		100
P18-C0105 W P18-C0100 W P18-C0	P18-C060	W			1										80
P18-C0120 W P18-C0180 W P21-C096 W P21-C096 W P21-C0105 W P21-C0105 W P21-C0105 W P21-C0105 W P21-C0100 W P21-C0180 W P21-C018	P18-CO96	W					2300								
P18-C0120 W P18-C0180 W	P18-CO105	-	18	1350		2000×1500		1100	2100	Rear	2650×2170			48	100
P21-C060 W 21 1600 1.75 2000×1700 2300 1200 2100 Rear 2750×2370 4280 1380 80 80 921-C0150 W 21 1600 2 2000×1700 2300 1200 1200 1200 1200 1200 1200 12		W	10	1000				1100	1100 2100					40	
P21-C060 W P21-C096 W P21-C0105 W P21-C0105 W P21-C0105 W P21-C0105 W P21-C0100 W P21-C010	P18-CO150	\vdash													
P21-C096 W P21-C0105 W P21-C0105 W P21-C0120 W P21-C0120 W P21-C0180 W P21-C0180 W P24-C0180 W P24-C0150 W P25-C0150 W P25-C0150 W P26-C0150 W P26-C01	P18-CO180	W			3							5350	2500		150
P21-C0105 W 21	P21-CO60	w			1							4280	1380		80
P21-C0105 W 21						- 2000×1700			- 2100 F						
P21-C0120 W 21	P21-CO96	w			1.6							4450	1450		
P21-C0120 W 21 1600							2300			Rear		-			100
P21-C0120 W	P21-CO105	w			1.75							4510	1480	48	
P21-C0150 W			21	1600											
P21-C0150 W 2.5 1100 1200 2750×2370 4900 2000 2750×2370 2850×2370 2850×2370 2900×2370 5350 2500 150 2850×2370 2900×2370	P21-CO120	w			2				-			4600	1600		
P21-C0180 W		\vdash					-							-	
P21-CO180 W 3	P21-CO150	w			2.5							4900	2000		
P24-C0180 W 24 1800 1100 2900×2370 5350 2500 150 P24-C096 W P24-C0105 W 24 1800 2 200×1750 2300 1200 2100 Rear 2800×2420 4280 1380 48 100 P24-C0180 W 24 1800 2 2.5 P24-C0180 W 24 1800 2 2.5 P24-C0180 W 25 2.5 P24-C0180 W 26 2000 1.75 P26-C0180 W 26 2000 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2									-					-	
P24-C060 W P24-C0105 W P24-C0100 W P26-C060 W P26-C0100 W P26-C010	P21-CO180	w			3				1			5350	2500		150
P24-C096 W P24-C0105 W P26-C006 W P26-C0105 W	D34 CO60	۱۸/			1			1200			2900^2370	1200	1200		90
P24-C0105 W P26-C006 W P26-C0105 W P26-C01		-												-	00
P24-C0120 W P24-C0150 W P24-C0150 W P24-C0150 W P26-C0150 W P26-C0		\vdash									2800×2420			-	
P24-C0150 W 2.5 2500 2950×2420 5350 2500 296-C0150 W 26 2000 1.75 2 2100×1950 2300 1200 2100 Rear 2800×2620 4900 2000 48 100 2000 2000 2000 2000 2000 2000 2000		-	24	1800		2100×1750	2300	1200	2100	Rear				48	100
P24-C0180 W 3 2950×2420 5350 2500 P26-C060 W 1 1.6 P26-C0105 W 26 2000 1.75 2 2100×1950 2300 1200 P26-C0150 W 275-C0150 W 275-														-	
P26-C060 W 1 1 1 80 80 P26-C0105 W 26 2000 1.75 2 1100×1950 2300 1200 P26-C0150 W 27 2 2 2 2 5 2 2 2 2 2 2 2 2 2 2 2 2 2		\vdash	1								2950×2420				
P26-C096 W															80
P26-C0105 W 26 2000 1.75 2100×1950 2300 1200 2100 Rear 2800×2620 4510 1480 48 100 P26-C0150 W 25 2 25	P26-CO96	-	26											0 48	- 00
P26-CO150 W 26 2000 2 2100×1950 2300 1200 2100 Rear 4600 1600 48 100 26-CO150 W 25 25		\vdash				2100×1950					2800×2620				
P26_C0150 W 2.5		\vdash		2000	2		2100×1950 2300	1200 2100	2100	Rear					100
2050 2050 2000 2000 2000 2000 2000 2000	P26-CO150	\vdash											⊣ I		
P26-CO180 W 3 3 2930×2020 5350 2500 150	P26-CO180	-									2950×2620				150

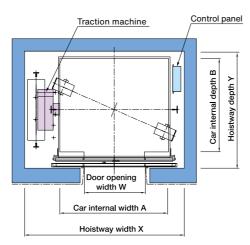
W: Wide car

Note:

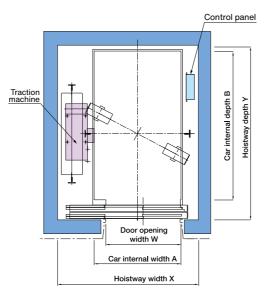
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- If the location of Power source panel, Control panel and Electric power supply are changed. Please consult our local distributor.

Hook (by general contractor) Hoistway lighting (by general contractor) Ladder (by general contractor) Pit waterproofed (by general contractor) Hoistway section

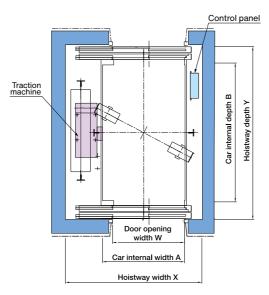
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Typical floor hoistway plan (W)



Typical floor hoistway plan (D)



Typical floor hoistway plan (D2)

Specifications

PHS-CO60 W	Туре		Nos.of	Capacity	Speed	Cage s Internal(ntrance m)	C/W	Hoistway	size(m	m)	Max. Service	Max. Travel
PISCO105	1,100		Person	(kg)	(m/s)						X×Y	ОН	Р		
PISCO105 W	P15-CO60	w			1							3810	1350		80
PIS-CO105 W	P15-CO96	w			1.6			1000			2750×1870	3960	1450		
PISCO150 W	P15-CO105	w			1.75			1000			2750×1870	4020	1500		
PIS-CO190 W PIS-CO	P15-CO120	w	15	1150	2	1800×1500	2300	1000	2100	Side	2750×1870	4110	1650	48	100
PISCO180 W	P15-CO150	w			2.5			1000			2750×1870	4410	2050		
PIT/CO166 W	P15-CO180	w			3			1000			2850×1870	4880	2900		150
Pit/Cotion W	P17-CO60	W			1							3810	1350		80
Pit/Cotion W					1.6]	
PT/CO150 W		-	17	1275		2000×1400	2300	1100	2100	Side	2950×1830			48	100
PITCO180 W PIBCO606 W PIBC		-	.,	1270		2000**1400	2000	1100	2100	0.00				~	100
PIS-CO09 W PIS-CO105 W 18		-													
PIS-CO16 W 18		$\overline{}$									3100×1830				
PR-6C-0150 W 18		-													80
PIS-CO120 W 18		-													
PIB-CO150 W PIB-CO160		-	18	1350		2000×1500	2300	1100	2100	Side	2950×1870			48	100
PR-00-100 W PR-00-100		$\overline{}$													
PZI-CO06 W PZI-CO06 W PZI-CO06 W PZI-CO06 W PZI-CO06 W PZI-CO06 W PZI-CO07 W PZI-											0400-4070				450
PZI-CO00 W	P18-CO180	VV			3			4400				4880	2900		150
PZI-CO105 W PZI-CO105	P21-CO60	W			1			1200			3080×2110	3810	1400		80
PZI-CO120 W	P21-CO96	W			1.6			1200			3080×2110	3960	1500		
P21-CO120 W P21-CO150 W P21-CO160	P21-CO105	W	21	1600	1.75	2000×1700	2300	1200	2100	Side	3080×2110	4020	1550	48	100
PZI-CO180 W PZI-CO180	P21-CO120	W			2			1200			3080×2110	4110	1700		.00
P24-CO160 W P24-CO160 W P24-CO165 W P24-CO165 W P24-CO165 W P24-CO165 W P24-CO160 W P24-CO180 W P26-CO180	P21-CO150	W			2.5			1200			3080×2110	4410	2100		
P24-C0105 W P26-C0105	P21-CO180														
P24-C0105 W P24-C0120 W P24-C0120 W P24-C0150 W P24-C0150 W P24-C0150 W P24-C0150 W P24-C0160 W P26-C0105 W P26-C0105 W P26-C0105 W P26-C0105 W P26-C0105 W P26-C0150		-											_		80
P24-CO150 W P24-CO150 W P24-CO150 W P24-CO150 W P26-CO160 W P26-CO105		-									3030×2130		_		
P24-C0150 W P26-C0160 W P26-C096 W P26-C0150 W P26-C0150 W P26-C0150 W P26-C0150 W P26-C0150 W P26-C0150 W P26-C0180 W P17-2596 D P17-25150 D		-	24	1800		2100×1750	2300	1200	2100	Side				48	100
P24CO180 W P26CO180 W P26CO105 W P26CO105 W P26CO105 W P26CO105 W P26CO105 W P26CO105 W P26CO1105 W P26C		-												-l	
P26-C060 W P26-C0105 W P17-2S96 D P17-2S96 D P17-2S96 D P17-2S105 D		-									3180×2130				150
P26-C0105		-													
P26-C0105 W P26-C0105 W P26-C0105 W P26-C0105 W P26-C0105 W P26-C0105 W P26-C0180 W P17-2860 D P17-28105 D P17-28105 D P17-2810		-													00
P26-CO120 W P26-CO150 W P26-CO150 W P26-CO150 W P26-CO150 W P26-CO180 W P26-CO180 W P26-CO180 W P26-CO180 W P26-CO180 W P17-2586 D P17-2586 D P17-2586 D P17-2586 D P17-25150 D		-									3030×2310				ı
P26-CO150 W P26-CO180 W P27-S080 D P47-2S080 D P47-2S105 D		-	26	2000		2100×1950	2300	1200	2100	Side				48	100
P26-CO180 W S		-													1
P17-2S60 D P17-2S105 D P17-2S105 D P17-2S105 D P17-2S150 D											3180×2310			∤ ⊦	150
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	P21-2S180	D2			3						2330×2970	4880	2900		150

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

- The above table complies with EN81-20/50 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 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

- 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 prevert 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

Global Network

Head office / Manufacturing base Head office

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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.

[For more information]

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