3rd Edition

For Indian standard

Safety Cautions

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

TOSHIBA

Toshiba Elevator and Building Systems Corporation

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

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.
- * Revised publication effective Sep. 2021

GK-F213(1)-2109-1000-2109(TD)

TOSHIBA

TOSHIBA COMPACT MACHINE ROOM ELEVATORS

STANDARD PASSENGER ELEVATOR

ELCOSMO-III

For Indian standard

IHE 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

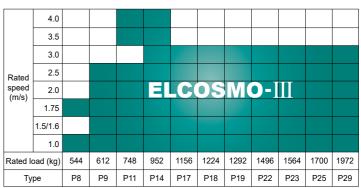
CONCEPT of ELCOSMO-III

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 ∼ 29 persons
Rated load	544 ∼1972 kg
Rated speed	1.0 ∼ 4.0 m/s ^{**1}



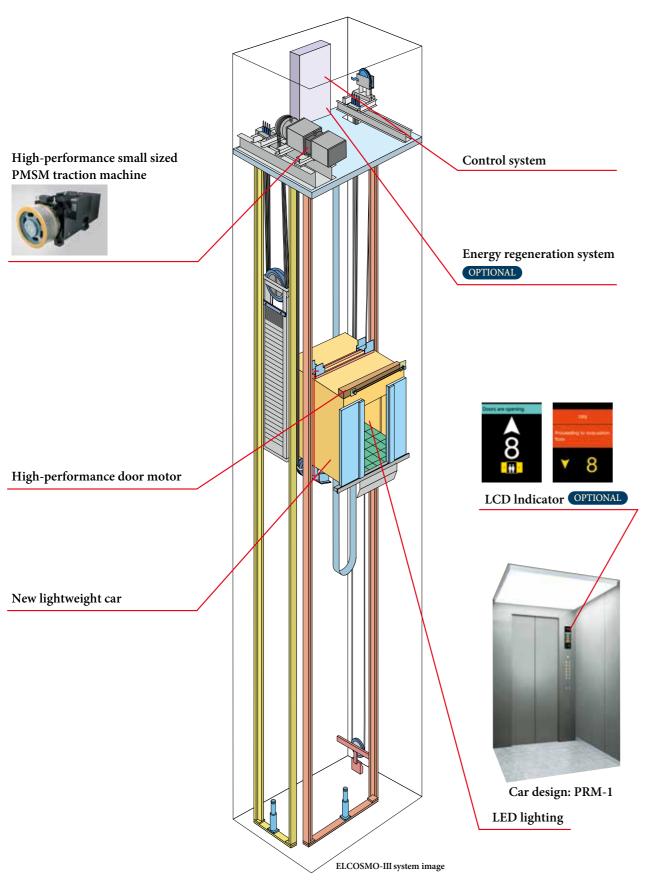
Note1: Applicable range of rated speed 3.5 or 4.0 m/s are rated load 748 or 952kg only. Note2: The above scope complies with IS14665 standar



Contents

Company conditions 1.1
Concept of ELCOSMO-III P.2
Technology
Technology P.3
Safety Function P.5
Energy Saving & Environment P.9
Expansion of variations
in car ceiling designP.13
Car Design
OFFICEP.15
RESIDENCEP.17
HOTELP.19
SHOPP.21
Hall Design
Hall Decoration Item VariationP.23
Operation SystemsP.31
Functions P.49 Hoistway Layout/
SpecificationsP.51
Works by OthersP.61

TECHNOLOGY



New Technology

High-performance Small Sized PMSM Traction Machine

- ◆ 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.

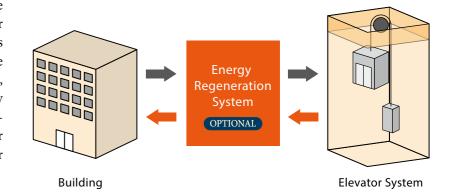


High Performance Control Systems

A high performance CPU is adopted for control systems. 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

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 952kg, 1.75m/s, 12-hour operation per day, 25 days per month).



Use of Roller Guide OPTIONAL

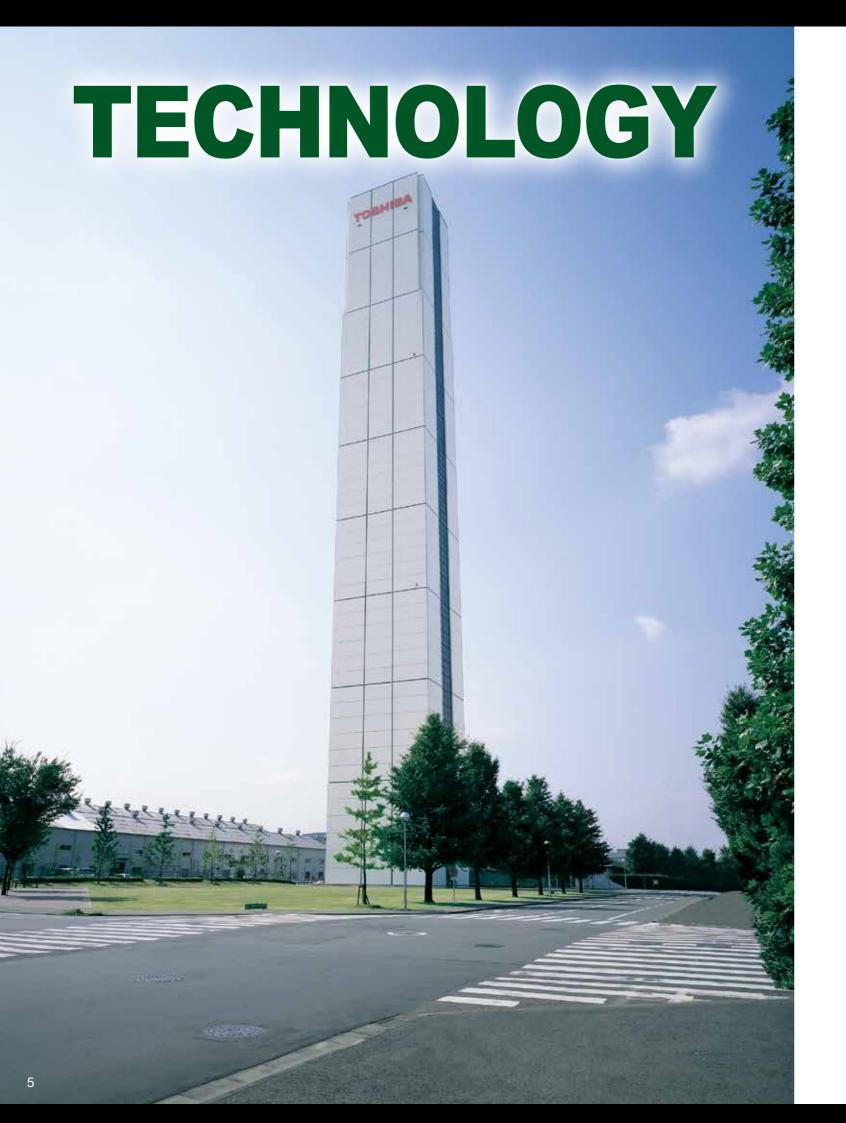
A roller guide is used instead of a conventional sliding guide shoe. Features include:

- ◆ 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.



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

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



Safety Function

Unintended Car Movement Protection OPTIONAL

A traction drive elevator shall include means to prevent uncontrolled movement of the elevator away from the landing with neither the landing nor the car doors in the locked position. The Elevator shall detect uncontrolled movement of the car away from the landing and stop no more than 1200mm after as measured from the landing floor sill. Before operation, the uncontrolled car movement protection system means for an ascending elevator, the clearance between the landing door floor sill and the apron of the stopped elevator shall not exceed 200mm. In additional, uncontrolled movement protection means the horizontal distance between the sill or entrance frame of the stopped elevator and the wall of the well, from the landing floor sill to 1200mm downward for a descending elevator.

Car Door Lock OPTIONAL

Every car door shall be mechanically locked by at least 7mm such that it can only be opened in the unlocking zone of a landing. The lift operation shall automechanically depend on the locking of the car door. This locking shall be proved by an electrical safety device to confirm the horizontal distance between the well wall and the sill or entrance frame of the car is within 150 mm.

Ascending Car Overspeed Protection

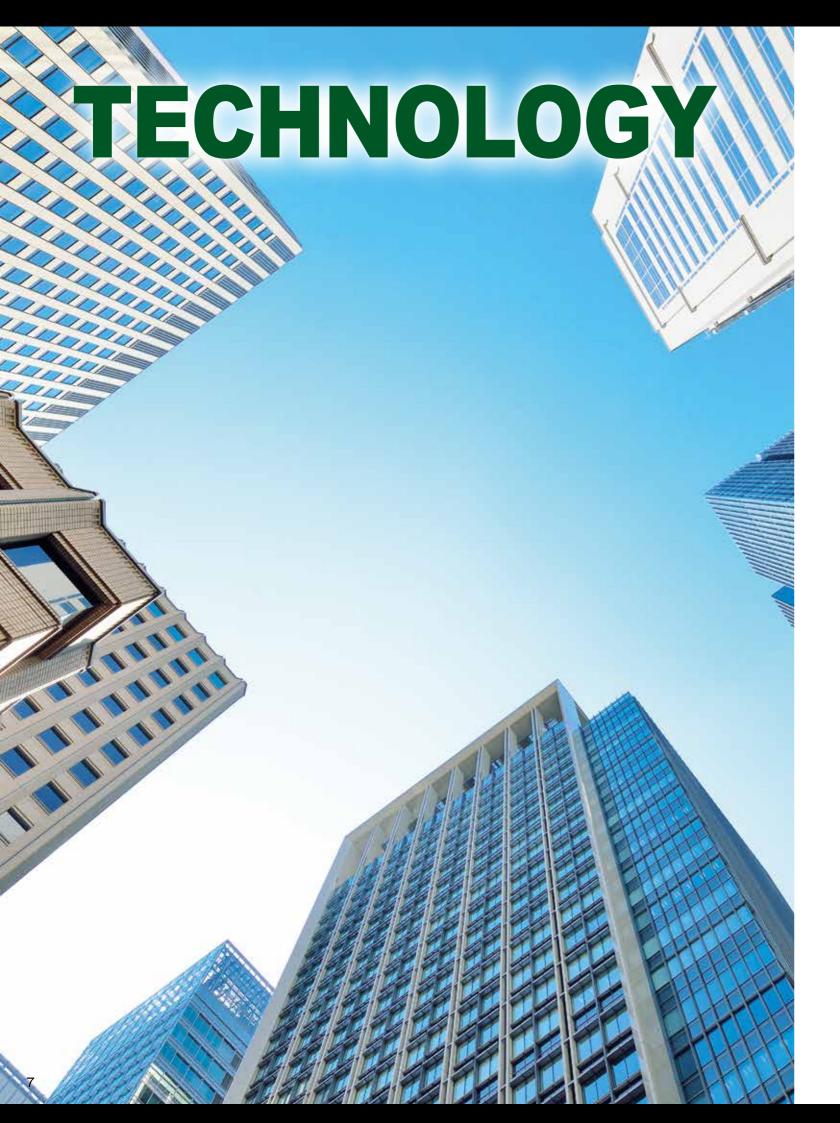
A device to prevents an elevator ascending to the elevator shaft top beyond the rated speed due to a device like an electromagnetic brake or control unit. It monitors the speed of the upper direction mechanically by a governor, then cut off the power supply and safety circuit by an overspeed detecting switch when the speed exceeds the rated speed more than 1.3 times. The elevator shall be stopped by triggering the double brake when overspeed occurred.

Multi-beam Door Safety

The photoelectric cell detects passengers in the doorway and reopens closing doors.

Full open Full open (Getting on)

* Image of Multi-beam Door Safety



Safety Function

Automatic Landing in Power Failure

In case of a power failure, backup lamps are automatically lighted up in the cars, while the system's operation is switched to the elevator system's own battery powered inverter. Cars stranded between floors are taken to the nearest floor; otherwise, doors are opened and passengers are let out. The doors automatically open in case the car stops at any point that is not between floors but where the doors can be opened. (Note: Overridden by any similar backup or safety systems installed in compliance with safety codes.)

Earthquake Emergency Operation

OPTIONAL

When the system's seismic sensor installed in the elevator shaft detects an S-wave (the secondary seismic wave and the main shock of an earthquake) that exceeds the pre-set threshold, the system takes control with emergency procedures. "Earthquake" emergency signs lighted up in all cars, all cars are taken immediately to the nearest floor, doors are opened and passengers are instructed to alight.

Fire Emergency Operation

OPTIONAL

This emergency operation is automatically triggered in case of a fire, when a fire alarm button is actuated, or when a Fire/Smoke Detector detects an abnormality. All hall calls and floor selections are cancelled, passengers are informed of the emergency procedure with a "Fire" sign and a voice announcement and all cars are sent directly to the emergency exit floor. Doors open at the emergency floor and passengers are guided to safety.

Power failure detected.

0

The elevators sto

0

In each car, the "Power Failure" sign lights up and the in-car PA system instructs passengers with the following message:

"Please get off this elevator as soon as the doors open."

0

The car goes to the nearest floor, and the doors open.

0

After a pre-set period, the doors are closed.

lacksquare

Normal operation resumes when power supply is back.

 $\ensuremath{\ensuremath{\%}}\xspace Above flow$ chart is representable example

Earthquake detected.

A seismic sensor triggers emergency operation

0

In each car, the "Earthquake" emergency sign lights up and the in-car PA system instructs passengers with the following message:
"Please get off this elevator as soon as the doors open."

0

The car goes to the nearest floor and the doors open.

After a pre-set period, the doors are closed.

※Above flowchart is representable example

riie

0

Fire Alarm is actuated.

In each car, the "Fire" emergency sign lights up and the in-car PA system instructs passengers with the following message: "Please get off this elevator as soon as the

0

The car goes to the emergency exit floor, the doors open.

0

After a pre-set period, the doors are closed.

*Above flowchart is representable example

TECHNOLOGY



Energy Saving & Environment

Toshiba Group and the SDGs

The main plank of the "Toshiba Group Basic Commitment" is "Committed to people, Committed to the Future.". This expresses Toshiba Elevator and Building Systems is unwavering determination to contribute to the development of society through its business, and is consistent with the direction of the SDGs, which aim to realize a sustainable society. Acting in good faith in our daily activities, and with a passion to make the world a better place, looking to the future beyond the next generation, and to create that future with our stakeholders-inspired by these ideas, Toshiba Elevator and Building Systems has and will continue to bring together the creativity and technological capabilities it has cultivated to confront social issues that are becoming more complicated and serious, and to turn on the promise of a new day.

Note: Toshiba Elevator and Building Systems is working on business activities by extracting 11 items that can be promoted from all 17 types of SDGs goals.

SUSTAINABLE GALS DEVELOPMENT GALS

























Products and functions adopted to reduce power consumption

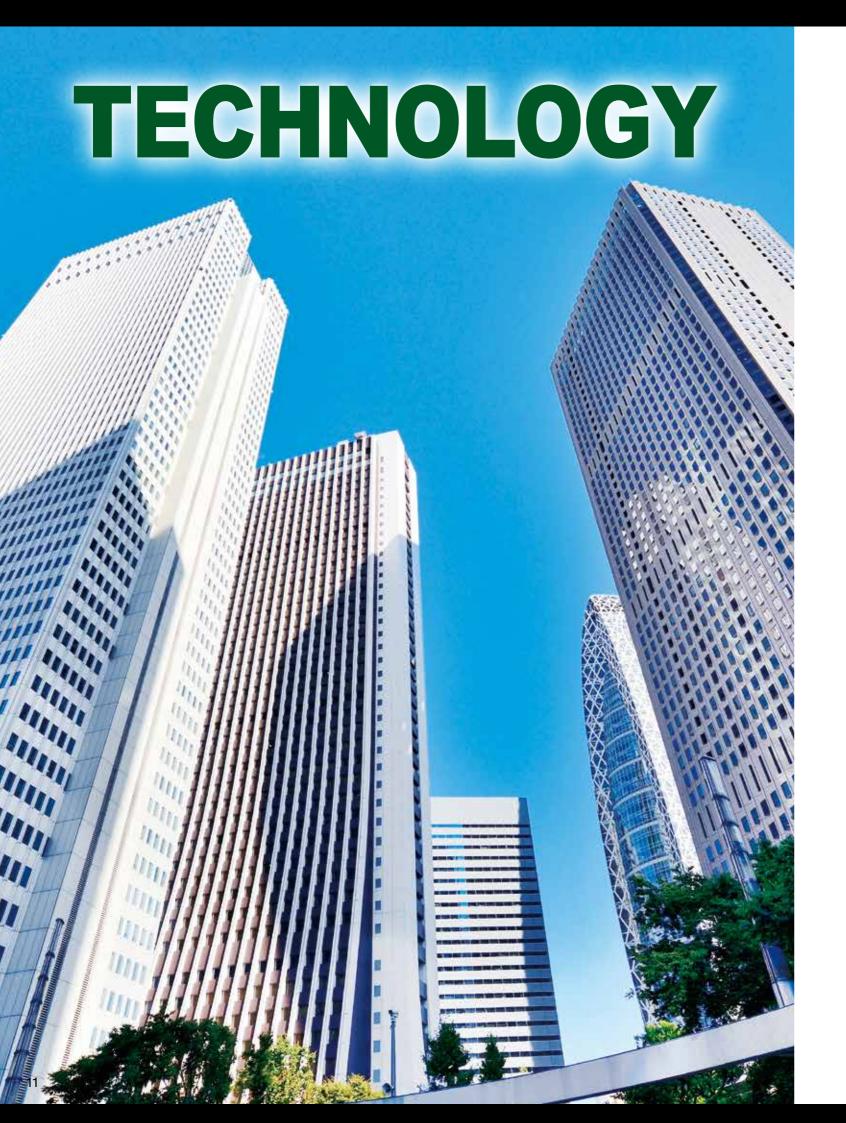
Suppress power consumption by reducing standby power, commercialization of the regenerative power function, adoption of LED lighting.

LED Lightings

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



PRM-1



Energy Saving & Environment

Providing environmentally conscious products

Toshiba elevator group is promoting the development of environmentally conscious products, which involves environmentally conscious product design, assessing the environmental impact of products and disclosing the environmental performance of products. Products are developed in compliance with the updated voluntary environmental performance standards.

Product assessment and voluntary environmental standards for products

In developing products, we assess them across their life cycles from manufacturing, logistics and use to disposal and recycling to conduct product development and reduce the environmental impacts on the global environment

Whereas product assessment is used to confirm the minimum necessary environmentally conscious requirements for product development, Voluntary Environmental Standards for Products have been established in the Toshiba elevator group to create highly environmentally friendly products and products complying with the same are released as environmentally conscious products.

Reducing hazardous materials

[Reduction of lead use]

By changing the method of tying rope, the use of lead can be eliminated or reduced.

[Employing LED lightings]

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

Lead-free Design of Base Plate, RoHS Compliance and Elimination of Specific Chemical Substances (15 Classifications)

Continuous concern over RoHS compliance, eliminating 15 classifications of specific chemical substances and using the lead-free technique for main circuit boards.

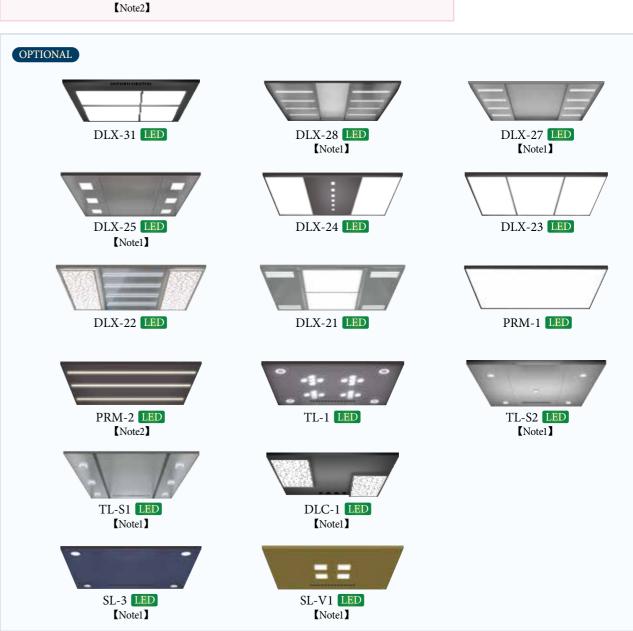


Expansion of variations in car ceiling design

Suitable for harmonization of a wide variety for building applications and concepts. Expanding the lineup of ceiling designs utilizing LED lighting
All ceiling lighting uses LED lighting to take environmental measures such as long life and energy saving.



- LED : LED light
- 【Note1】 Applies to models with a capacity of 1050kg or less.
- Note2 Applies to models with a capacity of 1600kg or less.



OFFICE

OPTIONAL

PRM-1

Front side view



Back side view



Ceiling design	PRM-1
Car side panel (Return panel)	Vibration finish stainless steel
Car side panel (Side panel)	Black color hairline finish stainless steel and Vibration finish stainless steel
Car side panel (Rear panel)	Black color hairline finish stainless steel and Mirror finish stainless steel
Kick plate	Hairline finish stainless steel
Car door	Black color hairline finish stainless steel
Car floor	Marble tile (JQ-1013)
COP	POP-G1L-104C
Indicator	10.4inch LCD
Handrail	Stainless steel flat type hand rail
Remark	Applies to models with a capacity of 1150kg or more.

Design variations

PRM-2



DLX-31



OPTIONAL DLX-27



OPTIONAL



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

RESIDENCE

OPTIONAL

DLX-24

Front side view



Back side view



Ceiling design	DLX-24 with pattern C									
Car side panel (Return panel)	Vibration finish stainless steel									
Car side panel (Side panel)	Rose gold color hairline finish stainless steel									
Car side panel (Rear panel)	Rose gold color hairline finish stainless steel and Mirror finish stainless steel									
Kick plate	Nil									
Car door	Mirror finish stainless steel									
Car floor	Vinyl tile (TSF-1C)									
COP	COP-G1L-57B									
Indicator	5.7inch LCD									
Handrail	Stainless steel round type hand rail									

Design variations



OPTIONAL TL-1



OPTIONAL DLX-21



OPTIONAL TL-S2





OPTIONAL

DLX-31

Front side view



Back side view



Ceiling design	DLX-31								
Car side panel (Return panel)	Black color hairline finish stainless steel								
Car side panel (Side panel)	Black color hairline finish stainless steel and Mirror etching finish stainless steel								
Car side panel (Rear panel)	Black color hairline finish stainless steel and Mirror etching finish stainless steel								
Kick plate	Nil								
Car door	Mirror etching finish stainless steel								
Car floor	Marble (JQ-1012)								
COP	POP-G1L-84C								
Indicator	8.4 inch LCD								
Handrail	Nil								

Design variations

DLX-24



DLX-25



OPTIONAL PRM-2



SL-1



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



OPTIONAL

DLX-22

Front side view



Back side view



Ceiling design	DLX-22
Car side panel (Return panel)	Vibration finish stainless steel
Car side panel (Side panel)	Vibration finish stainless steel and Mirror finish stainless steel
Car side panel (Rear panel)	Vibration finish stainless steel and Mirror finish stainless steel
Kick plate	Nil
Car door	Mirror finish stainless steel
Car floor	Marble (JQ-1013)
COP	POP-G1L-57B
Indicator	5.7 inch LCD
Handrail	Nil

Design variations

DLX-21



DLX-28



OPTIONAL DLX-23



OPTIONAL DLC-1-1





Hall Decoration Item Variation

The combination of elevator hall equipment and specifications extends design. It can be easily harmonized with the entrance design of the building.













Hall design 2

Hall design 5

Hall design 6

Hall design 7

Hall design 1 OPTIONAL

Hall jamb

Hall transam

Wide type jamb with transom Hairline finish stainless steel

Hall door

Hairline finish stainless steel Hairline finish stainless steel

Hall sill Hardened aluminium

Hall indicator Nil

Hall button HB-G1K Hall lantern HL-G1-O





HL-G1-O



Note: In the case of jamb with transom, fire-proof specification cannot be applied to the transom.

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

Hall design 2 OPTIONAL

Hall jamb Wide type jamb Painted steel panel (1NS)

Hall door Painted steel panel (1NS)

Hall transam

Hardened aluminium Hall sill

HI-G34-O Hall indicator Hall button HB-G1K Hall lantern Nil











Hall design 3 OPTIONAL

Hall jamb Wide type jamb

Painted steel panel (66YS) Painted steel panel (66YS)

Hall transam

Hardened aluminium Hall sill

HL-G1-O

Hall indicator

Hall door

Hall lantern

Hall button HIB-G1NL



HIB-G1NL









Hall design 4 OPTIONAL

Wide type jamb Hairline finish stainless steel Hall jamb

Hall door Painted steel panel (62YS)

HIB-G1L-43B

Hall transam

Hall sill Hardened aluminium

Hall indicator / Hall button

Hall lantern







Hall design 5 OPTIONAL

Hall jamb Wide type jamb

Painted steel panel (114PBS) Painted steel panel (114PBS)

Hall door

Hall transam

Hardened aluminium Hall sill

HI-G1-O Hall indicator Hall button HB-G1K Hall lantern









Hall design 6 STANDARD

Hall jamb Narrow type jamb

Painted steel panel (77GS)

Hall door Painted steel panel (77GS)

HIB-G1N

Hall transam

Hall sill Hardened aluminium

Hall indicator / Hall button

Hall lantern







Hall design 7 OPTIONAL

Hall jamb

Wide type jamb Hairline finish stainless steel

Hairline finish stainless steel Hall door

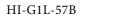
Hall transam

Hardened aluminium Hall sill

HI-G1L-57B Hall indicator Hall button HB-G1K

Hall lantern









OPERATION SYSTEMS

















Car Operation Panel: POP type

※Note: Applicable to Wide Car type models

Car Operation Panel



Indicator

Button

10.4 inch LCD

KB-3 (Orange light)

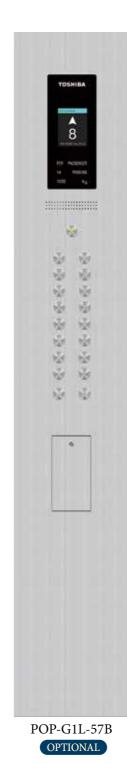
PRM-1



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

Car Operation Panel









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

Car Operation Panel: POP type

*Note: Applicable to Wide Car type models

Car Operation Panel



OPTIONAL



Button

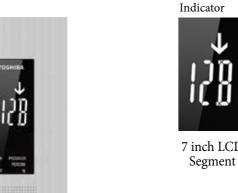
7 inch LCD Segment

GS-3LB

DLX-31



Car Operation Panel





GS-5B-WT

7 inch LCD







* * *

Car Operation Panel: FCOP type

*Note: Applicable to Deep Car type models

Car Operation Panel



OPTIONAL





8.4 inch LCD

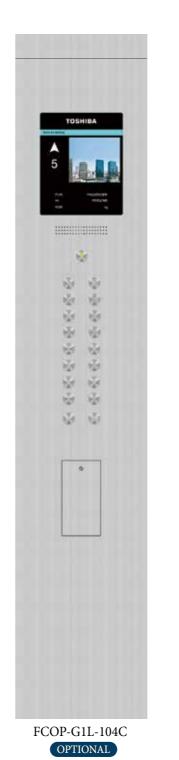
KB-7 (Orange light)

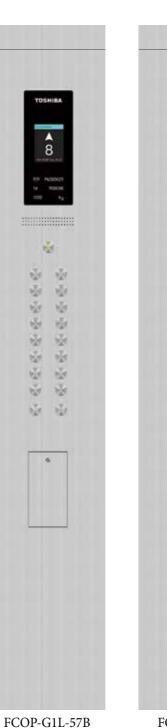
DLX-24



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

Car Operation Panel









FCOP-G1L

OPTIONAL

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

OPTIONAL

Car Operation Panel: FCOP type

 ${
m \%}$ Note: Applicable to Deep Car type models

Car Operation Panel



OPTIONAL



Button

7 inch LCD Segment

GS-3LB

TL-S2



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

Car Operation Panel

学 营

FCOP-G1NL

STANDARD







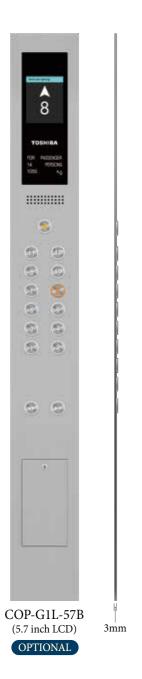
Button

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

Car Operation Panel: COP type

※Note: Applicable to all models

Car Operation Panel





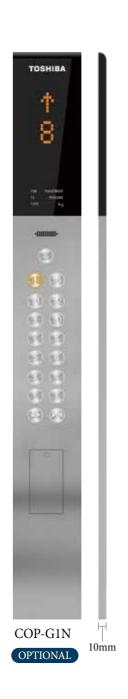


KB-7 (Orange light)



Car Operation Panel







Hall Indicator Button: HIB type

Hall Indicator Button



LCD Hall Indicator

Toshiba's universal designed 4.3 inch LCD hall indicators are capable of displaying various announcements such as emergency operation, maintenance status, etc.

4.3inch LCD display



4.3inch LCD segment



HIB-G1K3 HIB-G2K3 OPTIONAL OPTIONAL

LED Dot Matrix

*Note: A white color or orange color can also be selected for the LED light.

Orange light





White light

Detail of display



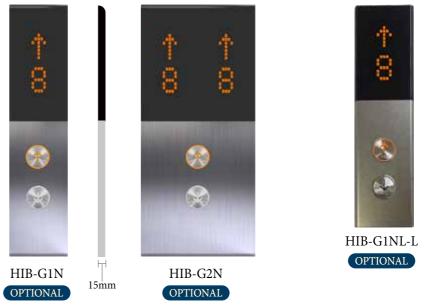
Hall Indicator Button

4.3 inch LCD segment





LED Dot Matrix





Hall Indicator

Hall Indicator OPTIONAL



HI-G1-O





LED Dot matrix

LCD Hall Indicator OPTIONAL

5.7 inch large LCD hall indicator is capable of displaying visuals linked from car security camera.







Controlled status



Hall Lantern

Hall Lantern OPTIONAL

*Note: A white light or orange light can also be selected for the lantern light.







HL-G2-W (White light)



HL-G3-O (Orange light)



HL-G4-O (Orange light)

Hall Button OPTIONAL





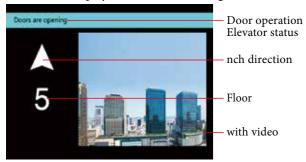
Car Position Indicator

Large LCD Indicator for Car Operation Panel OPTIONAL

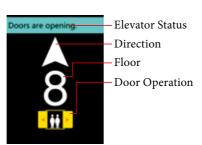
These 10.4 inch and 8.4 inch LCD indicators are capable of displaying in the elevator's various conditions (emergency operations, maintenance status) in large icons and letter in highly visible colors.

10.4 inch display for car operation panel

General car display (Without monitoring)



8.4 inch display for car operation panel



General car display (With monitoring)



A 8

Doors are opening.

▲ With monitoring



Display under controlled status



Proceeding to evacuation floor.

A Fire emergency operation

5.7 inch display for car operation panel

General car display





With video



Controlled status



7.0 inch LCD segment



LED Dot matrix



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							
	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							
	Automatic landing during power failure [TOSLANDER]	In the event of power failure, the lift will land at the nearest floor by emergency battery	0						
	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						
	Mechanical door safety	When the mechanical door safety device is touched by a passenger, the door will open	Δ						
	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	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: Over 5 stops and in-car weight less than 150 kg.

 \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	Δ								
	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	Additional car operating panel	\triangle								
Tandadio	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	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 ** Card Access System by others	Δ								
	Speech synthesizer	Announces car operations	Δ								
	Supervisory panel	Located in the building control room, etc. to monitor the status and control of each lift	Δ								

Hook (by general contractor) Dust-proofed (by general contractor)

Hoistway section

Machine room width M.A

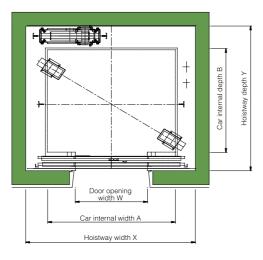
Control panel

Lighting switch inspection receptacle (by general contractor)

(by general contractor)

(by general contractor)

Machine room plan



Hoistway plan (W)

Specifications

Type		Nos.of	Capacity	Speed	Cage s Internal(Door en (mr		C/W	Hoistway	size(m	m)	Machine re		Motor Capacity	Max. Service	Max. Travel
		Person	(kg)	(m/s)	AxB	Height	Width	Height		X×Y	OH	Р	MA×MB	MH	(kW)	Stops(s)	(m)
P8-CO60 P8-CO105	W	8	544	1 1.75	1300×1100	2300	800	2100	Rear	2000 x 1720	4000 4250	1400 1550	2000 x 1720	2100	3.1	40	80 100
P9-CO60	w			1			800			2000 x 1720	4000	1400	2000 x 1720		3.5		90
1 3-0000	٧v			'			900			2200 x 1720	4000	1400	2200 x 1720		3.3		
P9-CO96	w			1.6			800			2000 x 1720	4200	1500	2000 x 1720		5.6		
							900			2200 x 1720			2200 x 1720				100
P9-CO105	w	9	612	1.75	1400×1100	2300	800	2100	Rear	2000 x 1720	4250	1550	2000 x 1720	2100	6.1	40	
							900 800			2200 x 1720 2000 x 1720			2200 x 1720	-		-	
P9-CO120	w			2			900	-		2000 x 1720 2200 x 1720	4350	1650	2000 x 1720 2200 x 1720	-	7.0		
							800	-		2000 x 1720			2000 x 1720	-			125
P9-CO150	W			2.5			900	-		2200 x 1720	4550	2100	2200 x 1720	1	8.7		
							800			2000 x 1970			2000 x 1970				
P11-C060	W			1			900			2200 x 1970	4000	1400	2200 x 1970	†	4.2		90
D.1. 0000	,,,						800	1		2000 x 1970	4000	4500	2000 x 1970				
P11-CO96	W			1.6			900	1		2200 x 1970	4200	1500	2200 x 1970	1	6.7		400
P11-CO105	۱۸/	11	748	1.75	1400×1350	2300	800	2100	Rear	2000 x 1970	4250	1550	2000 x 1970	2100	7.3	40	100
F11-C0105	VV	''	740	1.75	1400^1330	2300	900	2100	Neai	2200 x 1970	4230	1000	2200 x 1970	2100	1.5	"	
P11-CO120	w			2			800			2000 x 1970	4350	1650	2000 x 1970	_	8.4		
00.20							900	-		2200 x 1970			2200 x 1970		10.5		125
P11-CO150	w			2.5			800			2000 x 1970	4550	2100	2000 x 1970				.20
							900			2200 x 1970 2200 x 2020			2200 x 1970			\vdash	
P14-C060	w			1			1000	-		2400 x 2020	4000	1400	2200 x 2020 2400 x 2020	-	5.4		90
P14-C000	VV.			'			1100			2600 x 2020	4000	1400	2600 x 2020	1	3.4		30
							900	-		2200 x 2020			2200 x 2020	-		-	
P14-C096	w			1.6			1000	1		2400 x 2020	4200	1500	2400 x 2020	†	8.7		
							1100			2600 x 2020			2600 x 2020	1			
							900	1		2200 x 2020			2200 x 2020	1			100
P14-CO105	w	14	952	1.75	1600×1400	2300	1000	2100	Rear	2400 x 2020	4250	1550	2400 x 2020	2100	9.5	40	
							1100			2600 x 2020			2600 x 2020				
							900			2200 x 2020			2200 x 2020				
P14-CO120	W			2			1000			2400 x 2020	4350	1650	2400 x 2020		10.9		
							1100			2600 x 2020			2600 x 2020				125
							900	-		2200 x 2020			2200 x 2020	-			
P14-CO150	W			2.5	2.5		1000			2400 x 2020		4550 2100	2400 x 2020	-	13.6		
							1100			2600 x 2020			2600 x 2020				

W: Wide car

Note:

- The above scope complies with IS14665 standard. Please contact us to check for other standard.
- 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 cobles which is not relevant to elevator a
- 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

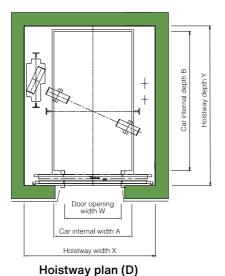
Lighting switch

Inspection receptacle

Machine room door W6000 × H1800

(by general contractor)

Machine room plan



Door opening width W

Car internal width A

Hoistway width X

Hoistway section Hoistway plan (D2)

Specifications

Туре		Nos.of	Capacity	Speed (m/s)	Cage s Internal(ntrance nm)	C/W	Hoistway	/ size(m	m)	Machine r dimensions		Motor Capacity	Max. Service	Max. Travel
1,700		Person	(kg) ´	(m/s)	AxB	Height	Width	Height		X×Y	ОН	Р	MA×MB	MH	Capacity (kW)	Stops(s)	(m)
P8-CO60	D			1							4000	1400					80
P8-CO105	D	8	544	1.75	1100×1300	2300	800	2100	Side	1950 x 1740	4250	1550	1950 x 1740	2100	5.4	40	100
DO 0000	_						800			1940 x 1760	4000	4400	1940 x 1760		0.5		00
P9-CO60	D			1			900	1		2140 x 1760	4000	1400	2140 x 1760		3.5		90
P9-CO96	D			1.6			800			1940 x 1760	4200	1500	1940 x 1760		5.6		
F9-CO90	U			1.0			900			2140 x 1760	4200	1300	2140 x 1760		5.0		400
P9-CO105	D	9	612	1.75	1100×1400	2300	800	2100	Side	1940 x 1760	4250	1550	1940 x 1760	2100	6.1	40	100
	_	"	012		1100*1400	2000	900	2100	Oldo	2140 x 1760			2140 x 1760	2100			
P9-CO120	D			2			800			1940 x 1760	4350	1650	1940 x 1760		7.0		
							900 800	-		2140 x 1760			2140 x 1760 1940 x 1760				125
P9-CO150	D			2.5			900			1940 x 1760 2140 x 1760	4550	2100	2140 x 1760	-	8.7		
							800			1950 x 2060			1950 x 2060				
P11-C060	D						900	1		2140 x 2060	1		2140 x 2060	1		40	
				1			800			1950 x 2170	4000	1400	1950 x 2170		4.2		90
P11-CO60	D2						900	i l		2140 x 2170	1		2140 x 2170			*	
D.// 0000		1					800	1		1950 x 2060			1950 x 2060			40	
P11-CO96	D			1.6			900	1		2140 x 2060	4200	1500	2140 x 2060	1	6.7	40	
P11-CO96	D2			1.6			800			1950 x 2170	4200	1500	1950 x 2170		6.7	*	
P11-C090	DZ						900]		2140 x 2170			2140 x 2170			^	100
P11-CO105	D						800			1950 x 2060			1950 x 2060			40	100
1 11 00100	_	11	748	1.75	1100×1700	2300	900	2100	Side	2140 x 2060	4250	1550	2140 x 2060	2100	7.3		
P11-CO105	D2	''					800			1950 x 2170			1950 x 2170			*	
		ļ		2	-		900	-		2140 x 2170	-		2140 x 2170	ļ			
P11-CO120	D						800 900			1950 x 2060			1950 x 2060		10.5	40	
							800			2140 x 2060 1950 x 2170			2140 x 2060 1950 x 2170				
P11-CO120	D2						900			2140 x 2170			2140 x 2170			*	125
							800			1950 x 2060			1950 x 2060	-			
P11-CO150	D						900			2140 x 2060			2140 x 2060			40	
				2.5			800	1		1950 x 2170			1950 x 2170	1			
P11-CO150	D2						900	1		2140 x 2170			2140 x 2170	İ		*	
D44 COCO	_						800			1950 x 2460			1950 x 2460			40	
P14-CO60	D			1			900]		2140 x 2460	4000	1400	2140 x 2460		5.4	40	90
P14-C060	D2			١.			800			1950 x 2570	4000	1400	1950 x 2570		3.4	*	00
1 14-0000	D2						900			2140 x 2570			2140 x 2570			<i>*</i> `	
P14-CO96	D						800			1950 x 2460			1950 x 2460			40	
				1.6			900			2140 x 2460	4200	1500	2140 x 2460		8.7		
P14-CO96	D2						800 900			1950 x 2570 2140 x 2570	-		1950 x 2570			*	
							800			1950 x 2460			2140 x 2570 1950 x 2460				100
P14-CO105	D						900	-		2140 x 2460	1		2140 x 2460			40	
		14	952	1.75	1100×2100	2300	800	2100	Side	1950 x 2570	4250	1550	1950 x 2570	2100	9.5		
P14-CO105	D2						900			2140 x 2570	1		2140 x 2570	1		*	
					1		800	1		1950 x 2460			1950 x 2460	1		40	
P14-CO120	D						900			2140 x 2460	4050	4050	2140 x 2460		40.0	40	
P14-CO120	D2	1		2			800	1		1950 x 2570	4350	1650	1950 x 2570	1	10.9	*	
P 14-CO 120	DΖ						900	1		2140 x 2570			2140 x 2570			*	405
P14-CO150	D						800]		1950 x 2460			1950 x 2460			40	125
1 1-00100				2.5			900			2140 x 2460	4550	2100	2140 x 2460		13.6	-70	
P14-CO150	D2						800			1950 x 2570		00	1950 x 2570		. 5.0	*	
	-						900			2140 x 2570			2140 x 2570				

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

Note:

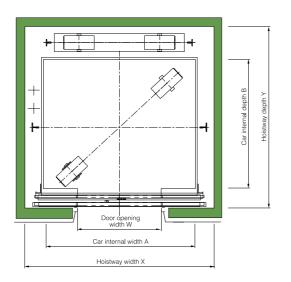
- $\bullet \ \, \text{The above scope complies with IS14665 standard. Please contact us to check for other standard.}$
- Please contact to our local distributor to check for other standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- 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) Hoistway lighting (by general contractor) Pit inspection receptacle (by general contractor) Ladder (by general contractor) Pit waterproofed (by general contractor)

Traction machine Machine room door W600 × H1800 Machine room width M.A

Machine room plan



Hoistway plan

Hoistway section

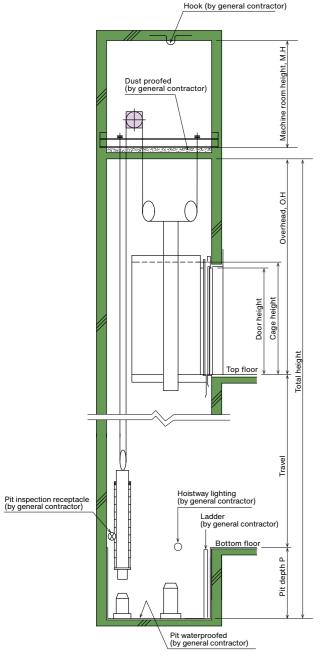
Specifications

Pith	_		Nos.of	Capacity	Sneed	Cage s			entrance		Hoistway	/ size(m	m)	Machine re		Motor	Max.	Max.	
P14-CO180 W	Туре		Person	(kg)	(m/s)			_ `		C/W	X×Y	OH .	P			Capacity (kW)	Service Stops(s)		
Pit-Coole W	B11 00100	,,,		050	_		Ť						2500			40.0	40	450	
PIT-COUGN W	P14-CO180	VV	14	952	3	1600×1400	2300	900	2100	Rear	2150 x 2070	5150	2500	2150 x 2070	2200	10.0	48	150	
P17-CO106 W P18-CO106 W P18-CO	P17-CO60	,,			1			1000			2350 x 2170	4200	1380	2350 x 2170		7.0		90	
P17-CO106 W	117-0000	VV			'			1100			2550 x 2170	4200	1300	2550 x 2170		7.0		90	
P17-CO100 W	P17-C096	w			16				_			4350	1450			12.0			
P17-CO160 W		ļ.,			1.0				1									100	
P17-CO120 W	P17-C0105	w			1.75							4400	1480			12.0	40		
P17-CO120 W P17-CO130 W P18-CO130		⊢	17	1156		1800×1500	2300		2100	Rear					2100		48		
P17-CO150 W P18-CO180	P17-C0120	w			2				-			4500	1900			14.0			
P17-CO150 W U 25 S S S S S S S S S		-	-						1										
P18-C060 W P19-C060 W P19-	P17-CO150	W			2.5				-			4800	2050			18.0		150	
PIR-CO160 W PIB-CO160		\vdash	-			-			1										
PIB-CO60 W PIB-CO105 W	P17-CO180	W			3				1			5150	2500			22.0			
Pi8-Co105 W 18 1224 1.6 1.75 2 2.5 2.5 2.5 3 1100 2100 Rear 2550 x 2070 4400 1480 480 2550 x 2070 4400 1480 480 150	P18-CO60	w			1						2000 X 2110	4200	1380	2000 X 2 11 0		8.0		90	
PIB-CO105 W PIB-CO105		+-	1																
PIB-CO120 W PIB-CO150 W PIB-CO150 W PIB-CO160		_	1		1.75			4400		_		4400	1480			14.0	40	100	
P18-CO180 W P19-CO100 W P19-CO105 W P19-CO105 W P19-CO105 W P19-CO105 W P19-CO105 W P19-CO105 W P19-CO108 W P23-CO105		-	18	1224		2000×1400	2300	1100	2100	Rear	2550 x 2070		_	2550 x 2070	2100	16.0	48		
Pig-Colo W	P18-CO150	W	1		2.5	1						4800	2050			20.0		150	
Pig-Cotos W	P18-C0180	W	1		3]						5150	2500			22.0			
Pig-Colido W	P19-CO60	W			1							4200	1380			8.0		90	
PIS-CO105 W	P19-CO96	W			1.6							4350	1450			12.0		100	
P19-CO150 W	P19-CO105	W	10	1202	1292		2000×1500	2300	1100	2100	Pear	2550 v 2170		_	2550 v 2170	2100		48 -	100
P19-CO180 W P23-CO96 W P23-CO96 W P23-CO105 W		1	19	1232		2000 ~ 1300	2300	1100	2100	rtodi	2550 X 2170			2550 X 2170	2100				
P23-C060 W P23-C096 W P23-C0105 W P23-C0120 W P23-C0120 W P23-C0150 W		-											_					150	
P23-C096 W P23-C096 W P23-C0105 W	P19-CO180	W			3			4400				5150	2500			24.0			
P23-C096 W P23-C0105 W P23-C0105 W P23-C0120 W P23-C0120 W P23-C0120 W P23-C0120 W P23-C0120 W P23-C0150 W	P23-C060	w			1				-			4200	1380			10.0		90	
P23-C0105 W P23-C0105 W P23-C0120		-	-						-		-		_			16.0			
P23-C0105 W P23-C0120 W P23-C0120 W P23-C0150 W P23-C0150 W P23-C0150 W P23-C0180 W P23-C0180 W P25-C0160 W P25-C0160 W P25-C0150 W P25-C0120 W P25-C0160	P23-CO96	W			1.6				-			4350	1450	-	1				
P23-C0120 W P23-C0120 W P23-C0150		\vdash	1						1				1480					100	
P23-C0120 W P23-C0150 W P23-C0180 W P25-C080 W P25-C0120 W P25-C0120 W P25-C0180 W P25-C0180 W P25-C0150 W	P23-C0105	W			1.75				1			4400				16.0			
P23-C0150 W P23-C0150 W P23-C0150 W P23-C0150 W P25-C0160 W P25-C0150 W P25-C0150 W P25-C0150 W P25-C0160 W P25-C0150 W P25-C0160 W P25-C0150			23	1564		2000×1700	2300	1100	2100	Rear					2100		48		
P23-C0150 W P23-C0180 W P25-C080 W P25-C0150 W	P23-CO120	W			2			1200	1			4500	1900			20.0			
P23-CO180 W P25-CO60 W P25-CO105 W P25-CO180 W	D00 00450	١.,	1		2.5			1100	1		2550 x 2370	4000		2550 x 2370		24.0		450	
P23-CO180 W P25-CO60 W P25-CO105 W P25-CO105 W P25-CO180 W P25-CO1	P23-C0150	VV			2.5			1200	1		2750 x 2370	1 4800	2050	2750 x 2370		24.0		150	
P25-C060 W P25-C0105 W P25-C0120 W P25-C0180 W	D23 CO180	۱۸/]		3			1100			2550 x 2370	E1E0	2500	2550 x 2370		20.0			
P25-CO36 W P25-CO105 W P25-CO120 W P25-CO150 W	1 20-00 100	VV						1200			2750 x 2370	3130	2300	2750 x 2370		20.0			
P25CO105 W P25-CO120 W P25-CO150 W		-			<u> </u>													90	
P25-C0120 W P25-C0120 W P25-C0150 W P25-C0150 W P29-C0150		_			-													100	
P25-C0120 W P25-C0150			25	1700		2000×1750	2300	1200	2100	Rear	2750 x 2420			2750 x 2420	2100		48		
P25-CO180 W 3 5150 2500 30.0		-	-									_						450	
P29-C060 W P29-C096 W P29-C0150 W		+	-															150	
P29-C096 W P29-C0105 W P29-C0150 W		-										_						90	
P29-CO105 W P29-CO120 W P29-CO150		+ • •	1			-											}	90	
P29-C0120 W P29-C0150 W 29 1972 2 2100×1950 2300 1200 2100 Rear 2750 x 2620 4500 1900 4800 2050 2750 x 2620 2100 24.0 480 2050		+ • •	1		—	1							_					100	
P29-C0150 W 2.5 4800 2050 30.0 150		-	29	29 1972	172	2100×1950	2300	1200	2100	Rear	2750 x 2620		_	2750 x 2620	2100		48		
		٠	1															150	
	P29-C0180	W	1										2500						

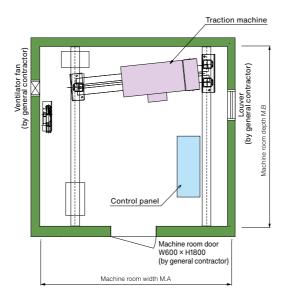
W: Wide car

Note:

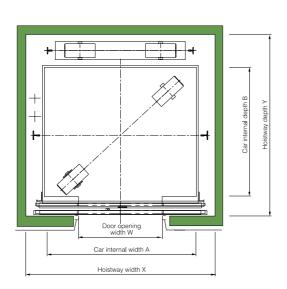
- The above scope complies with IS14665 standard. Please contact us to check for other standard.
- Please contact to our local distributor to check for other standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- Hoistway dimensions 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

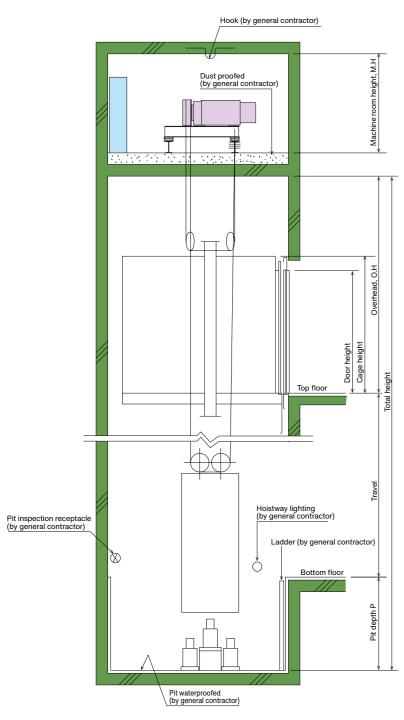
Specifications

		Nos.of Person	Capacity	Speed (m/s)	Cage size Internal(mm)		Door entrance (mm)		C/W	Hoistway size(mm)			Machine room dimensions (mm)		Motor Capacity	Max. Service	Max. Travel
		Person	(kg)		AxB	Height	Width	Height		X×Y	ОН	Р	MA×MB	MH	(kW)	Stops(s)	(m)
P11-CO210	١٨/			2.5			800	2100		1850 x 2100	5950	3250	1850 x 2100	0050	15.5		
F11-C0210	VV	11	748	3.5	1400×1350	2300	900	2100	Rear	2050 x 2100	5950	3 2 50	2050 x 2100	2250	15.5	64	200
D11 CO240	۱۸/		140		1400*1000	2000	800	2100	1	1850 x 2100	0500	3850	1850 x 2100	0050	17.7	04	200
P11-C0240 W		4			900	2100		2050 x 2100	6500	3030	2050 x 2100	2250	17.7				
						2300	900			2050 x 2150			2050 x 2150		19.7		
P14-CO210	w			3.5			1000	2100	l	2250 x 2150	5950	3250	3250 2250 x 2150	2250			
		14	952		1600×1400		1100		Rear	2450 x 2150			2450 x 2150				000
P14-CO240 W	'4	332		100071400	2300	900		INCAI	2050 x 2150			2050 x 2150			64	200	
	w			4			1000	2100		2250 x 2150	6500	3850	2250 x 2150	2250	22.5		
						1100			2450 x 2150			2450 x 2150					

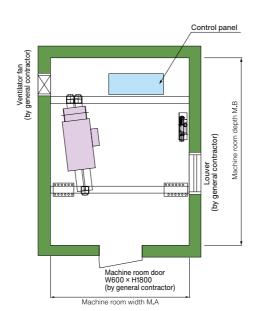
W: Wide car

Note:

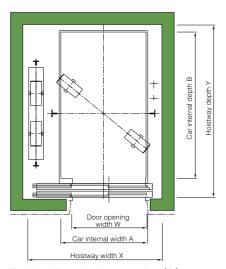
- $\bullet \hbox{ The above scope complies with IS14665 standard. Please contact us to check for other standard. } \\$
- Please contact to our local distributor to check for other standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- 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.



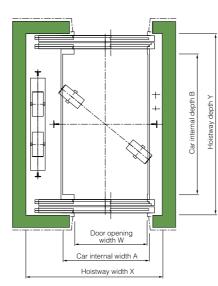
Hoistway section



Machine room plan



Typical floor hoistway plan (D)



Typical floor hoistway plan (D2)

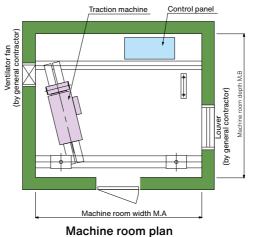
Specifications

Туре		Nos.of	Capacity	Speed	Cage size Internal(mm)		Door entrance (mm)		C/W	Hoistway size(mm)			Machine room dimensions (mm)		Motor Capacity	Max. Service	Max. Travel
		Person	(kg)	(m/s)	AxB	Height	Width	Height		X×Y	ОН	Р	MA×MB	MH	(kW)	Stops(s)	(m)
P14-CO180	w	14	952	3	1600×1400	2300	800 900	2100	Side	2450 x 1850 2450 x 1850	5150	2500	2450 x 1850 2450 x 1850	2200	18.0	48	150
P17-CO60	w			1			1000 1100			2650 x 1890 2650 x 1890	4200	1380	2650 x 1890 2650 x 1890		7.0		90
P17-CO96	w			1.6			1000			2650 x 1890 2650 x 1890	4350	1450	2650 x 1890 2650 x 1890		12.0		
P17-CO105	w	17	1156	1.75	1800×1500	2300	1000	2100	Side	2650 x 1890	4400	1480	2650 x 1890 2650 x 1890 2650 x 1890 2650 x 1890	12.0	48	100	
P17-CO120	w			2			1100 1000			2650 x 1890 2650 x 1890	4500	1900		14.0	40		
P17-CO150	w			2.5			1100 1000			2650 x 1890 2650 x 1890	4800		2650 x 1890 2650 x 1890	-	18.0		150
							1100 1000			2650 x 1890 2650 x 1890			2650 x 1890 2650 x 1890				
P17-CO180 P18-2S60	W			3 1			1100			2650 x 1890	5150 4200	2500 1380	2650 x 1890		22.0 8.0		90
P18-2S96	D			1.6							4350	1450			12.0		100
P18-2S105 P18-2S120	D D	18	1224	1.75	- 1200×2300	2300	1100	2100	Side	2110 x 2760	4400 4500	1480 1900	2110 x 2760	2200	14.0 16.0	48	
P18-2S150 P18-2S180	D D			2.5							4800 5150	2050 2500			20.0		150
P17-2S60 P17-2S96	D2 D2		1156	1.6	- 1200×2200	2300	1100	2100	Side		4200 4350	1380 1450	2110 x 2870 2200	7.0 12.0			
P17-2S105 P17-2S120	D2 D2	17		1.75						2110 x 2870	4400 4500	1480 1900		2200	12.0 14.0	*	150
P17-2S150	D2			2.5							4800	2050			18.0		
P17-2S180 P22-2S60	D2 D			3 1							5150 4200	2500 1380			9.0		90
P22-2S96 P22-2S105	D D	22	1406	1.6 1.75	- 1400×2400	2300	1200	2100	Side	4400	4350 4400	1450 1480	- 2280 x 2860 2200 -	14.0 16.0	- - 48 -	100	
P22-2S120 P22-2S150	D D		1496	2.5						2280 x 2860	4500 4800	1900 2050		18.0 22.0		150	
P22-2S180	D			3							5150	2500			26.0	1	100
P21-2S60 P21-2S96	D2 D2		1428	1.6	- 1400×2300 2	2300	1200	2100	Side		4200 4350	1380 1450		2200	9.0	- - - **	150
P21-2S105 P21-2S120	D2 D2	21		1.75						2280 x 2970	4400 4500	1480 1900	2280 x 2970		16.0 18.0		
P21-2S150 P21-2S180	D2 D2			2.5							4800 5150	2050 2500			22.0 26.0		

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

Note:

- The above scope complies with IS14665 standard. Please contact us to check for other standard.
- 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.



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

Toshiba elevator's network in India

and Globally

Head office / Manufacturing base

Head office

Branch office

H TOSHIBA JOHNSON ELEVATORS (INDIA) PVT. LTD. Head Office (MUMBAI)

602, 6th Floor, C&B Square, Sangan Complex, 127, Andheri Kurla Road, Andheri (East), Mumbai 400 059, India



BANGALORE No. 413, 5th Main Road, ARKA, 2nd Floor, OMBR Layout, Banaswadi, Bengaluru 560033

3 NEW DELHI Unit No. 234, 2nd Floor, DLF Prime Tower, Okhla Industrial Area, Phase-I, New Delhi 110020

GURGAON 4th Floor, Building no.10, Tower B, Phase-II, DLF Cyber city, Gurgaon-122002, Haryana.

CHENNAI

Door No.28, Lawyer Jaganathan Street, AMG Towers, 2nd Floor, Alandur, Chennai 600016

KOLKATA

Unit No. 1203, 12th Floor, DN 36, Primarc Tower, Salt Lake City, Sector V, Kolkata 700 091

HYDERABAD

No. 6-16/3A, Dee Nagar, Chintal, Ranga Reddy District, Telangana 500054

S.No. 309/2A+1BMP/Final Plot No. 82, Phase II & III, 1st Floor, Office No. 19, Sangamwadi D. P. Scheme, Valsali Road, Sangam Bridge, Pune 411 001.

9 COCHIN

39/6501, Chiramel Chambers, Kurisupally Road, Ravipuram, Cochin - 682015

AHMEDABAD

Block A, TF 4, Anand Complex, Sarkhej - Gandhi Nagar Highway, Ahmedabad - 9

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

TOSHIBA ELEVATOR PRODUCTS CORPORATION

Head Office: 1000, Hamada, Amiboshi Ward, Himeji City, Hyogo Prefecture

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.

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

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,

M S ELEVATORS Sdn. Bhd.

Head Office: 8th Floor, Wisma Penang Garden, 42 Jalan Sultan Ahmad Shah, 10050 Penang, Malaysia. Factory: 2530, Lorong Perusahaan 10, Prai Industrial Estate,

13600 Prai, Province, Wellesley, Malaysia.

M S ELEVATORS ENGINEERING Sdn. Bhd.

Head Office: 8th Floor, Wisma Penang Garden, 42 Jalan Sultan Ahmad Shah, 10050 Penang, Malaysia.

KL Office: Wisma MS, No.15, Jalan 2/116 D,

Kuchai Entrepreneurs' Park, Off Jalan Kuchai Lama, 58200 Kuala Lumpur, Malaysia.

TOSHIBA JOHNSON ELEVATORS (INDIA) PVT. LTD.

Head Office: 602, 6th Floor, C&B Square, Sangan Complex 127, Andheri Kurla Road. Andheri (East), Mumbai,

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

