



TOSHIBA

Toshiba Compact Machine Room Elevators
Standard Passenger Elevator

ELCOSMO-III

For EN standard

3rd Edition

For EN 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

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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.

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THE SOLUTIONS

COMPANY SOLUTIONS

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

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

CONCEPT of ELCOSMO-III

Toshiba manufactures elevators by applying the latest technology and improved elevator development skills. ELCOSMO-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 ELCOSMO-III. We can comply with various needs such as building use, layout design, etc.

Scope of specification	Range of application
Passenger	8 ~ 30 persons
Rated load	630 ~ 2250 kg
Rated speed	1.0 ~ 4.0 m/s

Note1: Applicable range of rated speed 3.5 or 4.0m/s are rated load 900 or 1000kg only.
 Note2: Applicable range of rated load 2250kg are rated speed 2.0m/s or less.
 Note3: The above scope complies with EN81-20/50 standard.

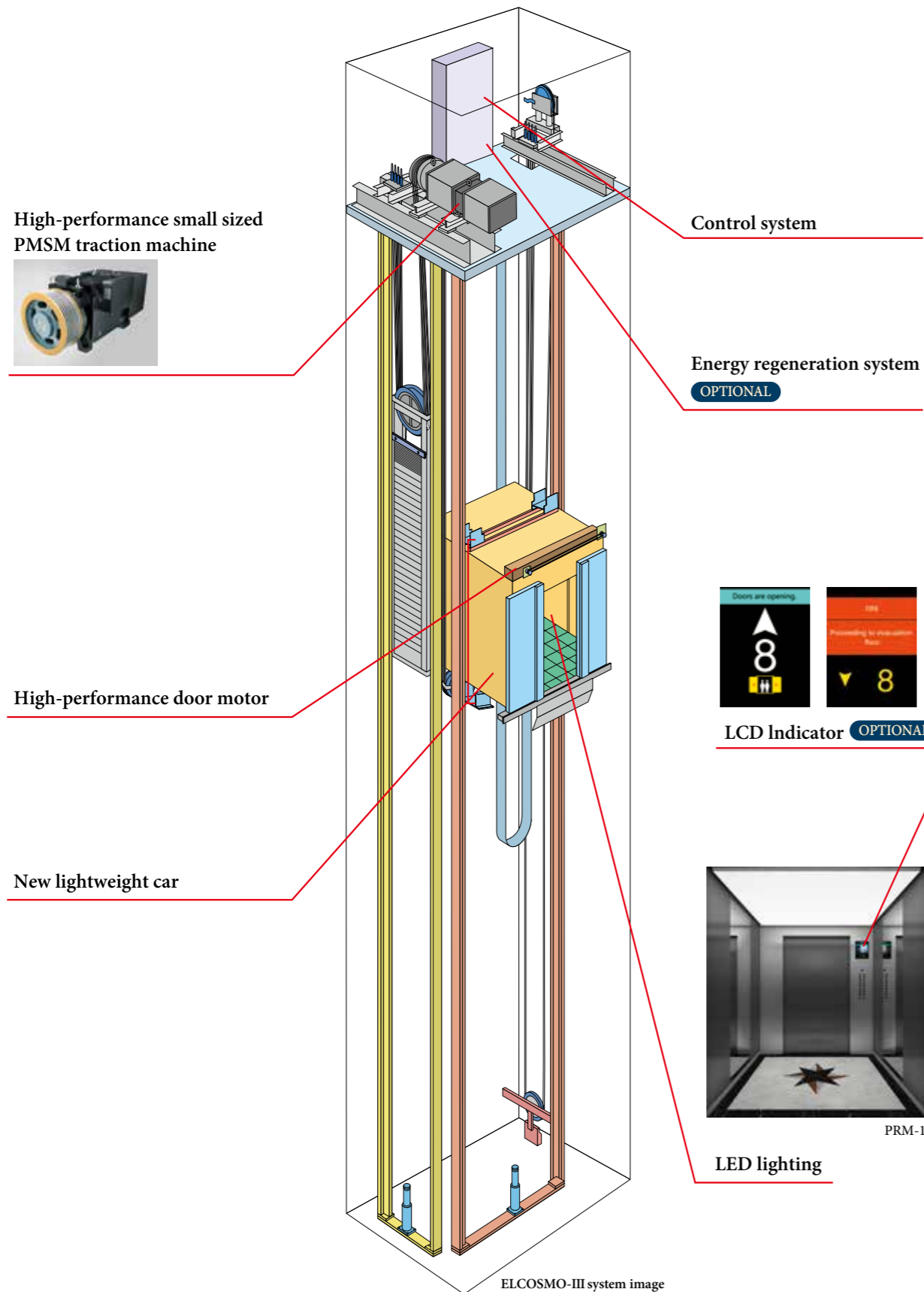
Rated speed (m/s)	Rated load (kg)											
	630	825	900	1000	1050	1150	1275	1350	1600	1800	2000	2250
4.0												
3.5												
3.0												
2.5												
2.0												
1.75												
1.5/1.6												
1.0												
Type	P8	P11	P12	P13	P14	P15	P17	P18	P21	P24	P26	P30



Contents

- The Solutions
 - Company Solutions P.1
 - Concept of ELCOSMO-III P.2
- Technology
 - New Technology P.3
 - Safety Function P.5
 - Energy Saving & Environment P.9
- Expansion of variations in car ceiling design P.13
- Car Design
 - OFFICE P.15
 - RESIDENCE P.17
 - HOTEL P.19
 - SHOP P.21
- Hall Design
 - Hall Decoration Item Variation P.23
- Operation Systems P.31
- Functions P.49
- Hoistway Layout/ Specifications P.51
- Works by Others P.61
- Global Network P.63

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.

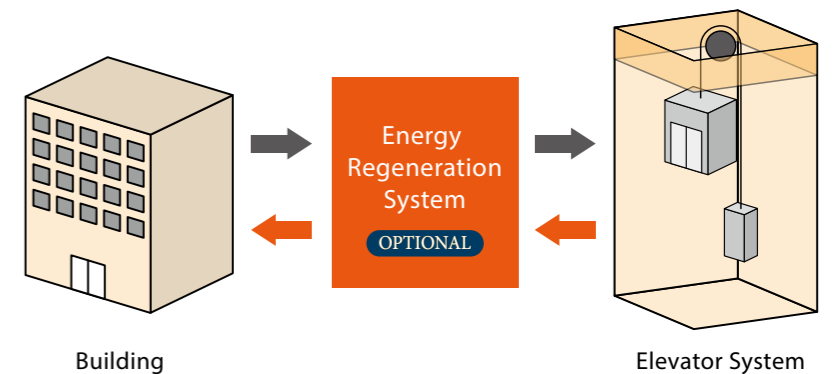


High Performance Control Systems

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.

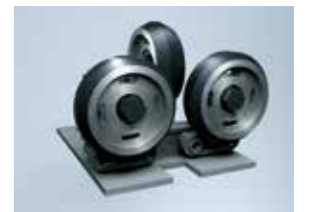
Energy Regeneration System OPTIONAL

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

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

Car Door Lock **OPTIONAL**

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

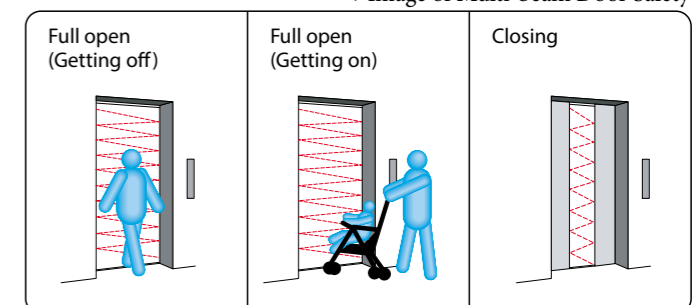
Ascending Car Overspeed Protection

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

2-in-1 door safety

(multi-beam door safety + mechanical door safety)
A combination of multi-beam door safety and mechanical door safety.

* Image of Multi-beam Door Safety



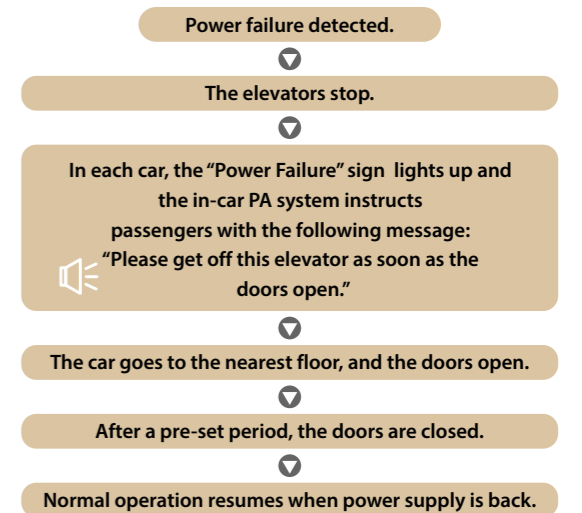
TECHNOLOGY

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.)

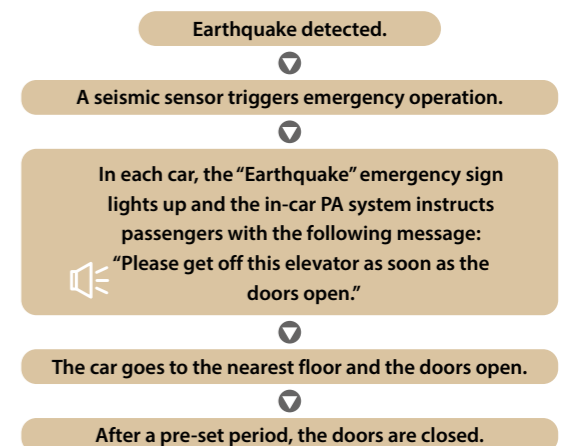


※Above flowchart is representable example

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.

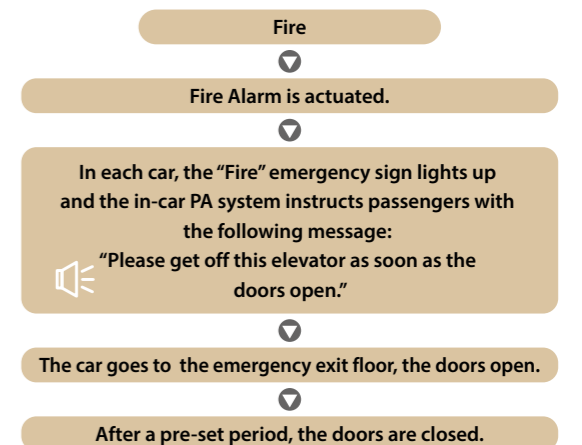


※Above flowchart is representable example

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.



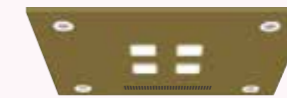
Expansion of variations in car ceiling design

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



SL-1

OPTIONAL



DLX-31



DLX-28



DLX-27



DLX-25



DLX-24



DLX-23



DLX-22



DLX-21



PRM-1



PRM-2



TL-1



TL-S2



TL-S1



DLC-1



SL-3X



SL-V1

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

OFFICE

OPTIONAL

PRM-1

Front view



Back view



Ceiling design	PRM-1 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.

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Design variations

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

OPTIONAL

PRM-2



OPTIONAL

TL-S2



OPTIONAL

DLC-1



OPTIONAL

SL-3X



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Car Design

RESIDENCE

OPTIONAL

DLX-27

Front view



Front side view



Ceiling design	DLX-27 Hairline finish stainless steel (Central part: Mirror finish stainless steel)
Car side panel (Return panel)	Hairline finish stainless steel
Car side panel (Side panel)	Hairline finish stainless steel
Car side panel (Rear panel)	Hairline finish stainless steel
Kick plate	Nil
Car door	Hairline finish stainless steel
Car floor	Vinyl tile (MID809)
COP	POP-G1NL
Button	GS-6A-BT
Indicator	LED segment
HCOP	HCOP-G1D (Button: UB-1)

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Design variations

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OPTIONAL

DLX-25



OPTIONAL

TL-1



OPTIONAL

DLX-21



OPTIONAL

SL-P1



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Car Design

HOTEL

OPTIONAL

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

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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-24



OPTIONAL
SL-V1



OPTIONAL
DLC-1



STANDARD
SL-1



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Car Design



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

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Design variations

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OPTIONAL
SL-P1



OPTIONAL
DLX-28



OPTIONAL
DLX-23



OPTIONAL
TL-S1



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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

Hall jamb	Wide inclined type Vibration finish stainless steel
Hall Transom	Vibration finish stainless steel
Hall Door	Vibration finish stainless steel
Hall Indicator / Hall Button	HIB-G1L-43B
Button	KB-1A
Hall Lantern	HL-G1



HIB-G1L-43B



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 inclined type
Mirror finish stainless steel
- Hall Door** Mirror etching finish stainless steel (DZ-018)
- Hall Indicator** HI-G34-O
- Hall Button** HB-G1K
- Button** KB-1B



HB-G1K



HI-G34-O



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** GS-3LB
- Other** Hall Emergency Operating Panel



HB-G1



HI-G1



Hall Design

Hall design 4 OPTIONAL

- Hall Jamb** Wide inclined type
Hairline finish stainless steel
- Hall Door** Painted steel panel (77GS)
- Hall Indicator /
Hall Button** HIB-G1NL-O
- Button** GS-7B-B

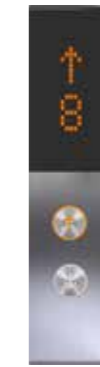


HIB-G1NL-O



Hall design 5 OPTIONAL

- Hall Jamb** Narrow 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

Hall design 6 STANDARD

- Hall Jamb** Narrow type
Painted steel panel (62YS)
- Hall Door** Painted steel panel (62YS)
- Hall Indicator /
Hall Button** HIB-G1NL-L-O
- Button** GS-7A-BT



HIB-G1NL-L-O

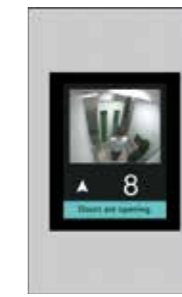


Hall design 7 OPTIONAL

- Hall jamb** Wide inclined type
Hairline finish stainless steel
- Hall Door** Hairline finish stainless steel
- Hall Indicator** HI-G1L-57B
- Hall Button** HB-G1K
- Button** KB-7A



HB-G1K



HI-G1L-57B



OPERATION SYSTEMS



Operation Systems

Car Operation Panel : G1NL series

※Note: Applicable to Wide Car type models

POP type



POP-G1NL
STANDARD

SL-P1



FCOP type



FCOP-G1NL
STANDARD

DLX-25



Button Line-up

GS-5-B	GS-5A-B	GS-5B-B
GS-5-BT	GS-5A-BT	GS-5B-BT
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
GS-6-BT	GS-6A-BT	GS-6B-BT
GS-6-W	GS-6A-W	GS-6B-W
GS-6-WT	GS-6A-WT	GS-6B-WT
GS-7-B	GS-7A-B	GS-7B-B
GS-7-BT	GS-7A-BT	GS-7B-BT
GS-7-W	GS-7A-W	GS-7B-W
GS-7-WT	GS-7A-WT	GS-7B-WT
UB-3	UB-3A	UB-3B

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Operation Systems

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

※Note: Applicable to Wide Car type models

POP type



POP-G1NS
OPTIONAL

FCOP type



FCOP-G1NS
OPTIONAL

Button Line-up

GS-3L	GS-3LA	GS-3LB
GS-5-B	GS-5A-B	GS-5B-B
GS-5-BT	GS-5A-BT	GS-5B-BT
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
GS-6-BT	GS-6A-BT	GS-6B-BT
GS-6-W	GS-6A-W	GS-6B-W
GS-6-WT	GS-6A-WT	GS-6B-WT

LED Segment



LED Dot Matrix

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



Button Line-up

GS-5-B	GS-5A-B	GS-5B-B
GS-5-BT	GS-5A-BT	GS-5B-BT
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
GS-6-BT	GS-6A-BT	GS-6B-BT
GS-6-W	GS-6A-W	GS-6B-W
GS-6-WT	GS-6A-WT	GS-6B-WT
GS-7-B	GS-7A-B	GS-7B-B
GS-7-BT	GS-7A-BT	GS-7B-BT
GS-7-W	GS-7A-W	GS-7B-W
GS-7-WT	GS-7A-WT	GS-7B-WT
UB-3	UB-3A	UB-3B

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Operation Systems

Car Operation Panel : G1L series

※Note: Applicable to Wide Car type models

POP type



POP-G1L-104C
OPTIONAL



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

PRM-1



FCOP type



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



FCOP-G1L-104C OPTIONAL
FCOP-G1L-57B OPTIONAL
FCOP-G1L-70S OPTIONAL
FCOP-G1L OPTIONAL

DLX-21



Button Line-up

GS-5-B	GS-5A-B	GS-5B-B	GS-7-B	GS-7A-B	GS-7B-B
GS-5-BT	GS-5A-BT	GS-5B-BT	GS-7-BT	GS-7A-BT	GS-7B-BT
GS-5-W	GS-5A-W	GS-5B-W	GS-7-W	GS-7A-W	GS-7B-W
GS-5-WT	GS-5A-WT	GS-5B-WT	GS-7-WT	GS-7A-WT	GS-7B-WT
GS-6-B	GS-6A-B	GS-6B-B	NB-1	NB-1A	NB-1B
GS-6-BT	GS-6A-BT	GS-6B-BT	NB-2	NB-2A	NB-2B
GS-6-W	GS-6A-W	GS-6B-W	UB-1	UB-1A	UB-1B
GS-6-WT	GS-6A-WT	GS-6B-WT	UB-2	UB-2A	UB-2B
			UB-3	UB-3A	UB-3B
KB-1	KB-1A	KB-1B			
KB-2	KB-2A	KB-2B			
KB-3	KB-3A	KB-3B			
KB-4	KB-4A	KB-4B			
KB-7	KB-7A	KB-7B			
KB-8	KB-8A	KB-8B			

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Operation Systems

Car Operation Panel & Hall Indicator Button : G1N series

※Note: Applicable to Wide Car type models

COP type



Button Line-up

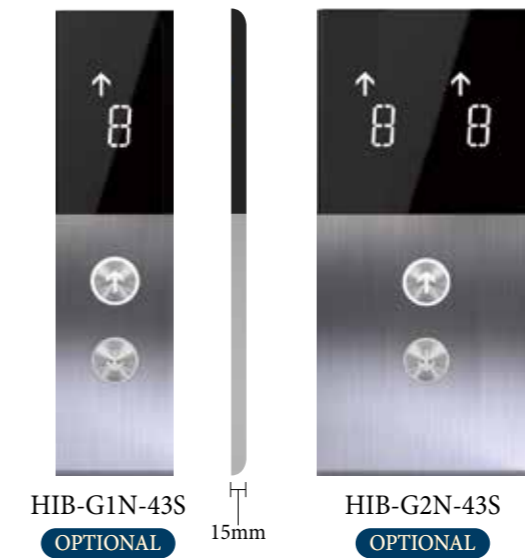
NB-1	NB-1A	NB-1B
NB-2	NB-2A	NB-2B

SL-1



HIB type

LCD Segment

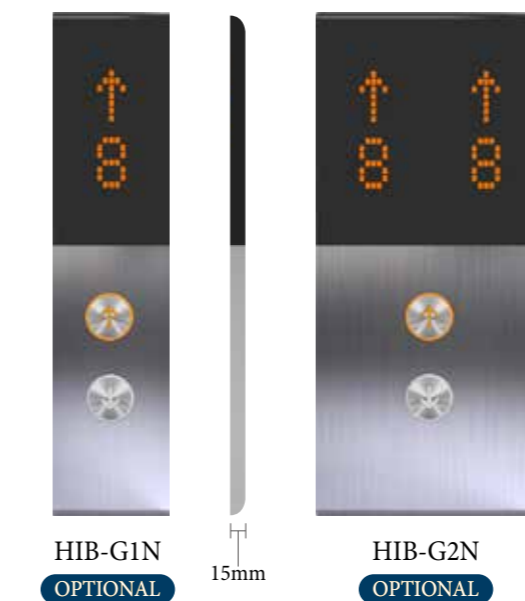


Button Line-up

NB-1	NB-1A	NB-1B
NB-2	NB-2A	NB-2B

LED Dot Matrix

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



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Operation Systems

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

※Note: Applicable to Wide Car type models

COP type



HIB type



Button Line-up

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

COP type



HIB type



Button Line-up

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

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Operation Systems

Car Operation Panel : HCOP series

※Note: Applicable to Wide Car type models

HCOP type



HCOP-G1D
OPTIONAL



HCOP-G1D-N
OPTIONAL



HCOP-G1NS-N
OPTIONAL



HCOP-G1K-N
OPTIONAL



DLX-27

Button Line-up

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

Button Line-up

GS-3L 	GS-3LA 	GS-3LB
GS-5-B 	GS-5A-B 	GS-5B-B
GS-5-BT 	GS-5A-BT 	GS-5B-BT
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
GS-6-BT 	GS-6A-BT 	GS-6B-BT
GS-6-W 	GS-6A-W 	GS-6B-W
GS-6-WT 	GS-6A-WT 	GS-6B-WT

Button Line-up

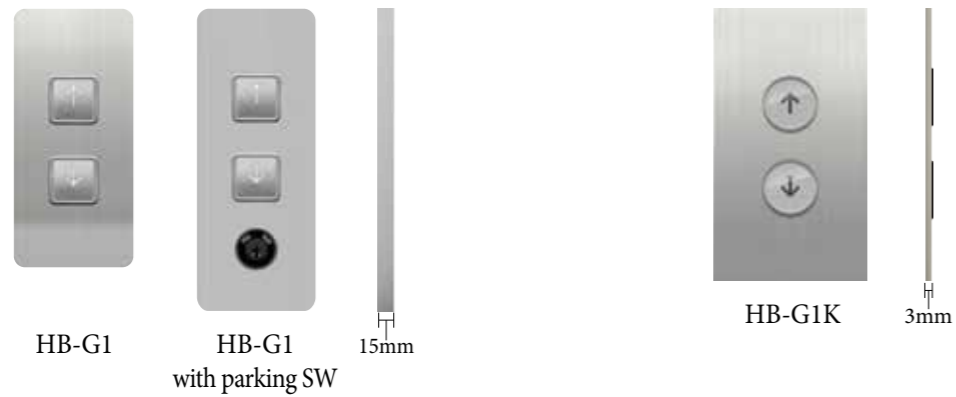
KB-1 	KB-1A 	KB-1B
KB-2 	KB-2A 	KB-2B
KB-3 	KB-3A 	KB-3B
KB-4 	KB-4A 	KB-4B
KB-7 	KB-7A 	KB-7B
KB-8 	KB-8A 	KB-8B

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

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

Operation Systems

Hall Button OPTIONAL



Button Line-up

NB-1	NB-1A	NB-1B
NB-2	NB-2A	NB-2B
GS-3L	GS-3LA	GS-3LB

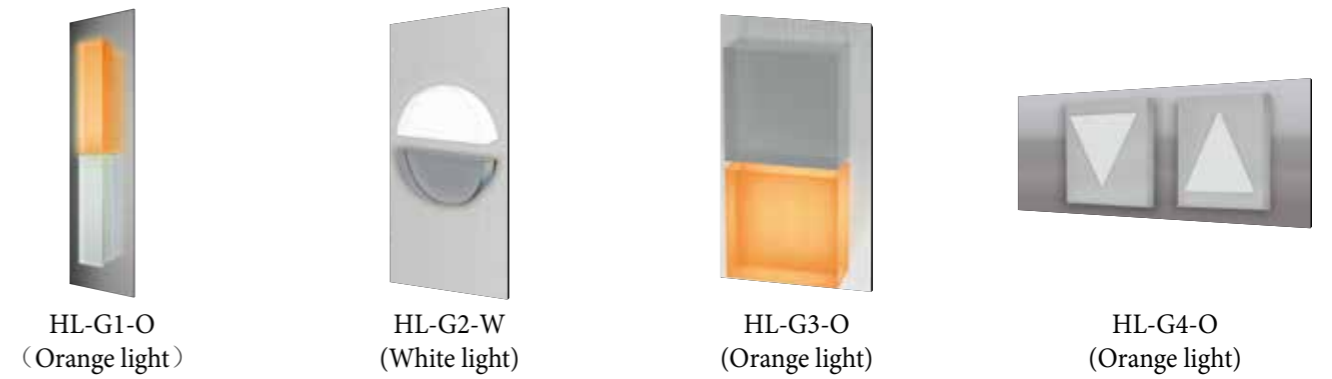
Button Line-up

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

Hall Lantern

Hall Lantern OPTIONAL

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



Hall Indicator

Hall Indicator OPTIONAL

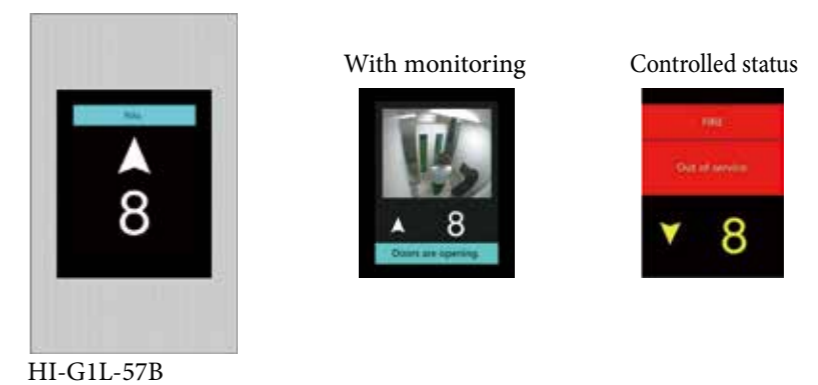
LED Dot matrix

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



LCD Hall Indicator OPTIONAL

5.7 inch Color LCD



Operation Systems

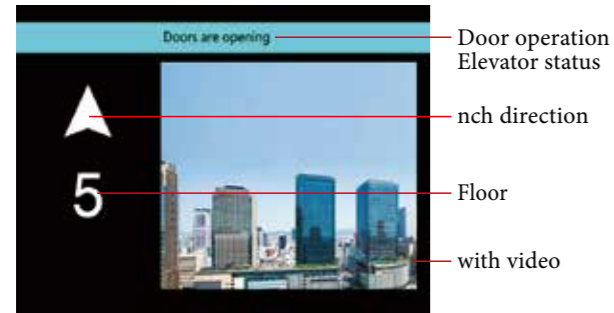
Car Position Indicator

Large LCD Indicator for Car Operation Panel OPTIONAL

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

10.4 inch Color LCD

General car display (Without monitoring)



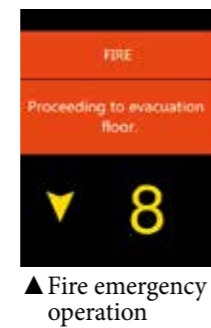
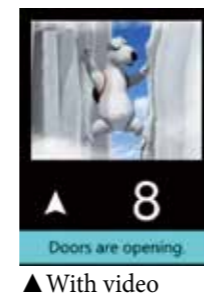
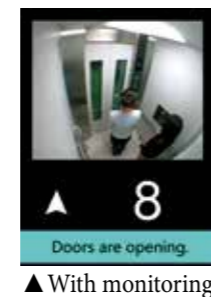
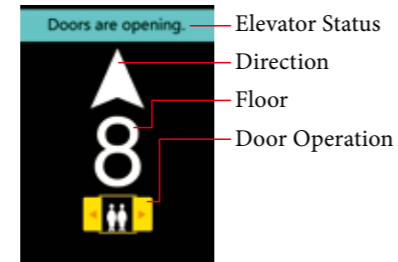
General car display (With monitoring)



Display under controlled status



8.4 inch Color LCD



5.7 inch Color LCD

General car display



With monitoring



With video



Controlled status



LCD Segment



LED Segment



LED Dot matrix



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.	○	
	2 in 1 door safety [Multi-beam door safety + Mechanical door safety]	A combination of multi-beam door safety and mechanical door safety	○	
	Service Functions	Home landing	To reduce passenger waiting time, the lift will return to the designated floor and stand by	△
		Service floor cut-off selection [Software interface]	This is of the free setting type, where the elevator superintendent for every building is free to set and modify service cut-off floors even after in use. This is the most appropriate type for such office buildings as their tenants are not yet fixed before completion.	△

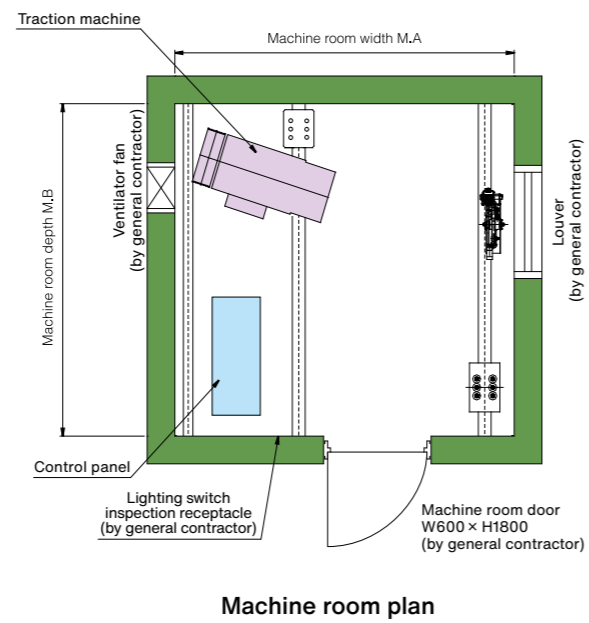
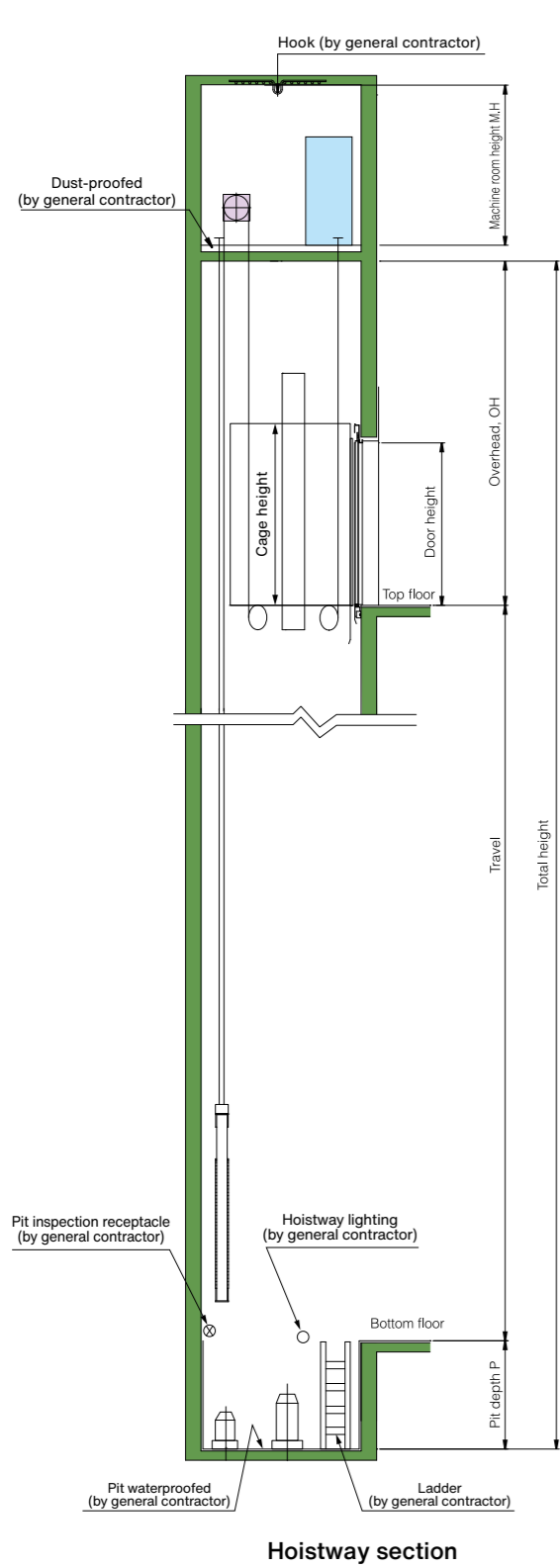
Notes

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

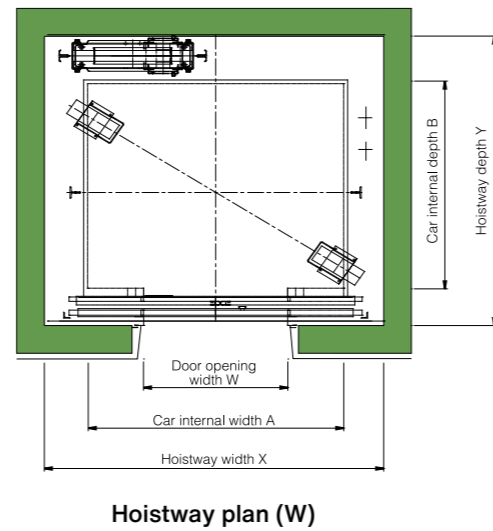
○ : STANDARD △ : OPTIONAL

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

Hoistway Layout



Machine room plan



Hoistway plan (W)

Specifications

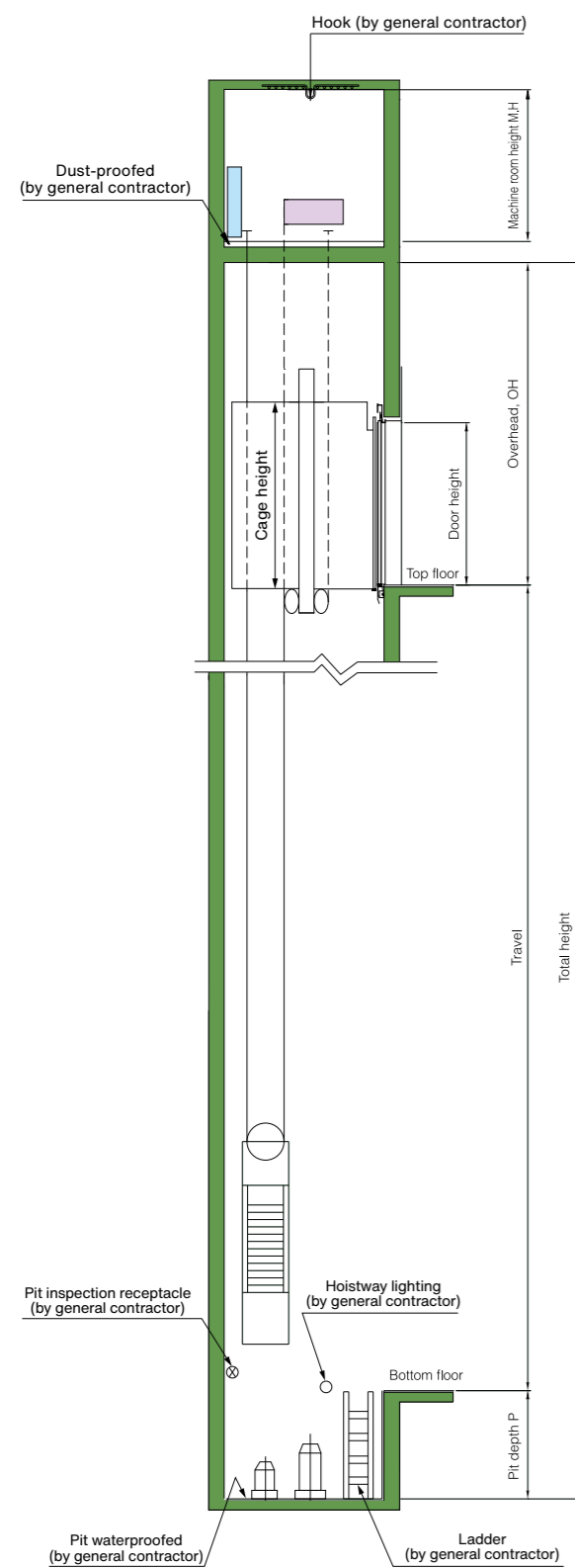
Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Machine room dimensions (mm)		Max. Service Stops (s)	Max. Travel (m)			
				A×B	Height	Width	Height		X×Y	OH	P	MA×MB	MH					
P8-CO60	W	8	630	1400×1100	2300	800	2100	Rear	2000×1720	3700	1450	2000×1720	2100	40	90			
	900					2200×1720			2200×1720									
P8-CO96	W					1.6			800			2000×1720				3900	1500	2000×1720
	900					2200×1720			2200×1720									
P8-CO105	W					1.75			800			2000×1720				3950	1550	2000×1720
	900					2200×1720			2200×1720									
P8-CO120	W	2	800	2000×1720	4050	1650	2000×1720											
	900	2200×1720	2200×1720															
P11-CO60	W	11	825	1400×1350	2300	800	2100	Rear	2000×1970	3700	1450	2000×1970	2100	40	90			
	900					2200×1970			2200×1970									
P11-CO96	W					1.6			800			2000×1970				3900	1500	2000×1970
	900					2200×1970			2200×1970									
P11-CO105	W					1.75			800			2000×1970				3950	1550	2000×1970
	900					2200×1970			2200×1970									
P11-CO120	W	2	800	2000×1970	4050	1650	2000×1970											
	900	2200×1970	2200×1970															
P11-CO150	W	2.5	800	2000×1970	4250	2100	2000×1970											
	900	2200×1970	2200×1970															
P13-CO60	W	13	1000	1600×1400	2300	900	2100	Rear	2200×2020	3700	1450	2400×2020	2100	40	90			
	1000					2400×2020			2600×2020									
	1100					2600×2020			2600×2020									
P13-CO96	W					1.6			900			2200×2020				3900	1500	2200×2020
	1000					2400×2020			2400×2020									
	1100					2600×2020			2600×2020									
P13-CO105	W	1.75	900	2200×2020	3950	1550	2200×2020											
	1000	2400×2020	2400×2020															
	1100	2600×2020	2600×2020															
P13-CO120	W	2	900	2200×2020	4050	1650	2200×2020											
	1000	2400×2020	2400×2020															
	1100	2600×2020	2600×2020															
P13-CO150	W	2.5	900	2200×2020	4250	2100	2200×2020											
	1000	2400×2020	2400×2020															
	1100	2600×2020	2600×2020															

W: Wide car

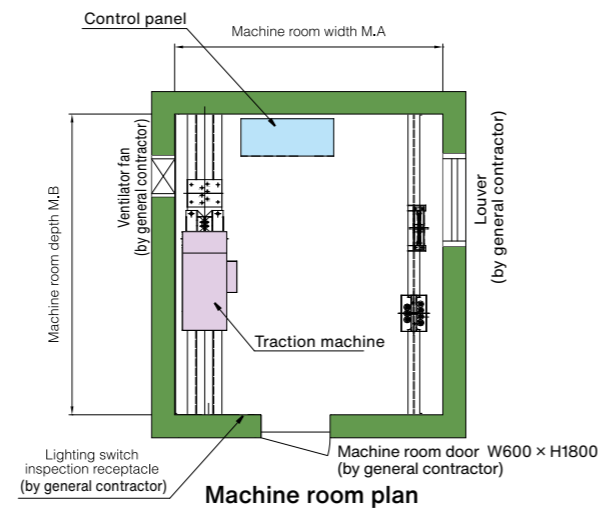
Note:

- 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.

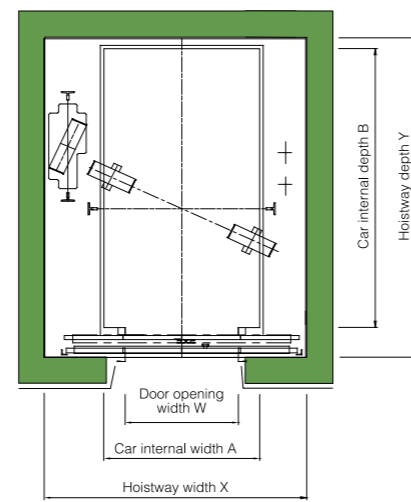
Hoistway Layout



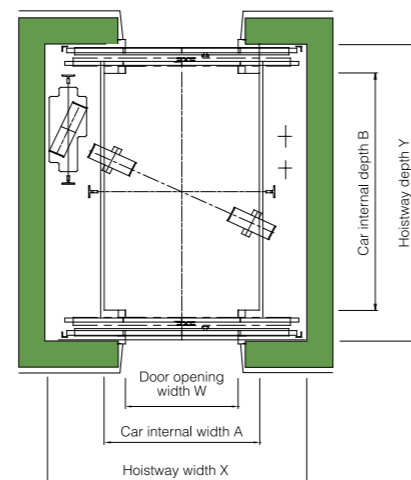
Hoistway section



Machine room plan



Hoistway plan (D)



Hoistway plan (D2)

Specifications

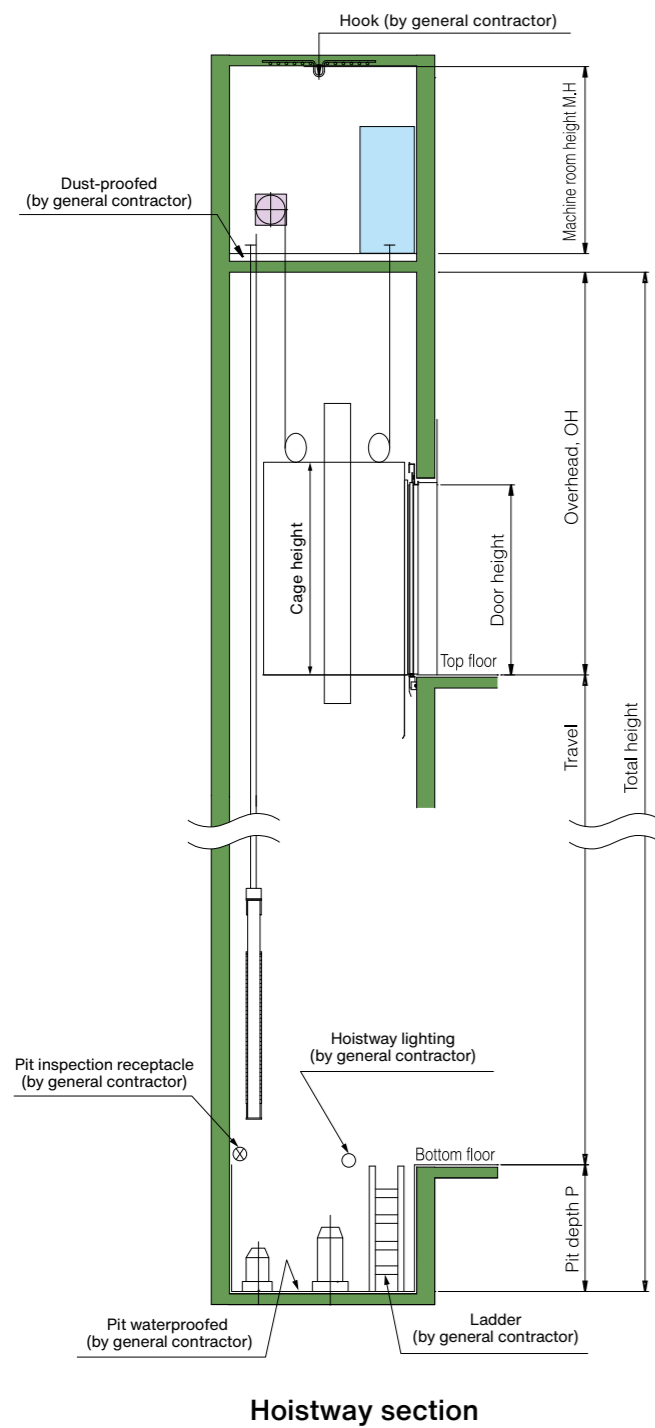
Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Machine room dimensions (mm)		Max. Service Stops (s)	Max. Travel (m)		
				A×B	Height	Width	Height		X×Y	OH	P	MA×MB	MH				
P8-CO60	D	8	630	1	1100×1400	2300	800	2100	Side	1970×1760	3700	1600	1970×1760	2100	40	90	
	900						2140×1760			2140×1760							
P8-CO96	D						1.6			900			1970×1760				1970×1760
	900						2140×1760			2140×1760							
P8-CO105	D	1.75	800	1970×1760	1970×1760												
	900	2140×1760	2140×1760														
P8-CO120	D	2	800	1970×1760	1970×1760												
	900	2140×1760	2140×1760														
P11-CO60	D	11	825	1	1100×1700	2300	800	2100	Side	1970×2060	3700	1600	1970×2060	2100	40	90	
	900						2140×2060			2140×2060							
P11-CO60	D2						1.6			900			1970×2170				1970×2170
	900						2140×2170			2140×2170							
P11-CO96	D	1.6	800	1970×2060	1970×2060												
	900	2140×2060	2140×2060														
P11-CO96	D2	1.6	800	1970×2170	1970×2170												
	900	2140×2170	2140×2170														
P11-CO105	D	1.75	800	1970×2060	1970×2060												
	900	2140×2060	2140×2060														
P11-CO105	D2	1.75	800	1970×2170	1970×2170												
	900	2140×2170	2140×2170														
P11-CO120	D	2	800	1970×2060	1970×2060												
	900	2140×2060	2140×2060														
P11-CO120	D2	2	800	1970×2170	1970×2170												
	900	2140×2170	2140×2170														
P11-CO150	D	2.5	800	1970×2060	1970×2060												
	900	2140×2060	2140×2060														
P11-CO150	D2	2.5	800	1970×2170	1970×2170												
	900	2140×2170	2140×2170														
P14-CO60	D	14	1050	1	1100×2100	2300	800	2100	Side	1970×2460	3700	1600	1970×2460	2100	40	90	
	900						2140×2460			2140×2460							
P14-CO60	D2						1.6			900			1970×2570				1970×2570
	900						2140×2570			2140×2570							
P14-CO96	D	1.6	800	1970×2460	1970×2460												
	900	2140×2460	2140×2460														
P14-CO96	D2	1.6	800	1970×2570	1970×2570												
	900	2140×2570	2140×2570														
P14-CO105	D	1.75	800	1970×2460	1970×2460												
	900	2140×2460	2140×2460														
P14-CO105	D2	1.75	800	1970×2570	1970×2570												
	900	2140×2570	2140×2570														
P14-CO120	D	2	800	1970×2460	1970×2460												
	900	2140×2460	2140×2460														
P14-CO120	D2	2	800	1970×2570	1970×2570												
	900	2140×2570	2140×2570														
P14-CO150	D	2.5	800	1970×2460	1970×2460												
	900	2140×2460	2140×2460														
P14-CO150	D2	2.5	800	1970×2570	1970×2570												
	900	2140×2570	2140×2570														

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

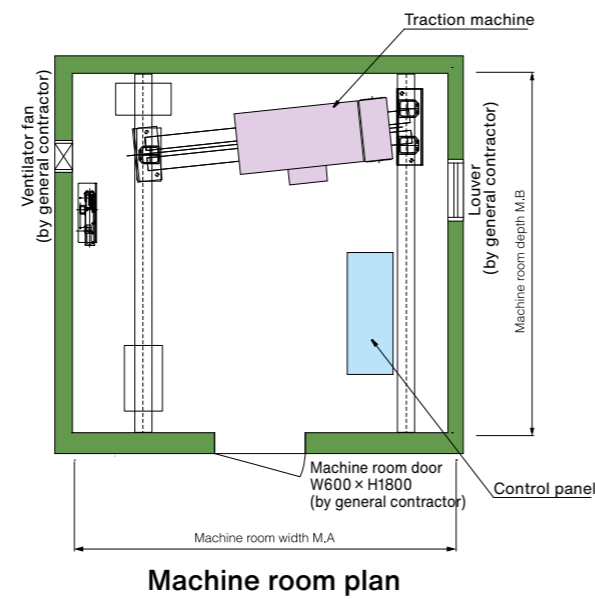
Note:

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- 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.

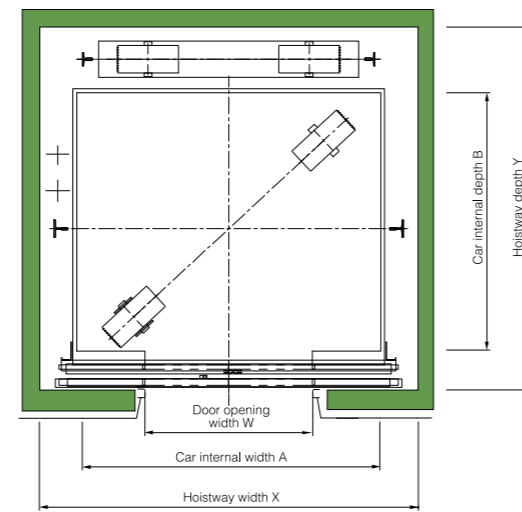
Hoistway Layout



Hoistway section



Machine room plan



Hoistway plan

Specifications

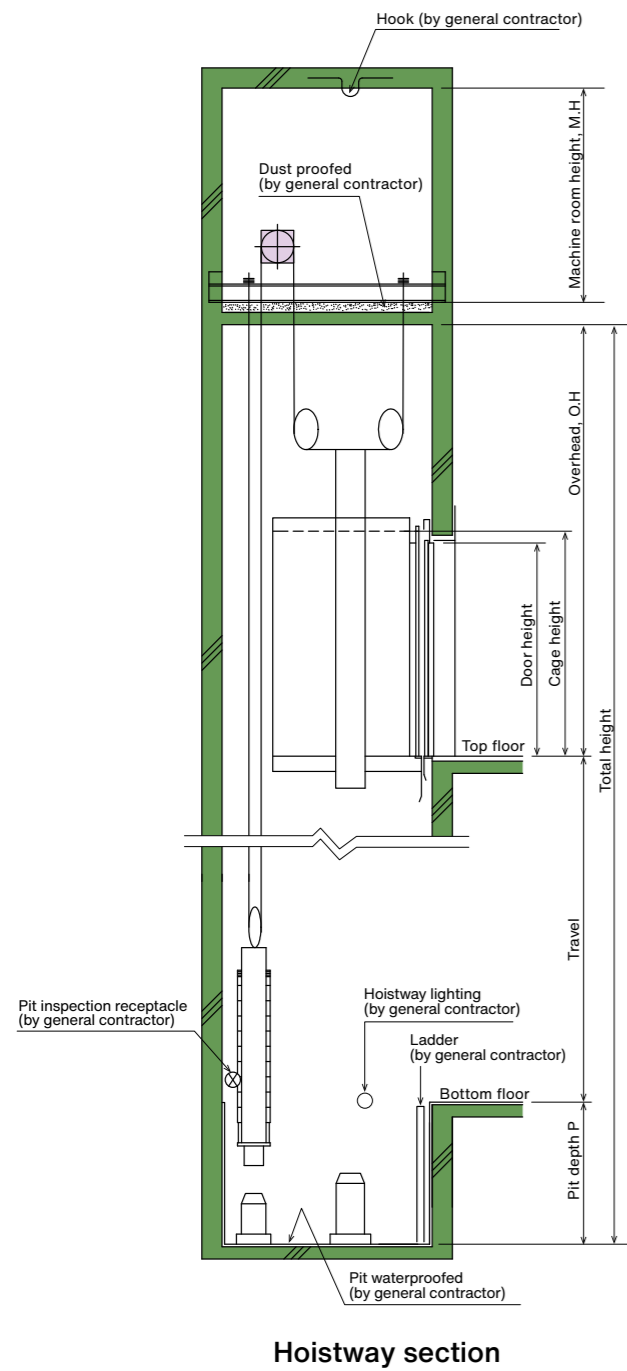
Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Machine room dimensions (mm)		Max. Service Stops (s)	Max. Travel (m)			
				A×B	Height	Width	Height		X×Y	OH	P	MA×MB	MH					
P13-CO180	W	13	1000	3	1600×1400	2300	900	2100	Rear	2150×2070	4950	2500	2150×2070	2200	48	150		
							1000			2350×2070			2350×2070					
							1100			2550×2070			2550×2070					
P15-CO60	W		1				800			2350×2170	3900	1380	2350×2170			90		
							900			2550×2170			2550×2170					
P15-CO96	W		1.6				1000			2350×2170	4100	1450	2350×2170			100		
							1100			2550×2170			2550×2170					
P15-CO105	W	15	1150	1.75	1800×1500	2300	1000	2100	Rear	2350×2170	4150	1480	2350×2170	2100	48	100		
							1100			2550×2170			2550×2170					
P15-CO120	W		2				1000			2350×2170	4250	1900	2350×2170			150		
							1100			2550×2170			2550×2170					
P15-CO150	W		2.5				1000			2350×2170	4500	2050	2350×2170			150		
							1100			2550×2170			2550×2170					
P15-CO180	W		3				1000			2350×2170	4950	2500	2350×2170			150		
							1100			2550×2170			2700×2170					
P17-CO60	W	17	1275	1	2000×1400	2300	1100	2100	Rear	2550×2070			3900	1380	2550×2070	2100	48	90
P17-CO96	W			1.6									4100	1450				100
P17-CO105	W			1.75									4150	1480				150
P17-CO120	W			2									4250	1900				150
P17-CO150	W			2.5									4500	2050				150
P17-CO180	W			3									4950	2500				150
P18-CO60	W	18	1350	1	2000×1500	2300	1100	2100	Rear	2550×2170			3900	1380	2550×2170	2100	48	90
P18-CO96	W			1.6									4100	1450				100
P18-CO105	W			1.75									4150	1480				150
P18-CO120	W			2									4250	1900				150
P18-CO150	W			2.5									4500	2050				150
P18-CO180	W			3									4950	2500				150
P21-CO60	W	21	1600	1	2000×1700	2300	1100	2100	Rear	2550×2370			3900	1380	2550×2370	2100	48	90
P21-CO96	W			1.6									4100	1450				100
P21-CO105	W			1.75									4150	1480				150
P21-CO120	W			2									4250	1900				150
P21-CO150	W			2.5									4500	2050				150
P21-CO180	W			3									4950	2500				150
P24-CO60	W	24	1800	1	2100×1750	2300	1200	2100	Rear	2750×2420			3900	1380	2750×2420	2100	48	90
P24-CO96	W			1.6									4100	1450				100
P24-CO105	W			1.75									4150	1480				150
P24-CO120	W			2									4250	1900				150
P24-CO150	W			2.5									4500	2050				150
P24-CO180	W			3									4950	2500				150
P26-CO60	W	26	2000	1	2100×1950	2300	1200	2100	Rear	2750×2620			3900	1380	2750×2620	2100	48	90
P26-CO96	W			1.6									4100	1450				100
P26-CO105	W			1.75									4150	1480				150
P26-CO120	W			2									4250	1900				150
P26-CO150	W			2.5									4500	2050				150
P26-CO180	W			3									4950	2500				150
P30-CO60	W	30	2250	1	2300×1950	2300	1200	2100	Rear	2850×2620			3900	1380	2850×2620	2100	48	80
P30-CO96	W			1.6									4100	1450				100
P30-CO105	W			1.75									4150	1480				150
P30-CO120	W			2									4250	1600				150

W: Wide car

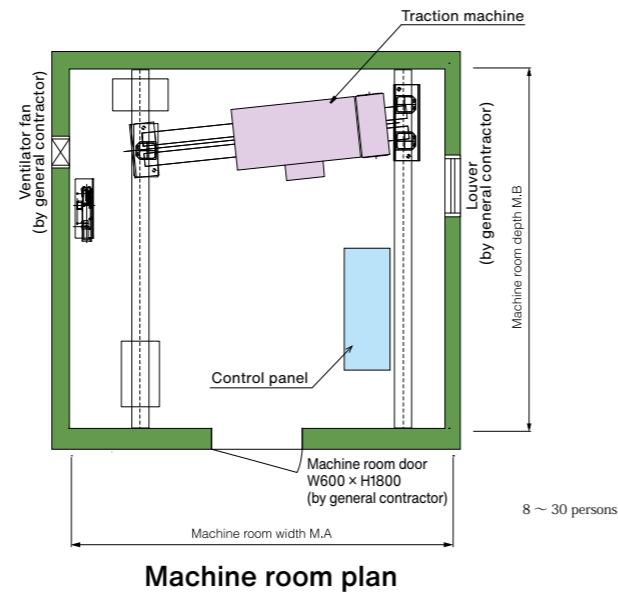
Note:

- 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.

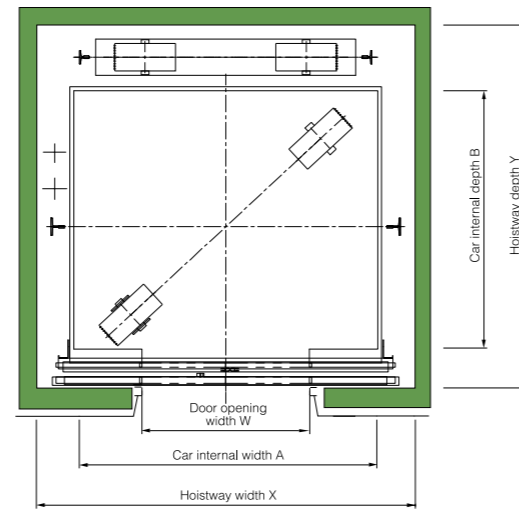
Hoistway Layout



Hoistway section



Machine room plan



Hoistway plan

Specifications

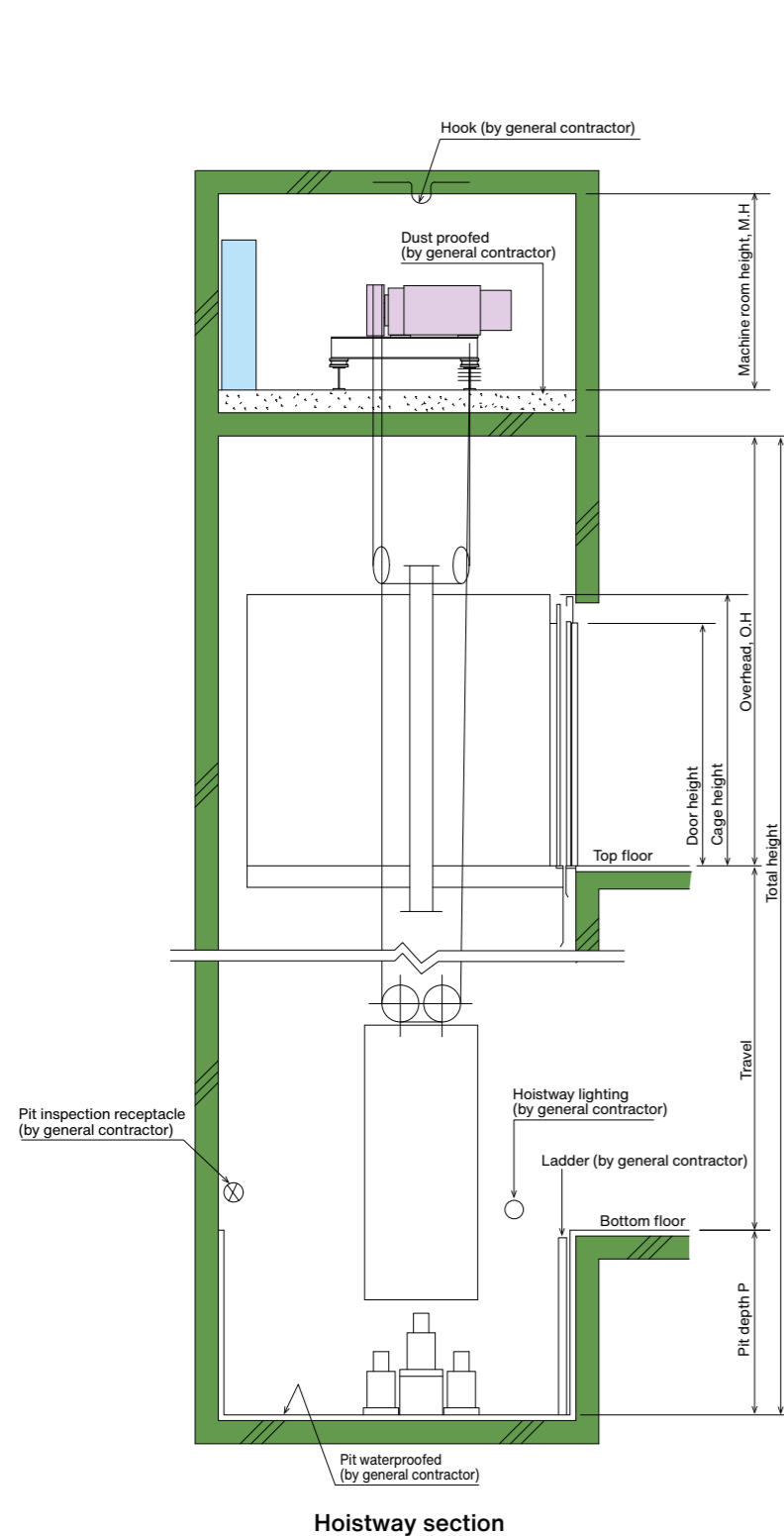
Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Machine room dimensions (mm)		Max. Service Stops (s)	Max. Travel (m)	
				A×B	Height	Width	Height		X×Y	OH	P	MA×MB	MH			
P12-CO210	W	12	900	3.5	1550×1350	2300	900	2100	Rear	2150×2100	6350	3250	2150×2150	2250	64	200
							1000			2350×2100			2350×2150			
							1100			2550×2100			2550×2150			
P12-CO240	W		4				900			2150×2100	6750	3850	2150×2150			
							1000			2350×2100			2350×2150			
							1100			2550×2100			2550×2150			
P13-CO210	W	13	1000	3.5	1600×1400	2300	900	2100	Rear	2150×2200	6350	3250	2350×2200	2250	64	200
							1000			2550×2200			2550×2200			
							1100			2150×2200			2150×2200			
P13-CO240	W		4				900			2150×2200	6750	3850	2350×2200			
							1000			2350×2200			2350×2200			
							1100			2550×2200			2550×2200			

W: Wide car

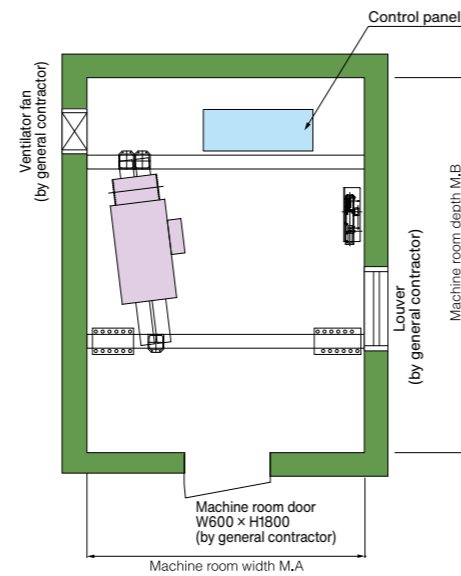
Note:

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- Please contact to our local distributor to check for other standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- Hoistway dimensions take into account the error of up to 50 mm after the construction work.
- The hoistway dimensions in chart are the minimum requirement.
- 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 type of ceiling models. As for the non-standard car designs, and ceiling models, please consult our local distributor.
- If the size of the hoistway is greater than the above sizes, OH will be larger. Please consult our distributor.
- If the location of power source panel, control panel and electric power supply are changed. Please consult our distributor.

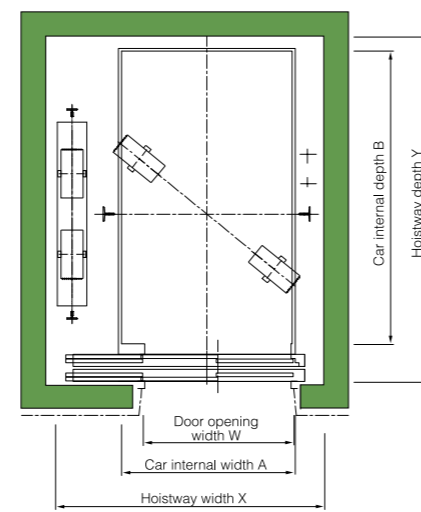
Hoistway Layout



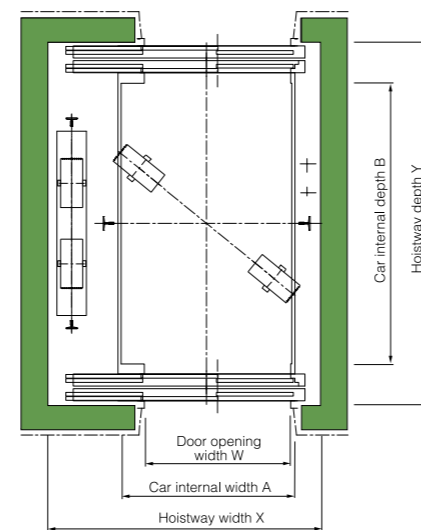
Hoistway section



Machine room plan



Typical floor hoistway plan (D)



Typical floor hoistway plan (D2)

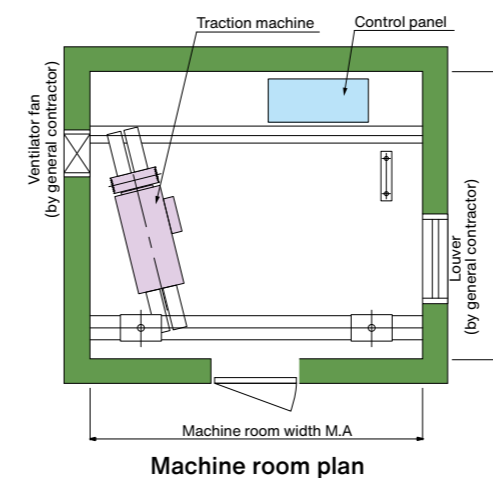
Specifications

Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Machine room dimensions (mm)		Max. Service Stops (s)	Max. Travel (m)						
				A×B	Height	Width	Height		X×Y	OH	P	MA×MB	MH								
P13-CO180	W	13	1000	3	1600×1400	2300	800 900	2100	Side	2450×1850	4950	2500	2450×1850	2200	48	150					
P15-CO60	W	15	1150	1.6	1800×1500	2300	1000	2100	Side	2650×1890	3900	1380	2650×1890	2200	48	90					
P15-CO96	W						1100			2750×1890			2650×1890								
P15-CO105	W						1000			2650×1890			2650×1890								
P15-CO120	W						1100			2750×1890			2750×1890								
P15-CO150	W						1000			2650×1890			2650×1890								
P15-CO180	W						1100			2750×1890			2750×1890								
P17-2S60	D	17	1275	1.75	1200×2300	2300	1100	2100	Side	3900	1380	2110×2760	2110×2760	2200	48	90					
P17-2S96	D						4100			1450	4150		1480								
P17-2S105	D						4250			1900	4500		2050								
P17-2S120	D						4500			2050	4950		2500								
P17-2S150	D						3900			1380	4100		1450								
P17-2S180	D						4100			1450	4150		1480								
P17-2S60	D2						4250			1900	4500		2050								
P17-2S96	D2						4950			2500	3900		1380								
P17-2S105	D2						4100			1450	4150		1480								
P17-2S120	D2						4250			1900	4500		2050								
P17-2S150	D2						4950			2500	2280×2860		4150				1480	2280×2860	2200	48	90
P21-2S60	D						4100			1450	4150		1480								
P21-2S96	D	4250	1900	4500	2050																
P21-2S105	D	4950	2500	3900	1380																
P21-2S120	D	4100	1450	4150	1480																
P21-2S150	D	4250	1900	4500	2050																
P21-2S180	D	4950	2500	2280×3070	4150	1480	2280×3070	2200	※	90											
P21-2S60	D2	4100	1450	4150	1480																
P21-2S96	D2	4250	1900	4500	2050																
P21-2S105	D2	4950	2500	3900	1380																
P21-2S120	D2	4100	1450	4150	1480																
P21-2S150	D2	4250	1900	4500	2050																
P21-2S180	D2	4950	2500																		

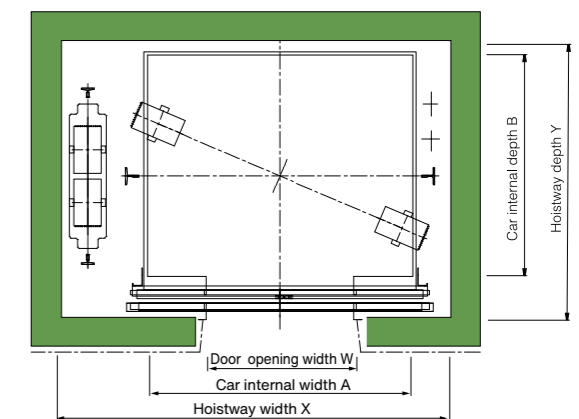
W: Wide car D: Deep car D2: Front and rear opening door ※: Consult our local distributor

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.



Machine room plan



Typical floor hoistway plan (W)

Global Network

- Head office / Manufacturing base
- Head office

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 Factory: 1 Toshiba-cho, Fuchu City, Tokyo 183-8511

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

C TOSHIBA ELEVATOR (CHINA) CO., LTD.

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

D CHEVALIER (HK) LIMITED

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

E CHEVALIER SINGAPORE HOLDINGS PTE. LTD.

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

F TOSHIBA ELEVATOR (MALAYSIA) SDN. BHD.

Head Office: Wisma TMEL, No.15, Jln Kuchai Maju 4, Kuchai Entrepreneurs' Park, Off Jalan Kuchai Lama, 58200 Kuala Lumpur, Malaysia.

G TOSHIBA ELEVATOR MANUFACTURING ASIA SDN. BHD.

Head Office: 2530, Lorong Perusahaan 10 Prai Industrial Estate Prai 13600 Pulau Pinang, Malaysia

H TOSHIBA JOHNSON ELEVATORS (INDIA) PVT. LTD.

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

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

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

J Toshiba Elevator (Vietnam) Limited Liability Company

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

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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<https://www.toshiba-elevator.co.jp/elv/infoeng/>

