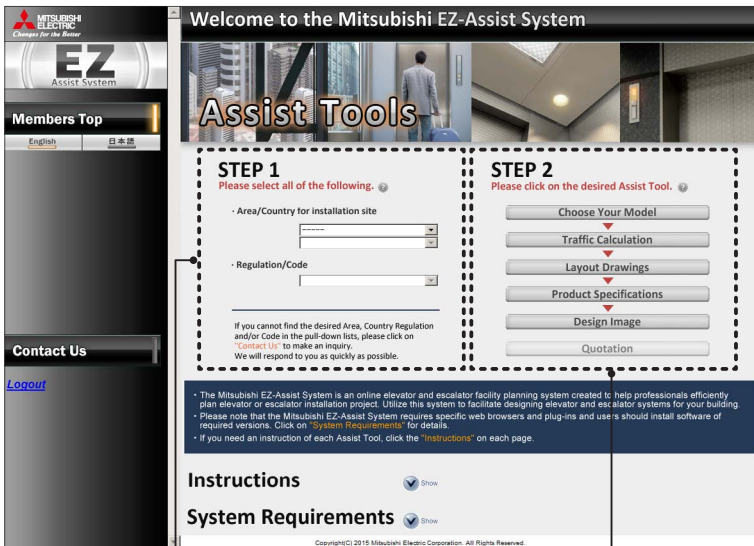


# What is ?

EZ-Assist is a system dedicated to registered members to assist their elevator/escalator planning in model selection, etc. As our products available in this system are complying with various codes and standards, users should be able to find the model that best suits each country or region. Other convenient tools include traffic calculation will also help job effectively.

Log in EZ-Assist System on our global website. The window below appears. To use each tool, enter information in STEP 1 before selecting a tool in STEP 2.



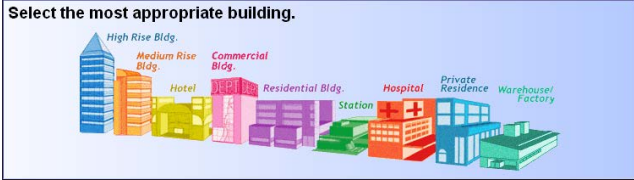
**STEP 1**  
Select an area, country or region, and then a regulation.

**STEP 2**  
Select a tool. We recommend using tools from the top in order. See the next page for details.

# Tools

## Choose Your Model

Which model suits your building?



Select a building type on the page below to see which models are applicable.

## Traffic Calculation

How many elevators are required for the efficient traffic in your building?

Online traffic calculation system proposes you an optimum elevator specification in your building for your building plan.  
Fill input forms in the following step: 1 to 3.

Your Project name: \_\_\_\_\_

**STEP 1 Traffic information in your building**

Building usage: Office | Traffic ratio: 1 : 0 | Loading rate: 80 % | Transfer time: Mitsubishi standard

**STEP 2 Elevator specification**

Area: General | Model name: | Door type: CO | Landing open: No | No. of banks: 1

| Bank                | 1           |
|---------------------|-------------|
| No. of passengers   | Set pattern |
| Speed [m/s]         | Set pattern |
| Entrance width [mm] |             |
| No. of units        | 1           |

Next

Enter specifications from STEP 1 to STEP 3 according to on-screen instruction.

Select the type of a building.

**Traffic calculation result**

Please use the results as reference values only for your elevator facility planning.

Project name: \_\_\_\_\_ Output date: 2015/12/02 15:08:36

| Bank                                  | 1         |       |       |       |       |       |
|---------------------------------------|-----------|-------|-------|-------|-------|-------|
| Cases                                 | Case1     | Case2 | Case3 | Case4 | Case5 | Case6 |
| No. of passengers                     | 7         | 7     | 7     | 8     | 8     | 8     |
| Speed[m/s]                            | 1.60      | 1.75  | 2.00  | 1.60  | 1.75  | 2.00  |
| Model name                            | NEJL2-NJL | →     | →     | →     | →     | →     |
| No. of units                          | 1         | →     | →     | →     | →     | →     |
| Entrance width[mm]                    | 700       | →     | →     | →     | →     | →     |
| Service floors                        | 2 to 6    | →     | →     | →     | →     | →     |
| Departure floors                      | 1         | →     | →     | →     | →     | →     |
| No. of service floors                 | 5         | →     | →     | →     | →     | →     |
| No. of departure floors               | 1         | →     | →     | →     | →     | →     |
| Travel(service floors)[m]             | 17.50     | →     | →     | →     | →     | →     |
| Travel(departure floors)[m]           | 0.00      | →     | →     | →     | →     | →     |
| Total population                      | 200       | →     | →     | →     | →     | →     |
| Round-trip time[s]                    | 72.79     | 72.17 | 71.43 | 77.40 | 76.77 | 76.00 |
| 5-min. transport capacity/car/persons | 23.08     | 23.28 | 23.52 | 24.81 | 25.01 | 25.26 |
| 5-min. transport efficiency[%]        | 4.62      | 4.66  | 4.70  | 4.96  | 5.00  | 5.05  |
| Average interval time[s]              | 72.79     | 72.17 | 71.43 | 77.40 | 76.77 | 76.00 |
| Time to top floor[s]                  | 14.10     | 13.42 | 12.58 | 14.10 | 13.42 | 12.58 |
| Mitsubishi recommended drawing        | DWG       | DWG   | DWG   | DWG   | DWG   | DWG   |

Back | Input specs | Download CSV | Download excel | Print

The result of traffic calculation for given specifications shows the optimum number of elevators for the building.

Data can be compared by speed pattern.

- Calculation results:
- Round-trip time
  - 5-min. transport capacity/car
  - 5-min. transport efficiency
  - Average interval time
  - Time to top floor

Reference drawings are also available.

# Layout Drawings

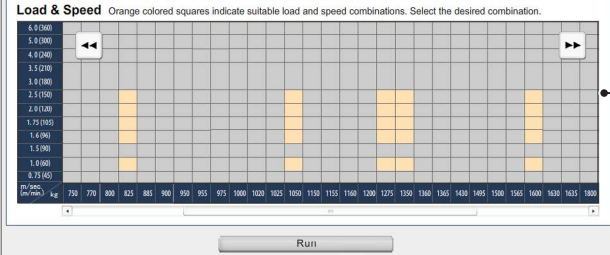
*How elevator(s)/escalator(s) fit in a building?*

## STEP 1

|  |  |   |
|--|--|---|
| Model: NEXIEZ-MRL<br>Applicable regulation/code:<br>•EN81-1:1996    •CEI 7559-2003<br>•Singapore    •Malaysia<br>•Mexico        •Argentina<br>•Brazil         •Other codes | Regulation/Code: EN81-1:1998<br>No. of elev. units: 1<br>No. of entrances: 1 Gate<br>Door type: CO | Fire proof door: Required<br>CWT safety: Not Required<br>VSE: Not Required<br>Ceiling type: S00(STANDARD) |
|--|--|---|

1. Enter specifications.

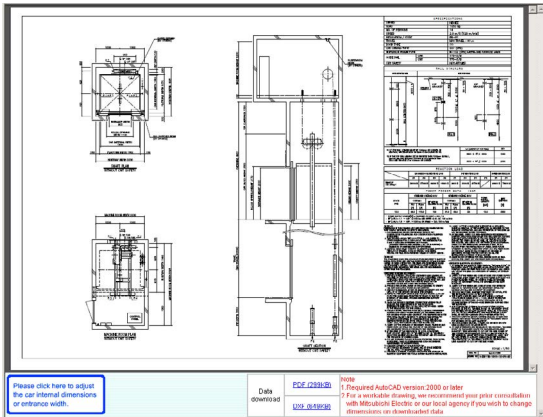
## STEP 2



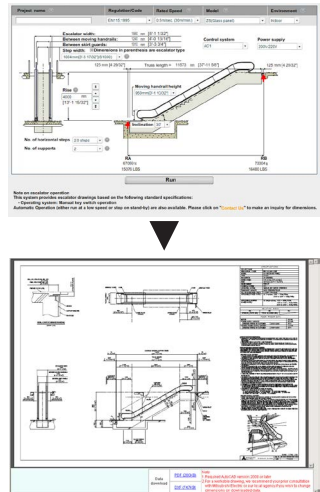
2. Light-orange boxes indicate applicable load and speed for the entered specifications. Click a box and Run button for the layout drawing.

3. A layout drawing appears in a different window. Download the drawing in Auto-CAD, DXF or PDF format, if necessary.  
 (On the drawing, power feeder data and reaction load are provided.)

[Layout Drawings (Elevator)]



[Escalator]



# Product Specifications

*Do you need to know specifications?*

Model: NEXIEZ-MRL

Enter a keyword (English only) Search

Product specifications - NEXIEZ-MRL

ALL FILES

Download format [English]

Latest version Ver. April 2014

Microsoft Word 438KB PDF 570KB

INDEX Hide

| Section   | Microsoft Word | PDF   | Version         |
|---|----------------|-------|-----------------|
| 1.1 COMPLIANCE TO CODES REGULATIONS AND STANDARDS - 1.2 MATERIALS | 163KB          | 141KB | Ver. April 2014 |
| <b>PART 1 GENERAL</b>   |                |       |                 |
| <b>PART 2 PRODUCT</b>   |                |       |                 |
| 2.1 MAIN SPECIFICATION  | 187KB          | 164KB | Ver. April 2014 |
| 2.2 CONTROL SYSTEM  | 161KB          | 141KB | Ver. April 2014 |
| 2.3 OPERATION   | 167KB          | 148KB | Ver. April 2014 |
| 2.4 FEATURES  | 335KB          | 410KB | Ver. April 2014 |

1. Select a model.
2. The corresponding specifications are displayed below.
3. Select a format from Word or PDF.
4. If you need only a certain section in the file, click here.

5. Click on a title to download the file in HTML format.

## [Product specifications in PDF format]

**MITSUBISHI ELECTRIC CORPORATION**  
2.6 HOISTWAY EQUIPMENT

Changes for the Better  
Quality in Motion

**2.6.1 Guide rails and rail brackets**

2.6.1.1 Tee section guide rails compliant with ISO Standards 7455/1963 (1<sup>st</sup> edition) or equivalent shall be provided for car and counterweight based on car weight, capacity, and all other loads to be imposed.

2.6.1.2 Milled rail clips or sheet metal clips shall be used in mounting the guide rails to the rail brackets.

2.6.1.3 Rail brackets shall be designed to span the distance from the back of the rail to the building support.

**2.6.2 Buffers and buffer supports**

2.6.2.1 Buffers for both car and counterweight shall be oil or spring type and adequately sized.

2.6.2.2 Buffer supports shall be provided to achieve the required height above the pit floor. Access ladders and working platforms, if required, shall be provided by others.

2.6.2.3 Safety switch on oil buffers shall prevent car operation when the buffer is compressed. (Provide the safety switch according to the applied codes/regulations.)

**2.6.3 Hoisting rope and governor rope**

2.6.3.1 Rope shackle rod with an adjusting screw shall be provided at the end of rope hitching part to distribute applied tension equally on each rope. In addition, shackle rod with an extendable spring shall be provided to evenly distribute the rope tension generated while a car is running.

2.6.3.2 The minimum safety factor of hoisting ropes shall be 12 (EN81-1:1998 clause 9.2.2) and that of governor ropes shall be 8 (EN81-1:1998 clause 9.6.2) based on EN81-1:1998 Annex N.

**2.6.4 Final limit switches**

Final limit switches shall be triggered by a cam mounted to the car frame, and be installed at the closest position to the terminal floors.

**2.6.5 Traveling cable**

Traveling cable shall be flat type, 300V pressure-proof PVC cable, and covered with fire and moisture-resistant coatings. Provide with 80 cores, 44 cores and 24 cores the sectional area of 0.75mm<sup>2</sup> per each.

**2.6.6 Counterweight**

2.6.6.1 Counterweight shall be of steel or cast-iron plates with sub weights installed in a steel frame.

2.6.6.2 The frame shall be designed to remain intact against buffer engagement.

2.6.6.3 The sub weights for counterweight shall be securely fixed on the frame to prevent noise and vibration while the counterweight is running.

**2.6.7 Compensation**

Chain type shall be provided as compensation, and adequately compensate weight of hoisting ropes and traveling cables.

**2.6.8 Pit switch**

Pit switch shall be provided in pit to stop a car in an emergency.

Product specification - NEXIEZ-MR  
Version September 2011

Page 37 of 42

# Design Image

Do you want to view an elevator/escalator image?

## Elevators

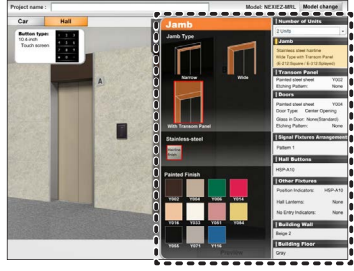


1. Select Elevators.
2. Enter a project name and select a model.
3. Select Car or Hall design.

### Car

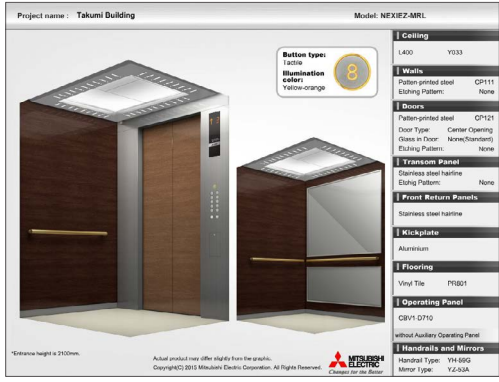


### Hall



4. Click around to find the best match.
5. Click Preview button and print out the image, if necessary.

[Output image]



## Observation Elevators

1. Select Observation Elevators.

2. Enter project name.

3. Click around to find the best match.

4. Click Preview button and print out the image, if necessary.

[Output image]

### Observation Elevator Design Image



**Project name**

---

**Type**

HY05A(Horseshoe) 

**Exterior**

Upper and lower shells: Painted steel sheet (Y116)  
Mullions: Painted steel sheet (Y116)  
Windows: Transparent curved glass  
Decorative lighting: Downlights

**Interior**

Ceiling: Painted steel sheet (Y033)  
Lighting: Fluorescent lighting through circular, milky-white acrylic plate, and downlights  
Wall and doors: Stainless-steel, hairline-finish  
Handrail: Single line of hairline-finished stainless-steel pipe  
Mullions: Stainless-steel, hairline-finish

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

Actual product may differ slightly from the graphic.  
Copyright(C) 2012 Mitsubishi Electric Corporation. All Rights Reserved.




# Escalators

1. Select Escalators.
2. Enter information: code, model and a project name.
3. Click around to find the best match.
4. Click Preview button and print out the image, if necessary.

[Output image]

**Escalator Design Image**  
 Series Z Escalators  
 Project name: undefined  
 Model: ZS  
 Codes: JAPAN  
 Environment: Indoor  
 Applicable Rise: 2203 - 13000 mm



|                             |               |
|-----------------------------|---------------|
| <b>Handrail Color</b>       | No.0001 Black |
| <b>Deck Board Material</b>  | SUS-HL        |
| <b>Skirt Guard Material</b> | SUS-HL        |
| <b>Floor Plate Material</b> | SUS-HL        |
| <b>Others</b>               | None          |

Actual product may differ slightly from the graphic. MITSUBISHI ELECTRIC  
 Copyright(C) 2011 Mitsubishi Electric Corporation. All Rights Reserved. *Changes for the Better*