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

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

TOSHIBA

Toshiba Compact Machine Room Elevators Standard Passenger Elevator

ELCOSMO-III

For SNI standard

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

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

	4.0						
	3.5						
	3.0						
Rated	2.5						
speed (m/s)	2.0		EL	CO	SI	ИO	
(11/1/3)	1.75						
	4 5 14 0						

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

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	Company Solutions Concept of ELCOSMO-III Functions Hoistway Layout/ Specifications

Functions

 \bigcirc : STANDARD \triangle : OPTIONAL

Functions	Notes	Descriptions	
	Simplex selective-collective fully automatic operation	Fully automatic operation by hall and car calls for single car	0
	Duplex selective collective fully automatic operation (Note 1)	Fully automatic operation for 2 cars in the same group	Δ
	3 or 4-car group supervisory control system (Note 1)	Fully automatic operation for 3 or 4 cars in the same group	Δ
Operations	Group supervisory control system	For supervisory operation of groups of more than 4 cars, please contact us	Δ
	FLOORNAVI	Destination Control System	Δ
	Independent operation	Lift car separated from group control operation and responde to car call only	Δ
	Attendant operation	Operation by attendant by switch & button provided at service cabinet in COP	Δ
	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	0
	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.	0
	Car inspection operation [INS]	During car inspection operation, the lift car will run at slowly speed without responding to hall call	0
	Overload protection	The car overload buzzer will sound to prevent overloading and the doors will remain open	0
	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	Δ
	Fire emergency operation	In the event of fire, all lifts will return to the designated floor and stop operation to allow passengers to exit	Δ
Safety	Emergency operation indication at COP	In the event of an emergency, the emergency operation status will be displayed at COP	0
Functions	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	Δ
	Automatic landing during power failure [TOSLANDER]	In the event of power failure, the lift will land at the nearest floor by emergency battery	Δ
	Earthquake emergency operation	In the event of an earthquake, the elevator will detect the seismic signal and land at the nearest floor	Δ
	In-car emergency lamp [Self-charging]	In the event of power failure, the in-car emergency lamp will be activated	0
	Emergency call button	A button for passenger to make an emergency call when they are trapped inside the lift	0
	Door open when lift car is overloaded	The doors will re-open when over load is detected, even during the closing of doors.	0
	2 in 1 door safety [Multi-beam door safety + Mechanical door safety]	A combination of multi-beam door safety and mechanical door safety	0
	Home landing	To reduce passenger waiting time, the lift will return to the designated floor and stand by	Δ
Service Functions	Service floor cut-off selection [Software interface]	This is of the free setting type, where the elevator superintendent for every building is free to set and modify service cutt-off floors even after in use. This is the most appropriate type for such office buildings as their tenants are not yet fixed before complection.	Δ

- Notes

 1: Not applicable to lift car with through door.

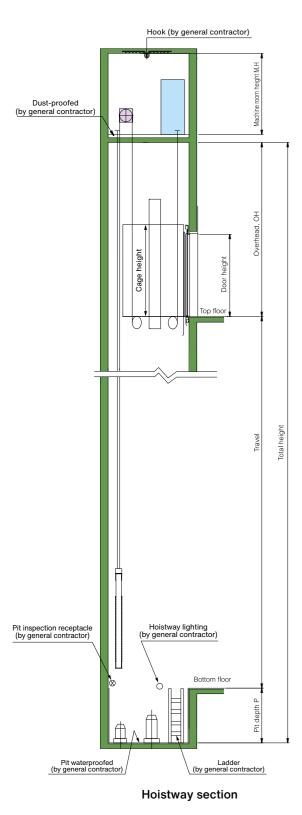
 2: Fire emergency operation and fireman service cannnot be applied simultaneously.

 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.

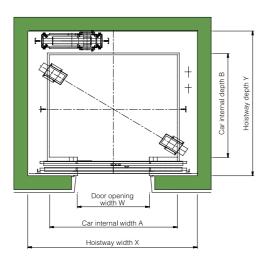
 \bigcirc : STANDARD \triangle : OPTIONAL

Functions	Notes	Descriptions						
	Service floor cut-off selection [Manual]	linstalling 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.	Δ					
	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	0					
	Car call cancellation	The floor call can be cancelled from the COP by pressing the floor button twice within 3 second	0					
	Nuisance call cancellation (Note 4)	Incorrect or nuisance floor calls can be cancelled to eliminate unnecessary operation	0					
	Door repeated opening	When an obstacle is detected, the door will repeatedly open and close until the obstacle is removed	0					
	Car indicator	Car indicator with the car operating panel	0					
	Adjustable door opening time	Adjusts the door opening time to reflect building usage	0					
	Door open extension button	Extends the door opening time	Δ					
	Car chime	A chime installed in the car ceiling will sound when the lift arrives	Δ					
	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	0					
	Hall lantern	The hall lantern will light up when the lift arrived	\triangle					
Service Functions	Sub car operating panel	Additional car operating panel	Δ					
	Out of service indicator	"Out of Service" will display on the hall indicator when the lift car is faulty	0					
	Parking operation [Manual]	Parks the lift at designated floor by key-switch	0					
	Parking operation [Automatic]	Parks the lift at designated floor auotmatically	\triangle					
	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	0					
	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	0					
	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	0					
	Nuisance call cancellation at reversal	Cancel intentionally registered nuisance calls automatically in the reversal travel direction	0					
	Multi-channel intercom	The intercom system can communicate with multi-stations simultaneously	0					
	Designated floor stop operation	Automatically stops the lift at the designated floor for crime prevention purposes	Δ					
	Card access system	Allows activation of the disnated floor call by IC card						
	Speech synthesizer	Announces car operations						
	Supervisory panel	Located in the building control room, etc. to monitor the status and control of each lift	Δ					



Traction machine Lighting switch inspection receptacle (by general contractor) Machine room door W600 × H1800

Machine room plan



Hoistway plan (W)

Specifications

Type		Nos.of	Capacity	Speed	Cage si Internal(r		Door er (mi		C/W	Hoistway	size(mı	m)	Machine r dimensions		Max. Service	Max. Travel
		Person	(kg)	(m/s)	A×B	Height	Width	Height		X×Y	OH	Р	MA×MB	MH	Stops(s)	
P8-CO60 P8-CO96	W			1 1.6							4000 4200	1400 1500				90
P8-CO105	w	8	544	1.75	1300×1100	2300	800	2100	Rear	2000×1720	4250	1550	2000×1720	2100	40	
P8-CO120	W			2							4350	1650				100
D0 0000	١٨/			4			800			2000×1720	4000	4400	2000×1720			00
P9-CO60	W			1			900]		2200×1720	4000	1400	2200×1720]		90
P9-CO96	w			1.6			800]		2000×1720	4200	1500	2000×1720]		
1 3-0030	**	9	612	1.0	1400×1100	2300	900	2100	Rear	2200×1720	4200	1300	2200×1720	2100	40	100
P9-CO105	w		012	1.75	1400**1100	2000	800	2100	INCAI	2000×1720	4250	50 1550	2000×1720	2100	40	100
1 3-00103	**			1.75			900	1		2200×1720	7200	1000	2200×1720	1		
P9-CO120	w			2			800]		2000×1720	4350	1650	2000×1720]		125
	···						900			2200×1720	.000		2200×1720			
P11-CO60	w			1			800	1		2000×1970	4000	1400	2000×1970			90
				-			900	1		2200×1970			2200×1970			
P11-CO96	w			1.6			800	-		2000×1970	4200	1500	2000×1970			
							900	1		2200×1970			2200×1970		40	100
P11-CO105	w	11	748	1.75	1400×1350	2300	800	2100	Rear	2000×1970	4250	1550	2000×1970	2100		
	_						900	-		2200×1970			2200×1970	-		
P11-CO120	w			2			800 900	-		2000×1970 2200×1970	4350	1650	2000×1970 2200×1970			
		-			-		800	-		2000×1970 2000×1970			2000×1970 2000×1970	-		125
P11-CO150	W			2.5			900	1		2200×1970 2200×1970	4550	2100	2200×1970 2200×1970			
							900			2200×1970 2200×2020			2200×1970 2200×2020			
P14-CO60	w			1			1000	1		2400×2020	4000	1400	2400×2020	1		90
1 14-0000	**			'			1100	1		2600×2020	1000	1400	2600×2020	1		
					-		900	1		2200×2020			2200×2020	1		
P14-CO96	w			1.6			1000	1		2400×2020	4200	1500	2400×2020	1		
							1100	1		2600×2020	1		2600×2020	1		
							900	1		2200×2020			2200×2020	1		100
P14-CO105	w	14	952	1.75	1600×1400	2300	1000	2100	Rear	2400×2020	4250	1550	2400×2020	2100	40	
							1100	1		2600×2020			2600×2020	1		
		1			1		900	1		2200×2020			2200×2020	1		
P14-CO120	w			2			1000	1		2400×2020	4350	1650	2400×2020	1		
							1100]		2600×2020]	2600×2020]		105
							900			2200×2020			2200×2020			125
P14-CO150	w			2.5			1000			2400×2020	4550	2100	2400×2020			
							1100			2600×2020			2600×2020			

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.

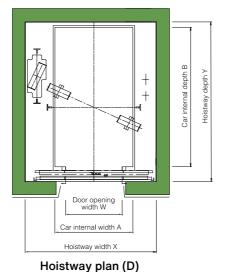
Hook (by general contractor) Dust-proofed (by general contractor) Pit inspection receptacle (by general contractor) Pit waterproofed (by general contractor)

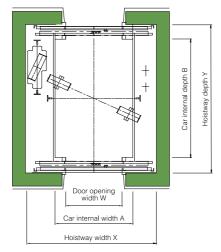
Control panel

Machine room width M.A

Wachine room door W600 × H1800
(by general contractor)

Machine room plan





Hoistway section

Hoistway plan (D2)

Specifications

Туре		Nos.of Person	Capacity (kg)	Speed (m/s)	Cage s Internal(ize mm)		ntrance m)	C/W	Hoistway	/ size(m	m)	Machine redimensions	oom (mm)	Max. Service	Max. Trave																	
		reisuii	(kg)	(111/5)	A×B	Height	Width	Height		X×Y	OH	Р	MA×MB	MH	Stops(s)	(m)																	
P8-CO60 P8-CO105	D D	8	544	1.75	1100×1300	2300	800	2100	Side	1950×1740	4000 4250	1400 1550	1950×1740	2100	40	90																	
P9-CO60	р			1			800			1970×1760	4000	1400	1970×1760			90																	
1 0 0000							900			2140×1760	1000	1400	2140×1760			30																	
P9-CO96	D			1.6			800			1970×1760	4200	1500	1970×1760																				
	Ш	9	612		1100×1400	2300	900	2100	Side	2140×1760			2140×1760	2100	40	100																	
P9-CO105	D			1.75			800 900			1970×1760 2140×1760	4250	1550	1970×1760 2140×1760																				
	Н						800			1970×1760			1970×1760																				
P9-CO120	D			2			900			2140×1760	4350	1650	2140×1760			125																	
							800			1970×2060			1970×2060																				
P11-CO60	D						900			2140×2060	4000	4400	2140×2060		40																		
P11-CO60	D2			1			800			1970×2170	4000	1400	1970×2170			90																	
F11-C000	D2						900			2140×2170			2140×2170		*																		
P11-CO96	D						800			1970×2060			1970×2060		40																		
	Щ			1.6			900			2140×2060	4200	1500	2140×2060		40																		
P11-CO96	D2			1.0			800			1970×2170			1970×2170		*																		
	Н						900			2140×2170			2140×2170			100																	
P11-CO105	D						800 900			1970×2060			1970×2060 2140×2060		40																		
	Н	11	748	1.75	1100×1700	2300	800	2100	Side	2140×2060 1970×2170	4250	1550		2100																			
P11-CO105	D2						900			2140×2170			1970×2170 2140×2170 1970×2060	2140×2170		*																	
							800			1970×2060																							
P11-CO120	D			_			900			2140×2060	4250	4050	2140×2060		40																		
P11-CO120	D3			2			800			1970×2170	4350	1650	1970×2170																				
111-00120	D2																							900			2140×2170			2140×2170		*	12
P11-CO150	$ _{D} $																				800			1970×2060			1970×2060		40	12			
																			2.5			900			2140×2060	4550	2100	2140×2060		40			
P11-CO150	D2														2.0			800			1970×2170			1970×2170		*							
							900 800			2140×2170			2140×2170																				
P14-CO60	D						900			1970×2460 2140×2460			1970×2460 2140×2460		40																		
	Н			1			800			1970×2570	4000	1400	1970×2570			90																	
P14-CO60	D2						900			2140×2570			2140×2570		*																		
D14 CO06							800			1970×2460			1970×2460		40																		
P14-CO96	D			1.6			900			2140×2460	4200	1500	2140×2460		40																		
P14-CO96	D2			1.6			800			1970×2570	4200	1300	1970×2570		*																		
							900			2140×2570			2140×2570			10																	
P14-CO105	D						800			1970×2460			1970×2460		40	10																	
		14	952	1.75	1100×2100	2300	900	2100	Side	2140×2460	4250	1550	2140×2460	2100																			
P14-CO105	D2						800 900			1970×2570 2140×2570			1970×2570 2140×2570		*																		
	Н						800			1970×2460			1970×2460																				
P14-CO120	D						900			2140×2460			2140×2460		40																		
044.00400				2			800			1970×2570	4350	1650	1970×2570		\																		
P14-CO120	102						900			2140×2570			2140×2570		*																		
P14-CO150	Д						800			1970×2460			1970×2460		40	12																	
14-00100	الا			2.5			900			2140×2460	4550	2100	2140×2460		40																		
P14-CO150	D2			2.5			800			1970×2570	7000	2100	1970×2570	0	*	1																	
				1	1		900			2140×2570			2140×2570		· ·	1																	

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

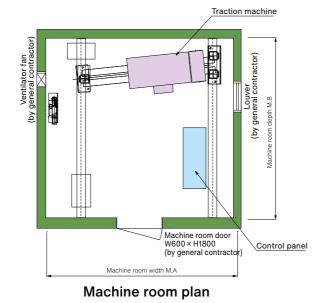
Note:

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[•] If the location of Power source panel, Control panel and Electric power supply are changed. Please consult our local distributor.

Hook (by general contractor) Dust-proofed (by general contractor) Hoistway lighting (by general contractor) Pit inspection receptacle (by general contractor) Ladder (by general contractor) Pit waterproofed (by general contractor)



Car internal width A Hoistway width X

Hoistway plan

Hoistway section

Specifications

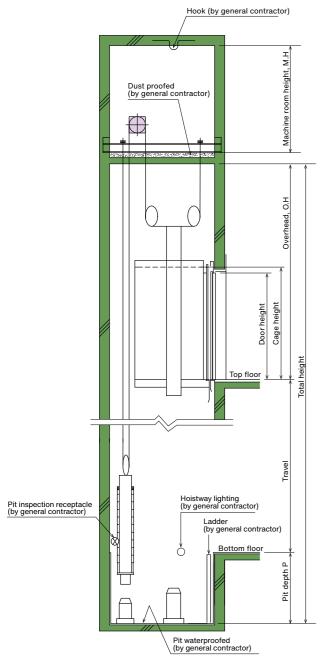
Туре		Nos.of	Capacity	Speed	Cage s Internal(ntrance nm)	C/W	Hoistway size(mm)		m)	Machine r		Max. Service	Max. Travel																														
, , , , , , , , , , , , , , , , , , ,		Person	(kg)	(m/s)	A×B	Height	Width	Height		X×Y	ОН	Р	MA×MB	MH	Stops(s)	(m)																														
							900			2150×2070			2150×2070																																	
P14-CO180	w	14	952	3	1600×1400	2300	1000	2100	Rear	2350×2070	5250	2500	2350×2070	2100	48	150																														
							1100			2550×2070			2550×2070																																	
P17-CO60	w			1			1000			2350×2170	4200	1380	2350×2170			90																														
1 17-0000	**			'			1100			2550×2170	4200	1000	2550×2170			30																														
P17-CO96	w			1.6			1000			2350×2170	4350	1450	2350×2170																																	
1 17 0000				1.0			1100			2550×2170		1400	2550×2170			100																														
P17-CO105	w			1.75			1000			2350×2170	4400	1480	2350×2170																																	
	Ш	17	1156		1800×1500	2300	1100	2100	Rear	2550×2170			2550×2170	2100	48																															
P17-CO120	w			2			1000			2350×2170	4500	1600	2350×2170																																	
							1100			2550×2170			2550×2170																																	
P17-CO150	w			2.5			1000			2350×2170	4800	2000	2350×2170			150																														
	Ш						1100	ļ		2550×2170			2550×2170																																	
P17-CO180	w			3			1000			2350×2170	5250	2500	2350×2170																																	
							1100			2550×2170	4000	4000	2550×2170																																	
P18-C060	W			1	-						4200	1380				90																														
P18-C096	W			1.6	-						4350	1450				100																														
P18-CO105	W	18	1224	1.75	2000×1400	2300	1100	2100	Rear	2550×2070	4400	1480	2550×2070	2100	48																															
P18-CO120	W			2.5							4500 4800	1600				450																														
P18-CO150 P18-CO180	W			3							5250	2000				150																														
P19-C060	W			1							4200	2500				90																														
P19-C060 P19-C096	W			1.6	-						4350	1380 1450	-			90																														
P19-C096	W			1.75	-						4400	1480				100																														
P19-CO103	W	19	1292	2	2000×1500	2300	1100	2100	Rear	2550×2170	4500	1600	2550×2170	2100	48																															
P19-CO150	W			2.5	-						4800	2000				150																														
P19-CO180	w			3	-						5250	2500	1			150																														
1 13-00100	VV			1				1100			2550×2370	3230	2300	2550×2370																																
P23-CO60	W				<u> </u>	1.6	_			1			1200			2750×2370	4200	1380	2750×2370			90																								
	Н									1.6																											1100	1		2550×2370			2550×2370			
P23-CO96	W										1.6			1200			2750×2370	4350	1450	2750×2370																										
									1100	1		2550×2370			2550×2370			100																												
P23-CO105	W			1.75			1200			2750×2370	4400	1480	2750×2370		40																															
		23	1564		2000×1700	2300	1100	2100	Rear	2550×2370			2550×2370	2100	48																															
P23-CO120	W			2			1200	1		2750×2370	4500	1600	2750×2370																																	
200 00150				2.5			1100			2550×2370			2550×2370			450																														
P23-CO150	W			2.5			1200	1		2750×2370	4800	2000	2750×2370			150																														
200 00 100				2			1100			2550×2370			2550×2370																																	
P23-CO180	W			3			1200			2750×2370	5250	2500	2750×2370																																	
P25-CO60	W			1							4200	1380				90																														
P25-CO96	W			1.6							4350	1450				400																														
P25-CO105	W	25	1700	1.75	2000×1750	2300	1200	2100	Door	2750×2420	4400	1480	2750×2420	2400	40	100																														
P25-CO120	W	25	1700	2	2000×1750	2300	1200	2100	Rear	2750×2420	4500	1600	2/50×2420	2100	48																															
P25-CO150	W			2.5							4800	2000				150																														
P25-CO180	W			3							5250	2500																																		
P29-CO60	W			1							4200	1380				90																														
P29-CO96	W			1.6							4350	1450				100																														
P29-CO105	-	29	29 1972		2100×1950	2300	1200	2100	Rear	2750×2620	4400	1480	2750×2620	2100	48	100																														
P29-CO120	-	20	1012	2	_ 100 1000	2000	1.200	2.00	i todi	2,00,2020	4500	1600	2100-2020	2100																																
P29-CO150	-			2.5							4800	2000				150																														
P29-CO180	W			3							5250	2500																																		
P33-CO60	W			1							4200	1380				80																														
P33-CO96	W	33	2244	1.6	2300×1950	2300	1200	2100	Rear	2850×2620	4350	1450	2850×2620	2100	48																															
P33-CO105	W			1.75		-500					4400	1480			"	100																														
P33-CO120	W			2							4500	1600																																		

W: Wide car

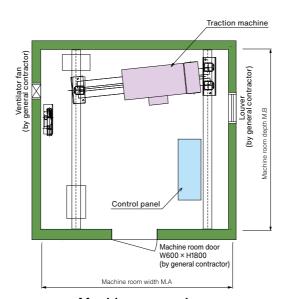
Note:

- 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.

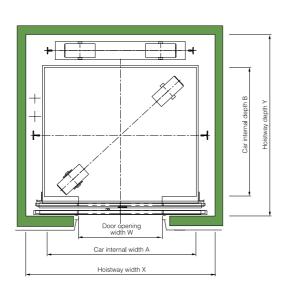
• If the location of Power source panel, Control panel and Electric power supply are changed. Please consult our local distributor.



Hoistway section



Machine room plan



Hoistway plan

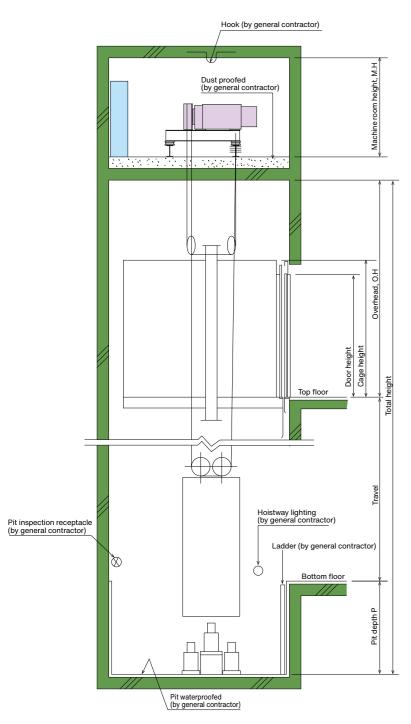
Specifications

Туре		Nos.of Person	Capacity	Speed	Cage size Internal(mm)			ntrance nm)	C/W	Hoistway	size(m	m)	Machine r		Max. Service	Max. Travel
· ·		reison	(kg)	(m/s)	A×B	Height	Width	Height		X×Y	ОН	Р	MA×MB	MH	Stops(s)	(m)
P11-CO210	w			3.5			800			1900×2150	6250	3250	1950×2150			
F11-CO210	VV	11	748	3.5	1400×1350	2300	900	2100	Rear	2100×2150	0230	3230	2150×2150	2250	64	200
P11-CO240	w	''	740	,	1400^1330	2300	800	2100	Iteai	1900×2150	6800	3850	1950×2150	2250		
P11-CO240	VV			4			900			2100×2150	0000	0 3030	2150×2150			
				3.5			900			2100×2200		3250	2150×2200			
P14-CO210	W						1000			2300×2200	6250		2350×2200	1		
		14	952		1600×1400	2300	1100	2100	Rear	2500×2200			2550×2200	2250	64	200
		14	932		1000^1400	2300	900	2100	Neai	2100×2200			2150×2200	2230	04	200
P14-CO240 V	W			4			1000			2300×2200	6800	3850	2350×2200			
							1100			2500×2200			2550×2200			

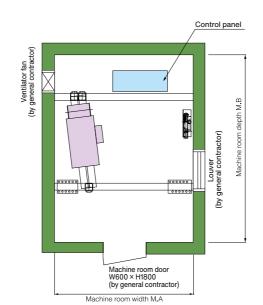
W: Wide car

Note:

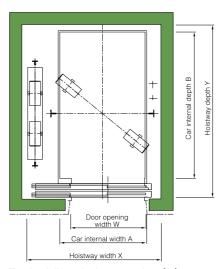
- The above table complies with EN81-20/50 standards.
- Please contact to our local distributor to check for other standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- Hoistway dimensions take into account the error of up to 50 mm after the construction work.
- The hoistway dimentions in chart are the minimum requiment.
- 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.



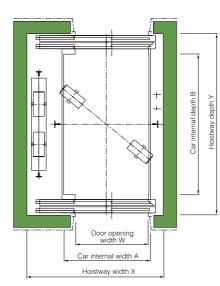
Hoistway section



Machine room plan



Typical floor hoistway plan (D)



Typical floor hoistway plan (D2)

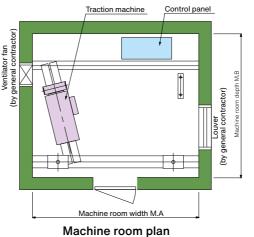
Specifications

Туре		Nos.of	Capacity	Speed	Cage s Internal(ntrance nm)	C/W	Hoistway	/ size(m	m)	Machine r dimensions		Max. Service	Max. Trave	
		Person	(kg)	(m/s)	A×B	Height	Width	Height		X×Y	OH	Р	MA×MB	MH	Stops(s)	(m)	
P14-CO180	w	14	952	3	1600×1400	2300	800 900	2100	Side	2450×1850	5250	2500	2450×1850	2200	48	150	
P17-C060	١,,,						1000			2650×1890	4000	1380	2650×1890				
P17-C000	W			1			1100			2750×1890	4200	1380	2750×1890			90	
P17-CO96	w			4.0			1000			2650×1890	4350	1450	2650×1890				
1 17-0030	VV			1.6			1100			2750×1890	4330	1450	2750×1890			100	
P17-CO105	w			1.75			1000			2650×1890	4400	1480	2650×1890			100	
1 17-00100	VV	17	1156	1.75	1800×1500	2300	1100	2100	Side	2750×1890	4400	1400	2750×1890	2200	48		
P17-CO120	$ _{w} $			2			1000			2650×1890	4500	1600	2650×1890 2750×1890				
1 17-00120	VV						1100			2750×1890	4300	1000					
P17-CO150	w			2.5			1000			2650×1890	4800	2000	2650×1890			150	
1 17-00130	VV			2.5			1100			2750×1890	4000	2000	2750×1890			130	
P17-CO180	$ _{w} $			3			1000			2650×1890	5250	2500	2650×1890				
1 17-00100	VV			3			1100			2750×1890	3230	2500	2750×1890				
P18-2S60	D			1							4200	1380				90	
P18-2S96	D			1.6							4350	1450			48	100	
P18-2S105	D	18	1224	1.75	1200×2300	2300	1100	2100	Side	2110×2760	4400	1480	2110×2760				
P18-2S120	D	10	1224	1224	2	1200.2000	2000	1100	2100	Olde	21102700	4500	1600	21102700		"	
P18-2S150	D				2.5						4800	2000		2200		150	
P18-2S180	D			3							5250	2500					
P17-2S60	D2			1							4200	1380				90	
P17-2S96	D2				ŀ		1.6		4350 1450				100				
P17-2S105	D2	17	1156	1.75	1200×2200	2300	1100	2100	Side	2110×2870	4400	1480	2110×2870		*	100	
P17-2S120	D2	.,	1100	2	1200 2200	2000	1100	2100	Oldo	2110-2010	4500	1600	2110-2010				
P17-2S150	D2			2.5							4800	2000				150	
P17-2S180	D2			3							5250	2500					
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		48		
P22-2S120	D			2							4500	1600					
P22-2S150	D			2.5							4800	2000				150	
P22-2S180	D			3							5250	2500		2200			
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		*		
P21-2S120	D2			2							4500	1600					
P21-2S150	D2			2.5							4800	2000				150	
P21-2S180	D2			3							5250	2500					

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



plan Typical floor hoistway

Door opening width W

Car internal width A

Hoistway width X

Typical floor hoistway plan (W)

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
- 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.

► Machine rooms

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

► 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 $\pm 10\%$ for the motor, and ±2% for the lighting equipments.
- 2. In the hoistways, please prevert the temperature from exceeding 40 $^{\circ}\text{C}$ 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

Global Network

Head office / Manufacturing base Head office

A TOSHIBA ELEVATOR AND BUILDING SYSTEMS CORPORATION

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- TOSHIBA ELEVATOR (CHINA) CO., LTD. Head Office: No. 685 Wen Chuan Road, Baoshan District, Shanghai 201901, The People's Republic of China.
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- TOSHIBA ELEVATOR MIDDLE EAST (L.L.C.) Head Office: P. O. Box 16733, Dubai, UAE
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Together with our global partners, we connect with Asia and then the world, through our technology and our spirit.

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

[For more information]

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https://www.toshiba-elevator.co.jp/elv/infoeng/

