



**MITSUBISHI
ELECTRIC**

OBSERVATION ELEVATORS

Changes for the Better

Quality
in Motion

ENJOY THE VIEW

Adding Drama and Fun to the Elevator Ride

Observation elevators make traveling between floors within a building a dramatic and exciting experience. Mitsubishi Electric's latest line-up of observation elevators builds on its most popular designs, and expands the view by adding even more window space. In addition, customers can mix and match components to create the ideal elevator for a particular building or purpose, whether it is hotel, mall or office, indoor or outdoor. A range of popular standard elevator types are also available, offering cost performance and proven quality. Any of the new models, component-type or standard, will add an exciting new dimension to elevator travel, with light, space and visible motion.

C o n t e n t s

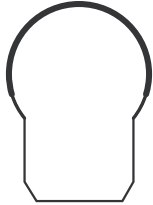
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A Futuristic Capsule

INDOOR OPEN TYPE
INDOOR/OUTDOOR ENCLOSED TYPE*

KY01 Round

CAR SECTION



EXTERIOR

- Windows: Transparent curved glass (option: lightly tinted glass)
- Upper and lower shells: Fiber-reinforced plastic with painted finish
- Mullions: None
- Decorative lighting: Globular, milky-white acrylic plate illuminated from inside, at shell top and bottom.

INTERIOR

- Ceiling: Painted steel sheet
- Lighting: Fluorescent lighting through circular, milky-white acrylic plate, and down lights.
- Front wall and doors: Painted steel sheet (options: hairline-finished stainless steel sheet or pattern printed steel sheet)
- Handrail: Single line of hairline-finished stainless steel pipe
- Mullions: Hairline-finished stainless steel sheet
- Kick-plate: Hairline-finished stainless steel sheet
- Flooring: Vinyl tiles (options: carpet by customer)

Car outline shows cage and window only. Other features have been omitted for clarity.

* For Enclosed Type, it's needed to provide the carry-in entrance for outer panel at the shaft wall of observation side because it's unable to carry in the outer panel from hall side.

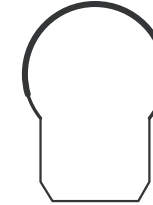


A Bold Spaceship

INDOOR OPEN TYPE
INDOOR/OUTDOOR ENCLOSED TYPE*

KY02 Round

CAR SECTION



EXTERIOR

- Windows: Transparent curved glass (option: lightly tinted glass)
- Upper and lower shells: Fiber-reinforced plastic with painted finish
- Mullions: None
- Decorative lighting: Three rings of milky-white acrylic plate illuminated from inside around upper and lower shells
- Shell top and bottom lighting: Circular, milky-white acrylic plate illuminated from inside

INTERIOR

- Ceiling: Painted steel sheet
- Lighting: Fluorescent lighting through circular, milky-white acrylic plate, and down lights.
- Front wall and doors: Painted steel sheet (options: hairline-finished stainless steel sheet or pattern printed steel sheet)
- Handrail: Single line of hairline-finished stainless steel pipe
- Mullions: Hairline-finished stainless steel sheet
- Kick-plate: Hairline-finished stainless steel sheet
- Flooring: Vinyl tiles (options: carpet by customer)

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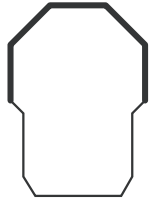


An Airy Glass Cabin

INDOOR OPEN TYPE
INDOOR/OUTDOOR ENCLOSED TYPE

KY03 Octagonal

CAR SECTION



EXTERIOR

- Windows: Transparent flat glass (option: lightly tinted glass)
- Upper and lower shells: Painted steel sheet
- Mullions: None
- Decorative lighting: Down lights at shell bottom

INTERIOR

- Ceiling: Painted steel sheet
- Lighting: Down lights.
- Front wall and doors: Painted steel sheet (options: hairline-finished stainless steel sheet or pattern printed steel sheet)
- Handrail: Single line of hairline-finished stainless steel pipe
- Mullions: Hairline-finished stainless steel sheet
- Kick-plate: Hairline-finished stainless steel sheet
- Flooring: Vinyl tiles (options: carpet by customer)

Car outline shows cage and window only. Other features have been omitted for clarity.

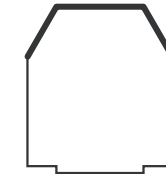


A Modern Angular Design

INDOOR OPEN TYPE
INDOOR/OUTDOOR ENCLOSED TYPE

CY04 Clipped Corner

CAR SECTION



EXTERIOR

- Windows: Transparent flat glass (option: lightly tinted glass)
- Upper and lower shells: Painted steel sheet
- Mullions: None
- Decorative lighting: Down lights

INTERIOR

- Ceiling: Painted steel sheet
- Lighting: Down lights.
- Front wall and doors: Painted steel sheet (options: hairline-finished stainless steel sheet or pattern printed steel sheet)
- Handrail: Single line of hairline-finished stainless steel pipe
- Mullions: Hairline-finished stainless steel sheet
- Kick-plate: Hairline-finished stainless steel sheet
- Flooring: Vinyl tiles (options: carpet by customer)

Car outline shows cage and window only. Other features have been omitted for clarity.

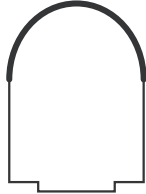


COMPONENT TYPE
A Cylindrical Pod

INDOOR OPEN TYPE
INDOOR/OUTDOOR ENCLOSED TYPE

HY05 Horseshoe

CAR SECTION



EXTERIOR

- Windows: Transparent curved glass (option: lightly tinted glass)
- Upper and lower shells: Painted steel sheet
- Mullions: None
- Decorative lighting: Down lights

INTERIOR

- Ceiling: Painted steel sheet
- Lighting: Fluorescent lighting through circular, milky-white acrylic plate, and down lights.
- Front wall and doors: Painted steel sheet (options: hairline-finished stainless steel sheet or pattern printed steel sheet)
- Handrail: Single line of hairline-finished stainless steel pipe
- Mullions: Hairline-finished stainless steel sheet
- Kick-plate: Hairline-finished stainless steel sheet
- Flooring: Vinyl tiles (options: carpet by customer)

Car outline shows cage and window only. Other features have been omitted for clarity.

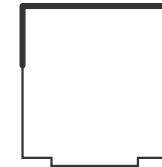


COMPONENT TYPE
A Stark Square Box

INDOOR OPEN TYPE
INDOOR/OUTDOOR ENCLOSED TYPE

SY06 Square

CAR SECTION



EXTERIOR

- Windows: Transparent flat glass (option: lightly tinted glass)
- Lower shell: Painted steel sheet
- Mullions: None
- Decorative lighting: None

INTERIOR

- Ceiling: Painted steel sheet and glass
- Lighting: Down lights.
- Front wall and doors: Painted steel sheet (options: hairline-finished stainless steel sheet or pattern printed steel sheet)
- Handrail: Single line of hairline-finished stainless steel pipe
- Mullions: None
- Kick-plate: Hairline-finished stainless steel sheet
- Flooring: Vinyl tiles (options: carpet by customer)

Car outline shows cage and window only. Other features have been omitted for clarity.



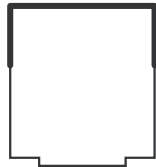
COMPONENT TYPE

A Bright, Airy Box

INDOOR OPEN TYPE
INDOOR/OUTDOOR ENCLOSED TYPE

SY07 Square

CAR SECTION



EXTERIOR

- Windows: Transparent flat glass (option: lightly tinted glass)
- Upper and lower shells: Painted steel sheet
- Mullions: None
- Decorative lighting: Down lights

INTERIOR

- Ceiling: Painted steel sheet
- Lighting: Down lights
- Front wall and doors: Painted steel sheet (options: hairline-finished stainless steel sheet or pattern printed steel sheet)
- Handrail: Single line of hairline-finished stainless steel pipe
- Mullions: Hairline-finished stainless steel sheet
- Kick-plate: Hairline-finished stainless steel sheet
- Flooring: Vinyl tiles (options: carpet by customer)

Car outline shows cage and window only. Other features have been omitted for clarity.



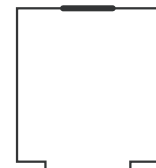
COMPONENT TYPE

A Sleek, Narrow Window Design

OUTDOOR ENCLOSED TYPE

SY08 Square

CAR SECTION



EXTERIOR

- Windows: 500mm width transparent flat glass (option: lightly tinted glass)
- Upper and lower shells: None
- Window frames: Anodized aluminum finish
- Decorative lighting: None

INTERIOR

- Ceiling: Painted steel sheet
- Lighting: Fluorescent lighting through milky-white acrylic cover (basic design)
- Front wall and doors: Painted steel sheet (options: hairline-finished stainless steel sheet or pattern printed steel sheet)
- Handrail: Single line of hairline-finished stainless steel pipe
- Kick-plate: Hairline-finished stainless steel sheet
- Flooring: Vinyl tiles (options: carpet by customer)

OUTSIDE VIEW



Car outline shows cage and window only. Other features have been omitted for clarity.

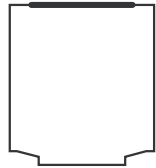
STANDARD TYPE

A Simple, No-Frills Design

INDOOR/OUTDOOR ENCLOSED TYPE

NY20 Square

CAR SECTION



EXTERIOR

- Windows: Transparent flat glass (option: lightly tinted glass)
- Upper and lower shells: Painted steel sheet
- Window frames: Anodized aluminum finish
- Decorative lighting: None (available as an option)

INTERIOR

- Ceiling: Painted steel sheet
- Lighting: Fluorescent lighting through milky-white acrylic cover (basic design)
- Front wall and doors: Pattern printed steel sheet (options: hairline-finished stainless steel sheet)
- Handrail: Single line of hairline-finished stainless steel pipe
- Kick-plate: Vinyl resin
- Flooring: Vinyl tiles (options: carpet by customer)

Car outline shows cage and window only. Other features have been omitted for clarity.



STANDARD TYPE

Square Box

INDOOR/OUTDOOR ENCLOSED TYPE

NY21 Square

CAR SECTION



EXTERIOR

- Windows: Transparent flat glass (option: lightly tinted glass)
- Upper and lower shells: Painted steel sheet
- Mullions: Painted steel sheet
- Decorative lighting: None (available as an option)

INTERIOR

- Ceiling: Painted steel sheet
- Lighting: Fluorescent lighting through milky-white acrylic cover (basic design)
- Front wall and doors: Pattern printed steel sheet (options: hairline-finished stainless steel sheet)
- Handrail: Single line of hairline-finished stainless steel pipe
- Mullions: Hairline-finished stainless steel sheet
- Kick-plate: Vinyl resin
- Flooring: Vinyl tiles (options: carpet by customer)

Car outline shows cage and window only. Other features have been omitted for clarity.



Actual Installation Examples

UAE, Dubai | Emirates Tower



The imposing exterior



Four observation elevators serve the tower



Natural light floods into the lobby

Taiwan, Taipei | The Ambassador Hotel Hsinchu



The grand exterior



Elevators serve the 11-story hotel



The elevator lobby

UAE, Abu Dhabi | Abu Dhabi Trade Centre



Observation elevators and escalators serve the shopping mall



The modern entrance



Two observation elevators take customers to the various floors of the mall

Taiwan | Core Pacific City



The exterior of Core Pacific City attracts the gaze of people



The elevator harmonizes with the unique interior



Shuttlecock-like design

Actual Installation Examples

Egypt | Meridien Galleria



The exterior of Meridien Galleria



Bold-spaceship design is viewable from every floor

Singapore | Singapore Post Centre



The central Singapore post office



Observation elevators serve the center



The elevator lobby

China, Shanghai | Jin Jiang Tower



The modern exterior



External observation elevators serve the 43-story tower



The elevators offer a stunning view of the city

China, Hong Kong | New International Airport



Transparent elevator cores complement the modern architecture



Cool glass and steel interiors



The modern lobby shows the elevator machinery

Actual Installation Examples

Argentina, Buenos Aires | Hilton Buenos Aires



The exterior of the Hilton Hotel



Four observation elevators serve the open-air atrium



The elevators are also windows on the lobby

Japan, Osaka | Kansai International Airport



Observation elevators allow great views of Renzo Piano's architecture



Elevator entrance

Japan, Tokyo | Sumida Riverside Hall



Escalators link different parts of the municipal complex



The exterior of the multifunction cultural facility



The observation elevators are double-deck

Japan, Kanagawa | Queens Square Yokohama



The exterior of the huge shopping mall



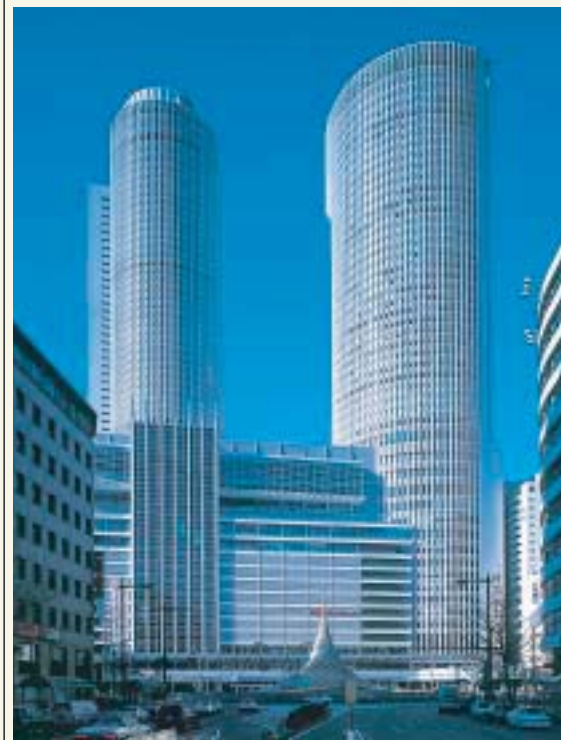
Elevator lobby



Elevators and escalators serve the mall

Actual Installation Examples

Japan, Aichi | JR Central Towers Nagoya



Twin office and hotel towers soar over Nagoya city



Elevator lobby



Enterance to the observation elevators

Japan, Osaka | Osaka Maritime Museum



The museum is in a spectacular 70m-diameter glazed dome



Observation elevators serve the 2-story museum



Elevator entrance

Japan, Toyama | Sunship Toyama



The exterior of the Toyama municipal building

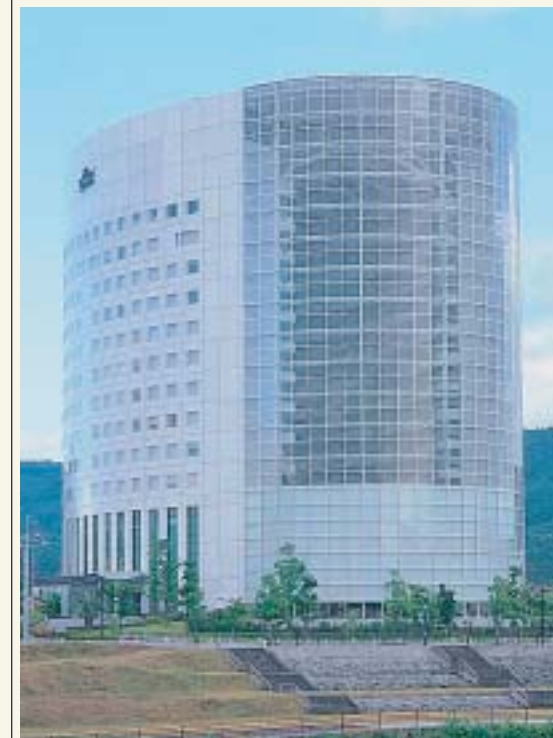


Observation elevators in the airy interior



Elevator entrance

Japan, Kagoshima | Hotel Kyocera



The impressive exterior of the 60m-tall hotel



The unique entrance hall



The circular observation elevator

Installation List

Overseas

CUSTOMER	CAR SPEED (m/min)	CAPACITY (kg)	NBR. OF CARS	COUNTRY/ AREA
Hotel Lotte Shinkan	120	1,800	3	Korea
Hotel Lotte World	45 / 210	1,350 / 1,350	2 / 1	Korea
Regency Hotel	90	750	4	Taiwan
The Ambassador Hotel Hsinchu	105	1,150	3	Taiwan
Core Pacific City	105	1,600	1	Taiwan
Hua Ting Hotel	105	1,600	2	China
Asia Hotel	120	1,150	1	China
Jing Jiang Tower	105	1,600	2	China
Shanghai Jin Mao Building	105	1,600	2	China
Marina Mandarin Hotel	150	1,565	4	Singapore
Oriental Hotel	150	1,565	6	Singapore
Pan Pacific Hotel	150 / 210	1,565 / 1,565	4 / 4	Singapore
Hotel Meridien	90	1,360	4	Singapore
Singapore Post Centre	90	1,115	4	Singapore
Wilayah Shopping Complex	60	1,000	1	Malaysia
Securities Commission	90	1,155	4	Malaysia
Central City Bangna	90	1,150	8	Thailand
Jewelry Trade Center	60	1,150	2	Thailand
First Makkah Residential and Commercial Complex	60 / 180	1,350 / 1,350	6 / 4	Saudi Arabia
Al-Mahmal Commercial Center and Tower	90	1,400	2	Saudi Arabia
Doha Sheraton Hotel	150	1,350	5	Qatar
Emerald Shapery Center	105 / 150	1,600 / 1,600	2 / 2	USA
Hotel Royal Zona Rosa	105	1,050	2	Mexico
Centro Asturiano	60	1,400	4	Mexico
Hotel Cosmos 100	90	900	1	Colombia
New International Airport	60	2,700	6	Hong Kong
88 Wood Street	150	1,250	6	England
Emirates Tower	240	1,400	4	UAE
Burj Al Arab	300	2,000	2	UAE
Dubai International Airport	60	1,135	4	UAE
Abu Dhabi Trade Centre	45 / 105	1,600	2 / 2	UAE
Tat Tower	105	1,000/1,350	4	Turkey
Meridien Galleria	60	1,350	1	Egypt

Japan

CUSTOMER	CAR SPEED (m/min)	CAPACITY (kg)	NBR. OF CARS	AREA
Aquamarine Fukushima	90	1,600	1	Iwaki
Meguro Gajoen	60	1,600	1	Tokyo
Century Tower	90 / 150 / 300	600 / 850 / 850	2 / 6 / 6	Tokyo
Sumida Riverside Hall	180	1,600 x 2	3	Tokyo
Yokohama Grand Intercontinental Hotel	150	1,500	2	Yokohama
Queens Square Yokohama	60	1,000	2	Yokohama
Hotel New Otani Makuhari	240	1,350	1	Chiba
Hakuba Cortina Resort Villa	90	1,000	2	Nagano
Obu City Public Office Building	90	1,150	2	Obu
Sunship Toyama	60	1,350	2	Toyama
Kagaya-Setsugekka	105	750	3	Ishikawa
Aichi Arts Center	150	1,600	3	Nagoya
Higashiyama Sky Tower	90	1,200	2	Nagoya
JR Central Towers	210	2,600	6	Nagoya
Asia Pacific Trade Center	105	1,600	3	Osaka
Big Step	105	1,350	3	Osaka
Hep Five	120	1,650	2	Osaka
Osaka Maritime Museum	60 / 45	1,800 / 1,300	3 / 3	Osaka
Kansai International Airport	45	1,800	10	Osaka
Hotel Kyocera	105	1,300	3	Kagoshima

Points to Consider when Planning Installation

- Prices and delivery schedules vary greatly depending on such factors as design, materials, finish, car shape and installation conditions.
 - Adequate space should be allowed for the elevator hoistway (inner dimensions, pit depth, overhead, etc.) so that no restrictions are placed on car shape or exterior trim design.
 - If air conditioning equipment is installed on the car, it is requested that drainage facilities be placed in the pit.
 - It is requested that for the outdoor enclosed model sufficient ventilation and air conditioning be provided so that the machinery installed in the elevator hoistway and machine room is not exposed to high temperatures as a result of direct sunlight. In addition, please consider the use of thermal insulation glass on the building side as required. (Customer is responsible for construction in each case.)
- In cold regions, measures should be taken to protect machinery against low temperatures and condensation. Measures include the use of thermal insulation glass on the building side and

- warm-air blowers for the elevator hoistway. (Customer is responsible for construction.)
- Mitsubishi Electric has also supplied many outdoor open observation elevators.
 - Please note that there are restrictions as to the shape, materials and design of outdoor models because special measures such as waterproofing and rustproofing are required.
 - Elevator operations will be interrupted during high winds for reasons of safety. Therefore, it is requested that a wind gauge and a dome for evacuation be installed. (Customer is responsible for construction.)
 - It is requested that the installation of this model elevator be avoided in cold regions because such accidents as cable slippage due to machinery icing are possible.

* It is requested that Mitsubishi Electric specialists, through its affiliated companies, be consulted during the early stages of planning in regard to the aforementioned items and any other matters considered necessary.