Our elevators and escalators are currently operating in approximately 90 countries around the globe. Built placing priority on safety, our elevators, escalators and building system products are renowned for their excellent efficiency, energy savings and comfort. The technologies and skills cultivated at the Inazawa Building Systems Works in Japan and 12 global manufacturing factories are utilized in a worldwide network that provides sales, installation and maintenance in support of maintaining and improving product quality.

As a means of contributing to the realization of a sustainable society, we consciously consider the environment in business operations, proactively work to realize a low-carbon, recycling-based society, and promote the preservation of biodiversity.

Mitsubishi Electric Building Solutions Corporation Inazawa Building Systems Works has acquired ISO 9001 certification from the International Organization for Standardization based on a review of quality management. The plant has also acquired environmental management system standard ISO 14001 certification.
Utilizing its technological prowess and extensive experience, we have remained a leader in the vertical transportation market since entering the business in 1931. The Company’s creative, innovative spirit, represented by production of the world’s first spiral escalator and elevator group-control systems that use artificial-intelligence technologies, continues to receive high evaluations industry-wide. Our products and systems are renowned for their high levels of quality, reliability and safety; and it is this sense of security and trust fostered with building owners and end-users alike that has led to the global expansion of our elevator/escalator business and the after-sales network to service it.

We understand responsibilities as a good corporate citizen, and continue to implement measures for protecting the environment and ensuring a sustainable society for future generations. A number of original technologies are being introduced to ensure more efficient products, systems and manufacturing operations, thereby enhancing productivity, reducing energy consumption and providing smoother, faster and more comfortable vertical transportation systems.
Our high-speed elevators are designed to keep pace with the vertical growth of cities as buildings soar to ever greater heights. Our premium elevators guarantee high levels of passenger safety and comfort, and can be customized for diverse applications including office buildings, hotels and shopping centers. We can tailor specifications to meet your exact needs and add a distinctive touch that sets your building apart from the rest.
Based on our policy, "Quality in Motion", we provide elevators and escalators that will satisfy our customers with high levels of comfort, efficiency, ecology and safety.

Principle

Our elevators, escalators and building management systems are always evolving, helping achieve our goal of being the No.1 brand in quality. In order to satisfy customers in all aspects of comfort, efficiency and safety while realizing a sustainable society, quality must be of the highest level in all products and business activities, while priority is place on consideration for the environment. As the times change, we promise to utilize the collective strengths of its advanced and environmental technologies to offer its customers safe and reliable products while contributing to society.

We strive to be green in all of our business activities.

We take every action to reduce environmental burden during each process of our elevators' and escalators' lifecycle.

* Quality in Motion is a trademark of Mitsubishi Electric Corporation.
The amount of lateral vibration generated by high-speed elevator cars can be tremendous. As a world’s first innovation in the industry, our Active Roller Guide technology reduces this vibration by approximately 50%.

It works via an accelerometer that detects car vibration during operation, along with actuators that cancel the vibration through a controlled electromagnetic force. Our Active Roller Guides ensure a more comfortable ride than elevators employing conventional roller guides.

Our new sfleX-rope® is comprised of bundles of high-intensity steel wire strands, each covered with plastic, offering higher intensity than conventional rope for safe operation despite the greater weight of longer ropes. Each wire has a higher density and wider cross-sectional area than conventional rope, which helps to reduce rope stretching caused when passengers step into the elevator.

The sfleX-rope® is a registered trademark of Mitsubishi Electric Corporation.

**Speed**

*Traction Machine with PM Motor*

(PM motor: permanent magnet motor)

The joint-lapped core built into the PM motor of the traction machine features flexible joints. The iron core acts like a hinge, which allows coils to be wound around the core more densely, resulting in improved motor efficiency and compactness. A high-density magnetic field is produced, enabling lower use of energy and resources and reduced CO₂ emissions.

*Super High-rise Rope Mechanics*

Our new sfleX-rope® is comprised of bundles of high-intensity steel wire strands, each covered with plastic, offering higher intensity than conventional rope for safe operation despite the greater weight of longer ropes. Each wire has a higher density and wider cross-sectional area than conventional rope, which helps to reduce rope stretching caused when passengers step into the elevator.

The sfleX-rope® is a registered trademark of Mitsubishi Electric Corporation.

**Comfort**

*Active Roller Guide (Optional)*

The amount of lateral vibration generated by high-speed elevator cars can be tremendous. As a world’s first innovation in the industry, our Active Roller Guide technology reduces this vibration by approximately 50%.

It works via an accelerometer that detects car vibration during operation, along with actuators that cancel the vibration through a controlled electromagnetic force. Our Active Roller Guides ensure a more comfortable ride than elevators employing conventional roller guides.

*Please consult our local agents for details.*
Devices that Use Less Energy

LED Lighting (Optional)

Used for ceiling lights and hall lanterns, LEDs boost the overall energy performance of the building. Furthermore, a long service life eliminates the need for frequent lamp replacement. For LED lighting, the service life can be approximately 12.5 times longer and power consumption can be reduced by approximately 75%.

Maximizing Operational Efficiency and Minimizing Energy Consumption

Energy-saving Operation — Allocation Control: ESO-W (ZAI-2200C only)

This system selects the elevator in a group that best balances operational efficiency and energy consumption. Priority is given to operational efficiency during peak hours and energy efficiency during non-peak hours. Through a maximum 10% reduction in energy consumption compared to our conventional system, this system allows building owners to cut energy costs without sacrificing passenger convenience.

Milestones of Energy-saving Technologies in Elevator Development

<table>
<thead>
<tr>
<th>Year</th>
<th>Motor</th>
<th>Traction Machine</th>
<th>Motor Drive</th>
<th>Control Circuit</th>
<th>Power Consumption / CO2 Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1970</td>
<td>DC motor</td>
<td>Gearless</td>
<td>Ward Leonard system</td>
<td>Relay</td>
<td>100%</td>
</tr>
<tr>
<td>1980</td>
<td>Induction motor</td>
<td>Gearless</td>
<td>Thyristor control</td>
<td>Microcomputer</td>
<td>95%</td>
</tr>
<tr>
<td>1990</td>
<td>Permanent magnet motor</td>
<td>Gearless</td>
<td>VVF* control</td>
<td></td>
<td>72%</td>
</tr>
<tr>
<td>2000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>62%</td>
</tr>
<tr>
<td>2010</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>57%</td>
</tr>
</tbody>
</table>

*1: Variable Voltage, Variable frequency
*2: CO2 emissions in this table are from elevator operation and do not include emissions from manufacturing, transportation and other processes.
Destination Oriented Allocation System: DOAS (Optional for ΣAI-2200C)

Allocating Passengers to Cars Depending on Destination Floors
When a passenger enters a destination floor at a hall, the hall operating panel immediately indicates which car will serve the floor. Because the destination floor is already registered, the passenger does not need to press a button in the car. Furthermore, dispersing passengers by destination prevents congestion in cars and minimizes waiting and traveling time. (Car destination floor indicator can be installed on the car operating panel as an option to display which floors the car stops at.)

Example of hall arrangement

Advantages of DOAS at Hall

Without DOAS
Passengers wait for cars wondering which car will arrive first. Once a car arrives, regardless of the destination, passengers rush to get into the car.

With DOAS
When passengers enter a destination floor at a hall, the hall operating panel indicates which elevator to take. As passengers proceed to the assigned elevator, the car is on its way and there is no hurry when the car arrives.

Performance
Average waiting time

Long wait rate (60 seconds or longer)

Forecasts a near-future hall call to reduce long waits
When a hall call is registered, the algorithm predicts near-future calls that could require long waits. Through evaluation of the registered hall call and the forecasted call, the best car is assigned. All cars work cooperatively for optimum operation.

Cooperative Optimization Assignment (ΣAI-2200C)

Group Control Systems: ΣAI-22 and ΣAI-2200C
ΣAI-22 and ΣAI-2200C control multiple elevators optimally according to the building size.

Forecasts a near-future hall call to reduce long waits
When a hall call is registered, the algorithm predicts near-future calls that could require long waits. Through evaluation of the registered hall call and the forecasted call, the best car is assigned. All cars work cooperatively for optimum operation.

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Advantages of DOAS at Hall

Without DOAS
Passengers wait for cars wondering which car will arrive first. Once a car arrives, regardless of the destination, passengers rush to get into the car.

With DOAS
When passengers enter a destination floor at a hall, the hall operating panel indicates which elevator to take. As passengers proceed to the assigned elevator, the car is on its way and there is no hurry when the car arrives.
Elevator Monitoring and Control System: MelEye (Optional)

MelEye closely observes the operational status of elevators that handle continually changing passenger traffic. This allows building managers to rapidly respond to changing traffic patterns, thus optimizing the performance of elevators and maximizing the added value of the whole building. The application of the latest network technology has also greatly increased the number of controllable elevators, which minimizes the cost spent on facilities such as supervisory rooms and monitors.

MelEye is our solution to futuristic building traffic monitoring systems.

**LCD Information Display**

(10.4- or 15-inch)
The cutting-edge LCD display delivers elevator information with stereoscopic direction arrows and animated pictures, and entertains the passengers with DVD playback/television. The display installed in a car can also run a slideshow of still images.

Example display of partial-screen animated picture

**Colors**

Select the best color from our five popular and eye-catching background colors.

- Urban Black
- Stylistic Blue
- Fine Green
- Modern White
- Elegance Brown

**Language**

Standard elevator information, and date and time are available in English (US, UK or Singapore), Chinese, French, Japanese, Portuguese or Spanish.

- English (US, UK or Singapore)
- Chinese
- French
- Japanese
- Portuguese
- Spanish

Note:

* Please consult our local agents for the details of the LCD information display, such as the production terms and supported file formats.

**Monitoring screens**

MelEye’s user-friendly screen shows the detailed operational status of the elevators in real-time.

**Statistical information**

The past fault logs of the elevators and escalators are recorded in addition to the operation logs of the computer.

**Remote control**

A computer allows remote control of special and emergency operations.

**Scheduling of special operations**

Please refer to the MelEye brochure for details.
Car Design Example

Ceiling (Customized-1) — Panel: Painted steel sheet [Y033: White]
  Lighting: Central indirect lighting and downlights

Walls ——— Colored (bronze) SUS-HE
Transom panel ——— SUS-M
Doors ——— Colored (bronze) SUS-HE
Front return panels ——— SUS-M
Kickplate ——— SUS-HL
Flooring ——— Marble (supplied by customer)
Car operating panel ——— CBV3-D750 (faceplate: SUS-M)
Handrails ——— YH-59M
Mirrors ——— YZ-55SN

Distinctive design using vaulted lighting and marble floor finish

Customized -1

Car Design Example

Ceiling (Customized-2) — Panel: Painted steel sheet [Y033: White]
  Lighting: Central indirect lighting and downlights

Walls ——— Painted steel sheet
Transom panel ——— Painted steel sheet
Doors ——— Painted steel sheet
Front return panels ——— SUS-HL
Kickplate ——— SUS-HL
Flooring ——— Marble (supplied by customer)
Car operating panel ——— CBN4-C710
Handrails ——— YH-59M
Mirror ——— YZ-52A

Indirect center lighting and downlights create a relaxing atmosphere

Actual colors may differ slightly from those shown.
Please refer to page 20 for the explanations of SUS-HL, colored SUS-HE and SUS-M.
Car Design Example

L210 | Sophisticated atmosphere created by downlights and shadows

- Ceiling (L210)
  - Panel: Painted steel sheet [Y033: White]
  - Lighting: Downlights (LEDs)
- Walls
  - Pattern-printed steel sheet [CP111: Dark grain]
- Transom panel
  - Pattern-printed steel sheet [CP111: Dark grain]
- Doors
  - Pattern-printed steel sheet [CP101: Silver]
- Front return panels
  - SUS-HL
- Kickplate
  - SUS-HL
- Flooring
  - Durable vinyl tiles
- Car operating panel
  - CBV3-N730
- Handrails
  - YH-595

Optional Ceiling Design L210S
- Panel: SUS-HL
- Others: Same as L210.

N300 | Terraced design with illusion of increased ceiling height

- Ceiling (N300)
  - Panel: Painted steel sheet [Y033: White]
  - Lighting: Central indirect lighting and downlights
- Walls
  - Colored (gold) SUS-HL
- Transom panel
  - Colored (gold) SUS-HL
- Doors
  - SUS-M
- Front return panels
  - SUS-M
- Kickplate
  - Colored (gold) SUS-HL
- Flooring
  - Rubber tile (supplied by customer)
- Car operating panel
  - CBV1-C730 (faceplate: SUS-M)
- Handrails
  - YH-59M

Optional Ceiling Design N300S
- Panel: SUS-HL
- Others: Same as N300.

Actual colors may differ slightly from those shown.
Please refer to page 20 for the explanations of SUS-HL, colored SUS-HE and SUS-M.
Car Design Example

Ceiling (N130) ——— Panel: Milky white resin panels
Lighting: Full lighting
Walls ——— Colored (bronze) SUS-HE (EPA-2)
Transom panel ——— Colored (bronze) SUS-HE (EPA-2)
Doors ——— Colored (bronze) SUS-HE (EPA-2)
Front return panels ——— SUS-HL
Kickplate ——— Colored (bronze) SUS-HL
Flooring ——— Rubber tile (supplied by customer)
Car operating panel ——— CBV1-N710 (faceplate: SUS-M)
Handrails ——— YH-59M
Mirror ——— YZ-53A

Ceiling Designs

N130 | Light transmitted through exotic ceiling patterns

N120 | Gorgeous ceiling with lustrous translucent panels fused using refined geometric patterns

Car Finish Application Table

<table>
<thead>
<tr>
<th>Materials/Finishes</th>
<th>Wall</th>
<th>Transom panel</th>
<th>Doors</th>
<th>Ceiling</th>
<th>Kickplate</th>
<th>Flooring</th>
<th>Sill</th>
</tr>
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<tbody>
<tr>
<td>Pattern-printed steel sheet</td>
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<td>Optional</td>
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<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
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<tr>
<td>Rubber tile (supplied by customer)</td>
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<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
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<tr>
<td>Stainless steel, hairline-finish with engraved pattern*1 (SUS-HL)</td>
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<td>Rubber tile (faceplate: rubber tile)</td>
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<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
*1: Etching pattern EPA-1~6 only.
*2: Etching pattern EPA-1~3 only.
*3: Only available in dark gray.

Car Design Example

Ceiling (N120) ——— Panels: [Center] Milky white resin panel
[Sides] Resin panels with mirrored surface
Lighting: Central lighting and downlights
Walls ——— SUS-HE (EPA-3)
Transom panel ——— SUS-HE (EPA-3)
Doors ——— SUS-HE (EPA-3)
Front return panels ——— SUS-M
Kickplate ——— SUS-HL
Flooring ——— Rubber tile (supplied by customer)
Car operating panel ——— CBV5-N710
Handrails ——— YH-59M

Actual colors may differ slightly from those shown.
For front return panel

Notes:
1. Segment LED indicators cannot display some letters of alphabet. Please consult our local agents for details.
2. Please select a button type referring to page 27 and enter the number in the space shown as \( \circ \).
3. Faceplates with stainless-steel, mirror-finish are also available (optional). Please consult our local agents for details.
4. Maximum number of floors: 22 floors.
5. The type in parentheses ( ) shows an auxiliary car operating panel (optional). The design is slightly different from the above images. Please consult our local agents for further information such as installation location.
6. Please consult our local agents for the production terms, etc.

Actual colors may differ slightly from those shown.
Car Operating Panels

For side wall

Notes:
*1: Segment LED indicators cannot display some letters of alphabet. Please consult our local agents for details.
*2: Please select a button type referring to page 27, and enter the number in the space shown as °.
*3: Faceplates with stainless-steel mirror finish are also available (optional). Please consult our local agents for details.
*4: The type in parentheses () shows an auxiliary car operating panel (optional). The design is slightly different from the above images. Please consult our local agents for further information such as installation location.
*5: Please consult our local agents for the production terms, etc.

Actual colors may differ slightly from those shown.

Numbers: Flat buttons
Star: Tactile button (stainless-steel matte)
Hall Signal Fixtures

--- Hall position indicators and buttons ---

**Segment LED indicator**
- With plastic case
  - PIV-A1010N
  - PIV-A1010B
  - PIV-A1020N
  - PIV-A1020B

**Segment LED indicator**
  - PIV-C710N
  - PIV-C720N

**LED indicator**
- PIV-C766N
- PIV-C776N

**Dot LED indicator**
- PIV-C740N

**Hall buttons**
- With plastic case
  - HBV-A1010N
  - HBV-A1010B
  - HBV-C710N
  - HBV-C710N

**No-entry indicators for EN81-73**
- SN-C10

--- Hall lanterns ---

**Hall lanterns**
- HLV-A16S
- HLV-A16S
- HLV-E71
- HLV-E66
- HLV-E65
- HLV-A31S
- HLH-A31S

--- Hall position indicators ---

**Hall position indicators**
- HLV-A21S
- HLV-A31S
- HLV-E65
- HLV-E66
- HLV-E71
- HLH-A31S

--- LCD position indicators ---

**LCD position indicator**
- PIH-C117 (5.7-inch)

--- LCD information displays ---

**LCD information displays**
- PIH-C216 (10.4-inch)
- PIH-C226 (15-inch)

--- Hall position indicator with lantern ---

**Hall position indicator with lantern**
- PIH-D415
  - (Dot LED indicator)
- PIH-D417
  - (Built into transom panel)

--- Cross-section of boxless fixtures ---

These hall signal fixtures can be easily mounted on the wall surface without having to cut into the wall to embed the back box.

**Cross-section**
- PIE-B47

--- Notes ---

*1: Segment LED indicators cannot display some letters of alphabet. Please consult our local agents for details.
*2: Dot LED indicators are available (optional). Please consult our local agents for details.
*3: Please select a button type referring to page 27, and enter the number in the space shown as ˙.
*4: Faceplates with stainless-steel, mirror-finish are also available (optional). Please consult our local agents for details.
*5: These types are applicable to EN81-70 compliant elevators only in 1C-2BC where one car is controlled independently.
*6: These types are not applicable to elevators complying with EN81-70.

Actual colors may differ slightly from those shown.
Button Line-up

Buttons accented with LED halo illumination
Illuminated characters and halos attract user's attention.
Tactile and flat buttons (stainless steel with non-directional hairline finish) are available in three illumination colors: yellow-orange, white, and blue.

Square buttons
The entire buttons (excluding characters) are illuminated yellow-orange, white, or blue.

Note: * Flat buttons are not applicable to regulation EN81-70.

Interior

Mirrors
YZ-52A
Half-size
YZ-53A
Two-mirror set
YZ-55SN
Full height

Handrails
YH-59S (SUS-HL)
YH-59M (SUS-M)
YH-59G (SUS-M)
YH-57S (SUS-HL)
YH-57M (SUS-M)

Actual colors may differ slightly from those shown.
Please refer to page 20 for the explanations of SUS-HL and SUS-M.

Interior
Hall Designs

E-312  Splayed Jamb with Transom Panel
E-212  Square Jamb with Transom Panel

Hall Design Example of E-312
Jamb  SUS-HL
Transom panel  Colored (black) SUS-HE
Doors  Colored (black) SUS-HE
Hall lantern  HLV-E71
Hall button  HBV3-C710N

E-302  Splayed Jamb
E-202  Square Jamb

Hall Design Example of E-302
Jamb  SUS-HL
Doors  Painted steel sheet (Y033: White)
Hall lantern  HLV-E66
Hall button  HBV1-C710N

E-102  Narrow Jamb  Standard

Hall Design Example
Jamb  SUS-HL
Doors  SUS-HL
Hall position indicator and button  PIV1-A1010N  Optional

Entrance Finish Application Table

<table>
<thead>
<tr>
<th>Materials/Finishes</th>
<th>Jamb</th>
<th>Transom panel</th>
<th>Doors</th>
<th>Sill</th>
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<tbody>
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<td>Extruded hard aluminum</td>
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<td>Stainless steel</td>
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</tbody>
</table>
### Materials and Colors

**[Car] Walls, doors and transom panel**
- **Colored stainless-steel, hairline-finish**
  - Gold
  - Bronze
  - EPA-1
  - EPA-2
  - EPA-3
- **Pattern-printed sheet**
  - CP23 Minimal stripe
  - CP101 Silver
  - CP141 Bright slate
  - CP121 Primary grain
  - CP111 Dark grain

**Ceiling**
- **Painted steel sheet**
  - (210, N300, customized 1, customized 2 only)
  - Y033 White
  - Y073 Light beige
  - Y055 Dark gray
- **Stainless-steel Hairline-finish**
  - (Applicable to 210 or N300S only)

**[Hall] Doors, transom panel and jamb**
- **Stainless-steel**
  - Hairline-finish
  - Mirror-finish (not applicable to the hall transom panel and jamb)
- **Etching patterns (stainless-steel)**
  - EPA-1
  - EPA-2
  - EPA-3
  - EPA-4
  - EPA-5
  - EPA-6
- **Painted finish**
  - Neutral Colors
    - Y033 White
    - Y044 Beige
    - Y071 Neutral beige
    - Y002 Dark brown
    - Y055 Dark gray
  - Cool Colors
    - Y117 Lime green
    - Y118 Light grayish blue
    - Y116 Blue
    - Y115 Light brown
  - Warm Colors
    - Y119 Carrot orange
    - Y134 Red-violet

**Flooring**
- **Durable vinyl tiles**
  - PR-803 Gray
  - PR-812 Dim-gray
  - PR-801 Cream beige
  - PR-810 Other

---

Actual colors may differ slightly from those shown.
Door open time is minimized using the SR or Multi-beam Door Sensor feature that detects the place where a person enters the car, to allow smooth boarding of passengers or loading of baggage. The time doors are open will automatically be adjusted depending on whether the stop was made or canceled by either a timer or the Supervisory Panel.

Door close timing is delayed and the closing speed is reduced to maintain elevator service and ensure passenger safety.

The system predicts a potential hall call which could cause longer waiting time. Car assignment is performed considering not only current and new calls but also near-future calls. Note: this feature is performed only in the direction of a car call.

When a passenger enters a destination floor at a hall, the hall operating panel indicates which car should be called. This function is automatically deactivated during emergency operation.

The number of cars allocated or parked on crowded floors is controlled not just according to the conditions on those crowded floors but also the operational status of each car and the traffic on each floor. This function is automatically deactivated during emergency operation.

A function to give priority allocation to the car closest to the floor where a hall call button has been pressed, or to re-route the closing doors of the car that missed the pressed hall button onto that floor that has a hall call button. This function is automatically deactivated during emergency operation.

If a car has responded to the final car call in one direction, the system regards remaining car calls in the other direction as non-usage and取消s them from the memory.

Emergency Call Station III-3 or III-4: A fully-loaded car bypasses hall calls in order to maintain maximum operational efficiency.

A car which is experiencing trouble is automatically withdrawn from group control operation to serve special needs or different floors.

Emergency Car Operation III-3: The number of passengers is limited to ten, and priority is given to the users of the building in the event of an emergency. (Maximum allowable floor-to-floor distance is 11 meters.)

A car which is experiencing trouble is automatically withdrawn from group control operation to serve special needs or different floors.

A fully-loaded car bypasses hall calls in order to maintain maximum operational efficiency.

When a passenger enters a destination floor at a hall, the hall operating panel indicates which car should be called. This function is automatically deactivated during emergency operation.

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Features (2/2)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Abbr.</th>
<th>Description</th>
<th>1C-2BC</th>
<th>2C-2BC</th>
<th>3C-4C</th>
<th>3C-8C</th>
<th>1C-2BC, 2C-2BC 3C-4C 3C-8C</th>
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</thead>
</table>

**GROUP CONTROL FEATURES** (Continued from the previous page.)

- Distinction of Traffic Flow with Neural Networks.
- Dynamic Rule-set Optimizer.
- Elevator Call System with Smartphone.
- Energy-saving with Neural Networks.
- Energy-saving Operation & Speed Control.
- Expert System and Fuzzy Logic.
- Forward Stop.
- Intense Up Peak.
- Light-load Car Priority Service.
- Lunchtime Service.
- Main Floor Changeover Operation.
- Main Floor Parking.
- Peak Traffic Control.
- Psychological Waiting Time Evaluation.
- Special Car Priority Service.
- Special Floor Priority Service.
- Strategic Overall Spotting.
- Spot Peak Service.
- VIP Operation.

**SIGNAL AND DISPLAY FEATURES**

- Operating Panel:
  - ACS: An additional car control panel which can be installed for large-capacity elevators, heavy-traffic elevators, etc.
  - AAN-B: A synthetic voice (and/or buzzer) alerts passengers inside a car that elevator operation has been temporarily interrupted by overloading or a similar cause. (Available in limited languages.)
- Car Information Display:
  - CID: The 5.7-inch LCD for car-operating panels shows the date and time, car position, travel direction, and elevator status messages. *Please consult our local agents if you would like to display a video or a slideshow of still images on the screen.*
- Car LCD Position Indicator:
  - CID-5: The 5.7-inch LCD for car-operating panels shows the date and time, car position, travel direction, and elevator status messages.
  - CID-6: The 5.7-inch LCD for elevator halls shows the date and time, car position, travel direction and elevator status messages.
- Hall Information Display:
  - HID: When a passenger has registered a hall call, the best car to respond to that call is immediately selected, the corresponding hall lantern lights up and a chime sounds once to indicate which doors will open.
  - HID-S: A system which allows communication between passengers inside a car and the building personnel.
- Hall LCD Position Indicator:
  - HID-5: A 5.7-inch LCD for elevator halls shows the date and time, car position, travel direction and elevator status messages.
- Immediate Prediction Indicator:
  - AIL: When a passenger has registered a hall call, the best car to respond to that call is immediately selected, the corresponding hall lantern lights up and a chime sounds once to indicate which doors will open.
- Intercommunication System:
  - ITF: A system which allows communication between passengers inside a car and the building personnel.
- Second Car Prediction:
  - TCP: Whens a hall is crowded to the extent that one car cannot accommodate all waiting passengers, the hall horn of the next car to serve the hall will light up.
- Some Car Button — Click-Style:
  - ACR: A click-style car button which emits electronic beep sounds when pressed to indicate that the car has been registered.
- Voice Guidance System:
  - AAN-G: Information on elevator service such as the current floor or service direction is given to the passengers inside a car.

Notes:
- 1C-2BC (1-car selective collective) = Standard
- 2C-2BC (2-car group control system) = Optional
- 3C-4C (3- to 4-car group control system) = Optional
- 3C-8C (3- to 8-car group control system): Optional
- Standard / Optional / T: Not applicable / 1C-2BC — Not applicable
- #1: Please consult our local agents for the production terms, etc.
### Specifications

#### Capacity and Speed

<table>
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<th>Rated capacity (kg)</th>
<th>Number of persons</th>
<th>Rated speed (m/sec)</th>
<th>Mitsubishi Electric Standard</th>
<th>EN81-1</th>
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</table>

Notes:

- The symbol ✓ shown in the table indicates that a technical inquiry is required.
- The symbol ✓ shown in the table indicates that a technical inquiry is required depending on conditions.

#### Important Information on Elevator Planning

**Work Not Included in Elevator Contract**

The following items are excluded from our elevator installation work. Their conditions and other details are to be confirmed to the statement of local laws or our requirements on the responsibility of the building owner or general contractor:

- Construction of the elevator machine room with proper beams and slabs, equipped with a lock, complete with illumination, ventilation and waterproofing.
- Access to the elevator machine room sufficient to allow passage of the control panel and traction machine.
- Architectural finishing of the machine room floor, and the walls and floors in the vicinity of the entrance hall after installation has been completed.
- Construction of an illuminated, ventilated and waterproofed hoistway.
- The provision of a ladder to the elevator pit.
- The provision of openings and supporting members as required for equipment installation.
- The provision of separate beams when the hoistway dimensions markedly exceed the specifications, and intermediate beams and separator partitions when two or more elevators are installed.
- The provision of an emergency exit door, inspection door and pit access door, when required, and access to the doors.
- All other work related to building construction.
- The provision of the main power and power for illumination, and their electrical switch boxes in the machine room, and laying of the wiring from the electrical room.
- The provision of outlets and laying of the wiring in the machine room and the hoistway, plus the power from the electrical switch box.
- The laying of conduits and wiring between the elevator pit and the terminating point for the devices installed outside the hoistway, such as the emergency bell, intercom, monitoring and security devices.
- The power consumed in installation work and test operations.
- All the necessary building materials for grouping in of brackets, bolts, etc.
- The test provision and subsequent alteration as required, and eventual removal of the scaffolding as required by the elevator contractor, and any other protection of the work as may be required during the process.
- The provision of a suitable, locked space for the storage of elevator equipment and tools during elevator installation.
- The security system, such as a card reader, connected to our elevator controller, when supplied by the building owner or general contractor.

Note: Work responsibilities in installation and construction shall be determined according to local laws.

**Elevator Site Requirements**

- The temperature of the machine room and elevator hoistway shall be below 40°C.
- The following conditions are required for maintaining elevator performance.
  - a. The relative humidity shall be below 90% on a monthly average and below 95% on a daily average.
  - b. Prevention shall be provided against icing and condensation occurring due to a rapid drop in the temperature in the machine room and elevator hoistway.
  - c. The machine room and the elevator hoistway shall be finished with mortar or other materials so as to prevent concrete dust.
  - d. Voltage fluctuation shall be within a range of ±5% to –10%.

**Ordering Information**

Please include the following information when ordering or requesting estimates:

- The desired number of units, speed and loading capacity.
- The number of stops or number of floors to be served.
- The total elevator travel and each floor-to-floor height.
- Operation system.
- Selected design and size of car.
- Entrance design.
- Signal equipment.
- A sketch of the part of the building where the elevators are to be installed.
- The voltage, number of phases, and frequency of the power source for the motor and lighting.

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State-of-the-Art Factories…
For the Environment. For Product Quality.

Our elevators and escalators are currently operating in approximately 90 countries around the globe. Built placing priority on safety, our elevators, escalators and building system products are renowned for their excellent efficiency, energy savings and comfort. The technologies and skills cultivated at the Inazawa Building Systems Works in Japan and 12 global manufacturing factories are utilized in a worldwide network that provides sales, installation and maintenance in support of maintaining and improving product quality. As a means of contributing to the realization of a sustainable society, we consciously consider the environment in business operations, proactively work to realize a low-carbon, recycling-based society, and promote the preservation of biodiversity.

ISO9001/14001 certification

Mitsubishi Electric Building Solutions Corporation Inazawa Building Systems Works has acquired ISO 9001 certification from the International Organization for Standardization based on a review of quality management. The plant has also acquired environmental management system standard ISO 14001 certification.

Accreditation Logos

Safety Tips: Be sure to read the instruction manual fully before using this product.