

TOSHIBA

Toshiba Compact Machine Room Elevators
Standard Passenger Elevator

ELCOSMO-III

For SNI standard

3rd Edition

For SNI standard

* Revised publication effective Jun. 2023

Safety Cautions

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

TOSHIBA

Toshiba Elevator and Building Systems Corporation

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

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

GK-F222(0)-2306-500-2306(TD)

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THE SOLUTIONS

COMPANY SOLUTIONS

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

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

CONCEPT of ELCOSMO-III

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

Product Line-up

Expanded the applicable speed of the ELCOSMO-III. We can comply with various needs such as building use, layout design, etc.

Scope of specification	Range of application
Passenger	8 ~ 33 persons
Rated load	550 ~ 2250 kg
Rated speed	1.0 ~ 4.0 m/s

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

Rated speed (m/s)	Rated load (kg)											
	550	680	900	1100	1160	1300	1450	1500	1700	1900	2250	
4.0												
3.5												
3.0												
2.5												
2.0												
1.75												
1.5/1.6												
1.0												
Type	P8	P10	P13	P16	P17	P19	P21	P22	P25	P28	P33	

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Functions

○ : STANDARD △ : OPTIONAL

Functions	Notes	Descriptions		
Operations	Simplex selective-collective fully automatic operation	Fully automatic operation by hall and car calls for single car	○	
	Duplex selective collective fully automatic operation (Note 1)	Fully automatic operation for 2 cars in the same group	△	
	3 or 4-car group supervisory control system (Note 1)	Fully automatic operation for 3 or 4 cars in the same group	△	
	Group supervisory control system	For supervisory operation of groups of more than 4 cars, please contact us	△	
	FLOORNAVI	Destination Control System	△	
	Independent operation	Lift car separated from group control operation and responde to car call only	△	
	Attendant operation	Operation by attendant by switch & button provided at service cabinet in COP	△	
Safety Functions	Automatic landing function when system fails	When system failure occurs, the lift will automatically land at the nearest floor and the door will open for passengers to exit	○	
	Automatic withdrawn from group control	If an elevator under a group supervisory operation fails to run for some reason, the elevator is cut out of the group and the other elevators automatically back up the faulty one to continue the group supervisory operation.	○	
	Car inspection operation [INS]	During car inspection operation, the lift car will run at slowly speed without responding to hall call	○	
	Overload protection	The car overload buzzer will sound to prevent overloading and the doors will remain open	○	
	Fireman's operation (Note 2)	In the event of fire, when the Fireman's switch is activated, the designated lift will be ready for firemen to use	△	
	Fire emergency operation	In the event of fire, all lifts will return to the designated floor and stop operation to allow passengers to exit	△	
	Emergency operation indication at COP	In the event of an emergency, the emergency operation status will be displayed at COP	○	
	Power failure emergency operation	In the event of power failure, all lifts will return to the designated floor by emergency power supply from the building to allow passengers to exit	△	
	Automatic landing during power failure [TOSLANDER]	In the event of power failure, the lift will land at the nearest floor by emergency battery	△	
	Earthquake emergency operation	In the event of an earthquake, the elevator will detect the seismic signal and land at the nearest floor	△	
	In-car emergency lamp [Self-charging]	In the event of power failure, the in-car emergency lamp will be activated	○	
	Emergency call button	A button for passenger to make an emergency call when they are trapped inside the lift	○	
	Door open when lift car is overloaded	The doors will re-open when over load is detected, even during the closing of doors.	○	
	2 in 1 door safety [Multi-beam door safety + Mechanical door safety]	A combination of multi-beam door safety and mechanical door safety	○	
	Service Functions	Home landing	To reduce passenger waiting time, the lift will return to the designated floor and stand by	△
		Service floor cut-off selection [Software interface]	This is of the free setting type, where the elevator superintendent for every building is free to set and modify service cut-off floors even after in use. This is the most appropriate type for such office buildings as their tenants are not yet fixed before completion.	△

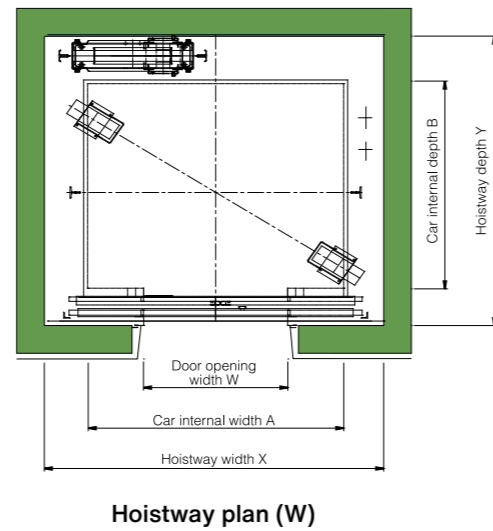
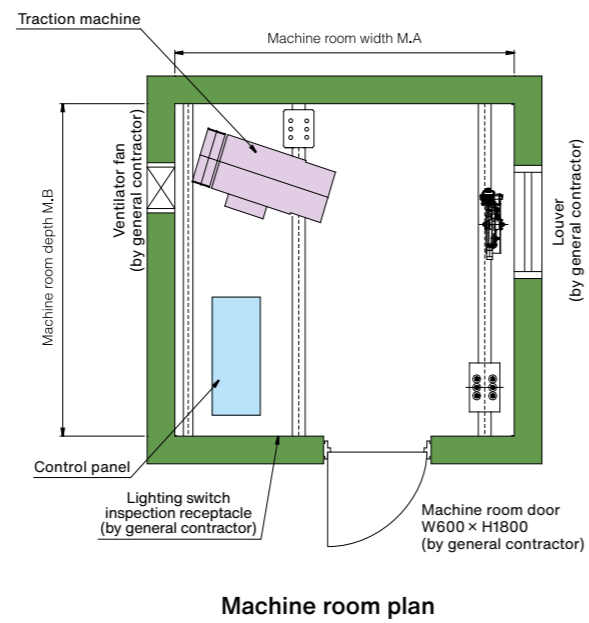
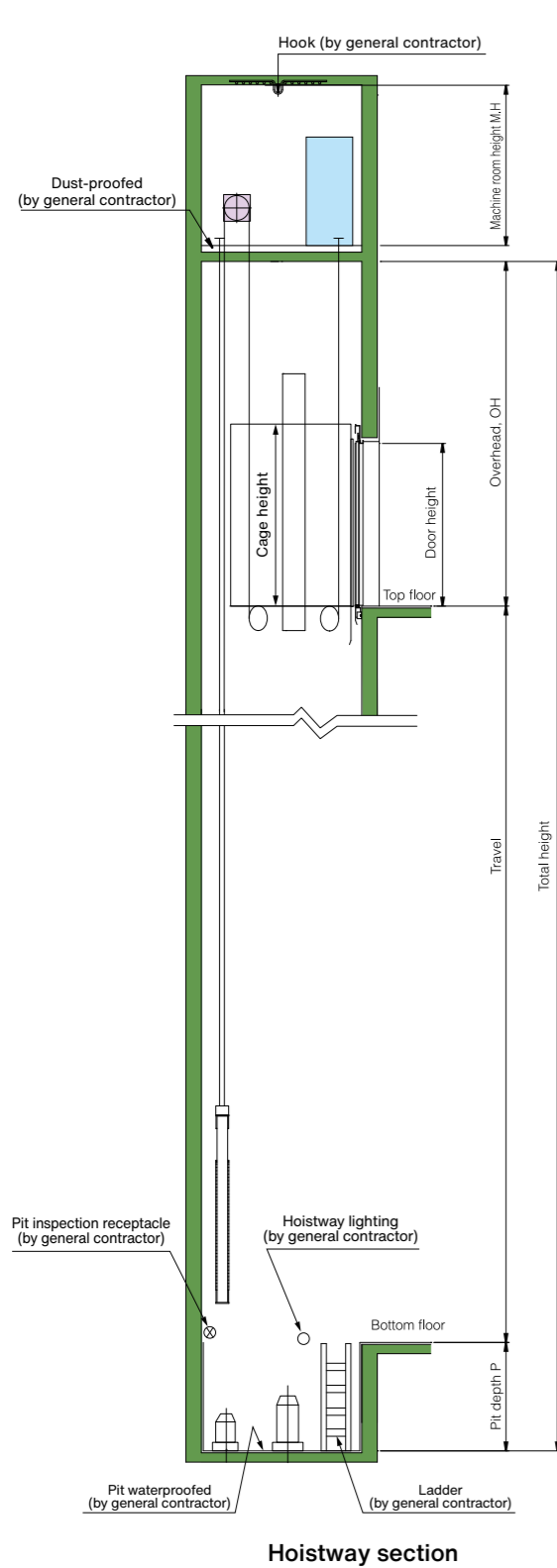
Notes

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

○ : STANDARD △ : OPTIONAL

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

Hoistway Layout



Specifications

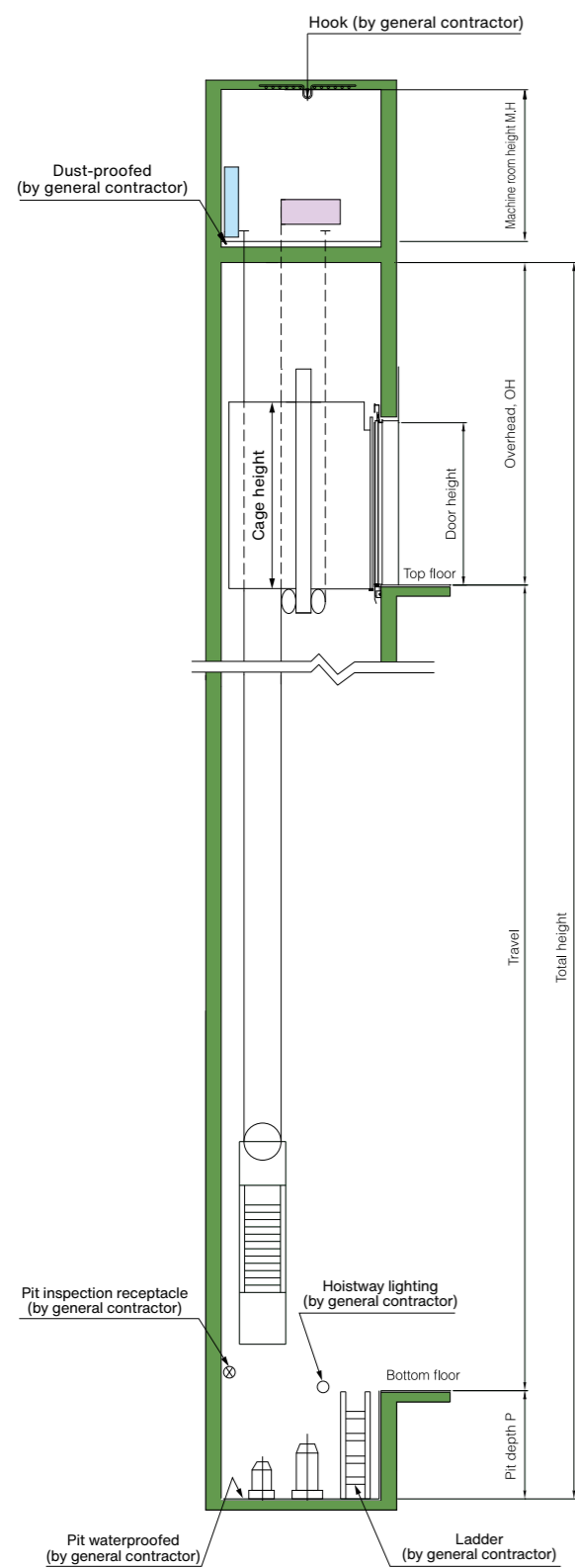
Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Machine room dimensions (mm)		Max. Service Stops (s)	Max. Travel (m)										
				A×B	Height	Width	Height		X×Y	OH	P	MA×MB	MH												
P8-CO60	W	544	1	1300×1100	2300	800	2100	Rear	2000×1720	4000	1400	2000×1720	2100	40	90										
P8-CO96	W		1.6							4200	1500														
P8-CO105	W		1.75							4250	1550														
P8-CO120	W		2							4350	1650														
P9-CO60	W	612	1	1400×1100	2300	800	2100	Rear	2000×1720	4000	1400	2000×1720	2100	40	90										
P9-CO96	W		1.6			900				1500															
						900				1500															
P9-CO105	W		1.75			900				1550															
						900				1550															
P9-CO120	W		2			800				1650															
						900				1650															
P11-CO60	W		748			1				1400×1350	2300					800	2100	Rear	2000×1970	4000	1400	2000×1970	2100	40	90
P11-CO96	W	1.6		900	1500																				
				900	1500																				
P11-CO105	W	1.75		900	1550																				
				900	1550																				
P11-CO120	W	2		800	1650																				
				900	1650																				
P11-CO150	W	2.5		800	1720																				
				900	1720																				
P14-CO60	W	952		1.6	1600×1400	2300	1000	2100	Rear			2400×2020	4000	1400	2400×2020	2100				40	90				
							P14-CO96						W	1.75											
1100	1500																								
P14-CO105	W		2				900			1650															
							1100			1650															
P14-CO120	W		2.5				900			1720															
							1100			1720															
P14-CO150	W		2.5				1000			1800															
							1100			1800															

W: Wide car

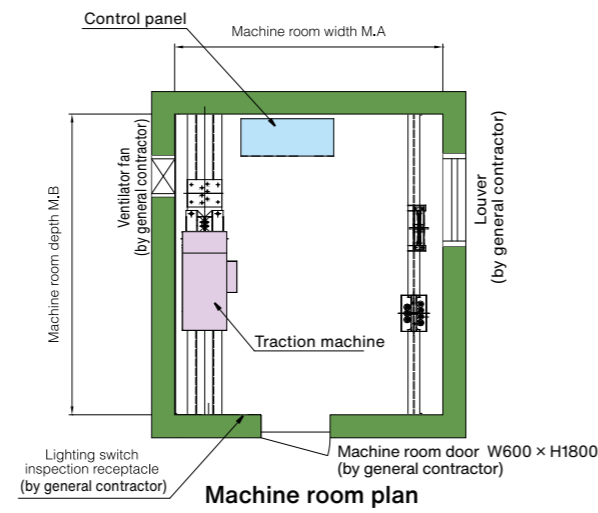
Note:

- The above table complies with EN81-20/50 standards.
- Please contact to our local distributor to check for other standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- Hoistway dimensions take into account the error of up to 50 mm after the construction work.
- The hoistway dimensions in chart are the minimum requirement.
- The hoistway structure wall must be 150mm thick or more.
- Piping, wiring and cables which is not relevant to elevator are prohibited inside the hoistway.
- OH value in the chart is for standard ceiling. As for the non-standard cars, please consult our local distributor.
- If the size of the hoistway is greater than the above sizes, OH will be larger. Please consult our local distributor.
- If the location of Power source panel, Control panel and Electric power supply are changed. Please consult our local distributor.

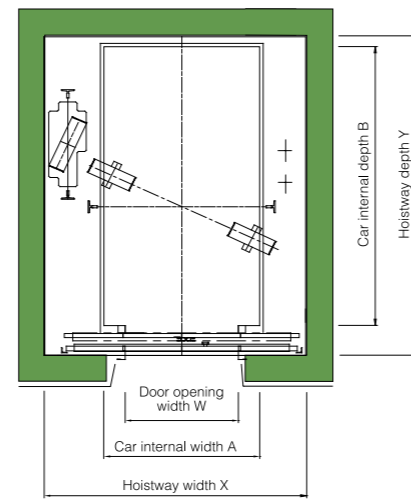
Hoistway Layout



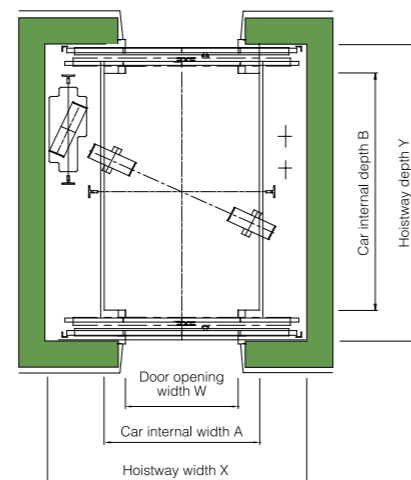
Hoistway section



Machine room plan



Hoistway plan (D)



Hoistway plan (D2)

Specifications

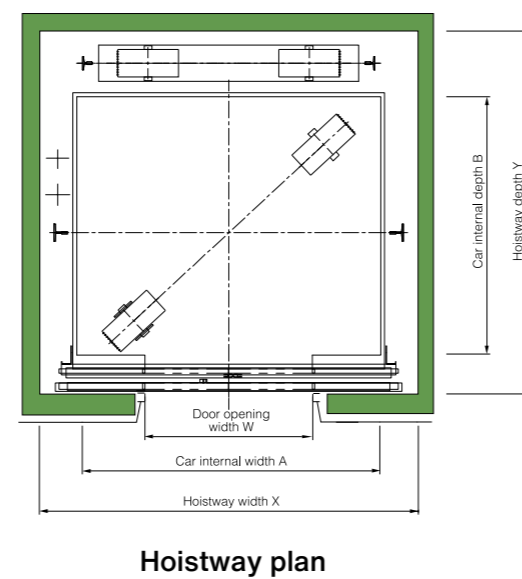
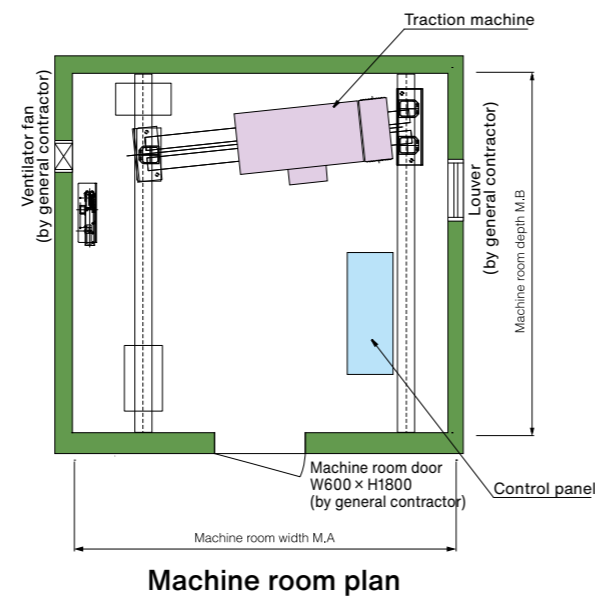
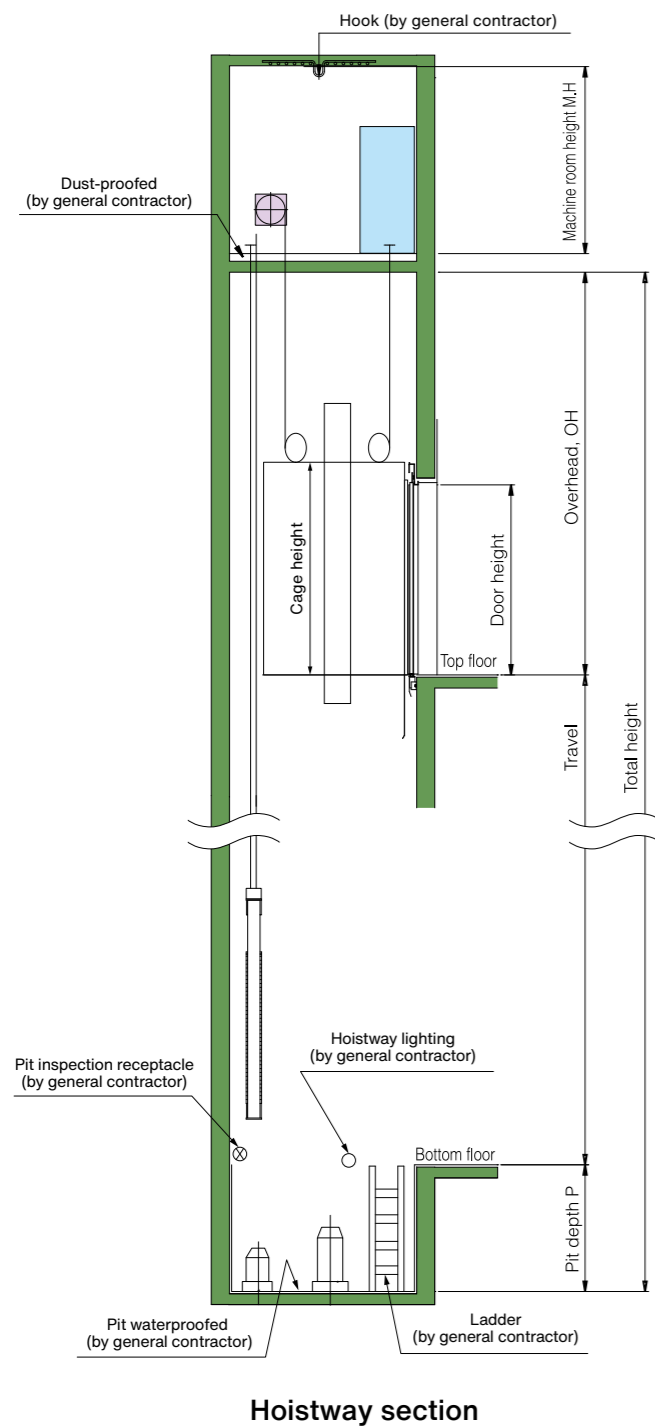
Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Machine room dimensions (mm)		Max. Service Stops (s)	Max. Travel (m)				
				A×B	Height	Width	Height		X×Y	OH	P	MA×MB	MH						
P8-CO60	D	8	544	1	1100×1300	2300	800	2100	Side	1950×1740	4000	1400	1950×1740	2100	40	90			
P8-CO105	D						1.75				800	4250				1550	100		
P9-CO60	D	9	612	1	1100×1400	2300	800	2100	Side	1970×1760	4000	1400	1970×1760	2100	40	90			
P9-CO96	D						1.6									900	1970×1760	1970×1760	90
P9-CO105	D						1.75				800	4200	1500			100			
P9-CO120	D						2				900	2140×1760	2140×1760			125			
P11-CO60	D	11	748	1	1100×1700	2300	800	2100	Side	1970×2060	4000	1400	1970×2060	2100	40	90			
P11-CO60	D2						1.6									900	1970×2170	1970×2170	90
P11-CO96	D						1.6									800	4200	1500	40
P11-CO96	D2			1.6			900			2140×2060	2140×2060	40							
P11-CO96	D2			1.6			800			4200	1500	100							
P11-CO105	D			1.75			900			1970×2170	1970×2170	40							
P11-CO105	D2			1.75			800			4250	1550	100							
P11-CO105	D2			1.75			900			2140×2060	2140×2060	40							
P11-CO120	D			2			800			4350	1650	125							
P11-CO120	D2			2			900			1970×2170	1970×2170	40							
P11-CO150	D			2.5			800			4550	2100	125							
P11-CO150	D2	2.5	900	1970×2170	1970×2170	40													
P11-CO150	D2	2.5	800	4550	2100	125													
P14-CO60	D	14	952	1	1100×2100	2300	800	2100	Side	1970×2460	4000	1400	1970×2460	2100	40	90			
P14-CO60	D2						1.6									900	1970×2570	1970×2570	90
P14-CO96	D						1.6									800	4200	1500	40
P14-CO96	D2						1.6									900	2140×2460	2140×2460	40
P14-CO105	D			1.75			800			4250	1550	100							
P14-CO105	D2			1.75			900			1970×2460	1970×2460	40							
P14-CO105	D2			1.75			800			4250	1550	100							
P14-CO120	D			2			800			4350	1650	125							
P14-CO120	D2			2			900			1970×2460	1970×2460	40							
P14-CO150	D			2.5			800			4550	2100	125							
P14-CO150	D2			2.5			900			1970×2570	1970×2570	40							
P14-CO150	D2			2.5			800			4550	2100	125							

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

Note:

- The above table complies with EN81-20/50 standards.
- Please contact to our local distributor to check for other standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- Hoistway dimensions take into account the error of up to 50 mm after the construction work.
- The hoistway dimensions in chart are the minimum requirement.
- The hoistway structure wall must be 150mm thick or more.
- Piping, wiring and cables which is not relevant to elevator are prohibited inside the hoistway.
- OH value in the chart is for standard ceiling. As for the non-standard cars, please consult our local distributor.
- If the size of the hoistway is greater than the above sizes, OH will be larger. Please consult our local distributor.
- If the location of Power source panel, Control panel and Electric power supply are changed. Please consult our local distributor.

Hoistway Layout



Specifications

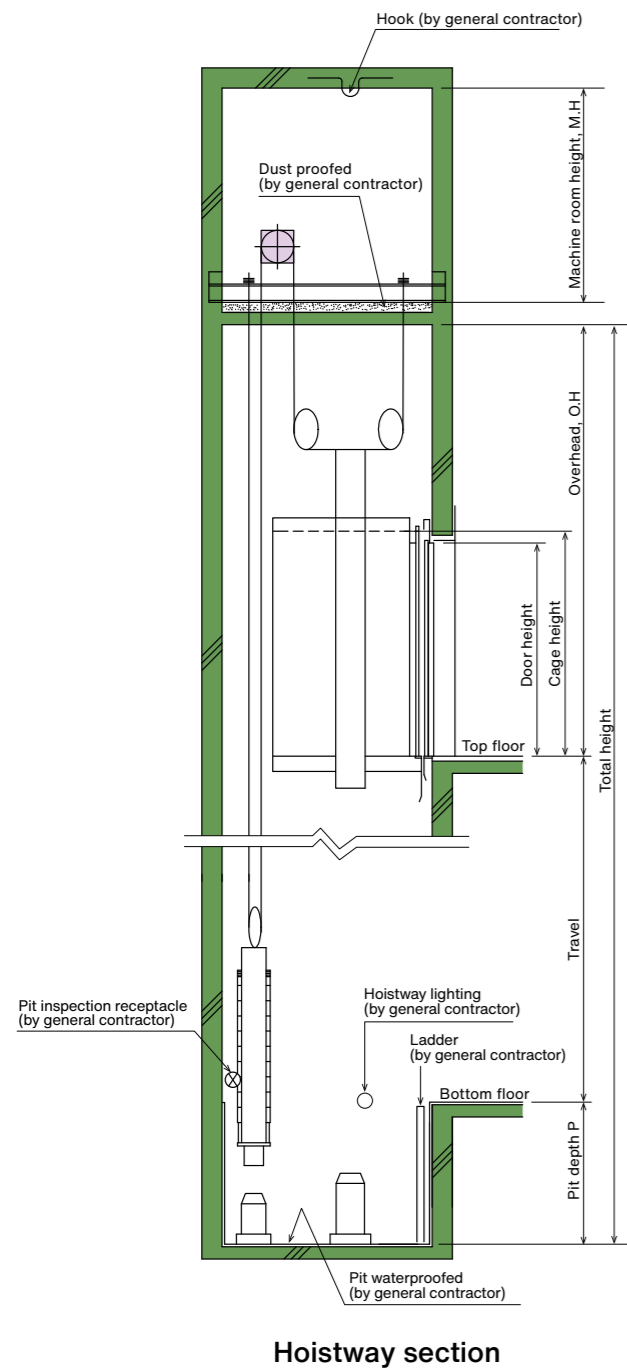
Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Machine room dimensions (mm)		Max. Service Stops (s)	Max. Travel (m)				
				A×B	Height	Width	Height		X×Y	OH	P	MA×MB	MH						
P14-CO180	W	14	952	3	1600×1400	2300	900	2100	Rear	2150×2070	2500	2500	2150×2070	2100	48	150			
							1000			2350×2070			2350×2070						
							1100			2550×2070			2550×2070						
P17-CO60	W		1				1000	2100	Rear	2350×2170	1380	1380	2350×2170	2100	48	90			
							1100			2550×2170			2550×2170						
P17-CO96	W		1.6				1000	2100	Rear	2350×2170	4350	1450	2350×2170	2100	48	100			
							1100			2550×2170			2550×2170						
P17-CO105	W	17	1156	1.75	1800×1500	2300	1000	2100	Rear	2350×2170	4400	1480	2350×2170	2100	48	150			
							1100			2550×2170			2550×2170						
P17-CO120	W		2				1000	2100	Rear	2350×2170	4500	1600	2350×2170	2100	48	150			
							1100			2550×2170			2550×2170						
P17-CO150	W		2.5				1000	2100	Rear	2350×2170	4800	2000	2350×2170	2100	48	150			
							1100			2550×2170			2550×2170						
P17-CO180	W		3				1000	2100	Rear	2350×2170	5250	2500	2350×2170	2100	48	150			
							1100			2550×2170			2550×2170						
P18-CO60	W	18	1224	1	2000×1400	2300	1100	2100	Rear	2550×2070	1380	1380	2550×2070	2100	48	90			
P18-CO96	W			1.6												4350	1450	100	
P18-CO105	W			1.75												4400	1480	150	
P18-CO120	W			2												4500	1600	150	
P18-CO150	W			2.5												4800	2000	150	
P18-CO180	W			3												5250	2500	150	
P19-CO60	W	19	1292	1	2000×1500	2300	1100	2100	Rear	2550×2170	1380	1380	2550×2170	2100	48	90			
P19-CO96	W			1.6												4350	1450	100	
P19-CO105	W			1.75												4400	1480	150	
P19-CO120	W			2												4500	1600	150	
P19-CO150	W			2.5												4800	2000	150	
P19-CO180	W			3												5250	2500	150	
P23-CO60	W	23	1564	1	2000×1700	2300	1100	2100	Rear	2550×2370	1380	1380	2550×2370	2100	48	90			
P23-CO96	W			1.6												2750×2370	4350	1450	100
P23-CO105	W			1.75												2750×2370	4400	1480	150
P23-CO120	W			2												2750×2370	4500	1600	150
P23-CO150	W			2.5												2750×2370	4800	2000	150
P23-CO180	W			3												2750×2370	5250	2500	150
P25-CO60	W	25	1700	1	2000×1750	2300	1200	2100	Rear	2750×2420	1450	1450	2750×2420	2100	48	90			
P25-CO96	W			1.6												4350	1450	100	
P25-CO105	W			1.75												4400	1480	150	
P25-CO120	W			2												4500	1600	150	
P25-CO150	W			2.5												4800	2000	150	
P25-CO180	W			3												5250	2500	150	
P29-CO60	W	29	1972	1	2100×1950	2300	1200	2100	Rear	2750×2620	1450	1450	2750×2620	2100	48	90			
P29-CO96	W			1.6												4350	1450	100	
P29-CO105	W			1.75												4400	1480	150	
P29-CO120	W			2												4500	1600	150	
P29-CO150	W			2.5												4800	2000	150	
P29-CO180	W			3												5250	2500	150	
P33-CO60	W	33	2244	1	2300×1950	2300	1200	2100	Rear	2850×2620	1380	1380	2850×2620	2100	48	80			
P33-CO96	W			1.6												4350	1450	100	
P33-CO105	W			1.75												4400	1480	150	
P33-CO120	W			2												4500	1600	150	

W: Wide car

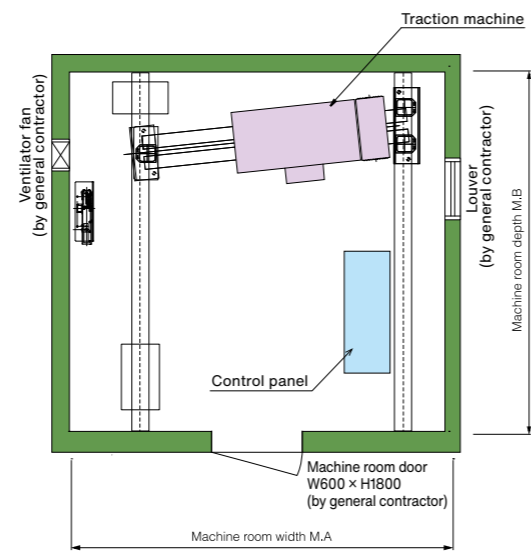
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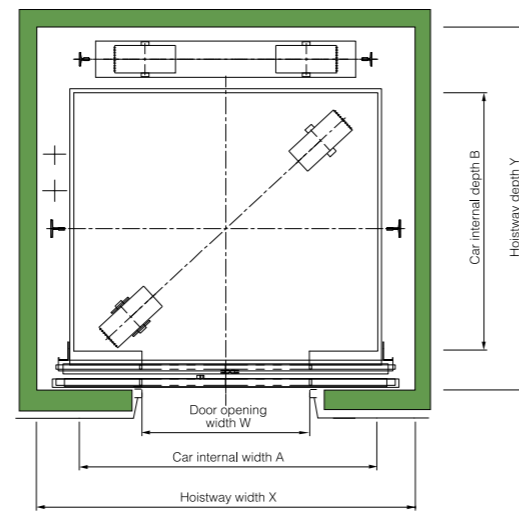
Hoistway Layout



Hoistway section



Machine room plan



Hoistway plan

Specifications

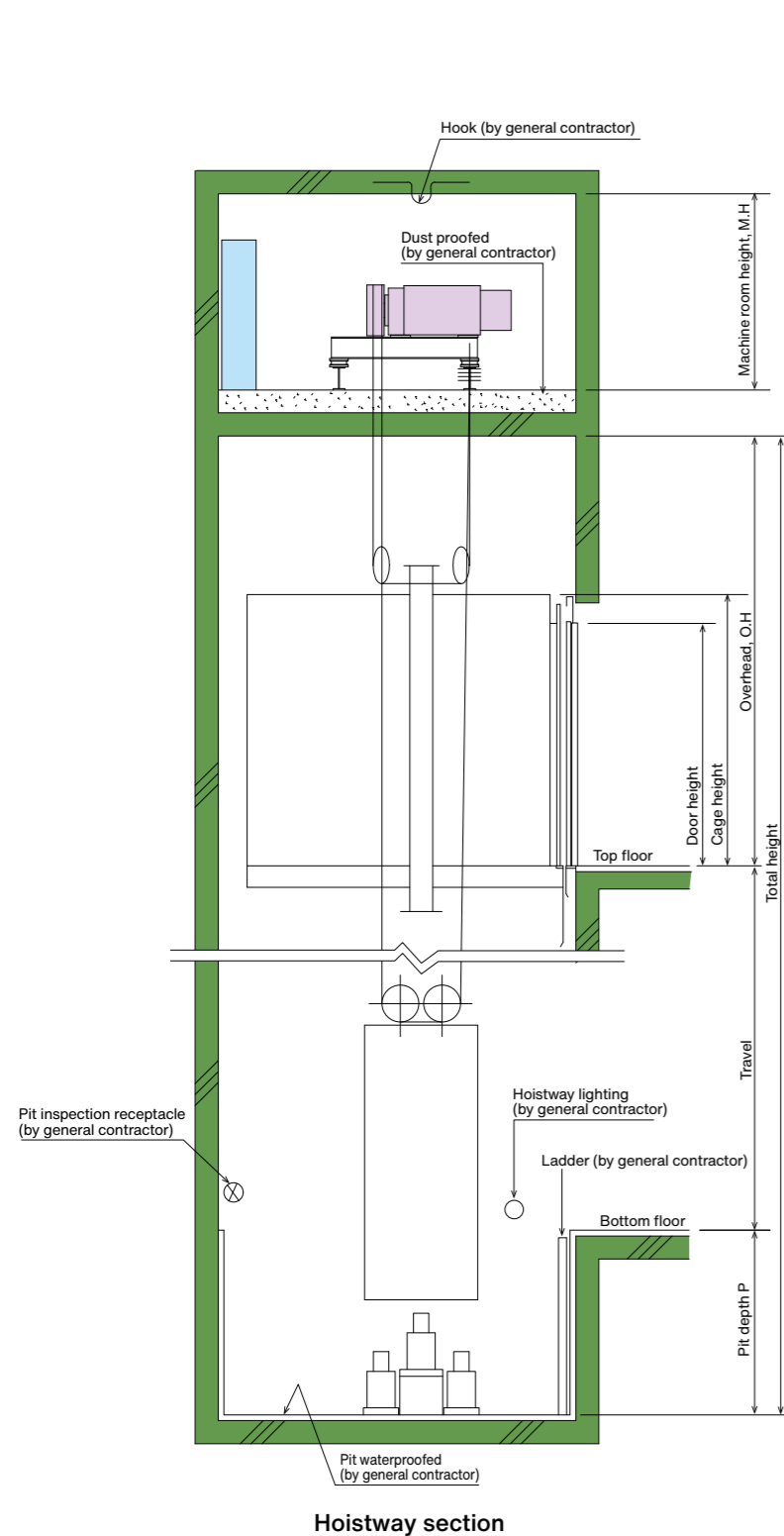
Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Machine room dimensions (mm)		Max. Service Stops (s)	Max. Travel (m)	
				A×B	Height	Width	Height		X×Y	OH	P	MA×MB	MH			
P11-CO210	W	11	748	3.5	1400×1350	2300	800	2100	Rear	1900×2150	6250	3250	1950×2150	2250	64	200
							900			2100×2150			2150×2150			
P11-CO240	W		4				800			1900×2150	6800	3850	1950×2150			
							900			2100×2150			2150×2150			
P14-CO210	W	14	952	3.5	1600×1400	2300	900	2100	Rear	2100×2200	6250	3250	2150×2200	2250	64	200
							1000			2300×2200			2350×2200			
P14-CO240	W		4				1100			2500×2200	6800	3850	2550×2200			
							900			2100×2200			2150×2200			
							1000			2300×2200			2350×2200			
							1100			2500×2200			2550×2200			

W: Wide car

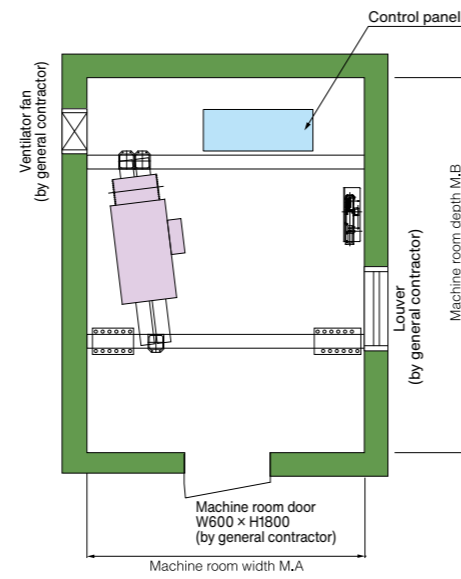
Note:

- The above table complies with EN81-20/50 standards.
- Please contact to our local distributor to check for other standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- Hoistway dimensions take into account the error of up to 50 mm after the construction work.
- The hoistway dimensions in chart are the minimum requirement.
- The hoistway structure wall must be 150mm thick or more.
- Piping, wiring and cables which is not relevant to elevator are prohibited inside the hoistway.
- OH value in the chart is for standard type of ceiling models. As for the non-standard car designs, and ceiling models, please consult our local distributor.
- If the size of the hoistway is greater than the above sizes, OH will be larger. Please consult our distributor.
- If the location of power source panel, control panel and electric power supply are changed. Please consult our distributor.

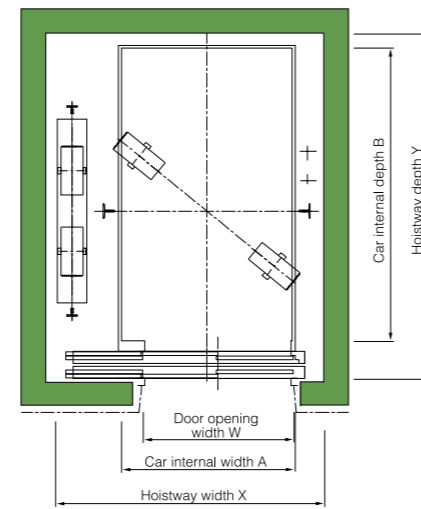
Hoistway Layout



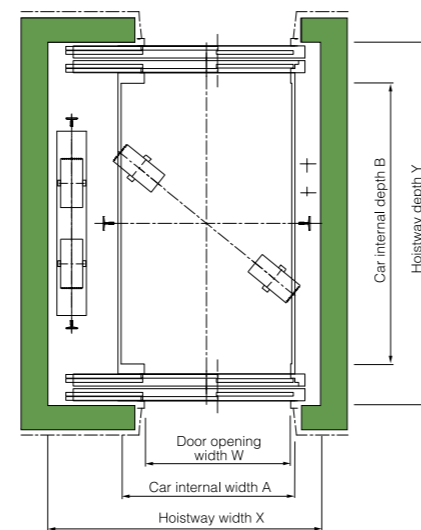
Hoistway section



Machine room plan



Typical floor hoistway plan (D)



Typical floor hoistway plan (D2)

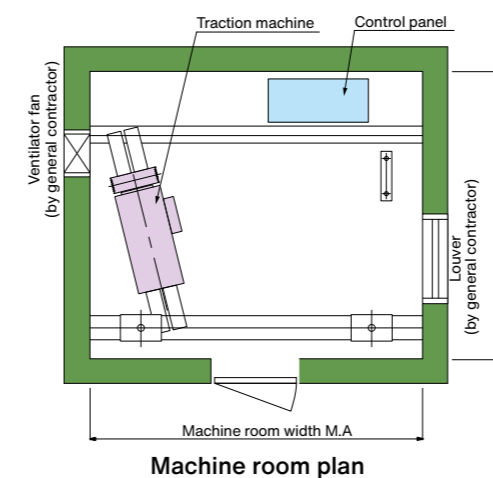
Specifications

Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Machine room dimensions (mm)		Max. Service Stops (s)	Max. Travel (m)	
				A×B	Height	Width	Height		X×Y	OH	P	MA×MB	MH			
P14-CO180	W	14	952	3	1600×1400	2300	800 900	2100	Side	2450×1850	5250	2500	2450×1850	2200	48	150
P17-CO60	W			1			1000 1100			2650×1890 2750×1890	4200	1380	2650×1890 2750×1890			90
P17-CO96	W			1.6			1000 1100			2650×1890 2750×1890	4350	1450	2650×1890 2750×1890			100
P17-CO105	W	17	1156	1.75	1800×1500	2300	1000 1100	2100	Side	2650×1890 2750×1890	4400	1480	2650×1890 2750×1890	2200	48	150
P17-CO120	W			2			1000 1100			2650×1890 2750×1890	4500	1600	2650×1890 2750×1890			150
P17-CO150	W			2.5			1000 1100			2650×1890 2750×1890	4800	2000	2650×1890 2750×1890			150
P17-CO180	W			3			1000 1100			2650×1890 2750×1890	5250	2500	2650×1890 2750×1890			150
P18-2S60	D			1						4200	1380					90
P18-2S96	D			1.6						4350	1450					100
P18-2S105	D	18	1224	1.75	1200×2300	2300	1100	2100	Side	2110×2760	4400	1480	2110×2760	2200	48	150
P18-2S120	D			2						4500	1600					150
P18-2S150	D			2.5						4800	2000					150
P18-2S180	D			3						5250	2500					150
P17-2S60	D2			1						4200	1380					90
P17-2S96	D2			1.6						4350	1450					100
P17-2S105	D2	17	1156	1.75	1200×2200	2300	1100	2100	Side	2110×2870	4400	1480	2110×2870		*	150
P17-2S120	D2			2						4500	1600					150
P17-2S150	D2			2.5						4800	2000					150
P17-2S180	D2			3						5250	2500					150
P22-2S60	D			1						4200	1380					90
P22-2S96	D			1.6						4350	1450					100
P22-2S105	D	22	1496	1.75	1400×2400	2300	1200	2100	Side	2280×2860	4400	1480	2280×2860	2200	48	150
P22-2S120	D			2						4500	1600					150
P22-2S150	D			2.5						4800	2000					150
P22-2S180	D			3						5250	2500					150
P21-2S60	D2			1						4200	1380					90
P21-2S96	D2			1.6						4350	1450					100
P21-2S105	D2	21	1428	1.75	1400×2300	2300	1200	2100	Side	2280×2970	4400	1480	2280×2970		*	150
P21-2S120	D2			2						4500	1600					150
P21-2S150	D2			2.5						4800	2000					150
P21-2S180	D2			3						5250	2500					150

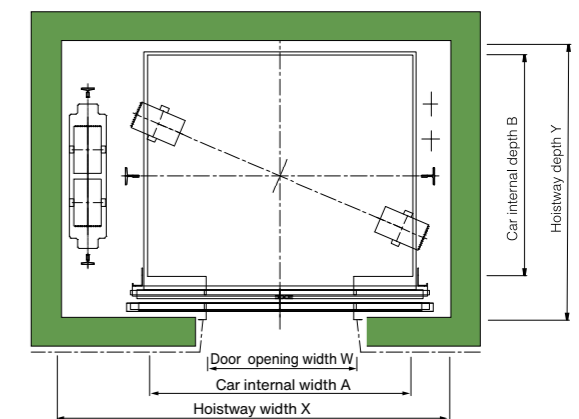
W: Wide car D: Deep car D2: Front and rear opening door *: Consult our local distributor

Note:

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- OH value in the chart is for standard ceiling. As for the non-standard cars, please consult our local distributor.
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- If the location of Power source panel, Control panel and Electric power supply are changed. Please consult our local distributor.



Machine room plan



Typical floor hoistway plan (W)

Global Network

- Head office / Manufacturing base
- Head office

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C TOSHIBA ELEVATOR (CHINA) CO., LTD.

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

D CHEVALIER (HK) LIMITED

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

E CHEVALIER SINGAPORE HOLDINGS PTE. LTD.

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J Toshiba Elevator (Vietnam) Limited Liability Company

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

Together with our global partners, we connect with Asia and then the world, through our technology and our spirit.

This planet is our shared heritage. We must live together, grow together and delight in one another.

[For more information]

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