



**TOSHIBA**

**TOSHIBA COMPACT MACHINE ROOM ELEVATORS**  
STANDARD PASSENGER ELEVATOR

# ELCOSMO-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**

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

## COMPANY SOLUTIONS

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

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

## CONCEPT of ELCOSMO-III

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

### Product Lineup

Toshiba offers a wide variety of compact machine room elevators, which include 8-26 passenger elevators as well as single and double entrance elevators. To meet diversification of customer's demand, sufficient options are also available.

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

Rated speed (m/s)	3	ELCOSMO-III								
	2.5	ELCOSMO-III								
	2	ELCOSMO-III								
	1.75	ELCOSMO-III								
	1.6	ELCOSMO-III								
1	ELCOSMO-III									
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.

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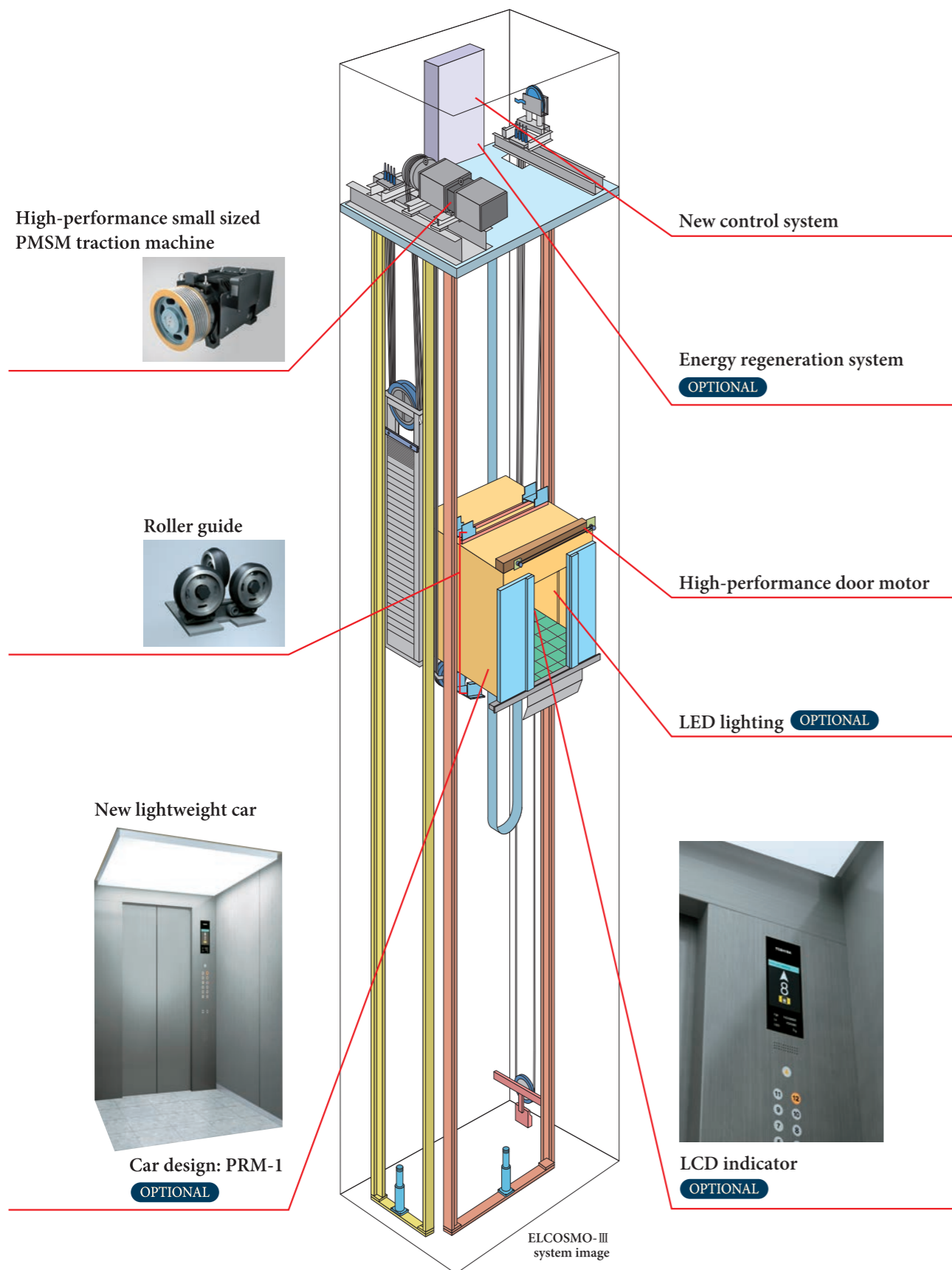
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# TECHNOLOGY



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

## New Technology

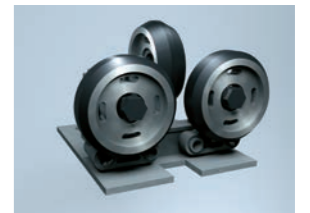
### Traction Machine Designed and Manufactured by Toshiba

- ◆ 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.



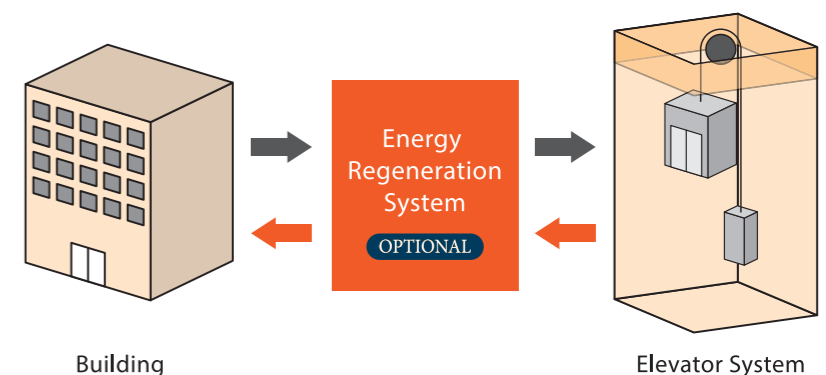
### New Control Systems

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



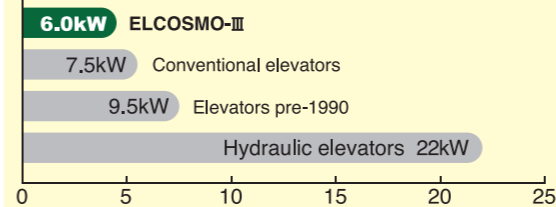
## Environmental issues

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

### Energy Saving

ELCOSMO-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.

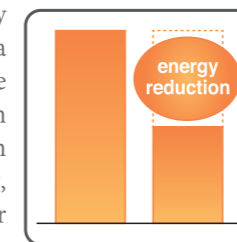
Compared to elevators before 1990's, energy consumption has decreased 40% and for hydraulic elevators, 80% is saved.



\*Comparison with "ELCOSMO-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 a fluorescent lamp. (part of ceiling)

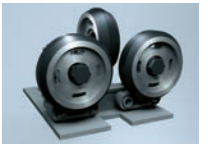


Car design: PRM-1 OPTIONAL

### Resource Saving

#### 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.

### ELCOSMO-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 ELCOSMO-III has been approved as an "Excellent ECP".

# STYLISH and COMFORTABLE

## 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 CO2 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.

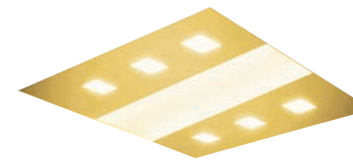
Note 2: Car design SL-1, SL-2 has four square shaped lights at the center, and round LED light at corners.



PRM-1



PRM-2



DLX-25 / DX-25



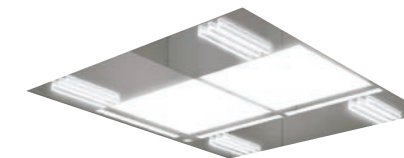
DLX-24 / DX-24



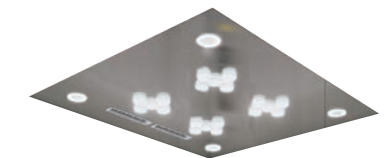
DLX-23 / DX-23



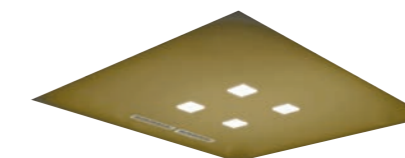
DLX-22 / DX-22



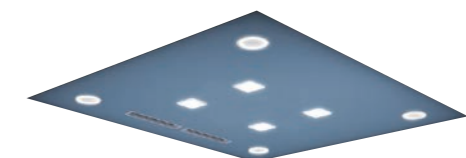
DLX-21 / DX-21



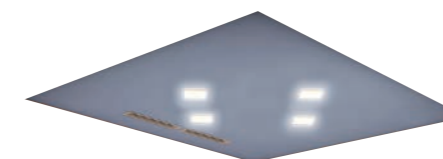
TL-1



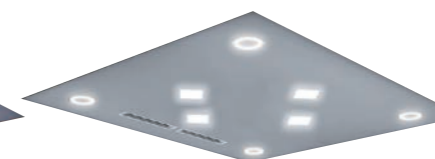
SL-V1



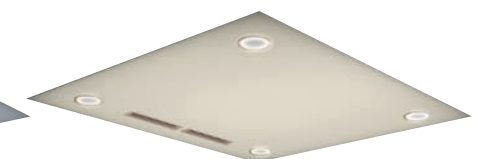
SL-1



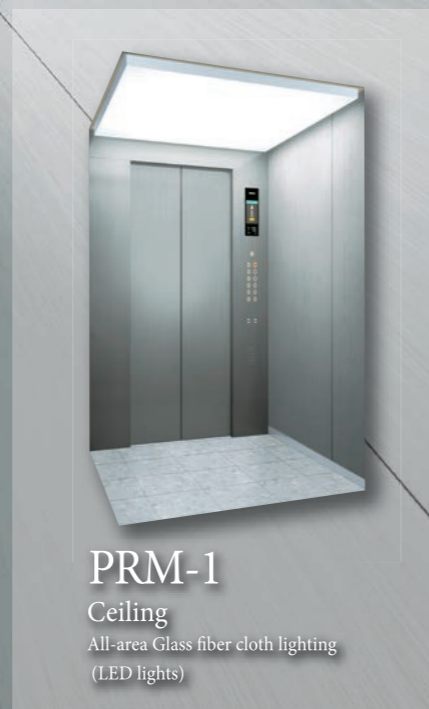
SL-V2



SL-2



SL-3



PRM-1

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

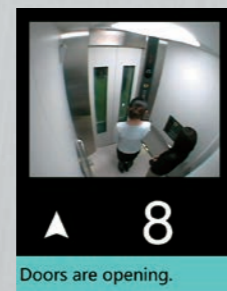
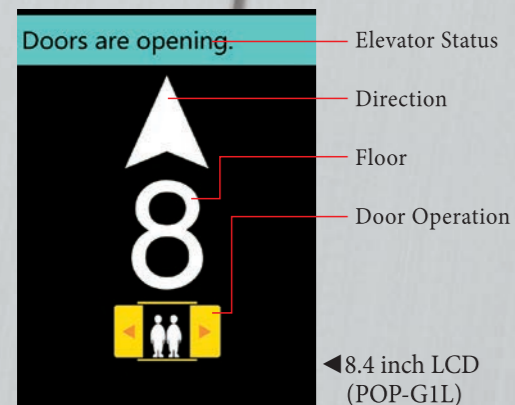
The actual product colors may vary slightly from those printed colors in this catalog.

# 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.

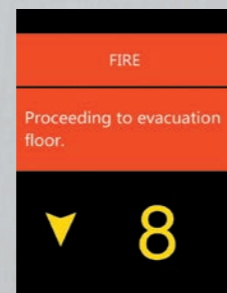
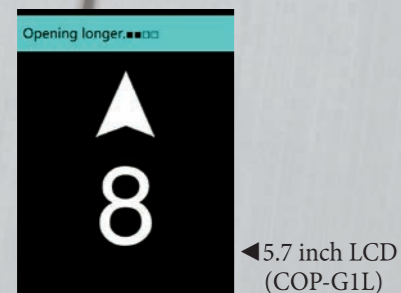
OPTIONAL



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

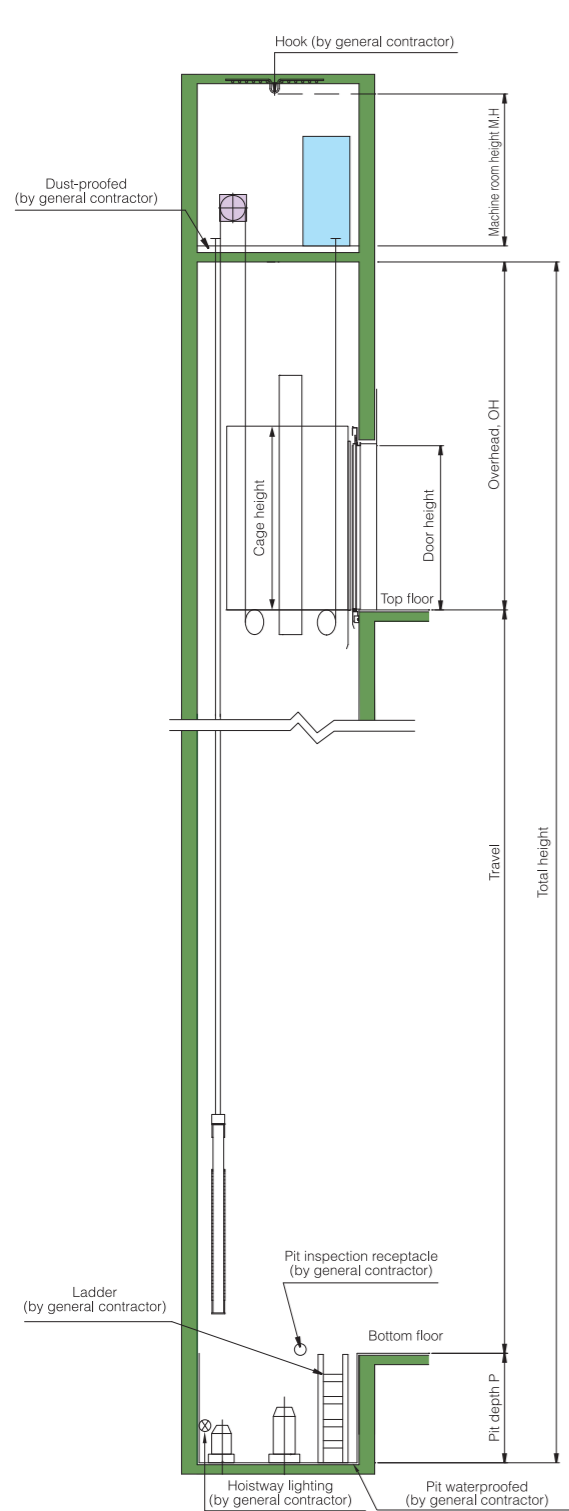
1: Not applicable to lift car with through door.  
2: > 5 floors and car weight < 150kg.

○: STANDARD △: OPTIONAL

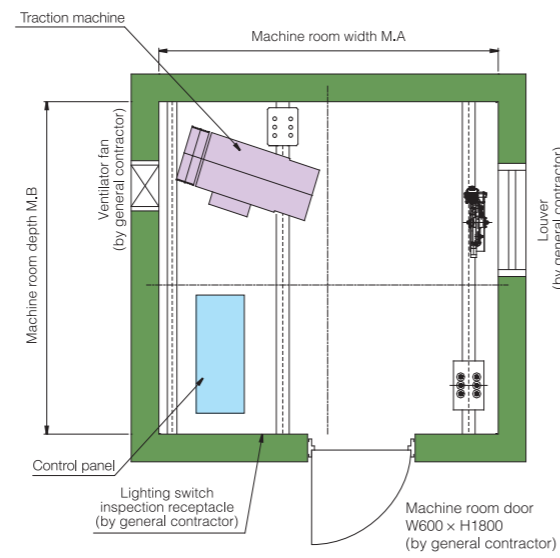
Functions	Notes	Descriptions	
Service Functions	Full car bypass (Note 2)	When the lift car is full, the lift will bypass all hall calls and go straight to the designated floor	○
	Car call cancellation	The floor call can be cancelled from the COP by pressing the floor button twice within 3 second	○
	Nuisance 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 repeatedly pending removal of the obstacle	○
	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 autotmatically	△
	Car lighting automatic cut-off	When the lift is not in operation after a pre-determined period of time, the car light will turn off automatically	○
	Ventilation fan automatic cut-off	When the lift is not in operation after a pre-determined period of time, the ventilation fan will turn off automatically	○
	"Door Open" button lamp (for automatically cut-off car lighting)	The "Door Open" button will remain lit when the lift car light is turned off automatically	○
	Nuisance call cancellation at reversal	Cancel intentionally registered nuisance calls automatically in the reversal travel direction	○
	Multi-channel intercom	The intercom system can communicate with multi-stations simultaneously	○
	Designated floor stop operation	Automatically stops the lift at the designated floor for crime prevention purposes	△
	Card access system	Allows activation of the disnated floor call by IC card * Card Access System by others	△
	Speech synthesizer	Announces car operations	△
	Supervisory panel	Located in the building control room, etc. to monitor the status and control of each lift	△



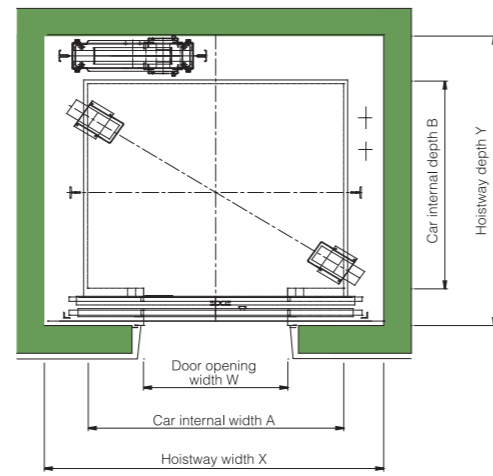
# Hoistway Layout



Hoistway section



Machine room plan



Hoistway plan (W)

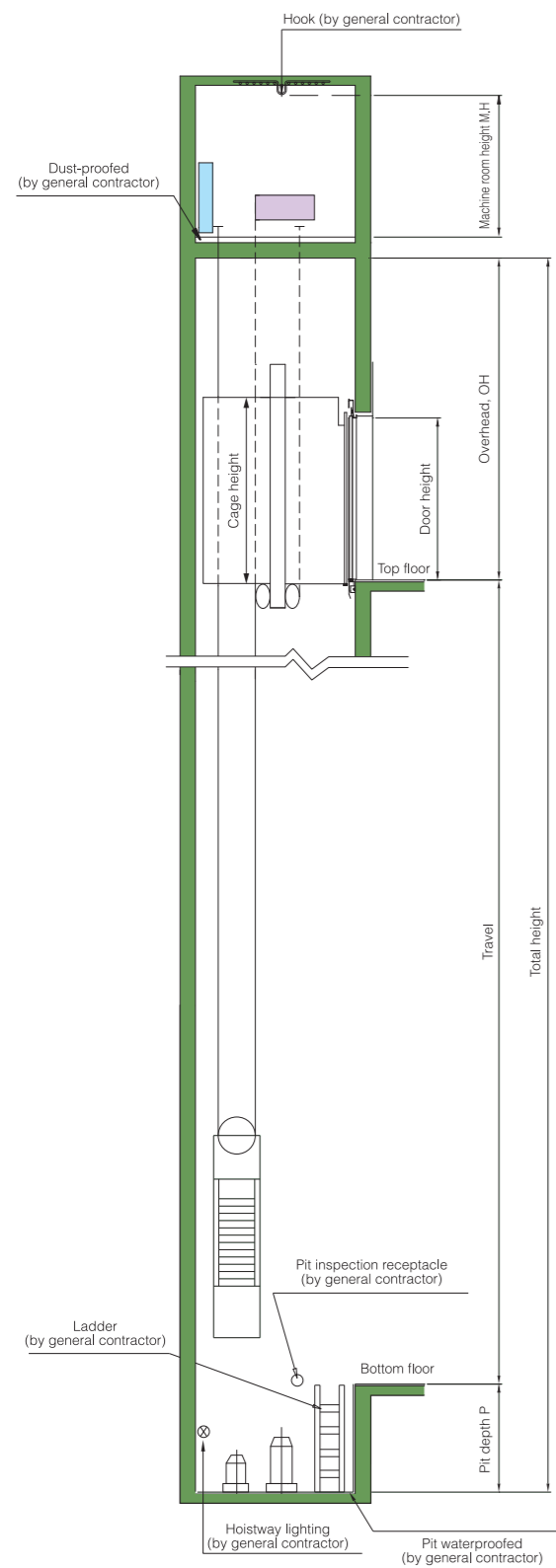
# Specifications

Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (A×B) (mm)	Door with 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	630	1	1400×1100	800	1850×1660	3700	1300	1850×1660	2000	3.6	40	90						
P8-CO96	W		1.6		900	2050×1660			1850×1660										
P8-CO105	W		1.75		900	2050×1660	3900	1400	1850×1660										
P8-CO120	W		2		800	1850×1660	4050	1650	1850×1660										
					900	2050×1660			2050×1660										
P11-CO60	W		825		1	1400×1350	800	1850×1910	3700					1300	1850×1910	2000	4.7	40	90
P11-CO96	W				1.6		900	2050×1910							1850×1910				
P11-CO105	W				1.75		900	2050×1910	3900					1400	1850×1910				
P11-CO120	W	2		800	1850×1910		4050	1650	1850×1910										
				900	2050×1910				2050×1910										
P11-CO150	W	2.5		800	1850×1910		4250	2100	1850×1910										
				900	2050×1910				2050×1910										
P14-CO60	W	1050		1	1600×1400		900	2100×1960	3700	1300	2100×1960	2000	6.0	40	90				
P14-CO96	W			1.6			1000	2300×1960			2300×1960								
							1100	2500×1960	2500×1960										
P14-CO105	W			1.75			900	2100×1960	3950	1450	2100×1960								
			1000			2300×1960	2300×1960												
P14-CO120	W		2	1100		2500×1960	4050	1650	2100×1960										
				1000		2300×1960			2300×1960										
P14-CO150	W		2.5	1100		2500×1960	4250	2100	2100×1960										
				900		2100×1960			2100×1960										
							1000	2300×1960	2300×1960	2300×1960	2500×1960					15.0	40	125	
							1100	2500×1960											

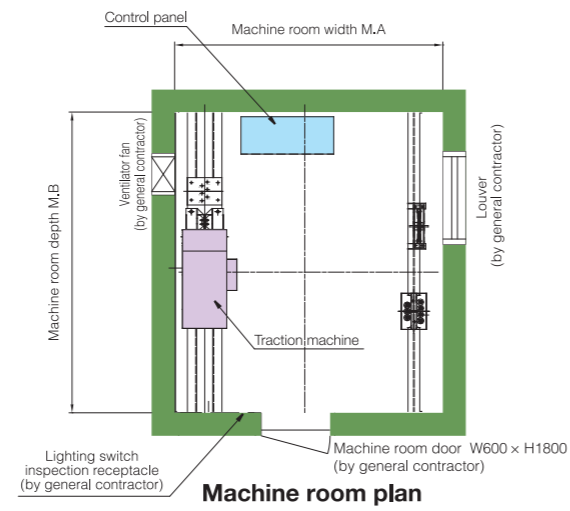
**Note:**

- 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

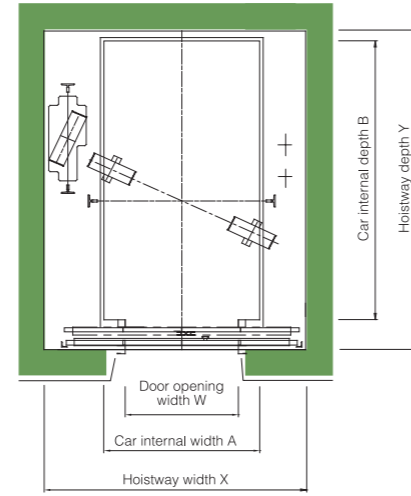
# Hoistway Layout



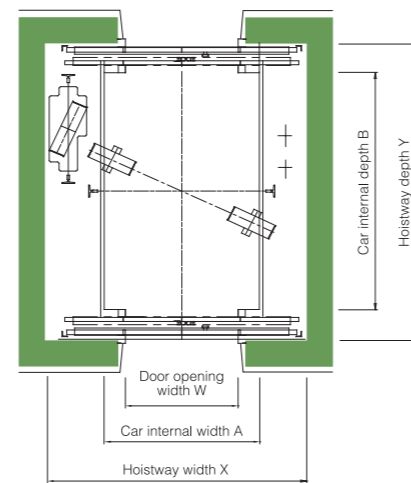
Hoistway section



Machine room plan



Hoistway plan (D)



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)		Machine room dimensions (mm)		Motor Capacity (kW)	Max. Service Stops (s)	Max. Travel (m)
						X×Y	OH	P	M.A×M.B			
P8-CO60	D		1		800	1835×1725	3700	1300	1835×1725		3.6	90
					900	2020×1725			2020×1725			
P8-CO96	D	8	630	1.6	800	1835×1725	3900	1400	1835×1725		5.8	40
									900			
P8-CO105	D		1.75		800	1835×1725	3950	1450	1835×1725		6.3	100
									900			
P8-CO120	D		2		800	1835×1725	4050	1650	1835×1725		7.2	125
									900			
P11-CO60	D		1		800	1850×2000	3700	1300	1850×2000		4.7	40
									900			
P11-CO96	D	11	825	1.6	800	1850×2150	3900	1400	1850×2000		7.5	80
									900			
P11-CO105	D		1.75		800	1850×2150	3950	1450	1850×2150		8.3	100
									900			
P11-CO120	D		2		800	1850×2000	4050	1650	1850×2000		9.5	40
									900			
P11-CO150	D		2.5		800	1850×2150	4250	2100	1850×2150		11.8	80
									900			
P14-CO60	D		1		800	1850×2400	3700	1300	1850×2400		6.0	40
									900			
P14-CO96	D	14	1050	1.6	800	1850×2550	3900	1400	1850×2550		9.7	80
									900			
P14-CO105	D		1.75		800	1850×2400	3950	1450	1850×2400		10.5	40
									900			
P14-CO120	D		2		800	1850×2550	4050	1650	1850×2550		12.0	80
									900			
P14-CO150	D		2.5		800	1850×2400	4250	2100	1850×2400		15.0	40
									900			
	D2				800	1850×2550	4250	2100	1850×2550		80	125
									900			

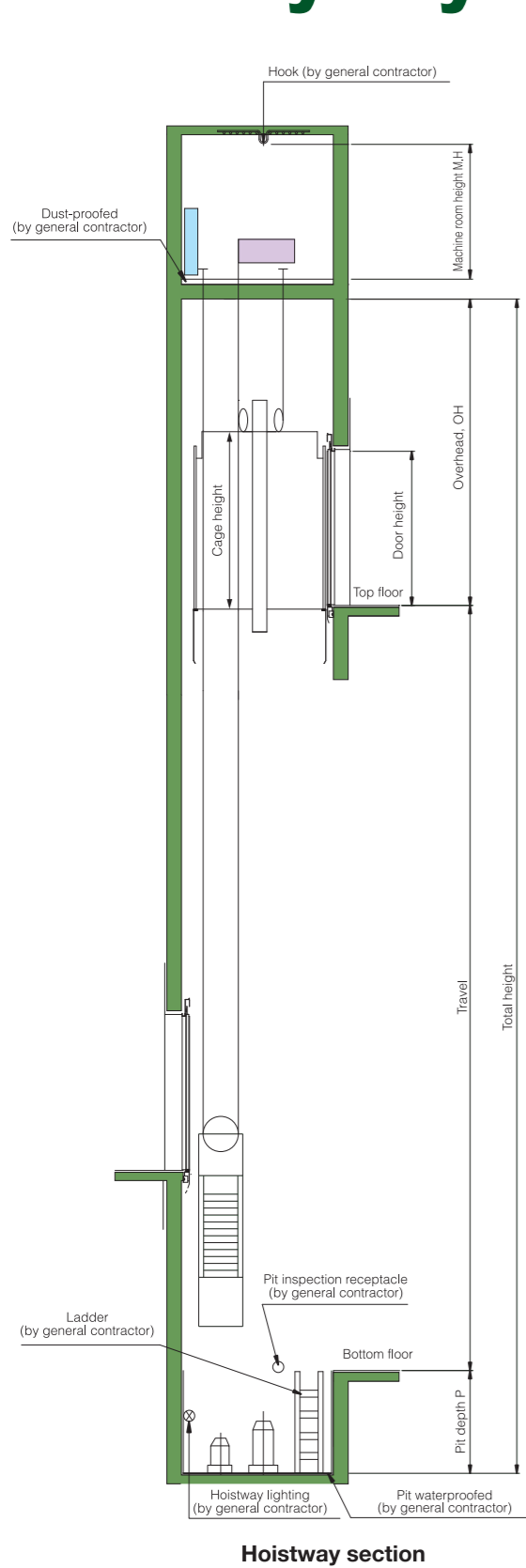
※ Please consult our local distributor.

**Note:**

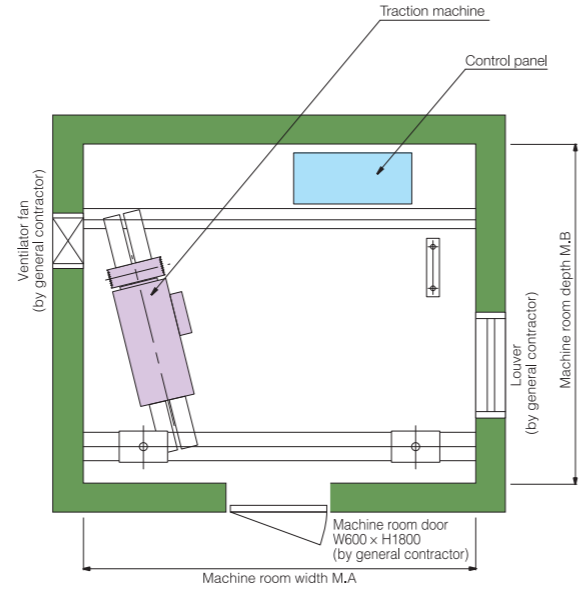
- The above table complies with GB7588:2003 standards.
  - In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
  - Please contact to our local distributor to check for other standards.
  - Hoistway dimensions are the minimum dimension after the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



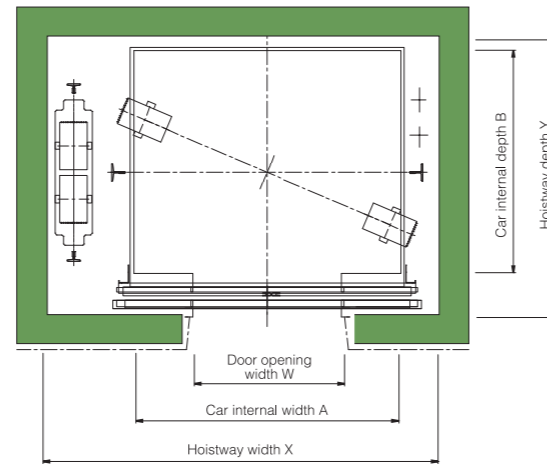
# Hoistway Layout



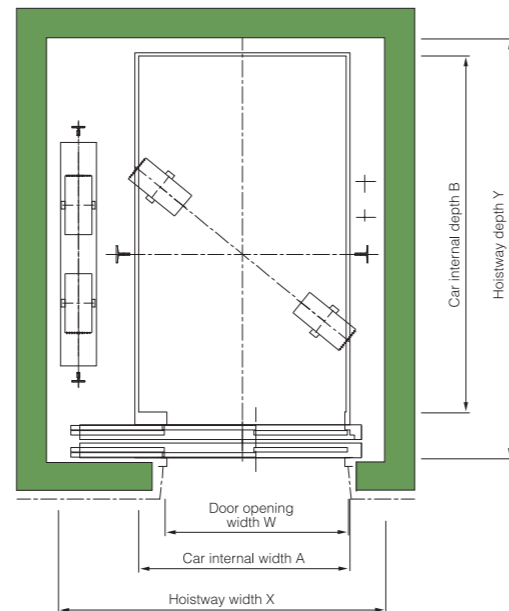
**Hoistway section**



**Machine room plan**



**Typical floor hoistway plan (W)**



**Typical floor hoistway plan (D)**

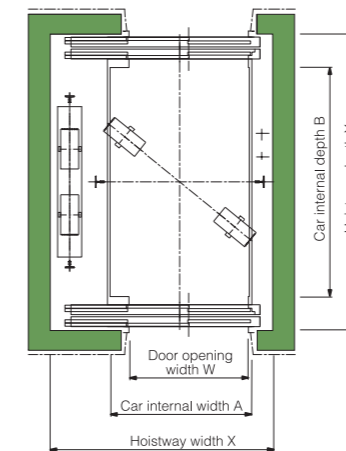
# Specifications

Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (AxB) (mm)	Door with W (mm)	Hoistway size (mm)		Machine room dimensions (mm)		Motor Capacity (kW)	Max. Service Stops (s)	Max. Travel (m)	
						XxY	OH	P	M.AxM.B				M.H
P14-CO180	W	13	1050	3	1600x1400	900	2400x1820	4950	2500	2400x1820	20.0	48	150
						1000	2450x1820		2450x1820				
P15-CO60	W	17	1150	1	1800x1500	1000	2600x1840	3900	1300	2600x1840	7.0	90	
						1100	2650x1840		2650x1840				
P15-CO96	W	17	1150	1.6	1800x1500	1000	2600x1840	4050	1400	2600x1840	12.0	48	
						1100	2650x1840		2650x1840				
P15-CO105	W	17	1150	1.75	1800x1500	1000	2600x1840	4100	1450	2600x1840	12.0	150	
						1100	2650x1840		2650x1840				
P15-CO120	W	17	1150	2	1800x1500	1000	2600x1840	4200	1600	2600x1840	14.0	48	
						1100	2650x1840		2650x1840				
P15-CO150	W	17	1150	2.5	1800x1500	1000	2600x1840	4500	2000	2600x1840	20.0	150	
						1100	2650x1840		2650x1840				
P15-CO180	W	17	1150	3	1800x1500	1000	2600x1840	4950	2500	2600x1840	22.0	48	
						1100	2650x1840		2650x1840				
P17-2S60	D	17	1275	1	1200x2300	1100	2030x2710	3900	1300	2030x2710	8.0	48	90
P17-2S96	D							4050	1400				
P17-2S105	D	17	1275	1.75	1200x2300	1100	2030x2710	4100	1450	2030x2710	14.0	48	100
P17-2S120	D							4200	1600				
P17-2S150	D	17	1275	2	1200x2300	1100	2030x2710	4500	2000	2030x2710	20.0	48	150
P17-2S180	D							4950	2500				
P17-2S60	D2	17	1275	1	1200x2200	1100	2030x2870	3900	1300	2030x2870	8.0	48	90
P17-2S96	D2							4050	1400				
P17-2S105	D2	17	1275	1.75	1200x2200	1100	2030x2870	4100	1450	2030x2870	14.0	48	100
P17-2S120	D2							4200	1600				
P17-2S150	D2	17	1275	2	1200x2200	1100	2030x2870	4500	2000	2030x2870	20.0	48	150
P17-2S180	D2							4950	2500				
P21-2S60	D	21	1600	1	1400x2400	1200	2230x2810	3900	1300	2230x2810	10.0	48	90
P21-2S96	D							4050	1400				
P21-2S105	D	21	1600	1.75	1400x2400	1200	2230x2810	4100	1450	2230x2810	16.0	48	100
P21-2S120	D							4200	1600				
P21-2S150	D	21	1600	2	1400x2400	1200	2230x2810	4500	2000	2230x2810	24.0	48	150
P21-2S180	D							4950	2500				
P21-2S60	D2	21	1600	1	1400x2300	1200	2230x2970	3900	1300	2230x2970	10.0	48	90
P21-2S96	D2							4050	1400				
P21-2S105	D2	21	1600	1.75	1400x2300	1200	2230x2970	4100	1450	2230x2970	16.0	48	100
P21-2S120	D2							4200	1600				
P21-2S150	D2	21	1600	2	1400x2300	1200	2230x2970	4500	2000	2230x2970	24.0	48	150
P21-2S180	D2							4950	2500				

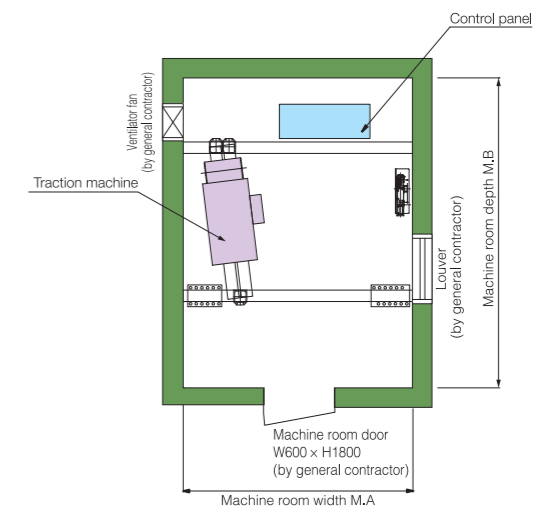
※ Please consult our local distributor.

**Note:**

- 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 agency to check for other standard.
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  - The hoistway dimensions in chart are the minimum requirement.
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- W: Wide car D: Deep car D2: Front and rear opening door



**Typical floor hoistway plan (D2)**



**Machine room plan**



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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.

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