Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.


Freight Elevator Series GFM-T

Revised publication, effective Dec. 2018.


Specifications are subject to change without notice.
Mitsubishi Freight Elevators Can Improve Your Goods-Handling Ability

Elevator Selection

1. Rated capacity and car size

What is the maximum weight or size of goods to be transported at one time?
Is a fork lift used to load and unload goods?
Select car size
Check shaft size and loading area
Set rated capacity

Driving system
Traction type
Machine room location
Directly over the hoistway
Rated capacity *1
750kg – 6000kg
Rated speed *1
30m/min. – 60m/min.
Maximum travel
30m
Overhead, Pit depth
Refer to pages 7 to 10
Motor capacity

2. Operation system

Operation system
Outline
Single automatic for freight 1BF
Responds to individual calls. It cannot register new calls during operation.
Selective collective 2BC
Responds in sequence to calls in the same direction. It allows both directions per call.

Remarks
General operation system for typical freight uses.
Applicable for handling small goods.

3. Door system

Door type
Remarks
Horizontal sliding doors
2S: 2-panel side opening
3S: 3-panel side opening
2CO: 4-panel center opening
These door types have comparatively fast operation.
Vertical sliding doors
2U: 2-panel upward opening
3U: 3-panel upward opening
These door types make it easy to align same-size entrance width and car width.
Note: Not applicable with 2BC operation.

Basic Specifications

<table>
<thead>
<tr>
<th>Loading equipment and scope of application</th>
<th>Type</th>
<th>Capacity (kg)</th>
<th>Car interior (mm)</th>
<th>Door type</th>
<th>Entrance (mm)</th>
<th>Speed (m/min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Width (Aa)</td>
<td>Depth (Bb)</td>
<td>Width (Cc)</td>
<td>Height (Dd)</td>
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<td></td>
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<tr>
<td>F-150-2S</td>
<td>500</td>
<td>1200</td>
<td>2100</td>
<td>2200</td>
<td>2U</td>
<td>2500</td>
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<td>4500</td>
<td>4600</td>
<td>3S</td>
<td>2500</td>
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</tbody>
</table>

Note: *1. Combinations between capacity and speed are shown in the table on the next page.
2. In cases where capacity exceeds 3000kg, please consult our sales agency for details.
3. 2U, 3U door type can not be applied for EN-81-1 or GB code.

The following dimension is shown in Japan code.
Signal fixtures such as Car operating panel and Hall position indicator, etc., are shown according to operation system. The applications vary based on the model, so please confirm when ordering.

**E-102** ........... **FC-101-2S**  
**Finishes and Designs 2-panel side opening**

- **Door frame**: Narrow Jamb with Painted steel sheet
- **Entrance Doors**: Painted steel sheet
- **Entrance Sill**: Extruded hard aluminum (Capacity of 2000kg or less) Steel plate with black paint (Over 2000kg capacity)
- **Hall buttons**: Indicator is incorporated in Hall button unit.
- **Car Ceiling**: Painted steel sheet
- **Car Walls**: Painted steel sheet
- **Car Doors**: Painted steel sheet
- **Flooring**: Checkered steel plate with black paint
- **Car Sill**: Same as Entrance sill
- **Lighting**: Fluorescent light fixtures

*Signal fixtures shown above are for Single automatic operation for freight (1BF). (Standard)*

**E-202** ........... **FC-101-3S**  
**Finishes and Designs 3-panel side opening**

- **Door frame**: Square Jamb with Painted steel sheet (Optional)
- **Entrance Doors**: Painted steel sheet
- **Entrance Sill**: Extruded hard aluminum (Capacity of 2000kg or less) Steel plate with black paint (Over 2000kg capacity)
- **Hall buttons**: Indicator is incorporated in Hall button unit.
- **Car Ceiling**: Painted steel sheet
- **Car Walls**: Painted steel sheet
- **Car Doors**: Painted steel sheet
- **Flooring**: Checkered steel plate with black paint
- **Car Sill**: Same as Entrance sill
- **Lighting**: Fluorescent light fixtures

*Signal fixtures shown above are for Selective collective operation (2BC). (Optional) Note: Car operating panel is installed in Front return panel.

**E-102** ........... **FC-101-2U**  
**Finishes and Designs 2-panel upward opening**

- **Door frame**: Narrow Jamb with Painted steel sheet
- **Entrance Doors**: Painted steel sheet
- **Entrance Sill**: Checkered steel plate with black paint
- **Hall buttons**: Indicator is incorporated in Hall button unit.
- **Car Ceiling**: Painted steel sheet
- **Car Walls**: Painted steel sheet
- **Car Doors**: Painted steel sheet
- **Flooring**: Checkered steel plate with black paint
- **Car Sill**: Same as Entrance sill
- **Lighting**: Fluorescent light fixtures

*Signal fixtures shown above are for Single automatic operation for freight (1BF). (Standard)*

---

**Operation System**

<table>
<thead>
<tr>
<th>Signal fixtures</th>
<th>Functions</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hall position indicator</td>
<td>Direction arrow</td>
<td>Shows direction during operation.</td>
</tr>
<tr>
<td></td>
<td>Position indicator</td>
<td>Shows position of elevator.</td>
</tr>
<tr>
<td></td>
<td>IN-USE indicator</td>
<td>Shows elevator is in use. Only 1BF</td>
</tr>
<tr>
<td></td>
<td>Call button</td>
<td>Push to register call. Valid while IN-USE indicator is illuminated. Only 1BF</td>
</tr>
<tr>
<td></td>
<td>Up call button</td>
<td>Push to go up. Only 2BC</td>
</tr>
<tr>
<td></td>
<td>Down call button</td>
<td>Push to go down. Only 2BC</td>
</tr>
<tr>
<td></td>
<td>Door close button</td>
<td>Close doors promptly for next user. Only 1BF</td>
</tr>
<tr>
<td>Car operating panel</td>
<td>Direction arrow</td>
<td>Shows direction during operation.</td>
</tr>
<tr>
<td></td>
<td>Position indicator</td>
<td>Shows position of elevator.</td>
</tr>
<tr>
<td></td>
<td>Intercom</td>
<td>Enables contact with building superintendents.</td>
</tr>
<tr>
<td></td>
<td>Alarm button</td>
<td>Keep pushing in times of emergency to enable the elevator operator contact with outside.</td>
</tr>
<tr>
<td></td>
<td>Emergency stop switch</td>
<td>When pressed during an emergency, the elevator immediately stops.</td>
</tr>
<tr>
<td></td>
<td>Car button</td>
<td>Press for the destination floor.</td>
</tr>
<tr>
<td></td>
<td>Door open button</td>
<td>Press to re-open the doors when doors are closing.</td>
</tr>
<tr>
<td></td>
<td>Door close button</td>
<td>Keep pressing until the car starts with doors closed. Only 2BC</td>
</tr>
<tr>
<td></td>
<td>Swing door</td>
<td>There are switches inside for maintenance and administrative purposes.</td>
</tr>
<tr>
<td></td>
<td>Key hole</td>
<td>Turn the key to the left to open swing door.</td>
</tr>
</tbody>
</table>

**Single automatic for freight (1BF): Standard**  
**Selective collective (2BC): Optional**

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**Signal fixtures Functions**
The applications vary based on the model, so please confirm when ordering.

- **Hall position indicator**: Shows direction during operation.
- **Call button**: Push to register call. Valid while IN-USE indicator is illuminated. Only 1BF
- **Up call button**: Push to go up. Only 2BC
- **Down call button**: Push to go down. Only 2BC
- **Door close button**: Close doors promptly for next user. Only 1BF
- **Direction arrow**: Shows direction during operation.
- **Position indicator**: Shows position of elevator.
- **Intercom**: Enables contact with building superintendents.
- **Alarm button**: Keep pushing in times of emergency to enable the elevator operator contact with outside.
- **Emergency stop switch**: When pressed during an emergency, the elevator immediately stops.
- **Car button**: Press for the destination floor.
- **Door open button**: Press to re-open the doors when doors are closing.
- **Door close button**: Keep pressing until the car starts with doors closed. Only 2BC
- **Swing door**: There are switches inside for maintenance and administrative purposes.
- **Key hole**: Turn the key to the left to open swing door.

**Note**: Car operating panel is installed in Front return panel.
### Operational Features

#### Appearance

<table>
<thead>
<tr>
<th>Item</th>
<th>Descriptions</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Doors (Horizontal Sliding Doors)</td>
<td>Painted steel sheet</td>
<td>●</td>
</tr>
<tr>
<td>Steel Mesh Doors (Vertical Sliding Doors)</td>
<td>Expanded metal with painted finish</td>
<td>●</td>
</tr>
<tr>
<td>Ceiling</td>
<td>Painted steel sheet</td>
<td>●</td>
</tr>
<tr>
<td>Lighting</td>
<td>Fluorescent light fixtures</td>
<td>●</td>
</tr>
<tr>
<td>Entrance Columns (Only Horizontal Sliding Doors)</td>
<td>Stainless steel harline</td>
<td>○</td>
</tr>
<tr>
<td>Car Wall Protectors</td>
<td>Stainless steel harline</td>
<td>○</td>
</tr>
<tr>
<td>Flooring</td>
<td>Checkered steel plate with black paint</td>
<td>●</td>
</tr>
<tr>
<td>Car Operating Panel</td>
<td>Faceplate</td>
<td>Stainless steel harline</td>
</tr>
<tr>
<td>Hall Position Indicator</td>
<td>Faceplate</td>
<td>Stainless steel harline</td>
</tr>
<tr>
<td>Safety Door Edge (SDE)</td>
<td>The sensitive mechanical door edge detects the operator or goods upon contact during door closing.</td>
<td>●</td>
</tr>
<tr>
<td>Ultrasonic Door Sensor (USDS) (Only Horizontal Sliding Doors)</td>
<td>Sound waves are used to scan a 3D area near the open doors to detect the operator or goods.</td>
<td>○</td>
</tr>
<tr>
<td>Safety Ray (SR)</td>
<td>The infrared-light beam (one or two) covers the full width of the door as it opens or closes to detect the operator or goods.</td>
<td>○</td>
</tr>
<tr>
<td>Overload Holding Stops (OLH)</td>
<td>The elevator buzzer rings to indicate the car is overloaded.</td>
<td>●</td>
</tr>
<tr>
<td>Automatic Door Closing (ADC) (Only 1BF)</td>
<td>The doors are automatically closed after a predetermined time (std. 1 min.) from full opening. The buzzer will continue to ring from 8 sec. before closure until the doors are fully closed.</td>
<td>○</td>
</tr>
<tr>
<td>Extended Door-Open Button (DKO-TB) (Only 2BC)</td>
<td>This feature keeps the doors open for a predetermined period to facilitate loading and unloading of goods.</td>
<td>○</td>
</tr>
</tbody>
</table>

#### Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Descriptions</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inter Communication System (ITP)</td>
<td>A system which allows communication between passengers inside a car and the building personnel.</td>
<td>○</td>
</tr>
<tr>
<td>Emergency Car Lighting (ECL-C) (Rechargeable Battery Type)</td>
<td>Car lighting which turns on immediately when power fails to provide a minimum level of lighting within the car.</td>
<td>○</td>
</tr>
<tr>
<td>Car Fan Shut Off – Automatic (CFO-A)</td>
<td>If there are no calls for a specified period, the car ventilation fan will automatically be turned off to conserve energy.</td>
<td>○</td>
</tr>
<tr>
<td>Car Light Shut Off – Automatic (CLD-A)</td>
<td>If there are no calls for a specified period, the car lighting will automatically shut off to conserve energy.</td>
<td>○</td>
</tr>
<tr>
<td>Hall Out of Service Switch (HOS)</td>
<td>For maintenance or energy-saving measures, a car can be taken out of service temporarily with a key switch mounted in a specified hall.</td>
<td>○</td>
</tr>
<tr>
<td>Wiring for BGM Speaker</td>
<td>Necessary wires are provided in the traveling cable. (Speaker: by owner)</td>
<td>○</td>
</tr>
<tr>
<td>Mitsubishi Emergency Landing Device (MELD)</td>
<td>Upon power failure, the car equipped with this function automatically moves and stops at the nearest floor using a rechargeable battery, and the doors open to ensure passenger safety. (Max. allowable floor-to-floor distance is 10 meters.)</td>
<td>○</td>
</tr>
<tr>
<td>Earthquake Emergency Return (EER-P / EER-S)</td>
<td>Upon activation of primary and/or secondary wave seismic sensors, all cars stop at the nearest floor, and park there with the doors open to facilitate safe evacuation of passengers.</td>
<td>○</td>
</tr>
<tr>
<td>Fire Emergency Return (FER)</td>
<td>Upon activation of a key switch or a building’s fire sensors, all calls are canceled, all cars immediately return to a specified evacuation floor and the doors open to ensure safe passenger evacuation.</td>
<td>○</td>
</tr>
<tr>
<td>Operation by Emergency Power Source – Auto/Manual (OEPS)</td>
<td>Upon power failure, the car uses the building’s emergency power supply to move to a specified floor, where the doors then open to facilitate the safe evacuation of passengers. After the car has arrived at the floor, normal operation will be available.</td>
<td>○</td>
</tr>
<tr>
<td>Supervisory Panel (WP)</td>
<td>A panel installed in a building’s supervisory room, etc., which monitors and controls each elevator’s status and operations by remote, using indicators and switches which are provided on request.</td>
<td>○</td>
</tr>
</tbody>
</table>
### Layout Drawings and Dimensions for One Gate (1D1G)

#### For JIS Code

#### Machine Room Plan

- **Ventilating fan (by owner)**
- **Control panel**
- **Access door**
- **R1**
- **AM**

#### Hoistway Section

- **Min. clear machine room height**
- **Min. floor height**
- **Pit depth (PD)**
- **Reaction loads (kN)**
- **Overhead OH (mm)**

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#### Hoistway Plan for 2-panel side opening door (2S)

#### Hoistway Plan for 3-panel side opening door (3S)

#### Hoistway Plan for 2-panel upward opening door (2U)

It can not be applied for EN-81-1 or GB code.

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#### The following dimension is shown in Japan code.

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity (kg)</th>
<th>Speed (m/min)</th>
<th>Motor (kW)*1</th>
<th>Machine room (mm)</th>
<th>Pit depth (mm)</th>
<th>Door type</th>
<th>Hoistway (mm)</th>
<th>Min. floor height (mm)</th>
<th>Overhead OH (mm)</th>
<th>Reaction loads (kN)*2</th>
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</thead>
<tbody>
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<td>F-750-2S</td>
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<td>7.5</td>
<td>60</td>
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<td>2000</td>
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<td>60</td>
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<td>1800</td>
<td>4100</td>
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<td>F-3000-2U*4</td>
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<td>2U</td>
<td>1250</td>
<td>4100</td>
<td>4100</td>
<td>4850</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1800</td>
<td>4100</td>
<td>4100</td>
<td>5050</td>
</tr>
<tr>
<td>F-3000-3U*4</td>
<td>3000</td>
<td>45</td>
<td>18.5</td>
<td>60</td>
<td>26</td>
<td>3U</td>
<td>1250</td>
<td>4100</td>
<td>4100</td>
<td>4850</td>
</tr>
<tr>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>1800</td>
<td>4100</td>
<td>4100</td>
<td>5050</td>
</tr>
</tbody>
</table>

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*2: Since reaction load varies according to the specifications, please consult our sales agency for details.

*3: In cases where capacity exceeds 3000kg, please consult our sales agency for details.

*4: 2U, 3U door type can not be applied for EN-81-1 or GB code.
Hoistway Plan for 2-panel side opening door (2S)

Hoistway Plan for 3-panel side opening door (3S)

Hoistway Plan for 2-panel upward opening door (2U)

Machine Room Plan

Cinder concrete finish (by owner)

2-panel upward opening door

3-panel side opening door

R4 R3

Min. clear machine room height 100

Overhead OH Max. Travel 30m

Min. floor height HH

Pit depth PD

Ventilating fan (by owner)

Ventilation hole (by owner)

Control panel BM

Access door W1200 × H2000

R2 Y X

AM

R1

AA

BB

Y

X

JJ

The following dimension is shown in Japan code.

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity (kg)</th>
<th>Speed (m/min)</th>
<th>Motor (kW)</th>
<th>Machine room (mm)</th>
<th>Pit depth (mm)</th>
<th>Door type</th>
<th>Hoistway (mm)</th>
<th>Min. floor height (mm)</th>
<th>Overhead OH (mm)</th>
<th>Reaction loads (kN)*2</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-750-2S</td>
<td>750</td>
<td>45</td>
<td>7.5</td>
<td>60</td>
<td>9.5</td>
<td>2S</td>
<td>2600 × 3950</td>
<td>1250</td>
<td>2000 × 3110</td>
<td>4450</td>
</tr>
<tr>
<td>F-1000-2S</td>
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<td>45</td>
<td>7.5</td>
<td>60</td>
<td>9.5</td>
<td>2S</td>
<td>3150 × 3950</td>
<td>1250</td>
<td>2600 × 3110</td>
<td>4450</td>
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<td>1250</td>
<td>3600 × 3680</td>
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<td>18.5</td>
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<td>22</td>
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<td>2U</td>
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For JIS Code

Layout Drawings and Dimensions for Two Gates (1D2G & 2D2G)
2-panel side opening door (2S)

3-panel side opening door (3S)

Entrance width JJ

Wall thickness

Jamb depth JD

Entrance height HH

2-panel upward opening door (2U)

3-panel upward opening door (3U)

It cannot be applied for EN-81-1 or GB codes.

4-panel center opening door (2CO)

*1: Since dimensions for vertical sliding doors vary according to the entrance width, entrance height and floor height, please consult our sales agency for details.
Important Information on Elevator Planning

**Work Not Included in Elevator Contract**
The following items are excluded from Mitsubishi Electric’s elevator installation work, and are therefore 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 elevator hoistway.
- A ladder to the elevator pit.
- The provision of cutting the necessary openings and joists.
- Separate beams, when the hoistway dimensions markedly exceed the specifications, and intermediate beams when two or more elevators are installed.
- All other work related to building construction.
- The machine room power-receiving panel and the electrical wiring for illumination, plus the electrical wiring from the electrical room to the power-receiving panel.
- 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, etc.
- The power consumed in installation work and test operations.
- All the necessary building materials for grouting 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 Mitsubishi Electric’s elevator controller, when supplied by the building owner or general contractor.

Work responsibilities in installation and construction shall be determined according to local laws. Please consult our local agents for details.

**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. The machine room and the elevator hoistway shall be finished with mortar or other materials so as to prevent concrete dust.
- 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.

Mitsubishi Electric 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 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 Corporation Inazawa 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.

Eco Changes is the Mitsubishi Electric Group’s environmental statement, and expresses the Group’s stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

MITSUBISHI ELECTRIC CORPORATION
HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN


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