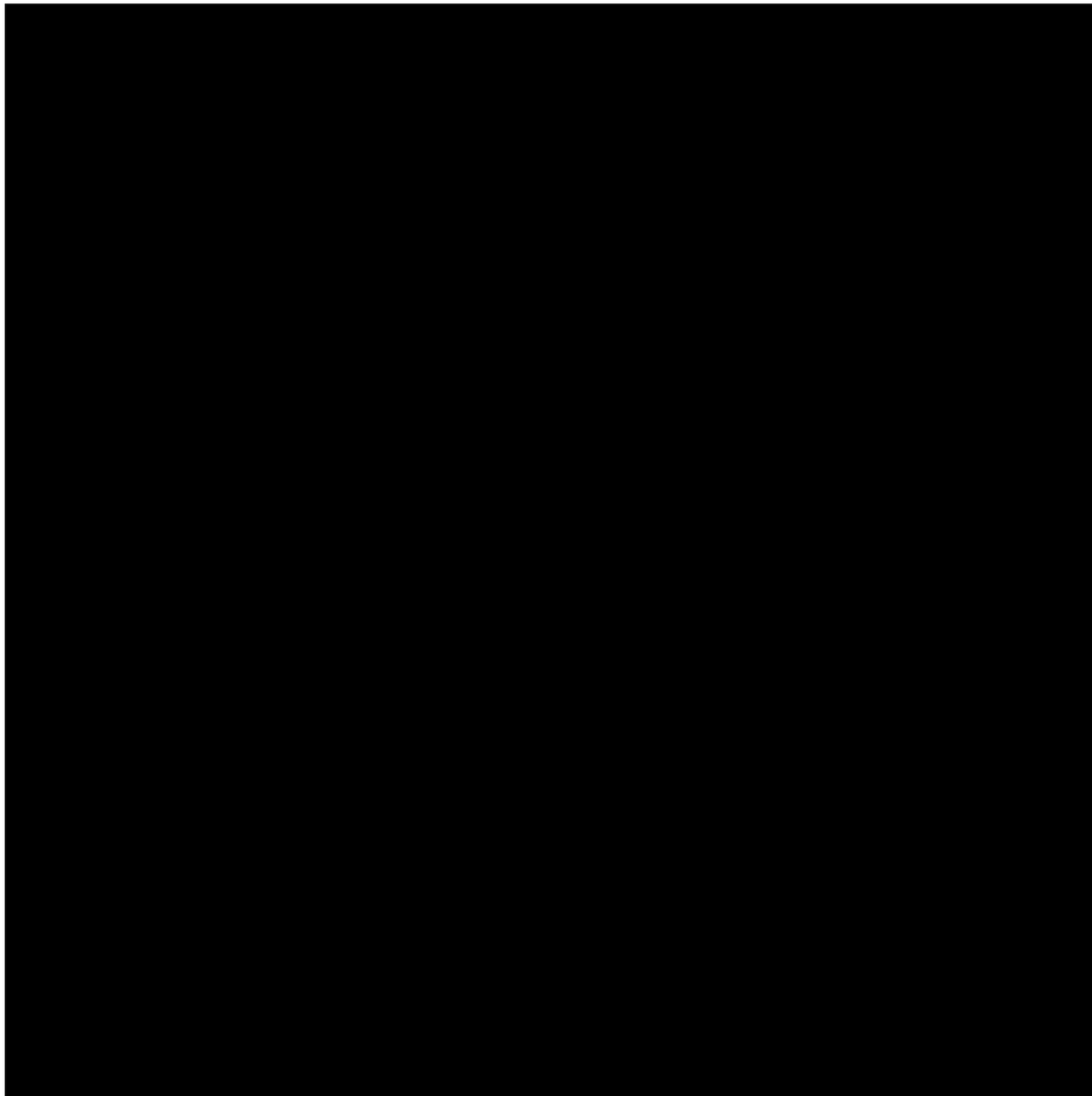
TOSHIBA

Toshiba High Speed Elevators

New ELBRIGHT

For Singapore standard



3rd Edition **For Singapore 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

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212-8585, Japan

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

GK-F218(1)-2306-500-2306(TD)

TOSHIBA ELEVATOR AND BUILDING SYSTEMS CORPORATION

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 145 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.

New ELBRIGHT
TOSHIBA HIGH SPEED ELEVATORS

A new concept in high-speed elevators.

Toshiba never stops introducing the latest technologies and refining its high-speed elevator expertise.
Toshiba proves this again with the New ELBRIGHT : a new elevator for a new age.
Toshiba engineering has combined to produce the world's first inverter drive controlled high-speed elevator, with the high-efficiency control, energy efficiency, and quiet operation today's society demands.

■ Product Line-up

Scope of specification	Range of application
Passenger	8 ～ 27 persons
Rated load	600 ～ 2025 kg
Rated speed	2.0 ～ 5.0 m/s

Rated speed (m/s)	5.0	New ELBRIGHT							
	4.0								
	3.5								
	3.0								
	2.5								
	2.0								
Rated load (kg)		600	900	1000	1150	1350	1600	1800	2025
Type		P8	P12	P13	P15	P18	P21	P24	P27

Note: The above table complies with SS550:2020 standards.

Technology

Toshiba's leading technology has developed a high-speed elevator with a slimline control panel and a compact and lightweight traction machine. We will provide rapid, high performance, high-quality elevator products saving labor, space and power.

Safety Function

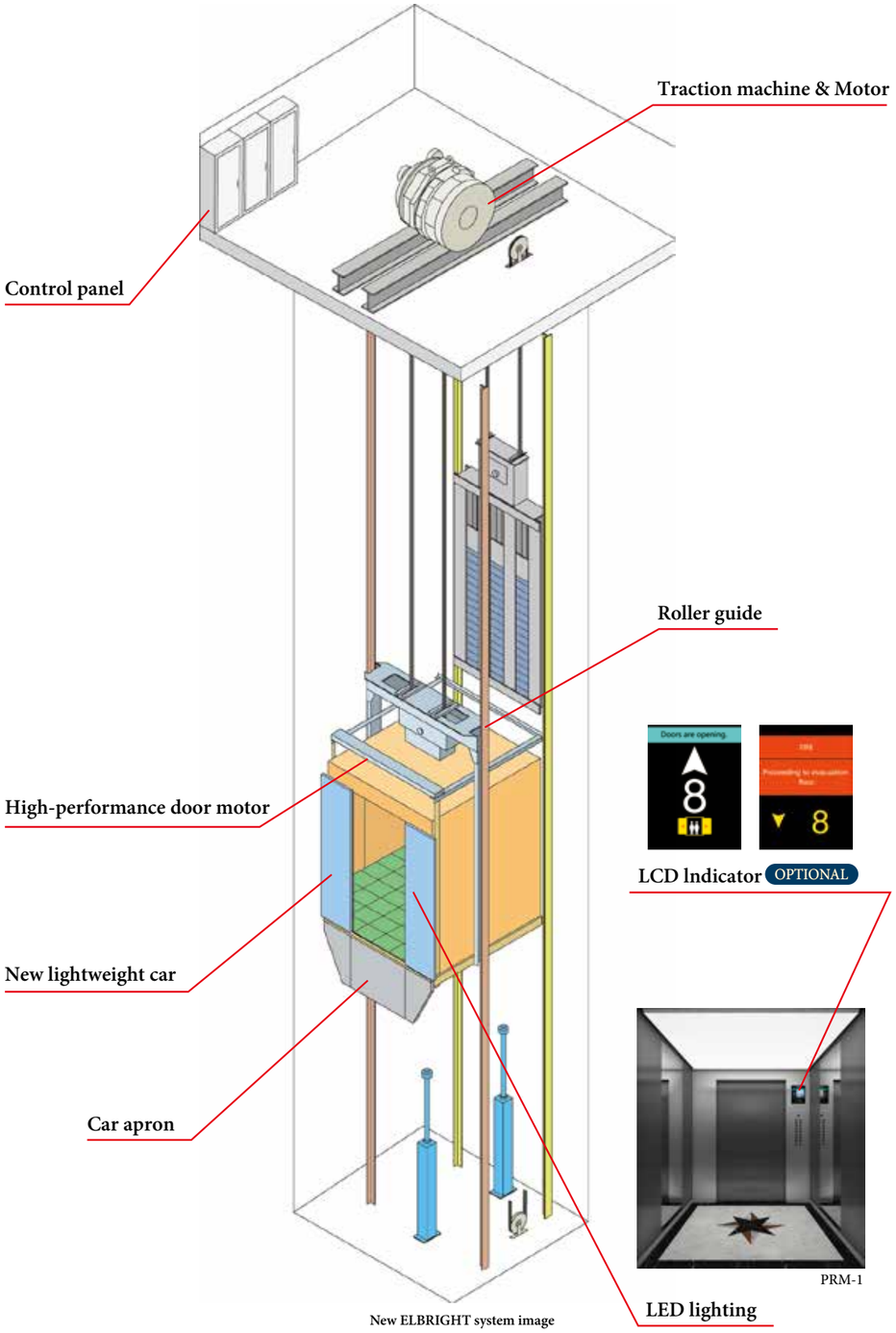
We will offer safety, security, and comfort with customer's needs by providing optional functions for safety control devices such as door open running prevention and door sensors, and optional control operation in the event of a power outage and emergency at earthquakes and fires.

Energy Saving & Environment

Reducing standby power by a new control device, commercializing the regenerative power function, and suppressing the power consumption by the adopting of LED lighting.
We are promoting environmentally friendly products such as eliminating lead and mercury and other hazardous substances from the product and equipment.

Index

TECHNOLOGY



New ELBRIGHT system image

LCD Indicator OPTIONAL

PRM-1

Technology

A high-efficiency traction machine and advanced inverter drive controlled are expanding the potential of

New ELBRIGHT

The New ELBRIGHT was developed to be the best an possible elevator, both for the buildings in which it is installed and for those who ride it. Every part of the elevator uses Toshiba's leading technologies; from the traction machine and control system to the cars, doors, and drive system. The New ELBRIGHT will boost the value of the high-speed elevator immensely.

Compact and energy-efficiency via the Permanent Magnet Synchronous Motor

The New ELBRIGHT employs a gearless traction machine using a permanent magnet synchronous motor (PMSM), in place of the conventional induction motor. The PMSM uses a permanent magnet with a high magnetic flux density. This allows a more compact and lightweight traction machine. Furthermore, establishing a permanent magnetic flux eliminates the need to release magnetizing current. This and other advantages pave the way for highly efficient control, which helps to save energy.

A compact slimline control panel realizes space-saving in machine room

The New ELBRIGHT's control system use small inverter unit. It also incorporates peripheral equipment, integrated multifunctional digital line, a compact control panel device and efficiently implemented layout for a slimline control panel. The well thought-out control panel design also reduces working space for maintenance, which frees up space for the machine room.

New control systems

A high performance CPU is employed for the advanced and newly developed control system. This control system cuts the level of standby electricity required and promotes an automatic shutoff system for lighting and ventilation to further boost power savings.

Roller Guide

◆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.

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 within150mm.

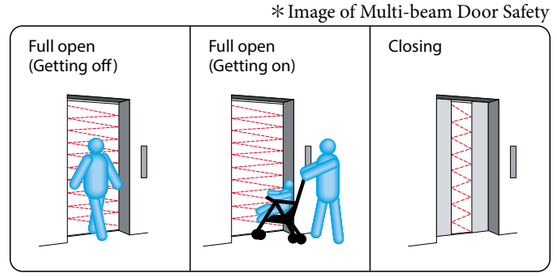
Ascending Car Overspeed Protection

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

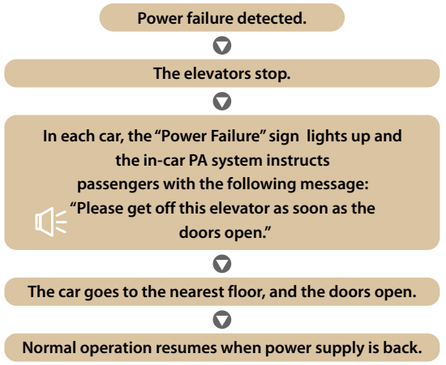


Safety Function

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.)

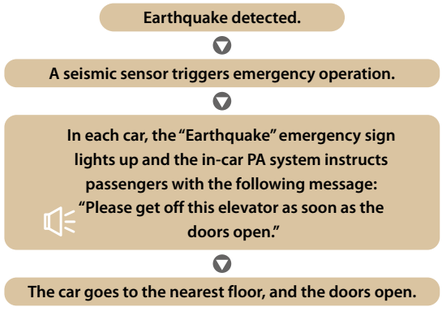


※Above flowchart is representable example

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.

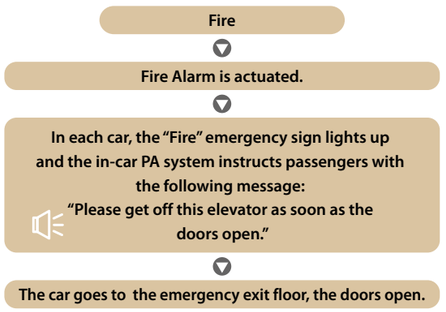


※Above flowchart is representable example

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

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.
Please consult our local distributor before adoption about the material and the color.

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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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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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

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OPTIONAL

DLX-24

OPTIONAL

SL-V1

OPTIONAL

DLC-1

STANDARD

SL-1

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SHOP

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 Transon	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 Operationg Panel

HB-G1

HI-G1

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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 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

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Hall Design

Hall design 6 STANDARD

Hall Jamb	Narow 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

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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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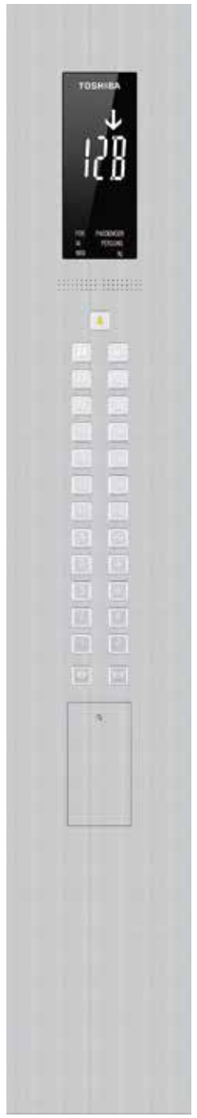
Operation Systems

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

※Note: Applicable to Wide Car type models

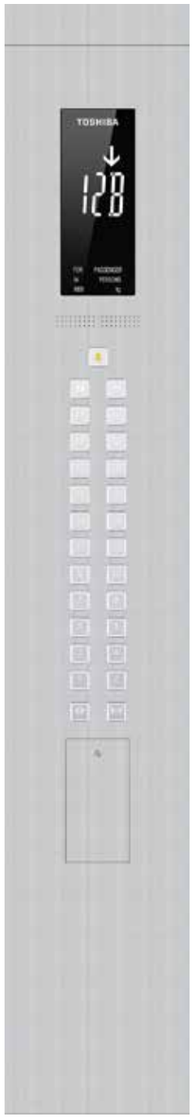
POP type



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

HIB-G1NL

STANDARD

12mm

HIB-G2NL

STANDARD

LED Dot Matrix

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

HIB-G1NL-L

OPTIONAL

12mm

HIB-G2NL-L

OPTIONAL

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

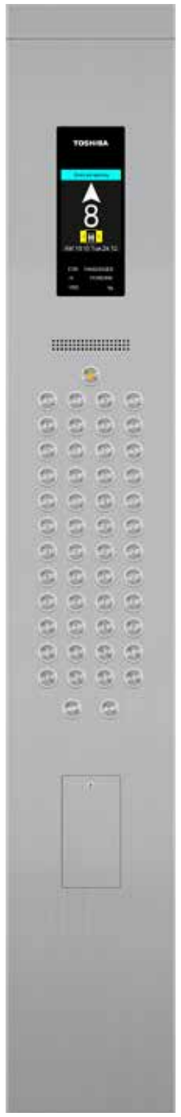
POP type

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-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
NB-1	NB-1A	NB-1B
NB-2	NB-2A	NB-2B
UB-1	UB-1A	UB-1B
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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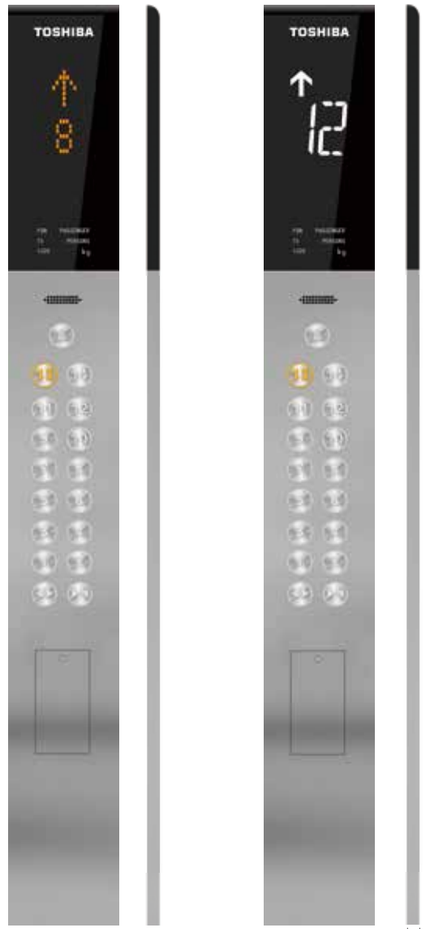
Operation Systems

Car Operation Panel & Hall Indicator Button : G1N　series

※Note: Applicable to Wide Car type models

COP type



COP-G1N
OPTIONAL
10mm

COP-G1N-70S
OPTIONAL
10mm

Button Line-up

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

SL-1

HIB type

LCD Segment

HIB-G1N-43S
OPTIONAL
15mm

HIB-G2N-43S
OPTIONAL

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.

HIB-G1N
OPTIONAL
15mm

HIB-G2N
OPTIONAL

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Operation Systems

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

※Note: Applicable to Wide Car type models

COP type

COP-G1L-57B
(5.7 inch LCD)
OPTIONAL

3mm

HIB type

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

3mm

Button Line-up

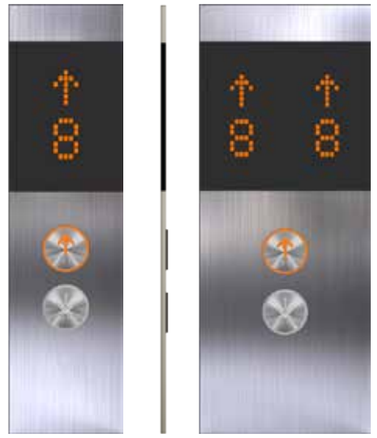
KB-1	KB-1A	KB-1B
KB-2	KB-2A	KB-2B
KB-3	KB-3A	KB-3B
KB-4	KB-4A	KB-4B
KB-7	KB-7A	KB-7B
KB-8	KB-8A	KB-8B

COP type

COP-G1K-O
OPTIONAL

10mm

HIB type



HIB-G1K3-O
OPTIONAL

3mm

HIB-G2K3-O
OPTIONAL

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

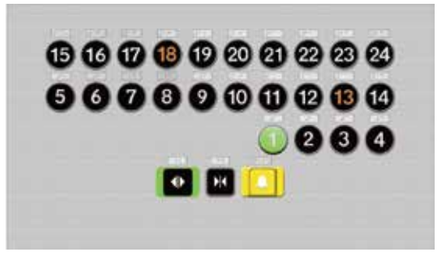
Car Operation Panel : HCOP series

※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
		

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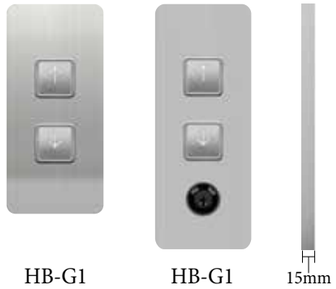
Operation Systems

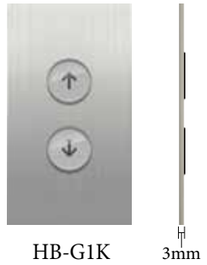
Hall Button OPTIONAL



HB-G1

HB-G1
with parking SW

15mm



HB-G1K

3mm

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

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Hall Lantern

Hall Lantern OPTIONAL

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

HL-G1-O
（Orange light）

HL-G2-W
(White light)

HL-G3-O
(Orange light)

HL-G4-O
(Orange light)

Hall 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

HI-G1L-57B

With monitoring

Controlled status

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Operation Systems

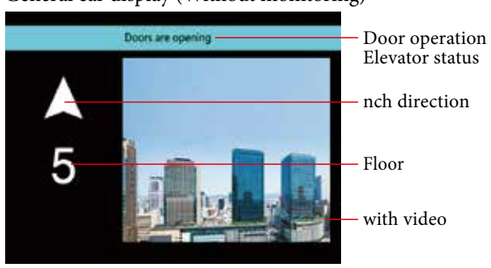
Car Position Indicator

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

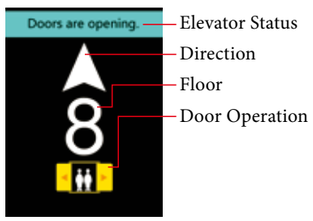
General car display (Without monitoring)



General car display (With monitoring)

Display under controlled status

8.4 inch Color LCD



▲With monitoring

▲With video

▲Fire emergency operation

5.7 inch Color LCD

General car display

With monitoring

With video

Controlled status

LCD Segment

LED Segment

LED Dot matrix

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

Functions

○ : STANDARD △ : OPTIONAL

Functions	Notes	Descriptions	
Operations	Simplex selective-collective fully automatic operation	Fully automatic operation by hall and car calls for single car	○
	Duplex selective collective fully automatic operation	Fully automatic operation for 2 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	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 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.	△
	Service floor cut-off selection [Manual]	Iinstalling 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.	△

○ : STANDARD △ : OPTIONAL

Functions	Notes	Descriptions	
Service Functions	Full car bypass	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	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 [1 car or 2 car]	A chime installed in the lift lobby will sound when the lift arrives	△
	Hall chime [Group control]	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 [Single entrance (Front side retuen panel)]	Additional car operating panel	△
	Sub car operating panel [Double entrance (Rear side retuen 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 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	○
	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	△

Works by Others

Works below are not included in elevator installation works:

▶ Hoistways

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

▶ Machine rooms

1. Construction work for machine rooms and installation works for their entrances (including sound proofing work if necessary)
2. Fire-proofing work for machine rooms and opening work for machine room floors.
3. Installation work of machine beam supports and spacers.
4. Cinder concreting and its finishing work after floor piping in machine rooms.
5. Installation work of hooks or beams on ceilings in machine rooms.
6. Installation work of stairs leading to machine rooms and stairs in machine rooms (if necessary)
7. Installation work of lighting windows.
8. Dust-proof finish of the floor.

▶ Works for Equipment

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

▶ Temporary Works

The following matters must be arranged:

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 to ensure sufficient passage for carrying heavy goods.
5. Regarding the use of the elevator for the building construction work, a contract with a separate written estimate is required.

Note

When planning elevator equipments, please take the following items into consideration:

1. Provide the power facility so that the voltage regulation of power supply at the receiving terminals in the hoistway is kept within ±10% for motor, and ±2% for lighting equipments.
2. In the hoistways, please ensure the temperature does not exceed 40 ˚C and humidity 90% (monthly mean) and 95% (daily mean).
3. Please do not allow ingress of chemically toxic gas or excess amount of dust enter into the hoistways, that makes the metal or electrical contacts corrode.

For the estimate inquiry,
please inform us of the following:

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

Memo

Global Network

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● 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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