

ELCOSMO-III
TOSHIBA **COMPACT MACHINE ROOM** ELEVATORS
STANDARD PASSENGER ELEVATOR



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

"THE SOLUTIONS"

TOSHIBA ELEVATOR AND BUILDING SYSTEMS CORPORATION

SOLUTIONS
from
TOSHIBA
ELEVATORS

World Fastest

Environment

Stylish and
Comfortability

World's Tallest
Free Standing
Broadcasting
Tower

Large Capacity

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-ups

Toshiba offers wide variety of compact-machine-room elevator line-ups, which include 8-26 passengers elevators and through type double entrance elevators. To meet diversification of customer's demand, sufficient options are also available.

COMPANY SOLUTIONS

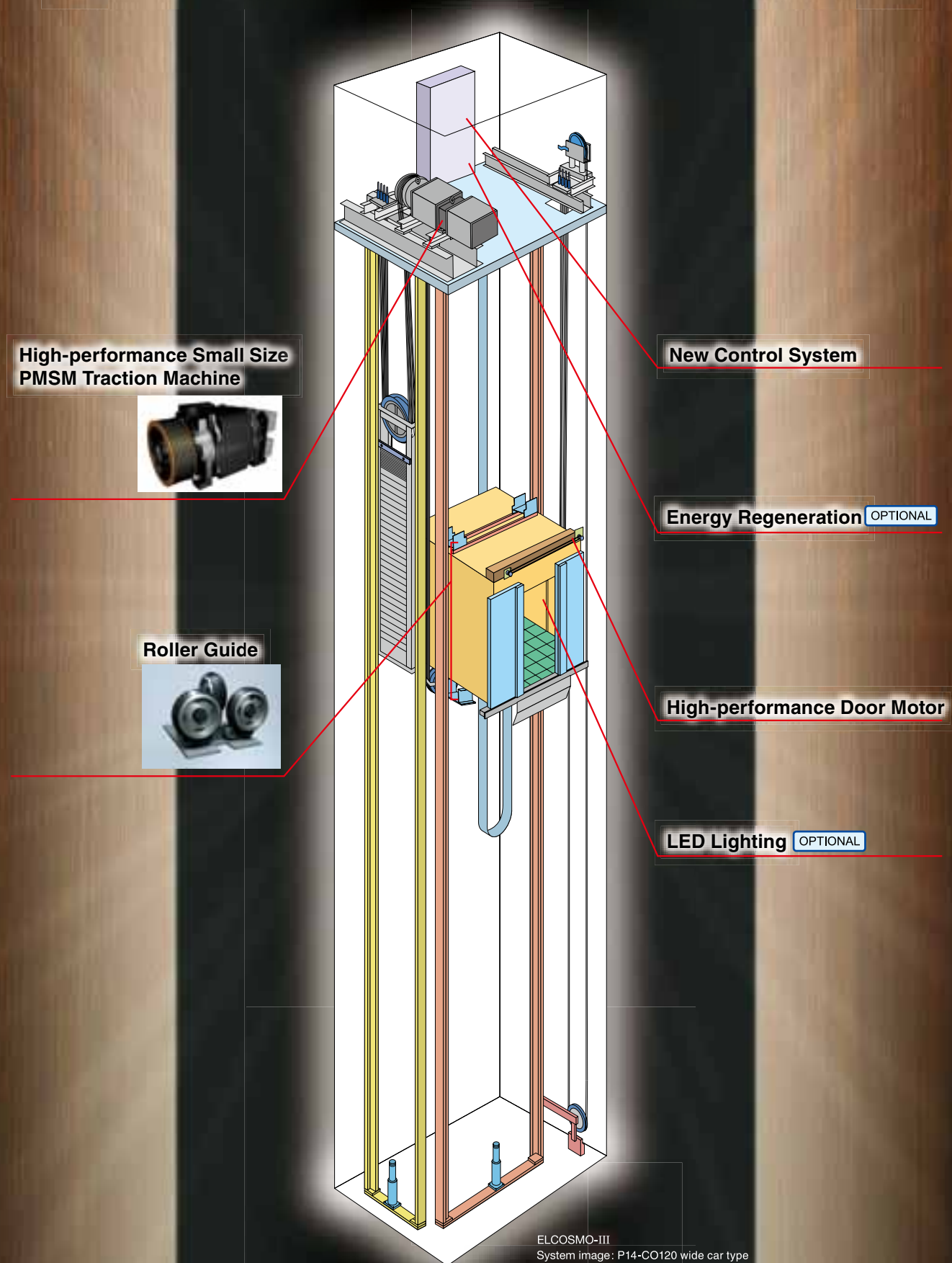
Toshiba Elevator and Building Systems Corporation has built a framework which encompass all aspects from system development to production, sales to marketing, installation, adjustment, maintenance and services in order to provide clients with highest quality products and services. Utilizing the comprehensive technological infrastructure developed by Toshiba Group over more than 135 years since its foundation, we aim to enhance the leading edge technology and quality that enabled us to develop the world's fastest elevator, harnessing the full range of Toshiba's technological innovations. To respond to clients' expectations and requirements for safe and pleasant elevators and 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.

Scope of application	Range of application
Passenger (persons)	8 – 26 persons
Rated load (kg)	630 – 2000 kg
Rated speed (m/s)	1 – 3 m/s

Rated speed (m/s)	3																		
	2.5																		
	2																		
	1.75																		
	1.6																		
	1																		
Rated load (kg)	630	825	1050	1150	1275	1350	1600	1800	2000										
Type	P8	P11	P14	P15	P17	P18	P21	P24	P26										

Note
-The above scope complies with GB7588:2003 standard.

Technology



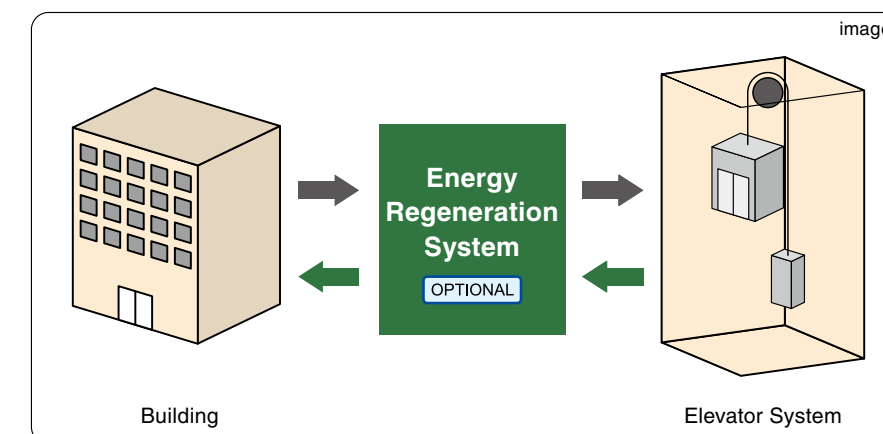
Technology for Energy Conservation

■ New Control Systems

High performance CPU is employed for advanced newly-developed control system. This control system enables to reduce standby electricity and enables automatic shutoff system for lightings and ventilation to contribute more reduction of electricity.

■ Energy Regeneration System OPTIONAL

Energy regenerative 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).



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

Traction Machine Designed and Manufactured by Toshiba

- ◆ Toshiba has manufactured motors for over 100 years since 1895. The motors produced by Toshiba promise better quality assurance and quality control.
- ◆ Compact PMSM (Permanent Magnet Synchronous Motor) for space saving.
- ◆ Over 30% deduction in power consumption (compared to conventional electric motor).
- ◆ Gearless traction without gear oil for low vibration, low noise and better environmental conservation.



Use of Roller Guide

Roller guide is used instead of the conventional sliding guide shoe. It is featured with:

- ◆ 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: The parts such as lubrication oil and lubrication unit are eliminated and replaced with long-life rubber roller to reduce environmental pollution.

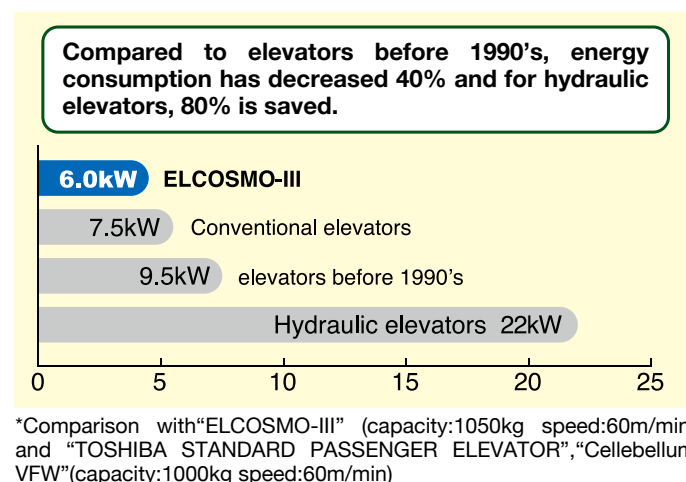


Environmental Issue

In order to propose safe and secure elevator, ELCOSMO-III focuses on environmental issues. The advanced technologies for energy consumption and resource saving concept offers high concerns for environmental consciousness.

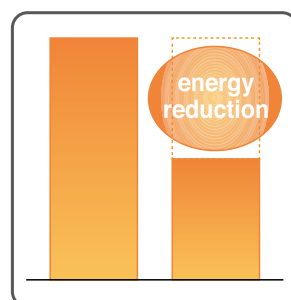
Energy Saving

ELCOSMO-III employs newly developed compact gearless PMSM motor which enable high energy efficiency. Furthermore, by using gearless motor, gear oil will not be necessary so it can contribute for saving natural resource.



Energy Regeneration System OPTIONAL

Toshiba emphasizes on environmental conservation. The consumption of energy feedback system is different from using regenerative resistance. Energy regenerative device feeds energy back to the power grid while the traction machine is under power generation to achieve high-efficiency energy utilization and suppress the temperature rise in the machine room, which results in over 38% energy conservation (with the assumption of 1050kg, 1.75m/s, 12-hour operation per day, 25 days per month).



LED Lightings

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



Car design:TL-1 OPTIONAL

Resource Saving

Eliminating lubricant oil for guide rail

By employing roller guide for both car and counter weight instead of guide shoe lubricant oil will not be necessary which guide shoe required.



Reducing Hazardous Materials

Reduction of lead use

By changing to the lead less fixing rope method, it results to reduce lead use.

Employing LED lightings

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

Lead-free Design of Printed Circuit Board, RoHS Compliance and Elimination of Specific Chemical Substances (15 Classifications)

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

ELCOSMO-III, approved as ToshibaGroup's "Excellent ECP" product.

Toshiba group seeks to create environmentally conscious products and for all the products created, we set a goal to develop No.1 environmentally suitable products. Within Toshiba group, we approve environmentally high potential products as "Excellent ECP" products and ELCOSMO-III is one of the approved products as "Excellent ECP".

Car Design

Car Ceiling
SL-V 1

STANDARD



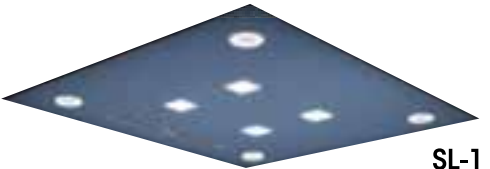
※Sample :
P14-CO120 wide car type

OPTIONAL

LED Lighting



SL-V2



SL-1



SL-2



SL-3



STANDARD

Ventilation apertures

Car Design

Four LED lights at the center, even lighting, no flashing

Ventilation	At the front of car ceiling
Car panels	Lacquer finish steel panel
Car door	Lacquer finish steel panel
Car operating panel	COP-G1S-1A-O
Car indicator	Car operating panel with digital car indicator
Flooring	Vinyl tile

Car Ceiling
TL-1

OPTIONAL



※Sample :
P14-CO120 wide car type

Car Design

Flower pattern LED lights at the center, and round LED lights at corners, with elegant appearance

Ventilation	At the front of car ceiling
Car panels	Hairline finish stainless steel
Car door	Mirror finish stainless steel
Car operating panel	COP-G1U-4A-O
Car indicator	Car operating panel with digital car indicator
Flooring	Vinyl tile

Car Ceiling
DX-21

OPTIONAL



※Sample :
P14-CO120 wide car type

Car Design

Down-light with propylene panel at the center, frosted acrylic on both sides

Ventilation	At the rear of car ceiling
Car panels	Hairline finish stainless steel
Car door	Mirror finish stainless steel
Car operating panel	COP-G1K-7A-O
Car indicator	Car operating panel with digital car indicator
Flooring	Vinyl tile
Hand rail	Hairline finish stainless steel round type hand rail

Car Design

Car Ceiling
DX-22 OPTIONAL



※Sample :
P14-CO120 wide car type

Car Design
Acrylic at the center, down-light propylene panel on both sides.

Ventilation	At the rear of car ceiling
Car panels	Hairline finish stainless steel, Mirror etching finish stainless steel
Car door	Mirror finish stainless steel
Car operating panel	COP-G1K-7A-O
Car indicator	Car operating panel with digital car indicator
Flooring	Vinyl tile
Hand rail	Hairline finish stainless steel round type hand rail

Car Ceiling
DX-23 OPTIONAL



※Sample :
P14-CO120 wide car type

Car Design
Large-area lighting, simple and neat, high luminance

Ventilation	At the rear of car ceiling
Car panels	Black titanium hairline finish stainless steel, Mirror finish stainless steel
Car door	Black titanium hairline finish stainless steel
Car operating panel	COP-G1S-1A-O, with black titanium face plate
Car indicator	Car operating panel with digital car indicator
Flooring	Vinyl tile

Car Ceiling
DX-24 OPTIONAL



※Sample :
P14-CO120 wide car type

Car Design
Large-area lighting, white square pattern at the center

Ventilation	At the rear of car ceiling
Car panels	Hairline finish stainless steel
Car door	Hairline finish stainless steel
Car operating panel	COP-G1S-1A-O
Car indicator	Car operating panel with digital car indicator
Flooring	Vinyl tile

Car Ceiling
DX-25 OPTIONAL



※Sample :
P14-CO120 wide car type

Car Design
Golden car decoration combined with symmetrical top looks steady and magnificent.

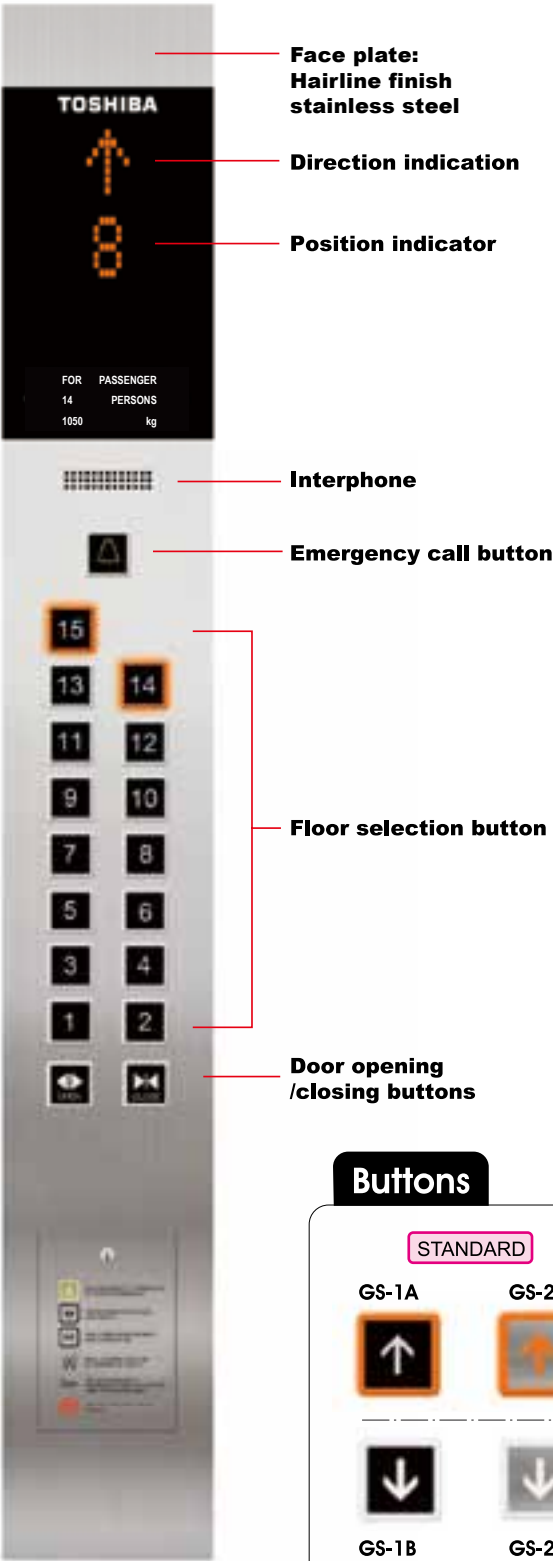
Ventilation	At the rear of car ceiling
Car panels	Yellow titanium mirror finish stainless steel, Yellow titanium hairline finish stainless steel
Car door	Yellow titanium mirror finish stainless steel
Car operating panel	COP-G1S-1A-O, with yellow titanium face plate
Car indicator	Car operating panel with digital car indicator
Flooring	Vinyl tile
Hand rail	Hairline finish stainless steel round type hand rail

Operating Panel Design

G1S Series

Thick Type

Car Operating Panel



COP-G1S-1A-O

Thick Type

STANDARD

Hall Indicator Button



HIB-G1S-1A-O HIB-G2S-1A-O
※ "Operation indicator" can not mount on the faceplate of Hall indicator button.



Hall Button

Thick Type

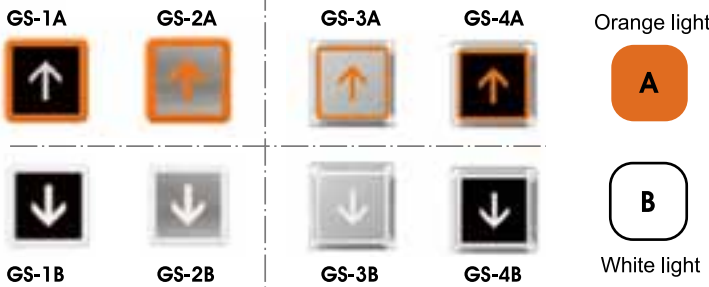


HB-G1S-1A

Buttons

STANDARD

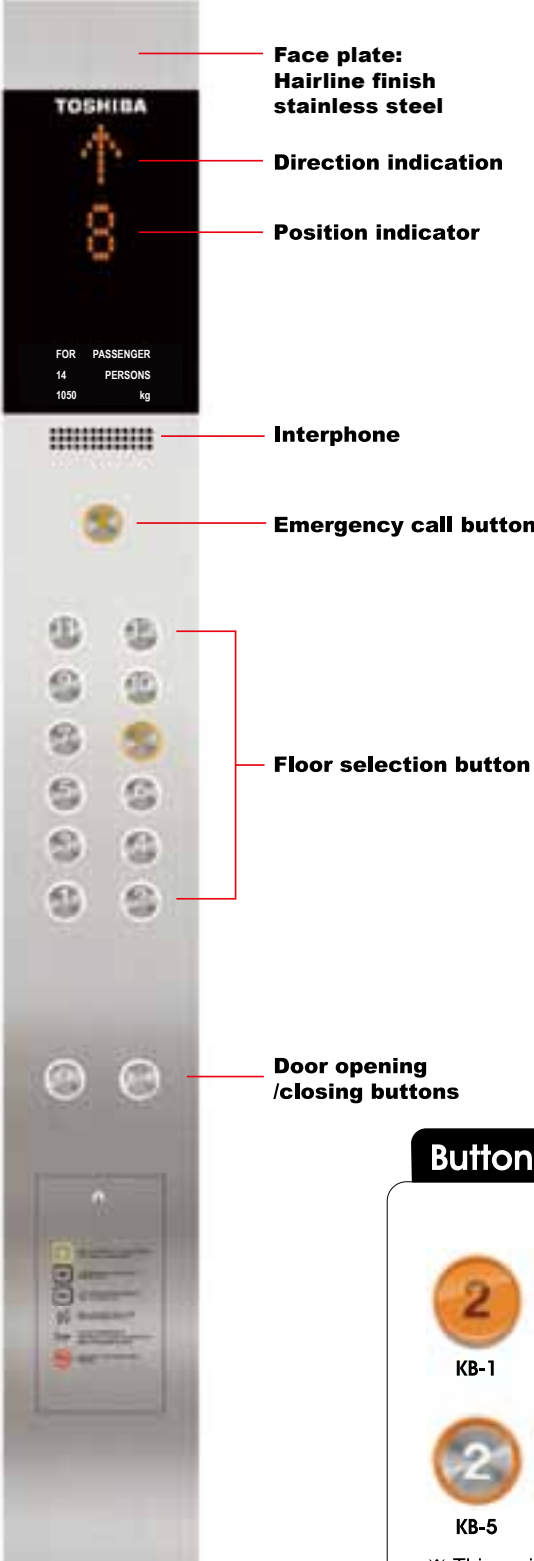
OPTIONAL



G1K Series

Thick Type

Car Operating Panel



COP-G1K-7A-O

Thin Type

OPTIONAL

Hall Indicator Button



HIB-G1K-7A-O HIB-G2K-7A-O
※ "Operation indicator" can mount on the faceplate of Hall indicator button.



Hall Button

Thin Type



HB-G1K-7A

Buttons

OPTIONAL



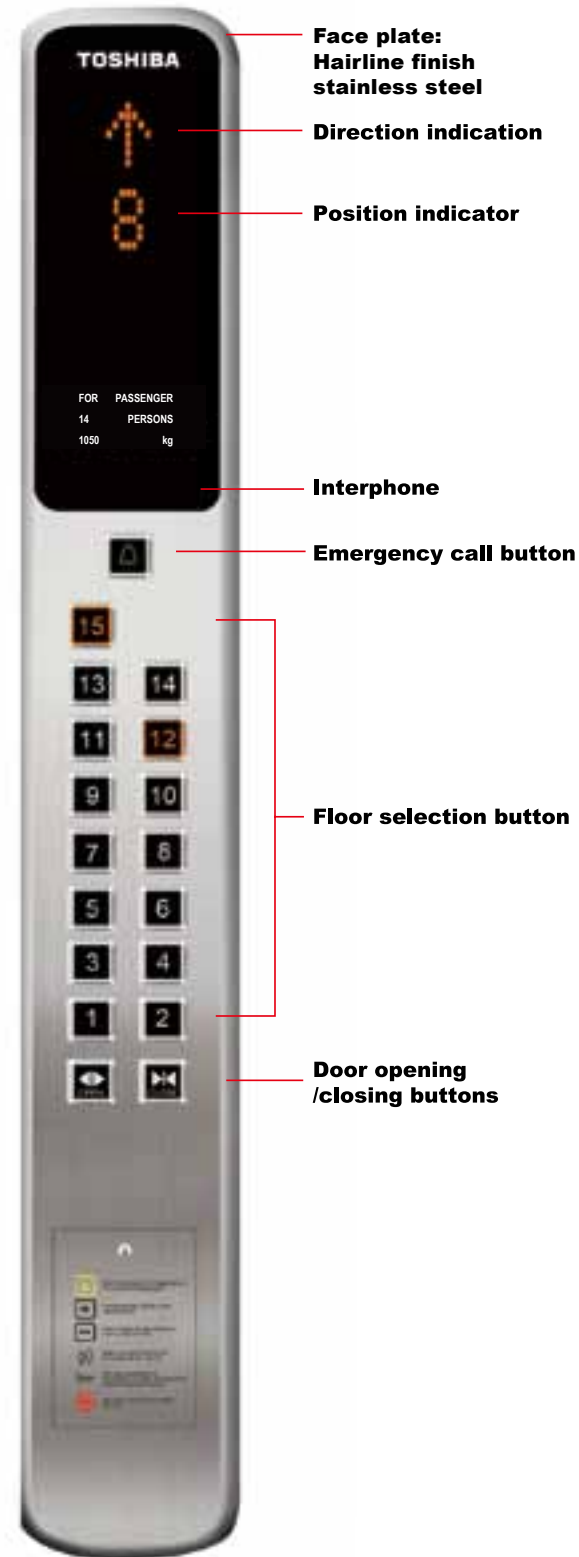
※ This series of buttons are used for thin type faceplate design.

Operating Panel Design

G1U Series

Thick Type

Car Operating Panel



COP-G1U-4A-O

Thick Type

OPTIONAL

Hall Indicator Button

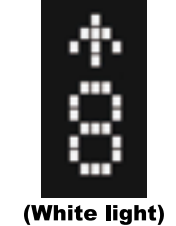


※ "Operation indicator" can not mount on the faceplate of Hall indicator button.

ORANGE



WHITE



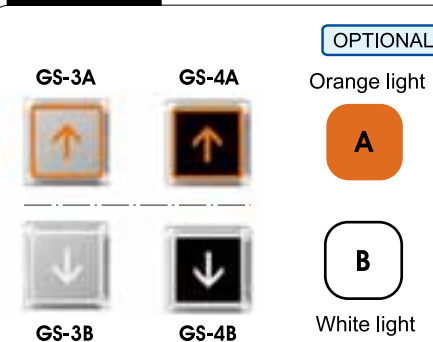
Thick Type



HB-G1S-1A

Hall Button

Buttons



Hall design decorations

Hall Indicator



HI-G1

Hall Lantern

OPTIONAL



HL-G1



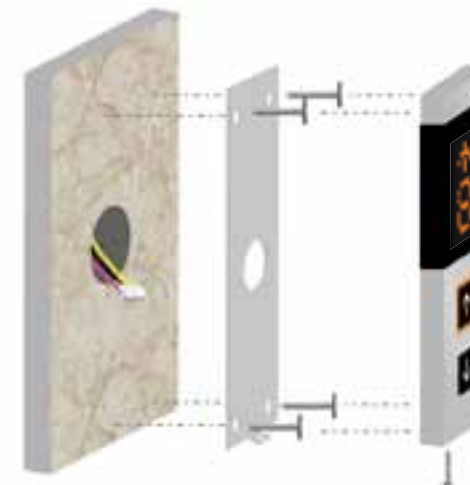
HL-G2

※ LED lighting colour of Hall lantern can be chosen from orange or white.

Installation for Hall Indicator Button

* G1S, G1U Series

- Thick type design and compact size
- Φ60 threading holes, without damages to the building



Simple Installation Structure

* G1S, G1U Series

- Hidden screw fixing, better aesthetic, secure, steal-proof



- Parking switch is separated from HIB, better design flexibility for faceplate



* G1K Series : Thin type design for faceplate.

Hall Design

Other Optional Items



STANDARD

- Hall jamb**
Narrow type jamb (lacquer finish steel panel):
- Hall door**
Lacquer finish steel panel
- Hall position indicator button : HIB-G1S-1A-O**
Digital car indication
- Hall sill**
Hardened aluminium

OPTIONAL

- Hall jamb**
Wide type jamb (Hairline finish stainless steel panel)
- Hall door**
Hairline finish stainless steel panel
- Hall position indicator : HI-G1**
Digital car indication
- Hall lantern : HL-G1**
Translucent acrylic, Hairline finish stainless steel panel
- Hall sill**
Hardened aluminium
- Hall button : HB-G1S-1A**
Thick Type faceplate

HANDRAIL (OPTIONAL)

Hairline finish stainless steel round type hand rail

Hairline finish stainless steel flat type hand rail

STEEL PANEL PAINTING (STANDARD)

1N	3N	37YR	41YR	52YR	62Y	66Y	77G	114PB
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FLOOR TILE (STANDARD)

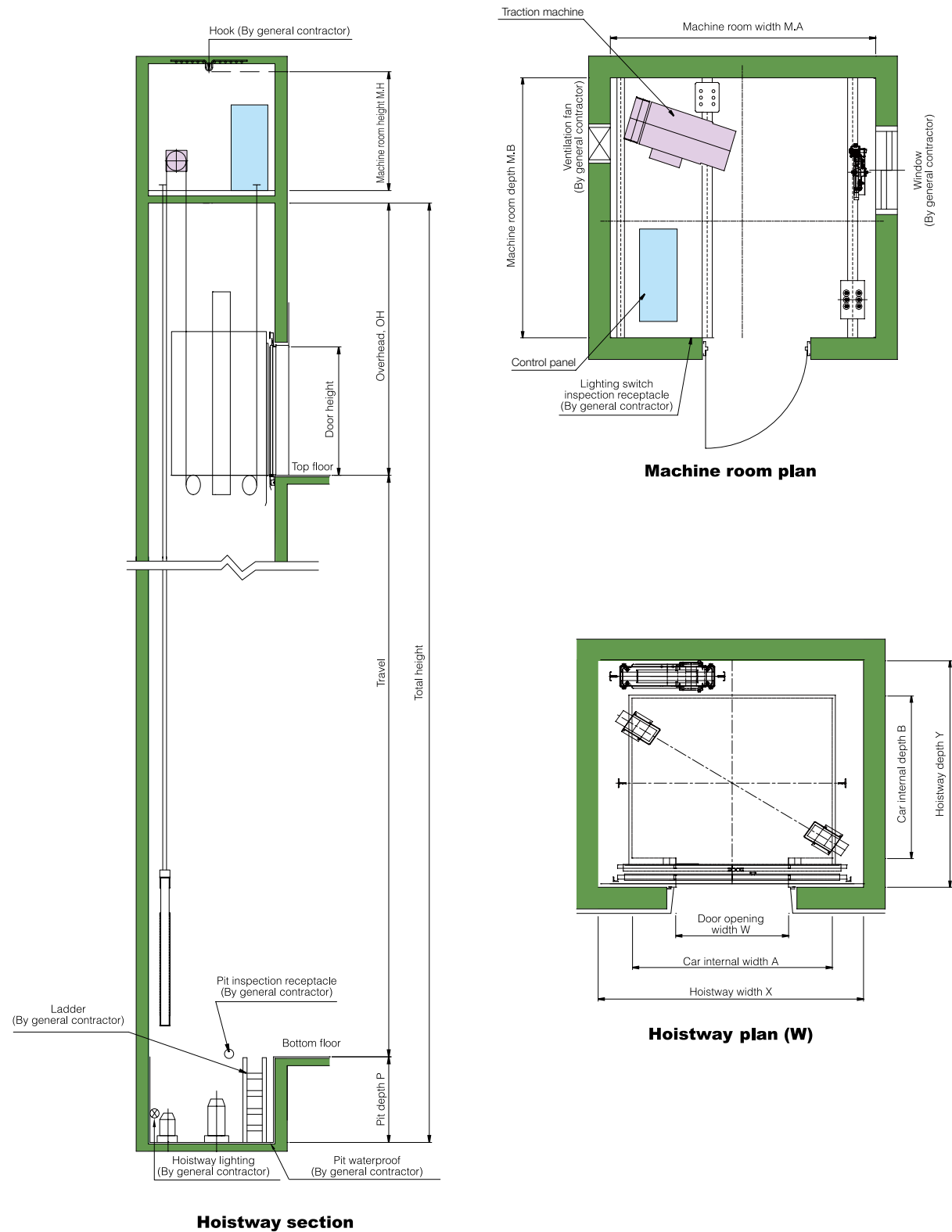
MID806	MID809	MID815	MID823	MID829	MID831	MID832	MID833	MID834
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FLOOR TILE (OPTIONAL)

TSF-1A	TSF-1B	TSF-1C	TSF-1D
TSF-1E	TSF-2A	TSF-2B	TSF-2C

Hoistway Layout

Specifications



Type	Nos.of Person	Capacity (Kg)	Speed (m/s)	Cage size Internal(A×B) (mm)	Door width W (mm)	Hoistway size(mm)			Machine room dimensions (mm)		Motor capacity (kw)	Max. service stops (s)	Max. travel (m)
						X×Y	OH	P	M.A×M.B	M.H			
P8-CO60	W	8	1	1400×1100	CO 800	1950×1710	3900	1300	1950×1710	2000	3.6	40	90
					CO 900	2050×1710			2050×1710				
P8-CO96	W		1.6		CO 800	1950×1710	4100	1400	1950×1710		5.8		100
					CO 900	2050×1710			2050×1710				
P8-CO105	W		1.75		CO 800	1950×1710	4150	1450	1950×1710		6.3		100
					CO 900	2050×1710			2050×1710				
P8-CO120	W		2		CO 800	1950×1710	4250	1650	1950×1710		7.2		125
					CO 900	2050×1710			2050×1710				
P8-CO150	W		2.5		CO 800	※	※	※	※	※	※	※	※
					CO 900	※			※				
P11-CO60	W	11	1	1400×1350	CO 800	1950×1960	3900	1300	1950×1960	2000	4.7	40	90
					CO 900	2050×1960			2050×1960				
P11-CO96	W		1.6		CO 800	1950×1960	4100	1400	1950×1960		7.5		100
					CO 900	2050×1960			2050×1960				
P11-CO105	W		1.75		CO 800	1950×1960	4150	1450	1950×1960		8.3		100
					CO 900	2050×1960			2050×1960				
P11-CO120	W		2		CO 800	1950×1960	4250	1650	1950×1960		9.5		125
					CO 900	2050×1960			2050×1960				
P11-CO150	W		2.5		CO 800	1950×1960	4450	2100	1950×1960		11.8		125
					CO 900	2050×1960			2050×1960				
P14-CO60	W	14	1	1600×1400	CO 900	2200×2010			2200×2010	2000	6	40	90
					CO 1000	2300×2010	3900	1300	2300×2010				
					CO 1100	2500×2010			2500×2010				
P14-CO96	W		1.6		CO 900	2200×2010			2200×2010		9.7		100
					CO 1000	2300×2010	4100	1400	2300×2010				
					CO 1100	2500×2010			2500×2010				
P14-CO105	W		1.75		CO 900	2200×2010			2200×2010		10.5		100
					CO 1000	2300×2010	4150	1450	2300×2010				
P14-CO120	W		2		CO 1100	2500×2010			2500×2010				
					CO 900	2200×2010			2200×2010		12		125
					CO 1000	2300×2010	4250	1650	2300×2010				
P14-CO150	W		2.5		CO 1100	2500×2010			2500×2010				
					CO 900	2200×2010			2200×2010		15		125
					CO 1000	2300×2010	4450	2100	2300×2010				
					CO 1100	2500×2010			2500×2010				

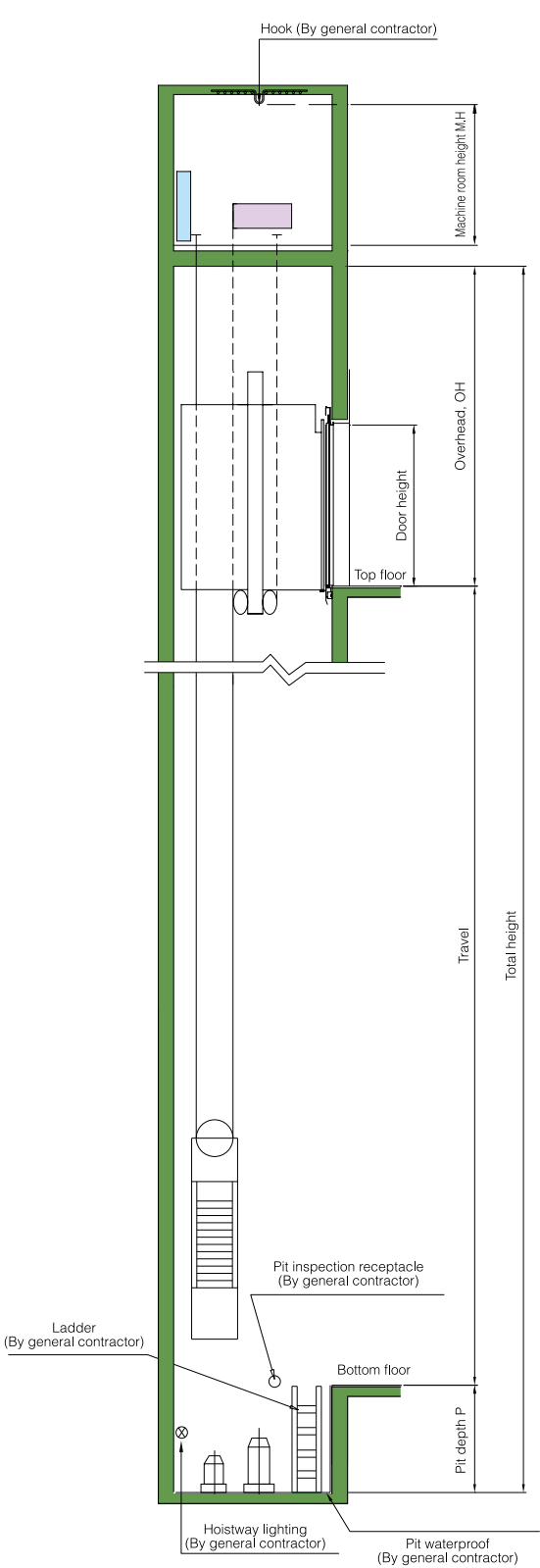
※ Please contact us.

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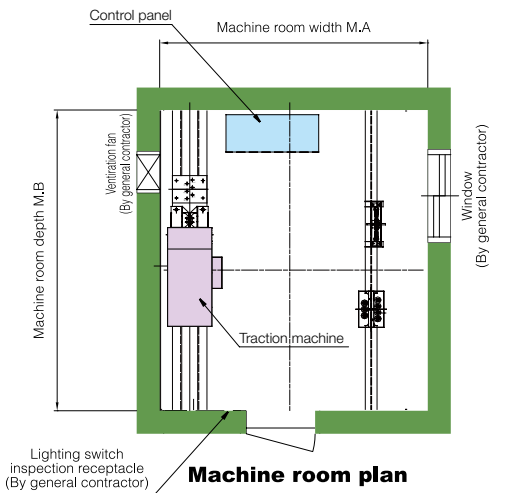
- The above table complies with GB7588:2003 standards.
- Please contact to our local agency to check for other standards.
- Hoistway dimensions are the minimum dimension after the building work.
- Hoistway dimensions are the minimum requirement.
- The hoistway structure wall must be 150mm thick or more.
- Piping, wiring and cables not related to elevator are prohibited inside the hoistway.
- In case that more than one (simplex) elevator is required, please contact us.
- If the size of the hoistway is greater than above sizes, OH will be larger, please contact us.
- Example: P14W, W: Wide car

Hoistway Layout

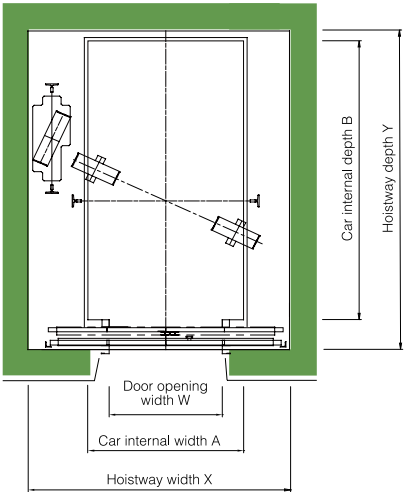
Specifications



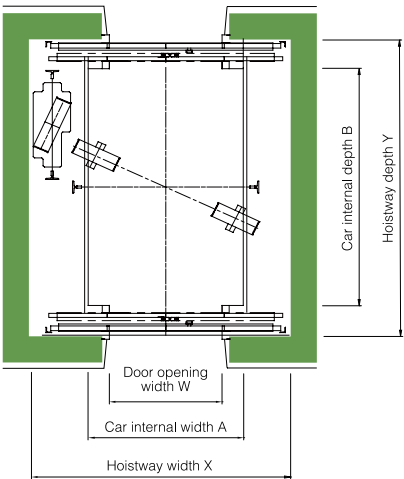
Hoistway section



Machine room plan



Hoistway plan (D)



Hoistway plan (D2)

Type		Nos.of Person	Capacity (Kg)	Speed (m/s)	Cage size Internal(A×B) (mm)	Door width W (mm)	Hoistway size(mm)			Machine room dimensions (mm)		Motor capacity (kw)	Max. service stops (s)	Max. travel (m)											
							X×Y	OH	P	M,A×M,B	M,H														
P8-CO60	D	8	630	1	1100×1400	CO 800	1835×1725	3900	1300	1835×1725	2000	3.6	40	90											
P8-CO96	D					CO 900	2020×1725			2020×1725					5.8	100									
P8-CO105	D					CO 800	1835×1725	4100	1400	1835×1725		2020×1725		6.3			100								
P8-CO120	D					CO 900	2020×1725			1835×1725		2020×1725			7.2	125									
P8-CO150	D					2.5	CO 800	※	※	※		※		※			※	※	※						
							CO 900	※				※		※	※	※	※	※	※						
P11-CO60	D					11	825	1	1100×1700	CO 800		1850×2000		3900	1300	1850×2000	2000	4.7	40	90					
	D2									CO 900		2020×2000				2020×2000			80						
	P11-CO96	D	1.6	CO 800	1850×2150					4100	1400	1850×2150	2020×2150			7.5			40		100				
		D2		CO 900	2020×2150							1850×2150	2020×2150						80						
P11-CO105		D		1.75	CO 800			1850×2000				4150	1450	1850×2000	2020×2000			8.3	40	100					
		D2			CO 900			2020×2000						1850×2150	2020×2150				80						
	P11-CO120	D	2		CO 800			1850×2150		4250	1650			1850×2150	2020×2150	9.5			40		125				
		D2			CO 900			2020×2150						1850×2150	2020×2150				80						
P11-CO150		D		2.5	CO 800			1850×2000				4450	2100	1850×2000	2020×2000			11.8	40	125					
		D2			CO 900			2020×2000						1850×2150	2020×2150				80						
	P14-CO60	D	14		1050			1		1100×2100	CO 800			1850×2400	3900	1300			1850×2400		2000	6	40	90	
		D2									CO 900			2020×2400					2020×2400				80		
P14-CO96		D		1.6							CO 800	1850×2550	4100	1400				1850×2550	2020×2550	9.7			40		100
		D2									CO 900	2020×2550						1850×2400	2020×2400				80		
	P14-CO105	D						1.75			CO 800	1850×2400			4150	1450		1850×2400	2020×2400			10.5	40	100	
		D2									CO 900	2020×2400						1850×2550	2020×2550				80		
P14-CO120		D		2							CO 800	1850×2550	4250	1650				1850×2550	2020×2550	12			40		125
		D2									CO 900	2020×2550						1850×2400	2020×2400				80		
	P14-CO150	D						2.5			CO 800	1850×2400			4450	2100		1850×2400	2020×2400			15	40	125	
		D2									CO 900	2020×2400						1850×2550	2020×2550				80		

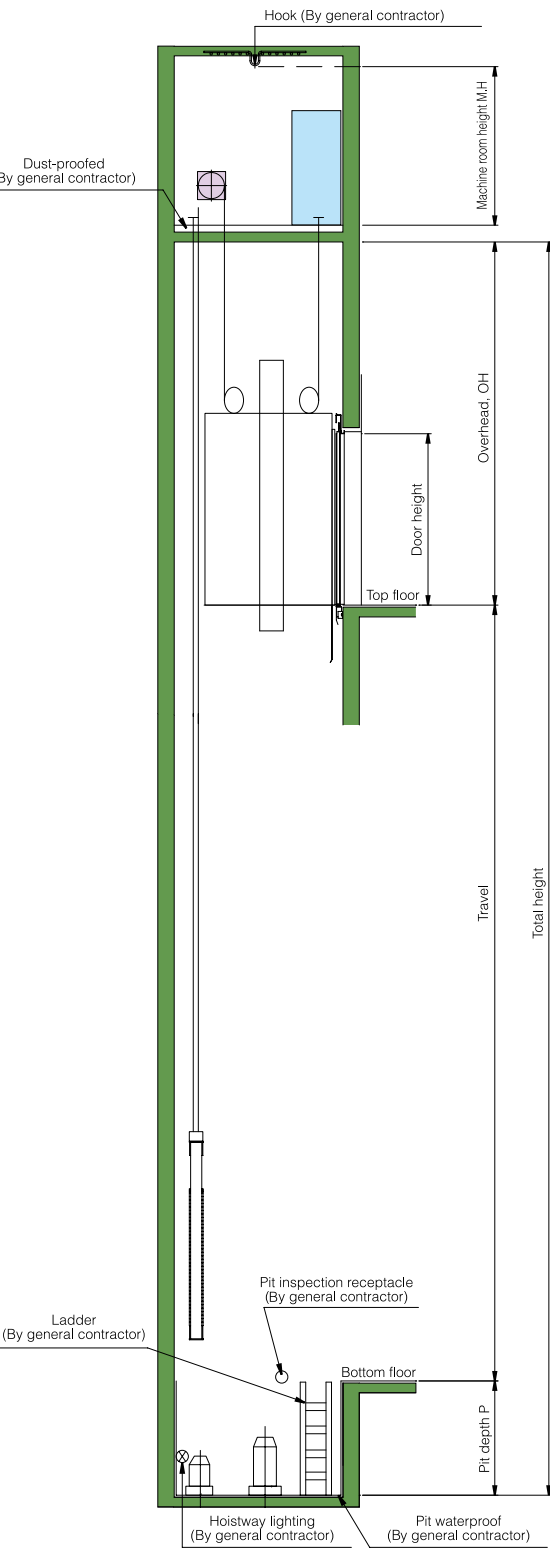
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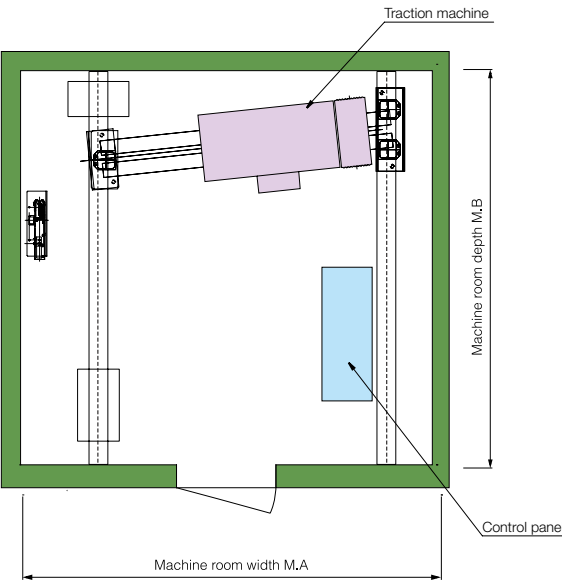
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- Piping, wiring and cables not related to elevator are prohibited inside the hoistway.
- In case that more than one (simplex) elevator is required, please contact us.
- If the size of the hoistway is greater than above sizes, OH will be larger, please contact us.
- Example: P14W, W: Wide car, D: Deep car, D2: Front and rear opening door

Hoistway Layout

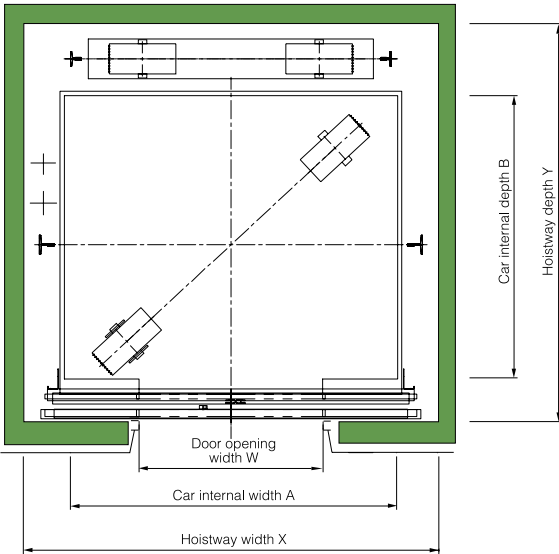
Specifications



Hoistway section



Machine room plan



Hoistway plan

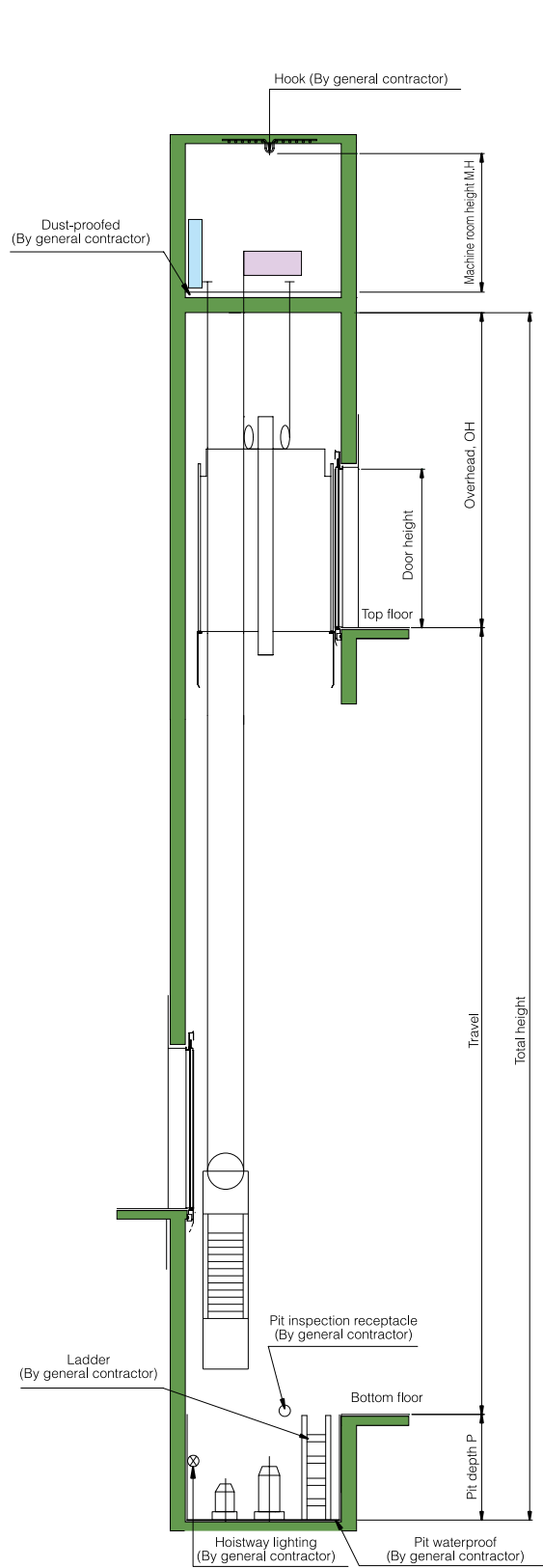
Type		Nos.of Person	Capacity (Kg)	Speed (m/s)	Cage size Internal(A×B) (mm)	Door width W (mm)	Hoistway size(mm)			Machine room dimensions (mm)		Motor capacity (kw)	Max. service stops (s)	Max. travel (m)							
							X×Y	OH	P	M.A×M.B	M.H										
P14-CO180	W W	14	1050	3	1600×1400	CO 900 CO 1000	2100×2090 2200×2090	4950	2500	2100×2090 2200×2090	2000	20.0	48	150							
P15-CO60	W W	15	1150	1	1800×1500	CO 1000 CO 1100	2300×2190 2450×2190	3900	1300	2300×2190 2450×2190	2000	8.0	48	90							
P15-CO96	W W			1.6		CO 1000 CO 1100	2300×2190 2450×2190	4050	1400	2300×2190 2450×2190		12.0		100							
	P15-CO105					W W	1.75	CO 1000 CO 1100	2300×2190 2450×2190	4100		1450		2300×2190 2450×2190	14.0	100					
P15-CO120				W W		2		CO 1000 CO 1100	2300×2190 2450×2190	4200		1600		2300×2190 2450×2190	16.0	150					
	P15-CO150			W W			2.5	CO 1000 CO 1100	2300×2190 2450×2190	4500		2000		2300×2190 2450×2190	20.0	150					
P15-CO180				W W		3		CO 1000 CO 1100	2300×2190 2450×2190	4950		2500		2300×2190 2450×2190	22.0	150					
P17-CO60	W			17		1275	1	2000×1400	CO 1100	2500×2090		3900		1300	2500×2090	2000	8.0	48	90		
P17-CO96	W						1.6										4050		1400	14.0	100
P17-CO105	W						1.75										4100		1450	14.0	100
P17-CO120	W						2										4200		1600	16.0	150
P17-CO150	W	2.5	4500		2000		20.0				150										
P17-CO180	W	3	4950		2500		24.0				150										
P18-CO60	W	18	1350	1	2000×1500	CO 1100	2500×2190	3900	1300	2500×2190	2000	8.7	48	90							
P18-CO96	W			1.6								4050		1400	14.0	100					
P18-CO105	W			1.75								4100		1450	16.0	100					
P18-CO120	W			2								4200		1600	18.0	150					
P18-CO150	W			2.5								4500		2000	22.0	150					
P18-CO180	W			3								4950		2500	26.0	150					
P21-CO60	W W	21	1600	1	2000×1700	CO 1100 CO 1200	2500×2390 2700×2390	3900	1300	2500×2390 2700×2390	2000	12.0	48	90							
P21-CO96	W W			1.6		CO 1100 CO 1200	2500×2390 2700×2390	4050	1400	2500×2390 2700×2390		18.0		100							
	P21-CO105					W W	1.75	CO 1100 CO 1200	2500×2390 2700×2390	4100		1450		2500×2390 2700×2390	18.0	100					
P21-CO120				W W		2		CO 1100 CO 1200	2500×2390 2700×2390	4200		1600		2500×2390 2700×2390	22.0	150					
	P21-CO150			W W			2.5	CO 1100 CO 1200	2500×2390 2700×2390	4500		2000		2500×2390 2700×2390	26.0	150					
P21-CO180				W W		3		CO 1100 CO 1200	2500×2390 2700×2390	4950		2500		2500×2390 2700×2390	32.0	150					
P24-CO60	W			24		1800	1	2100×1750	CO 1200	2700×2440		3900		1300	2700×2440	2000	12.0	48	90		
P24-CO96	W						1.6										4050		1400	20.0	100
P24-CO105	W						1.75										4100		1450	20.0	100
P24-CO120	W						2										4200		1600	24.0	150
P24-CO150	W	2.5	4500		2000		30.0				150										
P24-CO180	W	3	4950		2500		34.0				150										
P26-CO60	W	26	2000	1	2100×1950	CO 1200	2700×2640	3900	1300	2700×2640	2000	14.0	48	90							
P26-CO96	W			1.6								4050		1400	22.0	100					
P26-CO105	W			1.75								4100		1450	22.0	100					
P26-CO120	W			2								4200		1600	26.0	150					
P26-CO150	W			2.5								4500		2000	32.0	150					
P26-CO180	W			3								4950		2500	38.0	150					

Note:

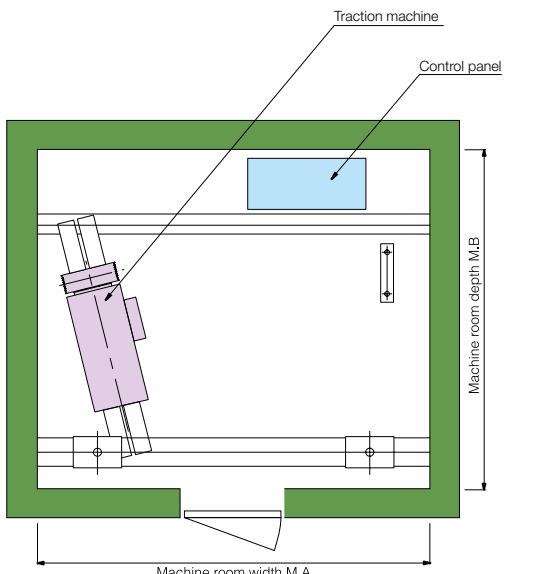
- The above table complies with GB7588:2003 standards.
- Please contact to our local agency to check for other standards.
- Hoistway dimensions are the minimum dimension after the building work.
- Hoistway dimensions are the minimum requirement.
- The hoistway structure wall must be 150mm thick or more.
- Piping, wiring and cables not related to elevator are prohibited inside the hoistway.
- In case that more than one (simplex) elevator is required, please contact us.
- If the size of the hoistway is greater than above sizes, OH will be larger, please contact us.
- Example: P14W, W: Wide car

Hoistway Layout

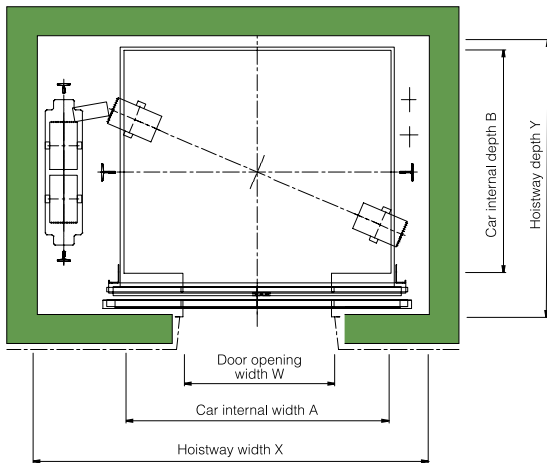
Specifications



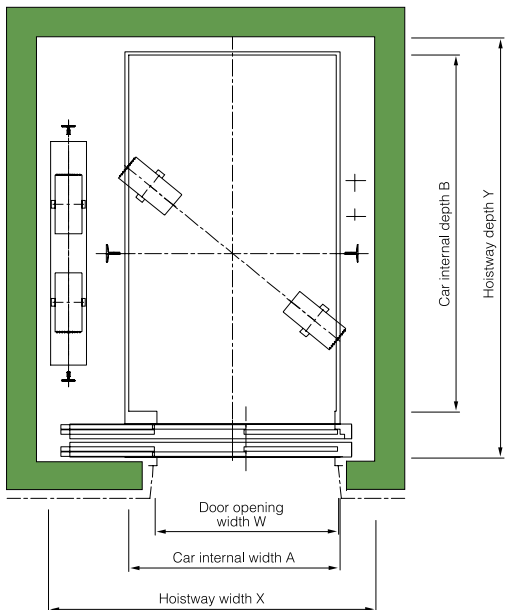
Hoistway section



Machine room plan



Typical floor hoistway plan (W)



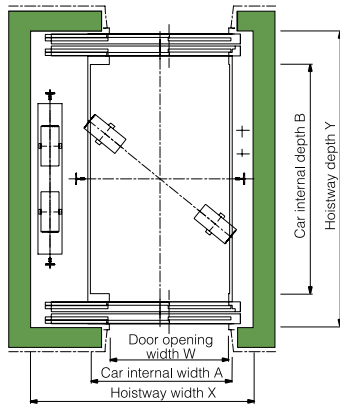
Typical floor hoistway plan (D)

Type		Nos.of Person	Capacity (Kg)	Speed (m/s)	Cage size Internal(A×B) (mm)	Door width W (mm)	Hoistway size(mm)			Machine room dimensions (mm)		Motor capacity (kw)	Max. service stops (s)	Max. travel (m)		
							X×Y	OH	P	M.A×M.B	M.H					
P14-CO180	W	14	1050	3	1600×1400	CO 900	2450×1860	4950	2500	2450×1860	2200	20.0	48	150		
	W					CO 1000	2500×1860			2500×1860						
P15-CO60	W	15	1150	1	1800×1500	CO 1000	2650×1880	3900	1300	2650×1880	2200	8.0	48	90		
	W					CO 1100	2700×1880			2700×1880						
P15-CO96	W			1.6		CO 1000	2650×1880	4050	1400	2650×1880		12.0		100		
	W					CO 1100	2700×1880			2700×1880						
P15-CO105	W			1.75		CO 1000	2650×1880	4100	1450	2650×1880		14.0		100		
	W					CO 1100	2700×1880			2700×1880						
P15-CO120	W			2		CO 1000	2650×1880	4200	1600	2650×1880		16.0		150		
	W					CO 1100	2700×1880			2700×1880						
P15-CO150	W			2.5		CO 1000	2650×1880	4500	2000	2650×1880		20.0		150		
	W					CO 1100	2700×1880			2700×1880						
P15-CO180	W			3		CO 1000	2650×1880	4950	2500	2650×1880		22.0		150		
	W					CO 1100	2700×1880			2700×1880						
P17-2S60	D	17	1275	1	1200×2300	2S 1100	2080×2750	3900	1300	2080×2750	2200	8.0	48	90		
P17-2S96	D											14050		1400	14.0	100
P17-2S105	D											4100		1450	14.0	100
P17-2S120	D											4200		1600	16.0	150
P17-2S150	D											4500		2000	20.0	150
P17-2S180	D											4950		2500	24.0	150
P17-2S60	D2	17	1275	1	1200×2200	2S 1100	2080×2870	3900	1300	2080×2870	2200	8.0	※			
P17-2S96	D2											4050			1400	14.0
P17-2S105	D2											4100			1450	14.0
P17-2S120	D2											4200			1600	16.0
P17-2S150	D2											4500			2000	20.0
P17-2S180	D2											4950			2500	24.0
P21-2S60	D	21	1600	1	1400×2400	2S 1200	2280×2850	3900	1300	2280×2850	2200	12.0	48	90		
P21-2S96	D											4050		1400	18.0	100
P21-2S105	D											4100		1450	18.0	100
P21-2S120	D											4200		1600	22.0	150
P21-2S150	D											4500		2000	26.0	150
P21-2S180	D											4950		2500	32.0	150
P21-2S60	D2	21	1600	1	1400×2300	2S 1200	2280×2970	3900	1300	2280×2970	2200	12.0	※			
P21-2S96	D2											4050			1400	18.0
P21-2S105	D2											4100			1450	18.0
P21-2S120	D2											4200			1600	22.0
P21-2S150	D2											4500			2000	26.0
P21-2S180	D2											4950			2500	32.0

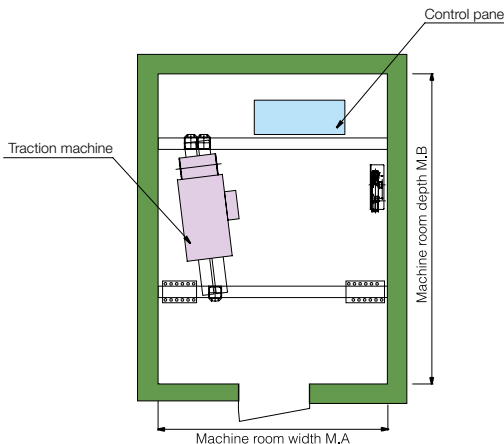
※ Please contact us.

Note:

- The above table complies with GB7588:2003 standards.
- Please contact to our local agency to check for other standards.
- Hoistway dimensions are the minimum dimension after the building work.
- Hoistway dimensions are the minimum requirement.
- The hoistway structure wall must be 150mm thick or more.
- Piping, wiring and cables not related to elevator are prohibited inside the hoistway.
- In case that more than one (simplex) elevator is required, please contact us.
- If the size of the hoistway is greater than above sizes, OH will be larger, please contact us.
- Example: P14W, W: Wide car, D: Deep car, D2: Front and rear opening door



Typical floor hoistway plan (D2)



Machine room plan

List of Functions

Related Work for Elevator Construction

●

STANDARD

○

OPTIONAL

	NOTES			NOTES	
Operations	Selective-collective full automatic operation	●	Service functions	Nuisance call cancellation (manual)	●
	2-car group selective collective full automatic operation Note 1	○		In-car prank cancellation Note 4	●
	3 and 4-car group supervisory operation system Note 1	○		Running times record	●
	Group supervisory full automatic operation	○		Data automatic recording function at the time of failure	●
	Independent operation	○		Repetitive door opening safety	●
	Attendant operation	○		Car indicator	●
Safety functions	Automatic landing function in system failure	●		Adjustable door open timing	●
	Automatic withdrawn from group operation	●		Door open extension button	○
	Inspection operation (INS)	●		Car chime	○
	Overload protection	●		Hall chime	○
	Overspeed protection	●		Hall full load indicator	○
	Fireman's operation Note 2	○		Hall lantern	○
	Fire emergency operation	●		Starting torque compensate	●
	Force landing feedback signal in emergency	●		Sub car operating panel	○
	In-car emergency operation displays	●		Hall out of service indicator	●
	Power failure emergency operation	○		Direction changing reopen	●
	Automatic landing in power failure	○		Parking operation (manual)	●
	Earthquake emergency operation	○		Automatic parking operation	○
	In-car emergency lamp (self-charging)	●		Lighting auto sleep	●
	Emergency electromotion succor (HRQ)	●		Ventilation auto sleep	●
	Braking security detection	●		Door open button lamp (as the car lighting has been cut off automatically)	●
	Emergency call button	●		Automatic selection clear upon direction reversal	●
	Motor racing protection	●		Five-way interphone	●
	Overload door reversal device	●		Group control in support running (only for group control)	○
	Mechanical door safety	●		Specific floor stop operation	○
	Photoelectric cell door safety	○	Interface contact	IC card system	○
	Infrared light curtain door safety	○		Announce feature	○
	2 in 1 door closing protection (light-beam curtain + mechanical shoe)	○		Supervisory panel	○
	Automatic leveling	●		Remote monitoring Note 5	○
Service functions	Pulse position abnormality automatic correction	●	Expandable functions	Interface for building automation system Note 6	○
	Car door zone position indicator	●		Cable for camera	○
	Power resupply automatic running	●		In-car BGM	○
	Main floor homing	○		Cable for CCTV monitoring	○
	Service cut-off selection (software interface)	○		Wheel-chair aid specification Note 7	○
	Service floor cutoff switch (manual)	○		Air conditioning exclusive for elevator Note 8	○
	Full car bypass Note 3	●			

Note

1: Not applicable to a through type car;
2: Fire emergency operation and Fireman service cannot be applied simultaneously.
3: Standard function for 2-car operation or 3-car operation.
4: >5 floors and in-car weight<150kg;

5: This function shall be otherwise contracted;
6: For the details of the interface for building automation system, please contact us.
7: Handrail and car operating panel are included;
8: Overhead (OH) has to be increased, please contact us for details.

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 required according to the necessity, in case the error of the structure is 30 mm or over.
2. Installation work of separating beams, intermediate beams, back beams and lateral beams (if necessary).
3. Fire-proofing work of steel frame material in steel structured hoistways, and fire-proofing work around landing entrances (if necessary).
5. Finishing works of walls and floors, etc., around entrances, after furnishing equipment related to landing entrances.
6. Furnishing work of base steel or others for furnishing rail brackets, especially in case the floor height is high (if necessary).
7. Installation of the pit ladders (and backfill work for pit if necessary)
8. Water-proofing work of the pit (including drainage if necessary).
9. Re-arrangement of the building plan if the space under the pit is to be used.
10. Installation work of emergency exits for rescue purpose if the floor to floor distance is too high.
11. Shelter equipment at landing entrances from direct rain contact.
12. Installation work of lighting in hoistway (if necessary).
13. Installation work of a guard fence to prevent falling into the pit (in case of pit levels are different.)
14. All works related to the building structure other than works above.

Machine rooms

1. Construction work of machine-rooms and installation works of 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 equipment, and of grounding to power source panels of elevators in the machine room.
2. Wiring work of the power supply to the supervisory panels.
3. Piping and wiring works of interphones outside machine rooms and of others necessary for elevators.
4. Supply and installation of switching devices for emergency power supply at the 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 hoistways.
6. Furnishing work of receptacles for inspection in pits.

Note

- Space for Indoor installation and material storage shall be provided free of charge.
- Guard fence shall be set up around the construction site.
- Electricity for installation work and trial run shall be provided free of charge.
- There shall be no exposed pipes such as piping for other purposes and ventilation pipes in the hoistway.
- Fluctuation of supply voltage: power supply for elevator within ±10%, power supply for lighting ±2%.
- Please keep the temperature in hoistway within 5°C-40°C, monthly average relative humidity of the most humid month below 90%, and average temperature per month is not higher than 25°C.
- For a special-structure hoistway, if the temperature in the hoistway exceeds 40°C, ventilation equipment shall be provided according to the installation environment.
- There shall be no wastes or toxic and harmful gas in hoistway.
- Neither hoistway nor entrance shall be exposed to weather to prevent embedded parts from corrosion.

Quotation and Consultation

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

1. Building name and address.

2. Desired type and number of set.

3. Number of stops.

4. Floor height.

5. Voltage and frequency of main power supply.

6. Desired completion date.