TOSHIBA

TOSHIBA MACHINE-ROOM-LESS ELEVATORS
STANDARD PASSENGER ELEVATOR

SPACEL-Ⅲ

2nd Edition

Safety Cautions

- Observance of relevant laws / regulations are required.
- Read the entire “Instruction Manual” carefully before use, for important information about safety, handling and operation.

TOSHIBA

Toshiba Elevator and Building Systems Corporation

72-34, Horikawa-cho, Saiwai-ku, Kawasaki
212-8585, Japan
PHONE: +81-44-331-7057 FAX: +81-44-548-9597

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

* Revised publication effective Sept. 2019

GK-F188(2)-19.09-4000-19.09(NS)

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

CONCEPT of SPACEL-Ⅲ

Toshiba manufactures elevators by applying the latest technology and improved elevator development skills. SPACEL-Ⅲ, the most recent high-end machine-room-less elevator, which incorporates various technologies to save energy and time, contributes to global environment.

■ Product Lineup

SPACEL-Ⅲ is well-suited to office buildings and apartments by the compact designed machine-room-less elevator.

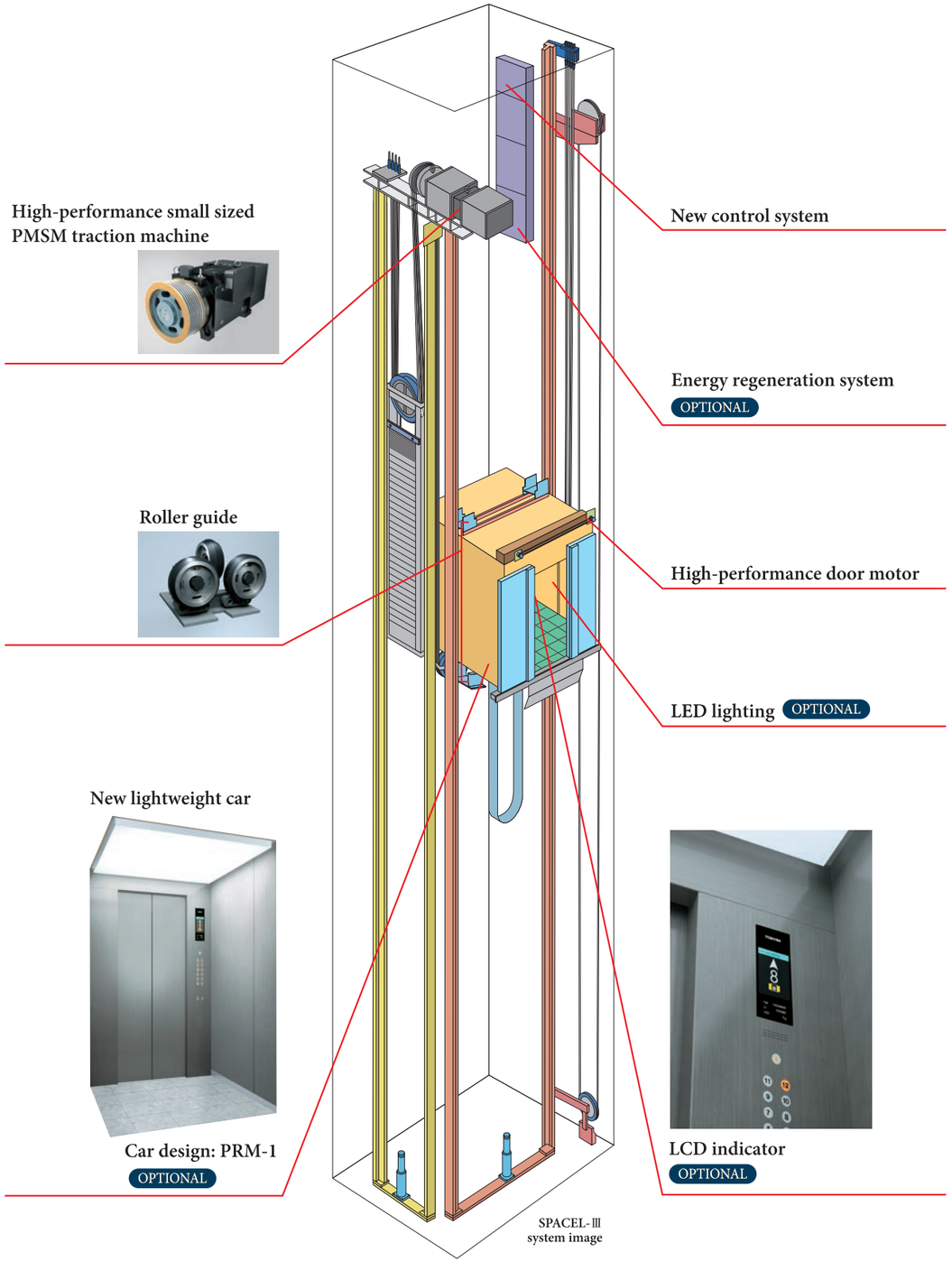
Scope of application	Range of application
Passengers (persons)	8–26 persons
Rated load (kg)	630–2000 kg
Rated speed (m/s)	1–2 m/s

Rated speed (m/s)	2	SPACEL-Ⅲ								
	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.

Contents

TECHNOLOGY



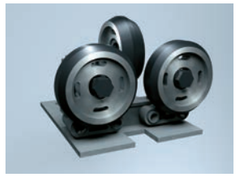
The actual product colors may vary slightly from those printed colors in this catalog.

New Technology

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% less 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



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.

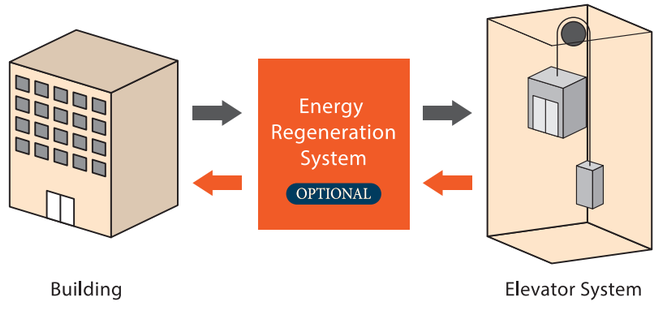
New Control Systems

A high performance CPU is employed for advanced newly developed control system. 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

Note: Applies to specification for models with a capacity of less than 1050kg and fewer 14 persons.

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).



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

TECHNOLOGY

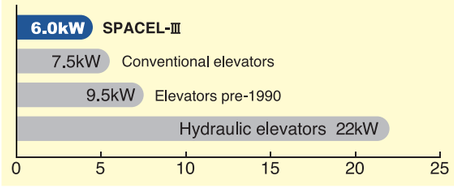
Environmental issues

In order to propose safe and secure elevator, SPACEL-Ⅲ focus on environmental issue. The advance technologies for energy consumption and resource saving concept offers high concerns for environmental consciousness.

Energy Saving

SPACEL-Ⅲ employs a newly developed compact gearless PMSM motor which enables high energy efficiency. Furthermore, by using a gearless motor, gear oil is not needed, which contributes to saving natural resources.

Compared to elevators before 1990's, energy consumption has decreased 40% and for hydraulic elevators, 80% is saved.



*Comparison with"SPACEL-Ⅲ" (capacity:1050kg speed:60m/min) and "TOSHIBA STANDARD PASSENGER ELEVATOR","Cellebellum VFW"(capacity:1000kg speed:60m/min)

Energy Regeneration System OPTIONAL

Toshiba focuses on environmental conservation. The consumption of energy feedback system is different from that of regenerative resistance. 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 and suppress a temperature increase 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).

Note: Applies to specification for models with a capacity of less than 1050kg and fewer 14 persons.

LED Lighting

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

Car design : PRM-1 OPTIONAL

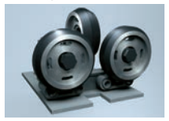
Resource Saving

Machine room less elevator

By eliminating machine room, various constructing procedure and materials will not be necessary.

Eliminating lubricant oil for guide rail

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



Reducing Hazardous Materials

Reduction of lead use

By changing method to tie rope, lead is not necessary in order to tie rope resulting to reduce lead use.

Employing LED lightings

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

Lead-free Design of 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 main circuit boards.

SPACEL-Ⅲ, approved as Toshiba Group'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 SPACEL-Ⅲ has been approved as an "Excellent ECP".

STYLISH and COMFORTABLE

PRM-1
Ceiling
All-area Glass fiber cloth lighting
(LED lights)

New Ceiling Design

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

Wide variety of newly developed LED lighting available.*Note 1

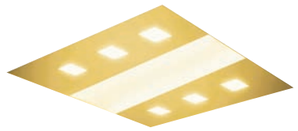
*Development of environmentally conscious LED lighting.

LED lighting is mercury-free, energy-saving and long life.
The electric consumption fall about 85% and the product life time will be increased 20 times.
Therefore LED lighting reduces CO_2 emissions.

Note 1: Applied in car design SL-V1, SL-V2, SL-3, TL-1, DLX-21, DLX-22, DLX-23, DLX-24, DLX-25, PRM-1, PRM-2.
Note 2: Car design SL-1, SL-2 has four square shaped lights at the center, and round LED light at corners.


PRM-1


PRM-2

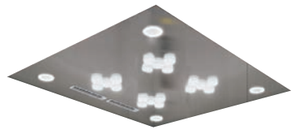

DLX-25 / DX-25

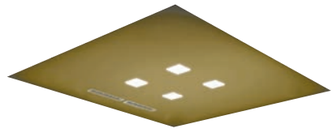

DLX-24 / DX-24

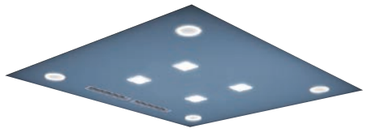

DLX-23 / DX-23

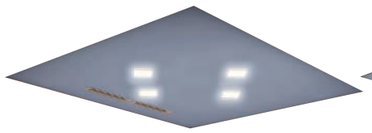

DLX-22 / DX-22


DLX-21 / DX-21


TL-1


SL-V1


SL-1


SL-V2


SL-2


SL-3

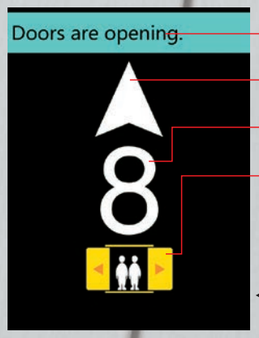
The actual product colors may vary slightly from those printed colors in this catalog.

STYLISH and COMFORTABLE

Large LCD indicator for car operation panel

These 10.4, 8.4 and 5.7 inch LCD indicators are capable of displaying the elevator's various conditions (emergency operations, maintenance status) in large icons and letters in highly visible colors.

OPTIONAL



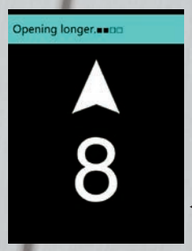
Elevator Status

Direction

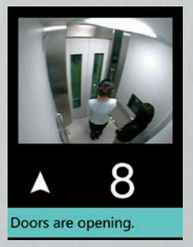
Floor

Door Operation

◀8.4 inch LCD
(POP-G1L)



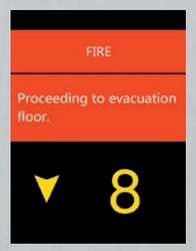
◀5.7 inch LCD
(COP-G1L)



OPTIONAL

Coordination with car operation panel indicator display and car security camera.

Large LCD indicator is capable of displaying visuals linked from car security camera.
There is no necessity to provide an extra monitor to display security camera's image.



Display examples
for car indicator display

◀Fire emergency operation

During emergency operation,
the display will announce the message in red.

*Capable of displaying optional operations such as fire emergency operation.

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

STYLISH and COMFORTABLE

Hall Design

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

Hall design 1

OPTIONAL

Hall design 2

OPTIONAL

Hall design 3

OPTIONAL

Hall design 4

OPTIONAL

Hall design 5

OPTIONAL

Hall design 6

STANDARD

*Note : Provided hall design specifications with the wide type jamb and transoms, when there is a need to adapt to fireproof specifications.

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

Functions

○ : STANDARD △ : OPTIONAL

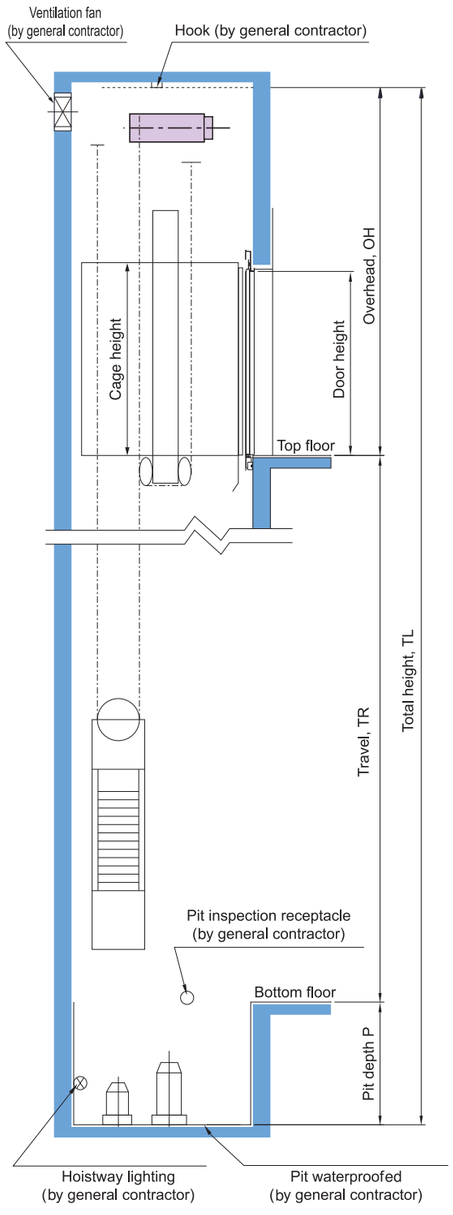
Functions	Notes	Descriptions	
Operations	Simplex selective-collective fully automatic operation	Fully automatic operation by hall and car calls for single car	○
	Duplex selective collective fully automatic operation (Note 1)	Fully automatic operation for 2 cars in the same group	△
	3 or 4-car group supervisory control system	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	△
	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	○
	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	○
	Door open when the lift car is overloaded	The doors will re-open when over load is detected, even during the closing of doors.	○
	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	△
	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	○
	Emergency operation indication at COP	In the event of an emergency, the emergency operation status will be displayed at COP	○
	Mechanical door safety	When the mechanical door safety device is touched by a passenger, the door will open	○
	Multi-beam door safety sensor (or light curtain door safety sensor)	When the multi-beam door safety device senses a passenger, the door will open	△
	2-in-1 door safety (multi-beam door safety + mechanical door safety)	A combination of multi-beam door safety and mechanical door safety	△
Service Functions	Home landing	To reduce passenger waiting time, the lift will return to the designated floor and stand by	△
	Service floor cut-off selection	Disables the designated floor service	△

Notes
1: Not applicable to lift car with through door.
2: > 5 floors and car weight < 150kg.

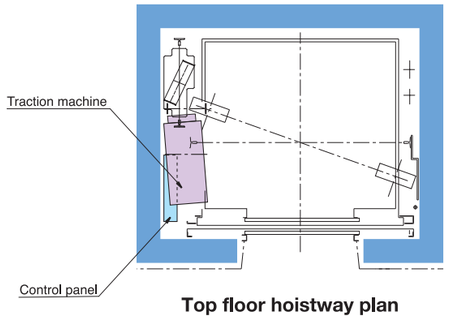
○ : STANDARD △ : OPTIONAL

Functions	Notes	Descriptions	
Service Functions	Full car bypass (Note 2)	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	○
	Repeated door opening	When an obstacle is detected, the door will repeatedly open and close until the obstacle is removed	○
	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	△
	Hall lantern	The hall lantern will light up when the lift arrived	△
	Sub-car operating panel	Additional car operating panel	△
	Car full load indicator	"Full Load" will display on the hall indicator when the lift car is full	△
	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	△

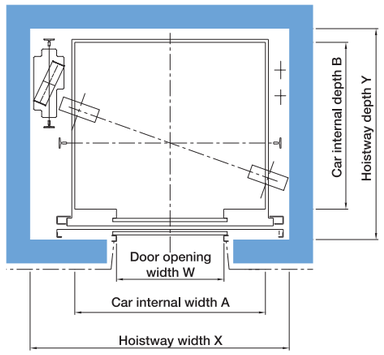
Hoistway Layout



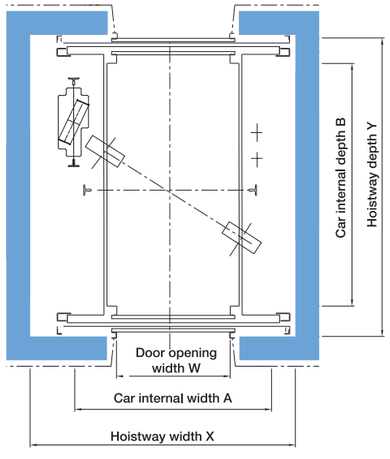
Hoistway section



Top floor hoistway plan



Typical floor hoistway plan (W, D)



Typical floor hoistway plan (D2)

Specifications

Type		Nos.of Person	Capacity (kg)	Speed (m/s)	Cage size Internal(A×B) (mm)	Door with W (mm)	Hoistway size(mm) X×Y	OH	P	Motor Capacity (kW)	Max.Service Stops(s)	Max.Travel (m)
P8-CO60	W	8	630	1	1400×1100	800	1985×1610	3700	1300	3.6	40	80
						900	2145×1610					
	D				1100×1400	800	1835×1725					
						900	2020×1725					
P8-CO96	W			1.6	1400×1100	800	1985×1610	3900	1400	5.8	40	100
						900	2145×1610					
	D				1100×1400	800	1835×1725					
						900	2020×1725					
P8-CO105	W			1.75	1400×1100	800	1985×1610	3950	1450	6.3		
						900	2145×1610					
	D				1100×1400	800	1835×1725					
						900	2020×1725					
P8-CO120	W			2	1400×1100	800	1985×1610	4050	1650	7.2		
						900	2145×1610					
	D				1100×1400	800	1835×1725					
						900	2020×1725					
P11-CO60	W	11	750	1	1400×1350	800	2000×1720	3700	1300	3.6	40	80
						900	2100×1720					
	D				1100×1700	800	1850×2000					
						900	2020×2000					
	D2				1100×1700	800	1850×2150				※	
						900	2020×2150					
P11-CO96	W			1.6	1400×1350	800	2000×1720	3900	1400	5.8	40	100
						900	2100×1720					
	D				1100×1700	800	1850×2000					
						900	2020×2000					
	D2				1100×1700	800	1850×2150				※	
						900	2020×2150					
P11-CO105	W			1.75	1400×1350	800	2000×1720	3950	1450	6.3	40	
						900	2100×1720					
	D				1100×1700	800	1850×2000					
						900	2020×2000					
	D2				1100×1700	800	1850×2150				※	
						900	2020×2150					
P11-CO120	W			2	1400×1350	800	2000×1720	4050	1650	7.2	40	
						900	2100×1720					
	D				1100×1700	800	1850×2000					
						900	2020×2000					
	D2				1100×1700	800	1850×2150				※	
						900	2020×2150					
P14-CO60	W	14	950	1	1600×1400	900	2200×1770	3700	1300	3.6	40	80
						1000	2300×1770					
						1100	2400×1770					
	D				1100×2100	900	1850×2400					
						1000	2020×2400					
	D2				1100×2100	900	1850×2550				※	
						1000	2020×2550					
P14-CO96	W			1.6	1600×1400	900	2200×1770	3900	1400	5.8	40	100
						1000	2300×1770					
						1100	2400×1770					
	D				1100×2100	900	1850×2400					
						1000	2020×2400					
	D2				1100×2100	900	1850×2550				※	
						1000	2020×2550					
P14-CO105	W			1.75	1600×1400	900	2200×1770	3950	1450	6.3	40	
						1000	2300×1770					
						1100	2400×1770					
	D				1100×2100	900	1850×2400					
						1000	2020×2400					
	D2				1100×2100	900	1850×2550				※	
						1000	2020×2550					
P14-CO120	W			2	1600×1400	900	2200×1770	4050	1650	7.2	40	
						1000	2300×1770					
						1100	2400×1770					
	D				1100×2100	900	1850×2400					
						1000	2020×2400					
	D2				1100×2100	900	1850×2550				※	
						1000	2020×2550					

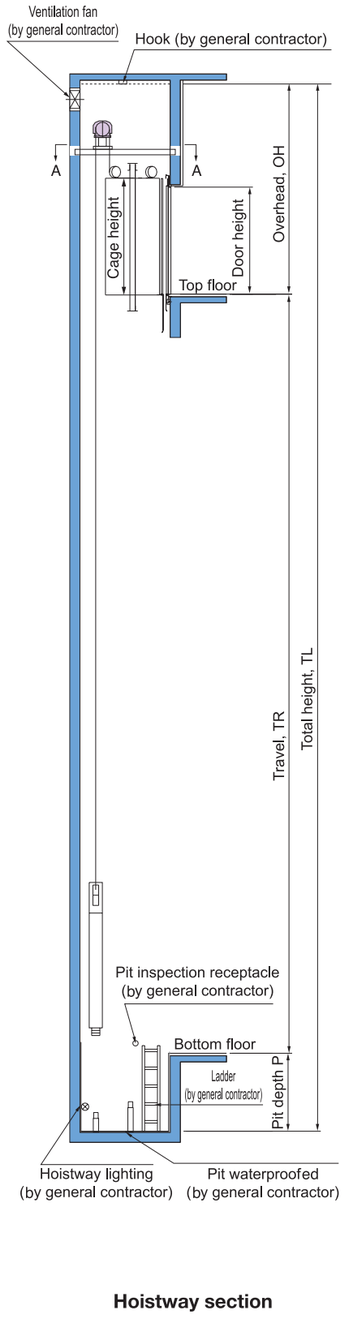
※ Please consult our local distributor.

Note:

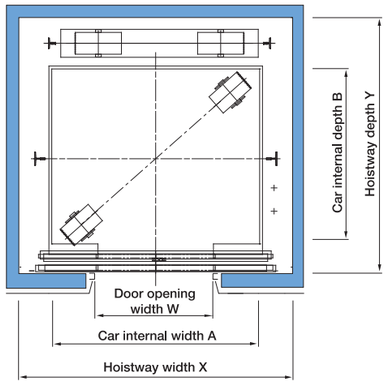
- The above table complies with GB7588:2003 standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- Please contact to our local distributor to check for other standards.
- Hoistway dimensions are the minimum dimension after the construction 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.
- The above data table of “OH” dimensions is based cage height: 2300mm. Please contact our local distributor to check for other conditions.
- 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.

W: Wide car D: Deep car D2: Front and rear opening door

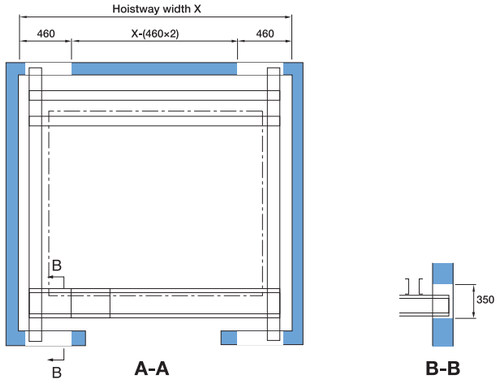
Hoistway Layout



Hoistway section

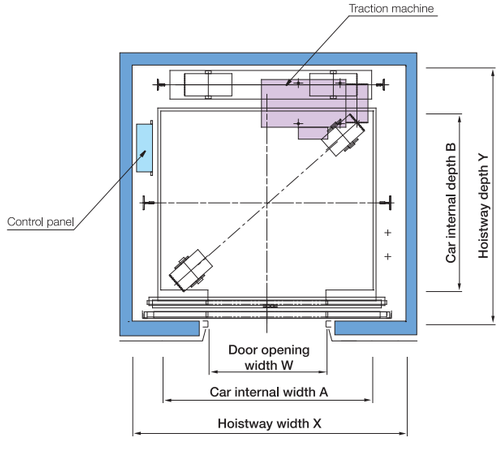


Typical floor hoistway plan



A-A

B-B



Top floor hoistway plan

Specifications

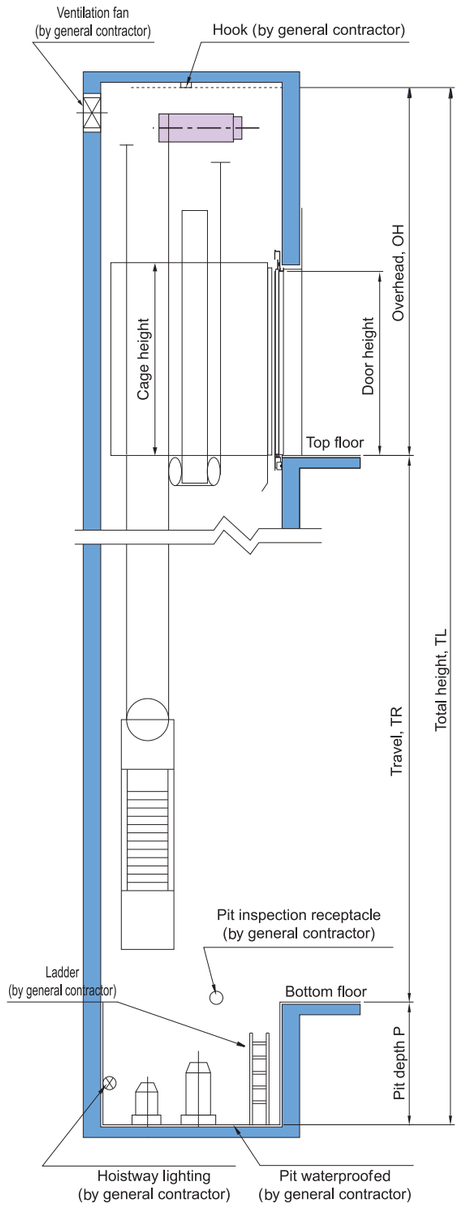
Type		Nos.of Person	Capacity (kg)	Speed (m/s)	Cage size Internal(A×B) (mm)	Door with W (mm)	Hoistway size(mm) X×Y	Hoistway size(mm) OH	Hoistway size(mm) P	Motor Capacity (kW)	Max.Service Stops(s)	Max.Travel (m)
P15-CO60	W	15	1150	1	1800×1500	1000	2400×2150	4300	1300	7.0	48	80
						1100						
P15-CO96	W			1.6		1000		4500	1400	12.0		100
						1100						
P15-CO105	W			1.75		1000		4550	1450	12.0		
						1100						
P15-CO120	W			2		1000		4800	1600	14.0		
						1100						
P18-CO60	W	18	1350	1	2000×1500	1100	2600×2150	4300	1300	8.0	48	80
P18-CO96	W			1.6				4500	1400	14.0		100
P18-CO105	W			1.75				4550	1450	14.0		
P18-CO120	W			2				4800	1600	16.0		
P21-CO60	W	21	1600	1	2000×1700	1100	2650×2350	4300	1300	10.0	48	80
	W					1200						
P21-CO96	W			1.6		1100		4500	1400	16.0		100
	W					1200						
P21-CO105	W			1.75		1100		4550	1450	18.0		
	W					1200						
P21-CO120	W			2		1100		4800	1600	20.0		
	W					1200						
P24-CO60	W	24	1800	1	2100×1750	1200	2750×2400	4300	1300	12.0	48	80
P24-CO96	W			1.6				4500	1400	18.0		100
P24-CO105	W			1.75				4550	1450	20.0		
P24-CO120	W			2				4800	1600	22.0		
P26-CO60	W	26	2000	1	2100×1950	1200	2750×2600	4300	1300	12.0	48	80
P26-CO96	W			1.6				4500	1400	20.0		100
P26-CO105	W			1.75				4550	1450	22.0		
P26-CO120	W			2				4800	1600	24.0		

Note:

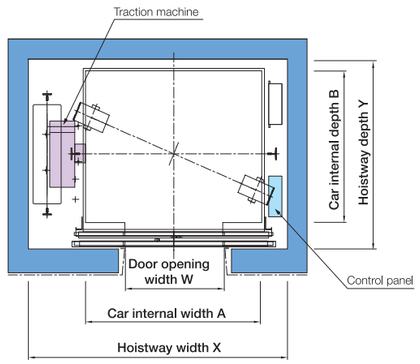
- The above table complies with GB7588:2003 standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- Please contact to our local distributor to check for other standards.
- Hoistway dimensions are the minimum dimension after the construction 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.
- The above data table of “OH” dimensions is based cage height: 2300mm. Please contact our local distributor to check for other conditions.
- 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.

W: Wide car

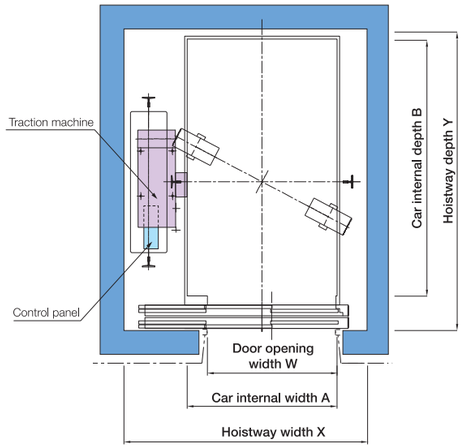
Hoistway Layout



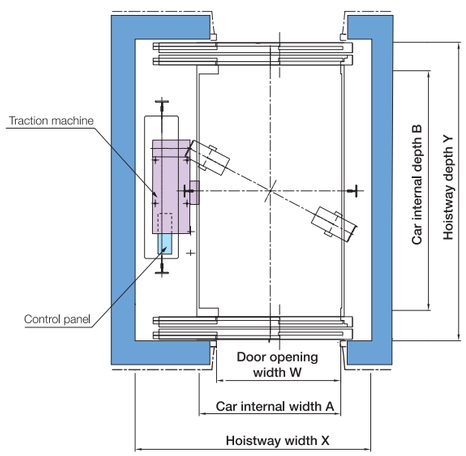
Hoistway section



Typical floor hoistway plan (W)



Typical floor hoistway plan (D)



Typical floor hoistway plan (D2)

Specifications

Type		Nos.of Person	Capacity (kg)	Speed (m/s)	Cage size Internal(A×B) (mm)	Door with W (mm)	Hoistway size(mm)			Motor Capacity (kW)	Max.Service Stops(s)	Max.Travel (m)
							X×Y	OH	P			
P15-CO60	W	15	1150	1	1800×1500	1000	2600×1840	4100	1300	7.0	48	80
	W					1100	2650×1840					
P15-CO96	W			1.6		1000	2600×1840	4300	1400	12.0		100
	W					1100	2650×1840					
P15-CO105	W			1.75		1000	2600×1840	4350	1450	12.0		
	W					1100	2650×1840					
P15-CO120	W			2		1000	2600×1840	4600	1600	14.0		
	W					1100	2650×1840					
P17-CO60	W	17	1275	1	2000×1400	1100	2800×1800	4100	1300	8.0	48	80
P17-CO96	W			1.6				4300	1400	12.0		100
P17-CO105	W			1.75				4350	1450	14.0		
P17-CO120	W			2				4600	1600	16.0		
P17-2S60	D	17	1275	1	1200×2300	1100	2050×2710	4100	1300	8.0	48	80
P17-2S96	D			1.6				4300	1400	12.0		100
P17-2S105	D			1.75				4350	1450	14.0		
P17-2S120	D			2				4600	1600	16.0		
P17-2S60	D2	17	1275	1	1200×2200	1100	2050×2870	4100	1300	8.0	※	
P17-2S96	D2			1.6				4300	1400	12.0		
P17-2S105	D2			1.75				4350	1450	14.0		
P17-2S120	D2			2				4600	1600	16.0		
P18-CO60	W	18	1350	1	1800×1500	1100	2800×1840	4100	1300	8.0	48	80
P18-CO96	W			1.6				4300	1400	14.0		100
P18-CO105	W			1.75				4350	1450	14.0		
P18-CO120	W			2				4600	1600	16.0		
P21-CO60	W	21	1600	1	2000×1700	1100	2825×2050	4100	1300	10.0	48	80
	W					1200	2875×2050					
P21-CO96	W			1.6		1100	2825×2050	4300	1400	16.0		100
	W					1200	2875×2050					
P21-CO105	W			1.75		1100	2825×2050	4350	1450	18.0		
	W					1200	2875×2050					
P21-CO120	W			2		1100	2825×2050	4600	1600	20.0		
	W					1200	2875×2050					
P21-2S60	D	21	1600	1	1400×2400	1200	2275×2810	4100	1300	10.0	48	80
P21-2S96	D			1.6				4300	1400	16.0		100
P21-2S105	D			1.75				4350	1450	18.0		
P21-2S120	D			2				4600	1600	20.0		
P21-2S60	D2	21	1600	1	1400×2300	1200	2275×2970	4100	1300	10.0	※	
P21-2S96	D2			1.6				4300	1400	16.0		
P21-2S105	D2			1.75				4350	1450	18.0		
P21-2S120	D2			2				4600	1600	20.0		
P24-CO60	W	24	1800	1	2100×1750	1200	2925×2100	4100	1300	12.0	48	80
P24-CO96	W			1.6				4300	1400	18.0		100
P24-CO105	W			1.75				4350	1450	20.0		
P24-CO120	W			2				4600	1600	22.0		
P26-CO60	W	26	2000	1	2100×1950	1200	2925×2300	4100	1300	12.0	48	80
P26-CO96	W			1.6				4300	1400	20.0		100
P26-CO105	W			1.75				4350	1450	22.0		
P26-CO120	W			2				4600	1600	24.0		

※ Please consult our local distributor.

Note:

- The above table complies with GB7588:2003 standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- Please contact to our local distributor to check for other standards.
- Hoistway dimensions are the minimum dimension 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.
- The above data table of “OH” dimensions is based cage height: 2300mm. Please contact our local distributor to check for other conditions.
- 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.

W: Wide car D: Deep car D2: Front and rear opening door

Works by Others

Works below are not included in elevator installation works:

▶Hoistways

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

▶Works for Equipment

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

▶Temporary Works

It is required to arrange the following matters:

1. To secure the site office for installation work and the stock yard for materials without charge.
2. Enclosure to be used during the installation work.
3. Supply of electric power for installation work and the trial operation for adjustment.
4. Security of enough passage for carrying heavy goods.
5. On use of elevator for the construction work of the building, It is required to make contract with a separate written estimate.

Note

During equipment planning of elevators, please take the following items into consideration:

1. Provide power facility so that voltage regulation of the power supply at the receiving terminals in the hoistway is kept within ±10% for the motor, and ±2% for the lighting equipments.
2. In the hoistways, please prevert the temperature from exceeding 40 ˚C and humidity from exceeding 90% (monthly mean) and 95% (daily mean).
3. Please do not allow any chemically toxic gas or an excessive amount of dust to enter into the hoistways, as these can corrode the metal or electrical contacts.

When asking for an estimate,
please inform us of the following:

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

Memo