Machine Room Less Elevators

HYUNDAI ELEVATOR
Hyundai Elevator sets a new benchmark, moving beyond yesterday’s concept of value. Yesterday’s value which defined an elevator as a machine connecting vertical space, is fading. Hyundai Elevator presents a new standard that makes people feel safe, comfortable, and happy in elevators.

An elevator for the people: The mission of NEW YZER
Elevators that make people happy

Hyundai Elevator has raised these questions continuously: should an elevator be perceived only as a means of transport? Are those convenience and attractive design should be prioritized?

An elevator that serves as a companion to people and reflects their needs: this is the new philosophy and technology embraced by Hyundai Elevator’s NEW YZER.

A new standard of living and true concern for people

Bringing people and elevators closer

Smart Indicator

An industry first, the Smart Indicator delivers a pleasant environment in any conditions by means of an anion double-clean system and ultrasonic pest-repellant function. Its LCD display with an integrated CCTV assures safer elevator operation.

Ultra Slim LED Ceiling Applied to All Products

All products are outfitted with an ultra slim LED ceiling (50 mm), which provides roominess in both height and width inside the elevator.
More convenient, more comfortable
Elevator that understands people

An elevator that values people and space
Efficient horizontal space that allows people to get on and off an elevator with ease, as well as a ceiling height that achieves a pleasing, soothing space: this is the philosophy of space embodied by Hyundai Elevator’s NEW YZER.

High-performance, eco-friendly traction machine
100% manufactured in Korea, the ultra-small NEW YZER traction machine delivers the world’s highest standard of quality. As the essence of modern technology, it promises convenient maintenance by operating on an oil-free traction system that does not need regular oiling of its bearing unit.

Minimized hoistway size
Minimized hoistway size and elimination of a machine room reduce construction costs and incidental expenses to the greatest extent thanks to a shortened construction schedule.

Minimized pit length (1100 mm)
Efficient pit space with a minimized length of 1100 mm has become possible through topside arrangement of the suspension structure.
SMART INDICATOR

Double-Clean System Equipped with Air-Cleaning and Antiseptic Functions
An anion-generating Air Cleaner that works year-round and an indicator combines to produce an all-in-one design. Clean interior air quality is maintained through the complete elimination of undesirable active oxygen and germs. Visual recognition of system operation is easy since Air-Clean, Anion, and Anti-Virus are displayed in sequence.

- Over 100,000 anions are released per 1 cc of air, keeping air clean and fresh at all times.
- More than 99% of harmful substances, including viruses, are removed (after four hours' operation).
- This system achieves eliminating malodorous substances.

Promotion of interior air circulation
Alongside the Smart Indicator and the fan at the rear of the ceiling which is a cover-change type, making it easy to clear away dust and promote the circulation of inside air.

CCTV Security Info Display System
When CCTV is operated, the Smart Indicator displays a CCTV graphic. This prevents crime by alerting people for potential crimes in a closed space.
* CCTV Security Info Display System requires installation of CCTV (optional).

Ultrasonic Pest-Repellant Function
Colorless and odorless ultrasonic waves eradicate mosquitoes and other pests, to create a pleasant interior space, which up to now was hard to achieve due to frequent door-opening.
KEY FEATURES

NEW YZER FAMILY LOOK

The Round Corner, which is adopted in car cage as identity of Hyundai Elevator’s product matches a two-tone black and silver to complete the family look. Gentle sloping in the users’ direction enables convenient operation and perception. The operating panel, indicator, and hall button all share an open-type design, allowing for easier maintenance.

CAR OPERATING PANEL / INDICATOR / HALL BUTTON

A disabled-accessible car operating panel is finished with neat, easy-to-read buttons employing the latest design elements. Its user-friendly design allows disabled users to intuitively recognize the floor they selected.

LED CEILING

Ultra Slim LED Ceiling

Eco-friendly LED ceiling provides higher, roomier space and reduces eye fatigue.

- Higher ceiling offers a more spacious and pleasant interior space.
- Reduced power consumption lowers maintenance costs and brighter interior space eases eye fatigue.

NEW YZER

PI-L700 (Option)
PI-D700
PI-D800
PI-L800 (Option)

Ultra Slim LED Ceiling (<50 mm) Applied to All Products

- Higher ceiling offers a more spacious and pleasant interior space.
- Reduced power consumption lowers maintenance costs and brighter interior space eases eye fatigue.

Car Operating Panel for Disabled persons

Hall Button

HIP-D64
HIP-LA64 (Option)
HIP-B64
HIP-QB64
HIP-LB64 (Option)
HIP-B64

HIP-L700 (Option)
HIP-D700
HIP-L800 (Option)
KEY FEATURES & OPTIONS

HANDRAIL

Anti-Virus Handrail
Handrails are exposed to many germs through constant touching, but the use of antimicrobial materials protects users from harmful viruses.

Virus-Resistant Materials
The safest, most convenient handrails employ the latest ergonomic design and motion analysis as well as antimicrobial materials.
World’s First Touchless Foot Button
Hyundai Elevator obtained a patent on touchless foot button to enhance users convenience. It allows people who are holding something in their hands or are unable to use their arms to operate the elevator through foot movement.

IBS System (Card key)
It enables effective security and crime prevention by limiting entry/exit by outsiders.

Black Box-Type CCTV
CCTV camera records all elevator activity including passengers, ensuring security control on a real-time basis.

Multi-Beam Door Safety Device
Multibeam sensor detects passenger movement and automatically opens the door, helping prevent accidents.
Design that blends user preferences with cutting-edge sensitivity

**An elevator with a sensitive touch**

**Sensitive elevator that interacts with people**

Hyundai Elevator places top priority on users’ preferences because it considers an elevator more than a machine for moving people.

Harmonizing technology with artistry to achieve the perfect blend of beauty and comfort: this is the design philosophy behind Hyundai Elevator’s NEW YZER.

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**Interior Design That Embodies Hyundai Elevator’s Unique Product Design**

The Round Corner, representing Hyundai Elevator’s design philosophy, takes passenger safety into account while promoting a relaxing mood. The Round Corner presented by NEW YZER is applied to the walls, indicator, buttons, operating panel board, and other car features. Hyundai Elevator’s unique, universal design places a priority on safe and convenient elevator use.
NEW YZER BLACK (NYS-BLACK)

NEW YZER’s functional and contemporary design are suitable for all kinds of interiors. With its modern two-tone black and silver, it evokes a luxurious and sophisticated feel.

Design Collection

<table>
<thead>
<tr>
<th>CAR DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceiling</td>
</tr>
<tr>
<td>- CD199B / Art-Metal Silver (AM01), LED Bar-Type Module (P222), Ceiling Panel (Painted Steel P271)</td>
</tr>
<tr>
<td>Car Wall</td>
</tr>
<tr>
<td>- Art-Metal Silver (AM08), NST Titanium Black Embossed Beads</td>
</tr>
<tr>
<td>Transom Panel</td>
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<tr>
<td>- Art-Metal Silver (AM08)</td>
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<tr>
<td>Handrail</td>
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<tr>
<td>- YTO / Vira-Resistant Single Bar (Dark Gray) / Aluminum Bracket</td>
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<tr>
<td>Door</td>
</tr>
<tr>
<td>- Art-Metal Silver (AM08)</td>
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<tr>
<td>Hall Button</td>
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<tr>
<td>- HPB-A64</td>
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<tr>
<td>Indicator</td>
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<tr>
<td>- PI-D700 / Smart Indicator</td>
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</tbody>
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<tr>
<th>ENTRANCE</th>
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<tbody>
<tr>
<td>201 Type</td>
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<tr>
<td>- NST Hairline / 201 Type</td>
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<tr>
<td>Transom Panel</td>
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<tr>
<td>- Art-Metal Silver (AM08)</td>
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<tr>
<td>Door</td>
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<td>- Art-Metal Silver (AM08)</td>
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<td>- HPB-A64</td>
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<tr>
<td>Indicator</td>
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<tr>
<td>- PI-D700</td>
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<td>100 Type</td>
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<td>- ST Hairline / 100 Type</td>
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<tr>
<td>Door</td>
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<tr>
<td>- Art-Metal Silver (AM08)</td>
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<tr>
<td>Hall Button</td>
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<td>- HPB-D64</td>
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<td>50 Type</td>
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<tr>
<td>- NST Hairline / 50 Type</td>
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<tr>
<td>Door</td>
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<tr>
<td>- Art-Metal Silver (AM08)</td>
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<tr>
<td>Hall Button</td>
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<tr>
<td>- HPB-D64</td>
</tr>
</tbody>
</table>
This design has a refined, classical design that imparts a regal ambiance. It goes well with elegant and dignified building interiors. Its color as Urban classic style adds to its elegance.

**Design Collection**

**NEW YZER BRONZE (NYS-BRONZE)**

CAR DESIGN

- **Ceiling**: CD199A (Aluminium/Silver), PC ABS, LED Lighting Ceiling Panel (Painted Silver/P215)
- **Car Wall**: Art-Metal Bronze (AM07), NST Embossed Brass
- **Transom Panel**: Art-Metal Bronze (AM01)
- **Handrail**: TF18/20/25 Resistant Single Bar Wood Pattern, Aluminum Bracket
- **Car Door**: Art-Metal Bronze (AM07)
- **Car Operating Panel**: OPP-N346
- **Flooring**: Deco Tile (DTW2952)
- **Indicator**: PI-L210 LCD Indicator
- **Anion Air Cleaner**: Anti-Metal Bronze (AM07)
- **Ultrasonic Pest Repellant**: Anti-Metal Bronze (AM07)

ENTRANCE

- **201 Type**
  - Jamb: NST Hairline / 201 Type
  - Transom Panel: Art-Metal Bronze (AM01)
  - Door: Art-Metal Bronze (AM07)
  - Hall Button: HPB AA6
  - Indicator: PI-L210 LCD Option
- **100 Type**
  - Jamb: NST Hairline / 100 Type
  - Door: Art-Metal Bronze (AM07)
  - Hall Button: HP-DAG LCD Option
- **50 Type**
  - Jamb: NST Hairline / 50 Type
  - Door: Art-Metal Bronze (AM07)
  - Hall Button: HP-DAG LCD Option
Its modern design featuring an ornamental pattern makes the space more alluring and eye-catching. The champagne gold color which adds a sense of luxury and refinement is set off by the rhythmic floral pattern inspired by nature, to create a lively yet noble atmosphere.
Design Collection

**NEW YZER SILVER (NYS-SILVER)**

This NEW YZER matches well with a modern interior design thanks to its light, airy feel. Its young and casual look enhances a building’s exquisite beauty.

**CAR DESIGN**

- **Ceiling**: CD111A / Art-Metal Silver (AM08), LED Bar-Type Module [P022], Ceiling Panel [Painted Steel P024]
- **Car Wall**: Art-Metal Silver (AM01)
- **Transom Panel**: Art-Metal Silver (AM01)
- **Handrail**: TFG / Virus-Resistant Single Bar (Dark Grey), Aluminum Bracket
- **Car Door**: Art-Metal Silver (AM01)
- **Car Operating Panel**: OPP-364
- **Flooring**: Deco Tile [DTE211, DTE212]
- **Indicator**: PI-L210 / Smart Indicator, Anion Air Cleaner, Ultrasonic Pest Repellant

**ENTRANCE**

- **201 Type**: Jamb / NST Hairline / 201 Type
  - Transom Panel / Art-Metal Silver (AM08)
  - Door / Art-Metal Silver (AM08)
  - Hall Button / HPB - A64
  - Indicator / PI-L700 (LCD Option)
- **100 Type**: Jamb / NST Hairline / 100 Type
  - Transom Panel / Art-Metal Silver (AM08)
  - Door / Art-Metal Silver (AM08)
  - Hall Button / HIP - DA64 (LCD Option)
- **50 Type**: Jamb / NST Hairline / 50 Type
  - Transom Panel / Art-Metal Silver (AM08)
  - Door / Art-Metal Silver (AM08)
  - Hall Button / HIP - DA64 (LCD Option)
Design Collection

NEW YZER DELUXE BLACK (NYD-BLACK)

With a design that effortlessly unites sophistication with modernity, this exclusive version of NEW YZER imparts a clear sense of prestige. Its deluxe black interior arouses a deep impression, giving it a classy touch.

CAR DESIGN

Ceiling
- CD399A / Barrisol, LED Lighting
- Lighting Unit [Painted Steel P022], Ceiling Panel [Painted Steel P161]

Car Wall
- Art-Metal Black (AM07), NST Emboss Beads, Mirror

Transom Panel
- Mirror

Handrail
- 1LB/Virus-Resistant Bar [Metallic Black], Aluminum Bracket, LED Lighting

Car Door
- Art-Metal Black (AM07)

Car Operating Panel
- OPP-N464 / Mirror

Flooring
- Deco Tile [DT2621, DT4257]

Indicator
- PI-L210 / Smart Indicator
- Anion Air Cleaner, Ultrasonic Pest Repellant

ENTRANCE

201 Type
- Jamb
- NST Hairline / 201 Type

Transom Panel
- Art-Metal Black (AM07)

Doors
- Glass Steel Door [GDA-A7BL]

Hall/Buttons
- HP-BS64

Indicator
- PI-L600

100 Type
- Jamb
- NST Hairline / 100 Type

Doors
- Art-Metal Black (AM07)

Hall/Buttons
- HP-LB64

50 Type
- Jamb
- NST Hairline / 50 Type

Doors
- Art-Metal Black (AM07)

Hall/Buttons
- HP-LB64
This high-end NEWYZER creates an aura of exquisite handiwork that goes well with a chic, classy interior design. Its deluxe style, based on time-honored craftsmanship, arouses a sense of elegance and grace that one seldom encounters.
In 1999, Hyundai Elevator introduced the YZER, Korea’s first MRL (Machine Room Less) elevator. In 2015, the company rewrote MRL history with the introduction of the NEW YZER. By minimizing hoistway size, the NEW YZER reduces spatial needs while increasing customer value.

Enhanced Safety through the Application of International Standards
- Guaranteed safe operation by using ropes that meet international standards
- Ensuring safety by adopting a safety standard of at least 16 even when using 6 mm rope

Simple Installation, Fast Delivery
- Application of rail mounting-type traction system
  - Easy to set up because beam sleeve installation at top of the hoistway is not necessary
  - 20% shorter installation period
- Not necessary to build footholds at the top and bottom of the hoistway
  - Simplified process through the use of jigs for exclusions use

Improved safety and operating efficiency
- High-performance permanent magnetic synchronous motor made in Korea
- Energy-saving
- Reduced door noise and lower maintenance costs
- Smooth and fast operating

Less burden on construction design and lower construction costs
- Minimum hoistway size
- Minimum pit depth (1100 mm)
- 12.5% reduction in hoistway (1000 kg capacity elevator)
- 400 mm reduction in depth

Easier maintenance and improved customer safety
- A high-performance, eco-friendly traction machine with a proven track record
- Oil-free traction system not requiring regular oiling of the bearing unit
- Easier to maintain because on-site brake adjustments are not necessary
- World-leading quality through direct manufacturing in Korea using proprietary technology
- Application of DNV, CE, TÜV and CSA-certified system

Notes:
1. The lighting of hoistway should be installed less than 500 mm from above the ceiling of hoistway and within 500 mm above the bottom of the pit (By others)
2. Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner (if necessary), and humidity below 10%
Technical Data

### Standard Dimensions and Reactions

<table>
<thead>
<tr>
<th>Speed</th>
<th>Capacity</th>
<th>Opening Type</th>
<th>Clear Opening</th>
<th>Car Size</th>
<th>Hoistway Size</th>
<th>Control Panel Box</th>
<th>PIT Reaction (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Persons</td>
<td>Kg</td>
<td>GA CB</td>
<td>X Y</td>
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<td></td>
<td>8</td>
<td>550</td>
<td>800</td>
<td>1200 x 1150</td>
<td>2500 x 1500</td>
<td>6.0</td>
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<td></td>
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<td>1200 x 1200</td>
<td>2500 x 1500</td>
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<td>2600 x 2500</td>
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</tbody>
</table>

*For dimensions other than standard specifications, please contact us.*

### Building Work

#### 1. Hoistway

- 1.0 m/s: The double entrance type can be used in certain cases only. For inquiries about hoistway size, please consult with us.
- 1.75 m/s: Contact us for inquiries.

#### Other Contractors

- Power supply system construction that maintains the line voltage fluctuation of a power-distribution source and a light within the range of ±5% to ±10% and within ±2% respectively.
- Piping and wiring for outlets used for pit inspection lighting
- Power supply for construction and test operation during installation (at no cost)
- Piping and wiring for an emergency call apparatus between the elevator control unit and the central control room/security office (electric wire specifications: per elevator unit, UTP 0.5 mm²)
- If a steel frame-structured hoistway is set up, please contact us for hoistway planning and other details.

#### Electrical Work

- Electrical control system construction that maintains the line voltage fluctuation of a power-distribution source and a light within the range of ±5% to ±10% and within ±2% respectively.

### Power Supply Plan

<table>
<thead>
<tr>
<th>Load (kW)</th>
<th>Speed (m/s)</th>
<th>Motor/Capacity</th>
<th>MCBB Capacity</th>
<th>Power Supply</th>
<th>Power Cable</th>
<th>Earth Wire</th>
<th>Starting Power</th>
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</thead>
<tbody>
<tr>
<td>0.5</td>
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</tbody>
</table>

*For other applicable dimensions, please consult with us. The above hoistway dimensions represent minimum requirements. In the event of a discrepancy in construction, demolition and rebuilding shall be performed by other contractors. For inquiries, please consult with us. The double entrance type can be used in certain cases only. For inquiries about hoistway size, please consult with us. Power supply system construction that maintains the line voltage fluctuation of a power-distribution source and a light within the range of ±5% to ±10% and within ±2% respectively. Piping and wiring for outlets used for pit inspection lighting. Power supply for construction and test operation during installation (at no cost). Piping and wiring for an emergency call apparatus between the elevator control unit and the central control room/security office (electric wire specifications: per elevator unit, UTP 0.5 mm²).*