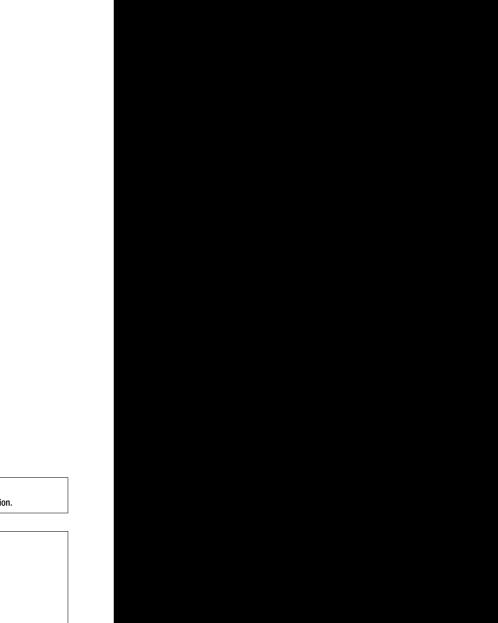


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### TOSHIBA

Toshiba High Speed Elevators **New ELBRIGHT** 



**3rd Edition** 

For SNI standard

### \* Revised publication effective Jun. 2023

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

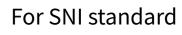
### TOSHIBA

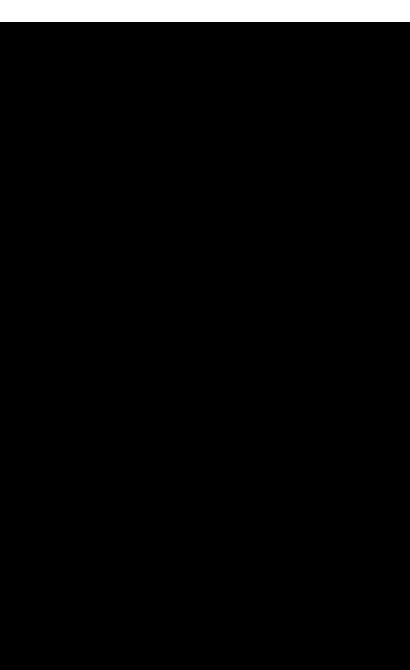
Toshiba Elevator and Building Systems Corporation

72-34, Horikawa-cho, Saiwai-ku, Kawasaki 212-8585, Japan

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.





#### TOSHIBA ELEVATOR AND BUILDING SYSTEMS CORPORATION

# THE SOLUTIONS

### COMPANY SOLUTIONS

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

Utilizing the comprehensive technological infrastructure developed by Toshiba Group in more than 145 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.

# New ELBRIGHT TOSHIBA HIGH SPEED ELEVATORS

### A new concept in high-speed elevators.

Toshiba never stops introducing the latest technologies and refining its high-speed elevator expertise.

Toshiba proves this again with the New ELBRIGHT : a new elevator for a new age. Toshiba engineering has combined to produce the world's first inverter drive controlled high-speed elevator, with the high-efficiency control, energy efficiency, and quiet operation today's society demands.

#### Product Line-up

Scope of pecification	Range of application		
Passenger	$9\sim$ 28 persons		
Rated load	$620\sim 1900~{ m kg}$	Rated	
Rated speed	$2.0\sim5.0~{ m m/s}$	speed (m/s)	
		Rated lo	oad (
lote1: The above SNI standa	table complies with ards.	Ту	pe

#### The Solutions

Company Solutions ..... A new concept in high-speed elevator

**Functions**..

Hoistway Layout Specifications Works by Others

**Global Network**...



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# **Functions**

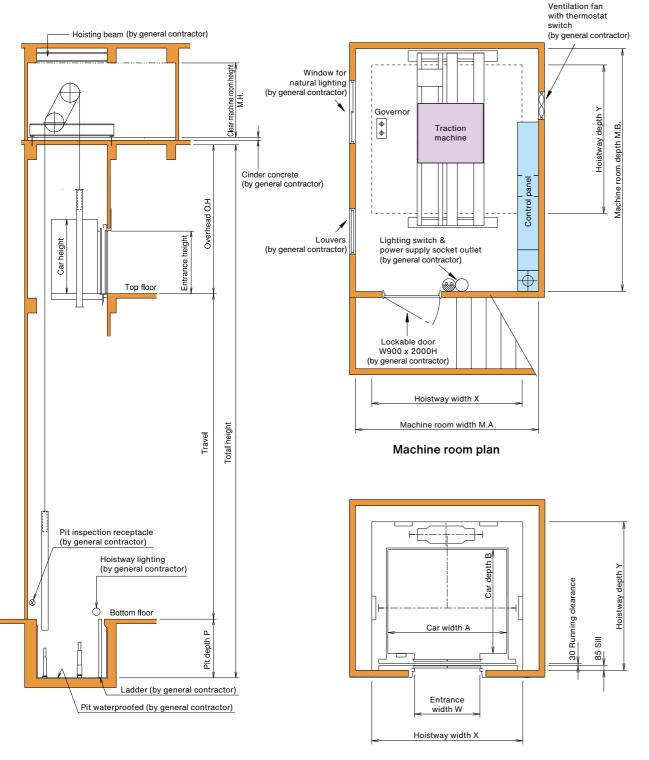
 $\bigcirc$ :STANDARD  $\triangle$ :OPTIONAL

		U:STANDARD 🛆	: 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	Fully automatic operation for 2 cars in the same group	
Operations	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	
	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 operation	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	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	0
Safety 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	
	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	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	
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.	
	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.	

		$\bigcirc$ : STANDARD $\triangle$ :	OPTIONAL
Functions	Notes	Descriptions	
	Full car bypass	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	0
	Nuisance call cancellation	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	
	Car chime	A chime installed in the car ceiling will sound when the lift arrives	
	Hall chime [1 car or 2 car]	A chime installed in the lift lobby will sound when the lift arrives	
	Hall chime [Group control]	A chime installed in the lift lobby will sound when the lift arrives	0
	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	
Service Functions	Sub car operating panel [Single entrance (Front side retuen panel)]	Additional car operating panel	
	Sub car operating panel [Double entrance (Rear side retuen panel)]	Additional car operating panel	0
	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	
	Parking operation [Automatic]	Parks the lift at designated floor auotmatically	
	Car lighting automatic cut-off	When the lift is not in operation after a pre-determined period of time, the car light will turn off automatically	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	
	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	

### **Hoistway Layout**

## **Specifications**



Туре		Nos.of	Capacity	Speed	Cage s Internal(			ntrance m)	C/W	Hoistway size(mm)		Machine room dimensions (mm)		Max. Service	Max. Travel	
		Person	(kg)		A×B	Height	Width	Height		Х×Ү	OH	Р	MA×MB	MH	Stops(s)	(m)
P8-CO120	W			2							5950	2450				
P8-CO150	W	1		2.5							6150	2450				
P8-CO180	W			3					_	1990×1860	6450	2750	2340×3350			
P8-CO210	W	9	620	3.5	1400×1100	2300	800	2100	Rear		6850	3250		2250		
P8-CO240	W	1		4						10001010	7450	3850	0040.0400	1		
P8-CO300	W	1		5						1990×1910	8400	4050	2340×3400			
P12-CO120	W			2							5950	2450			1	
P12-CO150	W			2.5						0450-0440	6150	2450	0540.0000			
P12-CO180	W		000	3	1000-1050	0000	000	0400	-	2150×2110	6450	2750	2540×3600	0050		
P12-CO210	W	13	900	3.5	1600×1350	2300	900	2100	Rear		6850	3250		2250		
P12-CO240	W			4						0450-0400	7450	3850	2540×3650	1		
P12-CO300	W	1		5						2150×2160	8400	4050	2540×3650			
P13-CO120	W			2							5350	2450			1	
P13-CO150	W			2.5						2150×2260	5550	2450	0540-0750			
P13-CO180	W	15	1100	3	1000-1500	2200	000	2100	Deer	2150*2260	5850	2750	2540×3750	2250		
P13-CO210	W	15	1100	3.5	1600×1500	2300	900	2100	Rear		6250	3250		2250		
P13-CO240	W	1		4						2150-2210	6850	3850	2540×2800	1		
P13-CO300	W			5						2150×2310	7800	4050	2540×3800			
P15-CO120	W			2							5350	2450				
P15-CO150	W	1		2.5						2350×2260	5550	2450	2740×3750			
P15-CO180	W	17	1160	3	1000-1500	2300	1000	2100	Deer	2350*2260	5850	2750	2/40×3/50	2250		
P15-CO210	W	17	1160	3.5	1800×1500	2300	1000	2100	Rear		6250	3250		2250		
P15-CO240	W	1		4						2350×2310	6850	3850	2740×3800	1		
P15-CO300	W			5						2350*2310	7800	4050	2740^3800		64	200
P18-CO120	W			2							5350	2450			04	200
P18-CO150	W			2.5						2550×2260	5550	2450	2940×3750			
P18-CO180	W	19	1300	3	2000×1500	2300	1000	2100	Rear	2000~2200	5850	2750	2940~3750	2250		
P18-CO210	W	19	1300	3.5	2000^1300	2300	1000	2100	Redi		6250	3250		2250		
P18-CO240	W			4						2550×2310	6850	3850	2940×3800			
P18-CO300	W			5						2000~2010	7800	4050	2940^3000			
P21-CO120	W			2							5350	2450				
P21-CO150	W			2.5						2550×2460	5550	2450	2940×3950			
P21-CO180	W	22	1500	3	2000×1700	2300	1100	2100	Rear	2000-2400	5850	2750	2040-00000	2250		
P21-CO210	W	~~~	1500	3.5	2000~1700	2000	1100	2100	Iteai		6250	3250		2230		
P21-CO240	W			4						2550×2510	6850	3850	2940×4000			
P21-CO300	W			5						2000-2010	7800	4050	2010-1000			
P24-CO120	W			2							5350	2450				
P24-CO150	W			2.5						2750×2510	5550	2450	3040×4000			
P24-CO180	W	25	1700	3	2100×1750	2300	1200	2100	Rear	2.00 20.0	5850	2750		2250		
P24-CO210	W			3.5	2.00000						6250	3250				
P24-CO240	W			4						2750×2560	6850	3850	3040×4050			
P24-CO300	W			5						2.00 2000	7800	4050				
P27-CO120	W			2							5350	2450				
P27-CO150	W			2.5						2750×2710	5550	2450	3040×4200			
P27-CO180	W	28	1900	3	2100×1950	2300	1200	2100	Rear		5850	2750		2250		
P27-CO210	W			3.5							6250	3250				
P27-CO240	W			4						2750×2760	6850	3850	3040×4250			
P27-CO300	W			5							7800	4050				
W: Wide ca	r															

Note:

• The above table complies with SNI 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.

# **Works by Others**

Works below are not included in elevator installation works:

### Memo

▶ Hoistways	
1. Hoistway construction and fire-proofing work, and opening work for jambs, indicators and push-buttons, etc.	
Please note that chipping or padding work is performed as required, in case the structural error is 30 mm or more.	
<ol> <li>Installation work of separating beams, intermediate beam, back beam and lateral beams (as required).</li> </ol>	
3. Installation work of the base plate for each floor and of bed steel for furnishing the equipments related to landing entrance, in case of	
hoistways of steel structure of PC structure.	
4. Fire-proofing work for the steel frame material in steel structured hoistways, and fire-proofing work around landing entrances (as required).	
5. Finishing works of walls and floors, etc., around entrances, after furnishing equipments related to landing entrances.	
6. Furnishing work of base steel or others for furnishing rail brackets, particularly for elevated floor heights (as required).	
7. Installation work of the entrance or the gangway for pit inspection (as required).	
8. Water-proofing work of the pit (including drainage if necessary).	
9. Re-arrangement of the building body in case of usable space under the pit.	
10. Installation work of emergency exits for rescue purposes when there are floors at which the elevator does not stop and installation of a fascia	
plate.	
1. Shelter equipments from rain at landing entrances directly exposed to the air in the place like roof.	
2. Installation work of hooks or beams on top of the elevator shaft.	
3. Installation work of lighting in hoistway (as required).	
4. Installation work of vent opening at the top of shaft (as required).	
15. Installation work of a net or wall to prevent falling into the pit (in case of the pit level is different.)	
16. All works related to the building structure other than those above.	
Machine rooms	
1. Construction work for machine rooms and installation works for their entrances (including sound proofing work if necessary)	
2. Fire-proofing work for machine rooms and opening work for machine room floors.	
3. Installation work of machine beam supports and spacers.	
4. Cinder concreting and its finishing work after floor piping in machine rooms.	
5. Installation work of hooks or beams on ceilings in machine rooms.	
6. Installation work of stairs leading to machine rooms and stairs in machine rooms (if necessary)	
7. Installation work of lighting windows.	
8. Dust-proof finish of the floor.	
Works for Equipment	
1. Wiring work of the power supply for motors and that for lighting equipments, and of grounding to the power source panels of	
elevators in the Elevator shaft.	
2. Wiring work of the power supply to the supervisory panels.	
<ol> <li>Piping and wiring works of interphones outside the hoistway and of others necessary for elevators.</li> <li>Supply and installation of quity bing devices for american graphy in the graph of neuron follows and two pairs of roley contacts.</li> </ol>	
4. Supply and installation of switching devices for emergency power supply in the event of power failure and two pairs of relay contacts	
for normal / emergency power identification, and their piping and wiring work (if necessary).	
5. Piping and wiring work of supervisory panels, alarm panels and inter-communication systems, etc., outside the hoistways.	
6. Furnishing work of receptacles for inspection in pits.	
Temporary Works	
The following matters must be arranged:	

- The following matters must be arranged:
   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 and the stoek yard for indertake white a
   3. Supply of electric power for installation work and the trial operation for adjustment.
- Security to ensure sufficient passage for carrying heavy goods.
   Regarding the use of the elevator for the building construction work, a contract with a separate written estimate is required.

#### Note

When planning elevator equipments, please take the following items into consideration:

- 1. Provide the power facility so that the voltage regulation of power supply at the receiving terminals in the hoistway is kept within  $\pm 10\%$  for motor, and  $\pm 2\%$  for lighting equipments.
- 2. In the hoistways, please ensure the temperature does not exceed 40  $^{\circ}$ C and humidity 90% (monthly mean) and 95% (daily mean).
- 3. Please do not allow ingress of chemically toxic gas or excess amount of dust enter into the hoistways, that makes the metal or electrical contacts corrode.

For the estimate inquiry, 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.



### **Global Network**

A TOSHIBA ELEVATOR AND BUILDING SYSTEMS CORPORATION Head Office: 72-34, Horikawa-cho, Saiwai-ku, Kawasaki 212-8585, Japan Factory: 1 Toshiba-cho, Fuchu City, Tokyo 183-8511 **B** TOSHIBA ELEVATOR (SHENYANG) CO., LTD. Head Office: No.5 Feiyun Road Hunnan New District Shenyang, The People's Republic of China TOSHIBA ELEVATOR (CHINA) CO., LTD. C 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

### **CHEVALIER SINGAPORE HOLDINGS PTE. LTD.** Head Office: 23 Genting Road #07-01/02 Chevalier House, Singapore 349481



Head office / Manufacturing base

Head office

400059 India

TOSHIBA ELEVATOR MIDDLE EAST (L.L.C.) Head Office: P. O. Box 16733, Dubai, UAE



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

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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.

C

[For more information] Toshiba Elevator and Building Systems Corporation Head office: 72-34, Horikawa-cho, Saiwai-ku, Kawasaki 212-8585, Japan https://www.toshiba-elevator.co.jp/elv/infoeng/



