Moving solutions with safety, reliability and efficiency

Freight Elevators & Automobile Elevators

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Ascenseurs Levage & Manutention (ALM)
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HYUNDAI ELEVATOR INTERNATIONAL SALES & SERVICE NETWORK
Hyundai’s Automobile and Freight elevators are designed using state-of-the-art technology.

Hyundai Elevator Co., Ltd., an affiliate of Hyundai Business Group, has been designing and manufacturing a wide range of automobile and freight elevators, the reliability and durability of which have been well proven through stringent test at the factory and decades-long experience of field engineering.

Automobile elevators are designed to give great convenience to the automobile drivers by reducing the time to find parking spaces which becomes less and less available in a crowded urban life.

A wide range of models of freight elevators are designed to handle from lightweight cargoes to heavy loads such as forklifts.

Both automobile and freight elevators are designed with Hyundai’s state-of-the-art technology such as inverter type Variable Voltage Variable Frequency (VVVF), and a hydraulic type by using hydraulic jack for elevator moving.

### Specific Features

<table>
<thead>
<tr>
<th>General type</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Accurate landing, smooth acceleration and deceleration, comfortable riding, low-noise operation</td>
</tr>
<tr>
<td>- 40% energy saving (compared to conventional AC control system)</td>
</tr>
<tr>
<td>- 40% reduction in building power requirements (compared to conventional AC control system)</td>
</tr>
<tr>
<td>- High reliability with enhanced operation in all respects (All functions are controlled by computer and frequency of machine breakdown rates minimized)</td>
</tr>
<tr>
<td>- Self-checking system built-in inside computer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hydraulic type</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Smaller installation space than traction (rope) elevators requires.</td>
</tr>
<tr>
<td>- Greater advantages for construction design (Because machine rooms can be made anywhere in the building except in the shaft.)</td>
</tr>
<tr>
<td>- Accurate landing and comfortable riding</td>
</tr>
<tr>
<td>- High reliability (If power fails, the car moves down to the bottom floor automatically)</td>
</tr>
<tr>
<td>- Enhanced safety (Safety device cuts off the flow of oil when the descending speed of car exceeds the predeterimined speed)</td>
</tr>
</tbody>
</table>
Single Automatic Operation
The car doesn’t respond to the calls of other floors during the operation, enabling independent operation.

1. Press CALL button at the lobby.
   - The car door opens right away if the car is at the lobby floor.
   - The call will not be registered when “IN USE” lamp on the hall indicator is already turned on.
2. Press car call button on car operating panel for the desired floor after getting on the car.
   - After the door is closed, elevator moves up to the desired floor and the door opens automatically.
3. Be sure to press CLOSE button on hall position indicator after getting out.
   - If you forget pressing CLOSE button, the car doors will be closed automatically within 30 seconds.
4. Use “D K O (Door Keep Open)” key switch when unloading heavy freight.
   - Set “D K O (Door Keep Open)” key switch after unloading all freight.

Note: The selective collective operating system is available.

Automobile Elevators
Single Automatic Operation
The car doesn’t respond to the calls of other floors during the operation, enabling independent operation.

1. Press CALL button at the lobby.
   - The call will not be registered when “IN USE” lamp on the hall indicator is already turned on.
2. When door opens completely, drive your automobile slowly into the cage and stop/place it in the center. Press car call button on car operating panel for the desired floor after entry.
   - After the door is closed, elevator moves up to the desired floor and the door opens automatically.
3. Be sure to press CLOSE button on hall position indicator after getting out.
   - If you forget pressing CLOSE button, car doors will be closed automatically within 30 seconds.

Note: The selective collective operating system is available.
Freight Elevators

Specifications

<table>
<thead>
<tr>
<th>Ceiling</th>
<th>Painted steel sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Car Wall</td>
<td>Painted steel sheet</td>
</tr>
<tr>
<td>Flooring</td>
<td>Checkered steel sheet</td>
</tr>
<tr>
<td>Car Doors</td>
<td>Painted steel sheet</td>
</tr>
<tr>
<td>Lighting</td>
<td>Semi-indirect lighting</td>
</tr>
</tbody>
</table>

Automobile Elevators

Specifications

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<td>-</td>
</tr>
<tr>
<td>Lighting</td>
<td>Semi-indirect lighting</td>
</tr>
</tbody>
</table>

Signal Provisions (Automobile Elevators)

1. Indicator lamp
   - 1) Indicator lamp for entry (Green)
     - When the doors open completely, a vehicle sensor in the cage detects the automobile, the green lamp is turned on. To signal the automobile to make an entry.

2. IN USE lamp (Red)
   - 2) IN USE lamp (Red)
     - When the hall is registered, informing that the elevator is in use. "IN USE" lamp in the hall indicates the position of the cage.

3. Hall position indicator
   - 3) Hall position indicator
     - Hall call buttons and status buttons are available.
Freight Elevators & Automobile Elevators

General Type (2S, 2U, 3U)

Plan of Hoistway & Machine Room

Section of Hoistway

2-PANEL SIDE-OPENING DOORS (2S)

- Minimum floor height: Height x 0.5 + 1000mm
- Minimum entrance height: 2000mm

2-PANEL UP-SLIDING DOORS (2U)

- Height: Entrance
- Maximum entrance height: 2100mm

3-PANEL UP-SLIDING DOORS (3U)

- Height: Entrance
- Maximum entrance height: 2100mm

4-PANEL CENTER OPENING DOORS (2CO)

- Entrance
- Overhead Height

Standard Dimensions & Reactions

<table>
<thead>
<tr>
<th>Model</th>
<th>Speed (m/min)</th>
<th>Door Opening Type</th>
<th>Entrance Width (mm)</th>
<th>Entrance Height (mm)</th>
<th>Internal Width (mm)</th>
<th>Internal Height (mm)</th>
<th>Entrance Type</th>
<th>M/C Room Height (mm)</th>
<th>Machine Room Reaction (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2500-2S</td>
<td>30</td>
<td>2S</td>
<td>2500</td>
<td>5250</td>
<td>2400</td>
<td>3000</td>
<td>Standard</td>
<td>5050</td>
<td>4800</td>
</tr>
<tr>
<td></td>
<td>45</td>
<td></td>
<td>25</td>
<td>3000</td>
<td>2400</td>
<td>3000</td>
<td>Standard</td>
<td>5050</td>
<td>4800</td>
</tr>
<tr>
<td>F3500-2U</td>
<td>30</td>
<td>2U</td>
<td>2500</td>
<td>5250</td>
<td>2400</td>
<td>3000</td>
<td>Standard</td>
<td>5050</td>
<td>4800</td>
</tr>
<tr>
<td></td>
<td>45</td>
<td></td>
<td>25</td>
<td>3000</td>
<td>2400</td>
<td>3000</td>
<td>Standard</td>
<td>5050</td>
<td>4800</td>
</tr>
</tbody>
</table>

Notes:
1. To be consulted by the manufacturer when the loading capacity is over 500kg or the car is non-standard size.
2. The loading capacity should be over 250kg per car minimally.
3. The actual reaction may slightly differ from above dimensions in line with machine beam position.

Freight Elevators & Automobile Elevators

Freight Elevators & Automobile Elevators
Freight Elevators

Hydraulic Type (2S, 2U, 3U)

Plan of Hoistway & Machine Room

<table>
<thead>
<tr>
<th>Section of Hoistway</th>
</tr>
</thead>
</table>

Standard Dimensions & Reactions

<table>
<thead>
<tr>
<th>Model</th>
<th>Speed (m/min)</th>
<th>Clear Opening</th>
<th>Entrance Height</th>
<th>Car</th>
<th>Hoistway</th>
<th>M/C Room</th>
<th>Hitch Beam Reaction (kg)</th>
<th>R1</th>
<th>R2</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF1500-2U</td>
<td>20/30/45</td>
<td>2100</td>
<td>2100</td>
<td>2100</td>
<td>2650</td>
<td>2500</td>
<td>2500</td>
<td>700</td>
<td>800</td>
</tr>
<tr>
<td>HF2000-3U</td>
<td>20/30/45</td>
<td>2500</td>
<td>2550</td>
<td>2550</td>
<td>3150</td>
<td>3050</td>
<td>3050</td>
<td>350</td>
<td>450</td>
</tr>
<tr>
<td>HF2500-3U</td>
<td>20/30/45</td>
<td>3000</td>
<td>3000</td>
<td>3000</td>
<td>3750</td>
<td>3650</td>
<td>3650</td>
<td>370</td>
<td>420</td>
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<tr>
<td>HF3000-2U</td>
<td>20/30/45</td>
<td>3500</td>
<td>3500</td>
<td>3500</td>
<td>4450</td>
<td>4350</td>
<td>4350</td>
<td>430</td>
<td>500</td>
</tr>
<tr>
<td>HF3500-2U</td>
<td>20/30/45</td>
<td>4000</td>
<td>4000</td>
<td>4000</td>
<td>5150</td>
<td>5050</td>
<td>5050</td>
<td>490</td>
<td>600</td>
</tr>
<tr>
<td>HF4000-3U</td>
<td>20/30/45</td>
<td>4500</td>
<td>4500</td>
<td>4500</td>
<td>5850</td>
<td>5750</td>
<td>5750</td>
<td>550</td>
<td>680</td>
</tr>
</tbody>
</table>

Notes:
1. Dimensions are based on upsliding door available for 2-panel side-opening (2S) doors of same capacity.

Automobile Elevators

General Type (2U, 3U)

Plan of Hoistway & Machine Room

<table>
<thead>
<tr>
<th>Section of Hoistway</th>
</tr>
</thead>
</table>

Standard Dimensions & Reactions

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
<th>Speed (m/min)</th>
<th>Clear Opening</th>
<th>Entrance Height</th>
<th>Car</th>
<th>Hoistway</th>
<th>M/C Room</th>
<th>Hitch Beam Reaction (kg)</th>
<th>R1</th>
<th>R2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Type</td>
<td>A2000-2U</td>
<td>20/30/45</td>
<td>2500</td>
<td>2550</td>
<td>2550</td>
<td>3050</td>
<td>3050</td>
<td>3050</td>
<td>350</td>
<td>450</td>
</tr>
<tr>
<td>A2500-2U</td>
<td>2500</td>
<td>2500</td>
<td>2550</td>
<td>2550</td>
<td>3050</td>
<td>3050</td>
<td>3050</td>
<td>350</td>
<td>450</td>
<td></td>
</tr>
<tr>
<td>A3000-2U</td>
<td>3000</td>
<td>3000</td>
<td>3050</td>
<td>3050</td>
<td>3550</td>
<td>3550</td>
<td>3550</td>
<td>350</td>
<td>450</td>
<td></td>
</tr>
<tr>
<td>A3500-2U</td>
<td>3500</td>
<td>3500</td>
<td>3550</td>
<td>3550</td>
<td>4050</td>
<td>4050</td>
<td>4050</td>
<td>400</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td>A4000-3U</td>
<td>4000</td>
<td>4000</td>
<td>4050</td>
<td>4050</td>
<td>4550</td>
<td>4550</td>
<td>4550</td>
<td>450</td>
<td>550</td>
<td></td>
</tr>
<tr>
<td>A4500-3U</td>
<td>4500</td>
<td>4500</td>
<td>4550</td>
<td>4550</td>
<td>5050</td>
<td>5050</td>
<td>5050</td>
<td>500</td>
<td>600</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
1. The car internal dimensions are based on 3-panel side-opening doors of same capacity.
2. When non-standard capacities and dimensions are required, consult Hyundai.
Freight Elevators & Automobile Elevators

**Typical Entrance Layouts**

### 2-PANEL UP-SLIDING DOORS (2U)

- Minimum entrance height (opening height) ≤ 2.1m
- Minimum entrance height ≥ 3.0m

**Notes:**
1. Temperatures should be maintained below 40°C with ventilating fan and/or air conditioner (if necessary) and humidity below 90% with ventilating (Hydraulic hose)
2. The specification of car doors are optional.

### 3-PANEL UP-SLIDING DOORS (3U)

- Minimum entrance height opening height ≤ 2.4m
- Minimum entrance height ≥ 3.0m

**Notes:**
1. The above are minimum size.
2. Consult Hyundai if the travel height is 20m or more.

### Standard Dimensions & Reactions

**Table:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
<th>Speed (m/min)</th>
<th>Clear Opening</th>
<th>Car</th>
<th>Hostway</th>
<th>M/C Room</th>
<th>M/C Room Reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Internal</td>
<td>External</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>JOP</td>
<td>CA - CB</td>
<td>A - B</td>
<td>X - Y</td>
<td>MX - MY</td>
</tr>
<tr>
<td>Standard</td>
<td>HA2000-2U</td>
<td>26, 30, 45</td>
<td>1300</td>
<td>1200</td>
<td>2000</td>
<td>250</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>HA2000-2U</td>
<td>26, 30, 45</td>
<td>1300</td>
<td>1200</td>
<td>2000</td>
<td>250</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>HA2000-2U</td>
<td>26, 30, 45</td>
<td>1300</td>
<td>1200</td>
<td>2000</td>
<td>250</td>
<td>300</td>
</tr>
</tbody>
</table>

**Notes:**
1. The above are minimum size.
2. Consult Hyundai if the travel height is 20m or more.
Works to be Done by Others

The following works are not included in the elevator contract, and shall be done by other contractors in accordance with the Hyundai Elevator’s drawings and applicable codes and regulations. The reference rules shown are from ANSI A17.1 Code.

### Building Work

**Hoistway**
1. Clear plumb hoistway with fire resistant hatch walls as required by the governing codes.(Rule 100.4)
2. 75% beam guards on wall projections, recesses or setbacks over 50mm away on side used for loading or unloading.(Rule 100.4)
3. Venting of the hoistway as required by the governing code or authority.(Rule 100.4)
4. Supports for all rigid nonframing.(Rule 200.4, 200.9 and 303.1)
5. Divide beams, 100mm minimum between at each floor and roof for guide rail bracket supports.(Rule 200.4, 200.9 and 303.1)
6. Recess supports and painting as required accommodable hall button boxes, signal fixtures, etc.
7. All backcasts either outside hoistway walls, or between elevators in hall as required.
8. Dry pit reinforced with normal vertical forces nonframing and buffers.(Rule 303.2 and 100)
9. Hydraulic Type.(Rule 300-6)
10. Cylinder hole, casing under the pit as required and backfilling around the Cylinder casing.(Rule 200.4)
11. Where access to the pit is required by means of the lowest hoistway entrance, vertical iron ladder extending 3000mm minimum still of access door.(Rule 303.1)
12. Entrance walls and finished floor are not to be constructed until after door frames and laths are in place.
13. Door frames to be anarched to walls and properly grouted in place to maintain legal fire rating.
14. Full supports determined herein necessary full hoistway walls for entrance stalls with grouting after walls are set in place.
15. For application as indoor or outdoor observation elevator, a minimum 3.0mm glass enclosure above bottom landing is recommended for safety.
16. For application as outdoor observation elevator, full height glass enclosure is required.

**Machine Room**
1. Enclosed and protected machine room.(Rule 301.1)
2. Access to the machine room and machinery space is required by the governing code or authority.(Rule 100.3)
3. Reinforce concrete machine room slab or girders as specified, which must not be placed over the hoistway until elevator machinery is set in position.(Rule 100.3 for traction elevators)
4. Clear access above eave or trench for drainage if oil and wiring ducts from machine room of machine rooms remote from elevator hoistway.(For Hydraulic Elevators)
5. Cutout through machine room wall for oil line and wiring duct as required by the Hyundai Elevator’s shop drawings.(For Hydraulic Elevators)

**Electrical Work**

**Hoistway**
1. Light outlet for each elevator in center of hoistway for in machine room as indicated by Hyundai Elevator Company.
2. Convergence outlet in light fixture with switch located adjacent to the access door.(Rule 303.1)
3. Wiring and/or air conditioning and emergency service wiring and other emergency service requirements may differ from each country. Consult Hyundai Elevator Company for other local requirements.

**Machine Room**
4. Lighting, convenience outlets, ventilation, heating of machine room and machinery space.(Rule 100.5)
5. Temperature to be maintained between 40°F and 100°F as required for elevator or machinery room.(Rule 200.9)
6. A fused disconnect switch or circuit breaker for each elevator and transformer.(Rule 200.9)
7. Feeder and branch wiring to the controller, including main-line switch and convenience outlets.
8. Suitable power feeder and branch wiring circuits as required for elevator and convenience outlets.
9. Elevator fireman and other emergency service requirements may differ from each country. Consult Hyundai Elevator Company for other local requirements.

**Heat Emission of Machine Room**

- **Q** (kcal/(kW-h))
- **N** Number of cars
- **V** Speed(m/min)
- **F** Factor(40/100 : VVVF)

<table>
<thead>
<tr>
<th>Capacity(kg)</th>
<th>Motor (kW)</th>
<th>N.F.B. Rated Current (A)</th>
<th>Transformer Capacity (kVA)</th>
<th>Power Feeder (mm)</th>
<th>Earth Wire (mm)</th>
<th>Transformer (kVA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5, 10, 15</td>
<td>5, 10, 15</td>
<td>12, 15</td>
<td>64</td>
<td>67</td>
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<td>11.0, 15.0</td>
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<td>10, 6</td>
<td>66</td>
<td>66</td>
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<td>18.5, 22.0</td>
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<td>25, 16</td>
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<td>66</td>
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<td>30.0, 100</td>
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<td>35, 16</td>
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</tbody>
</table>

**Hydraulic Type**

### Electric Power Requirements (by Others)

**General Type**

<table>
<thead>
<tr>
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<th>Motor (kW)</th>
<th>N.F.B. Rated Current (A)</th>
<th>Transformer Capacity (kVA)</th>
<th>Power Feeder (mm)</th>
<th>Earth Wire (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500</td>
<td>20, 30</td>
<td>100, 175</td>
<td>64</td>
<td>6</td>
<td>66</td>
</tr>
<tr>
<td>2000</td>
<td>30, 44</td>
<td>150, 250</td>
<td>72</td>
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<td>66</td>
</tr>
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<td>2500</td>
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<td>150, 250</td>
<td>72</td>
<td>10</td>
<td>66</td>
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<tr>
<td>3000</td>
<td>30, 44</td>
<td>150, 250</td>
<td>72</td>
<td>10</td>
<td>66</td>
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<tr>
<td>3500</td>
<td>30, 44</td>
<td>150, 250</td>
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<td>10</td>
<td>66</td>
</tr>
</tbody>
</table>

**Fire**

<table>
<thead>
<tr>
<th>Capacity(kg)</th>
<th>Motor (kW)</th>
<th>N.F.B. Rated Current (A)</th>
<th>Transformer Capacity (kVA)</th>
<th>Power Feeder (mm)</th>
<th>Earth Wire (mm)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>20, 30</td>
<td>100, 175</td>
<td>64</td>
<td>6</td>
<td>66</td>
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<tr>
<td>2000</td>
<td>30, 44</td>
<td>150, 250</td>
<td>72</td>
<td>10</td>
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<tr>
<td>2500</td>
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<td>150, 250</td>
<td>72</td>
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<tr>
<td>3000</td>
<td>30, 44</td>
<td>150, 250</td>
<td>72</td>
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<td>30, 44</td>
<td>150, 250</td>
<td>72</td>
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<td>66</td>
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</tbody>
</table>

**Auto**

<table>
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<tr>
<th>Capacity(kg)</th>
<th>Motor (kW)</th>
<th>N.F.B. Rated Current (A)</th>
<th>Transformer Capacity (kVA)</th>
<th>Power Feeder (mm)</th>
<th>Earth Wire (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500</td>
<td>20, 30</td>
<td>100, 175</td>
<td>64</td>
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<td>72</td>
<td>10</td>
<td>66</td>
</tr>
</tbody>
</table>

**Notes:**
1. The above power feeder sizes are based on its maximum length 50m. In case the feeder length from the transformer to the elevator machinery is more than 50m, consult Hyundai Elevator Company for special requirements.
2. The feeder sizes are based on using copper conductors and metallic conduit.
3. For power requirements of 3 cars or more, consult Hyundai Elevator Company for special requirements.
4. The heat emission and ventilation of machine room outside dimensions may vary slightly with the machine room size and environmental conditions.
5. Consult Hyundai Elevator Company for special requirements.