

A photograph of a modern glass elevator with a stainless steel handrail, set against a backdrop of a city skyline at dusk. The elevator is partially open, revealing a brightly lit interior with a wooden wall and a ceiling light fixture. The city skyline in the background features several tall skyscrapers, some of which are illuminated with lights. The sky is a deep blue with some light clouds. The overall scene is a high-angle shot looking down into the elevator and out over the city.

HITACHI
Inspire the Next

UAG
Machine room-less elevator

UAG

No machine room means the elevator uses less space and energy

- **Space-saving elevator**

UAG has achieved “machine room-less-ness” and the space saved can be utilized effectively, thus, maximising rentable space and reducing construction costs for the customer.

- **Energy-saving elevator**

UAG adopted a gear-less traction machine and the latest Insulated Gate Bipolar Transistor (IGBT) technology to reduce the capacity of the motor and other electrical equipment, resulting in substantial savings in energy costs.



The overhead dimensions have been reduced by using an under-slung mechanism.



The slim control panel has been developed which can be installed within the elevator hoistway.

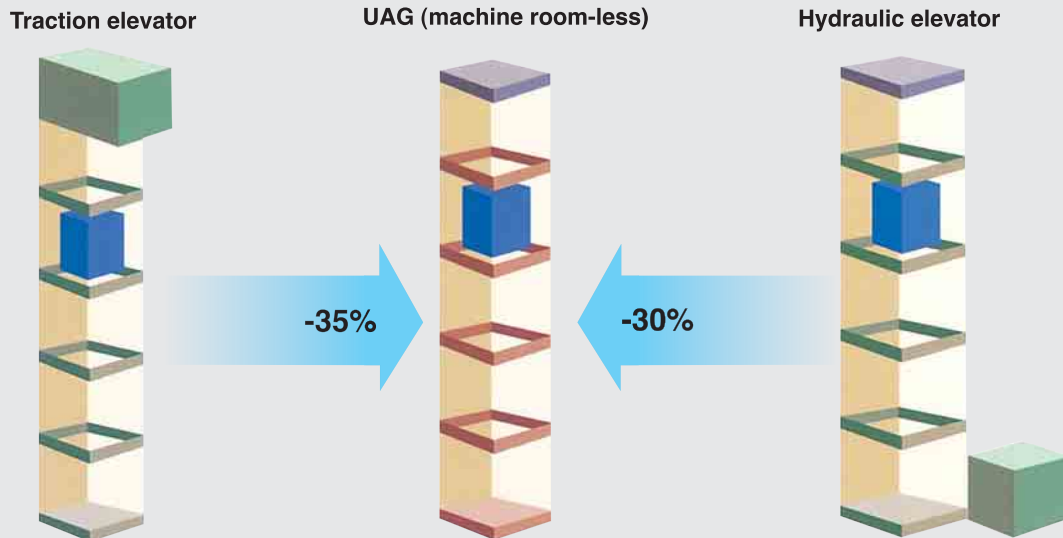


The slim type gear-less machine has been located at the side of the elevator hoistway.



Comparison with conventional traction and hydraulic elevator

Floor space reduction



Location	Traction elevator	UAG	Hydraulic elevator
Hoistway space of all floors	16.3 m ²	16.3 m ²	19.0 m ²
Machine room floor space	9.1 m ²	0 m ²	4.6 m ²
Total floor space	25.4 m ²	16.3 m ²	23.6 m ²

Based on 600 kg, 60 m/min, 5 stops (Hitachi model)

Electrical components	Traction elevator	UAG	Hydraulic elevator
Motor capacity (KW)	5.5	3.7	22
Transformer capacity (KVA)	7.0	6	23

Based on 600 kg, 60 m/min, 5 stops (Hitachi model)

Greater ability to utilise the floor area

UAG allows the floor space to be used more effectively.

Provide a comfortable ride

UAG provides a quiet and comfortable ride using gear-less traction machine and IGBT inverter technology.

Longer travel height

UAG features a longer travel height unlike hydraulic elevators, which are limited to 21 m.*

* Based on Hitachi Model

Elegant designs to suit any building interior

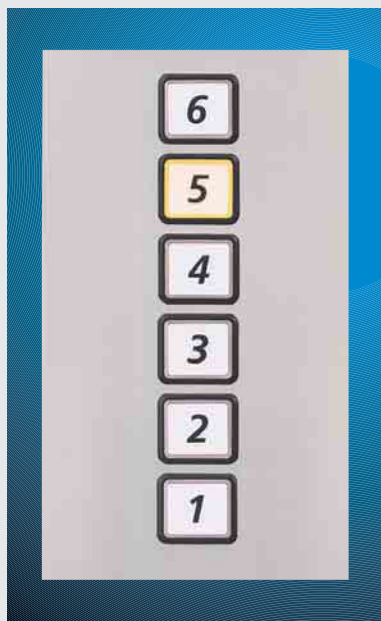
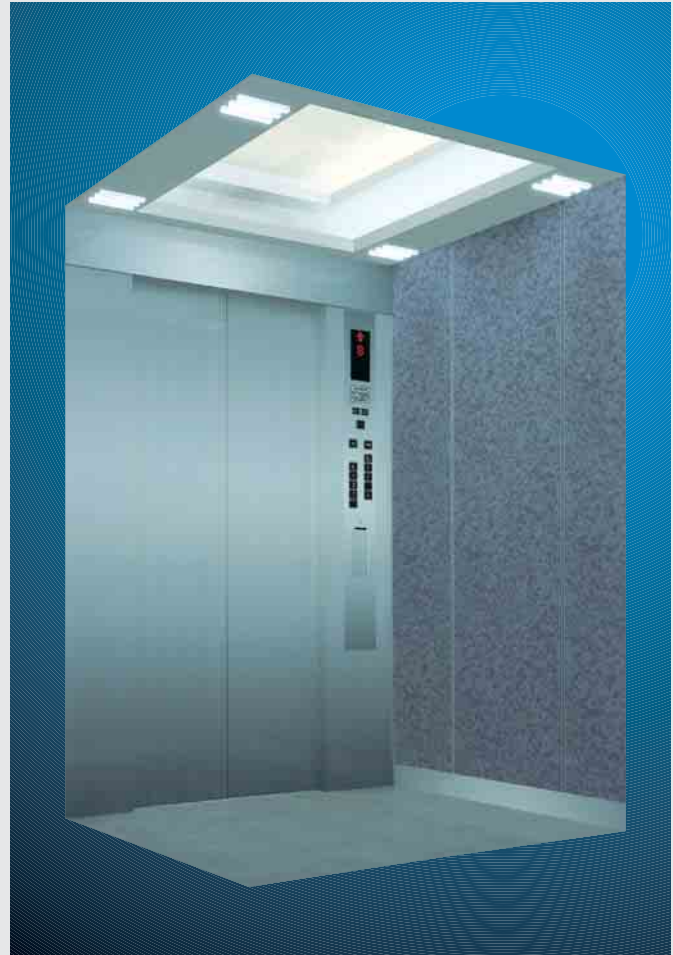
Lasting designs which fit diversified construction ideas based on a design concept called “neutral modern”.

Wide variety of ceiling designs

The wide variety of lighting designs permits the selection of optimum car interior brightness and light quality that gives the desired image to the car interior.

Large in-car indicator

Car indicator, located on the stainless steel front return panel, features a large and high contrast digital display incorporated with light dimming function and audio “beeping” sound upon floor display changes.



Ease of use has been reviewed from universal design

Buttons are arranged so that they can be accessed easily. The interphone and call buttons on the main vertical operating panel are installed 1500 mm above the floor, a height even children can reach.

Floor button flashing function

The destination floor button flashes when the car approaches the destination floor.

Large buttons

Buttons on the operating panel has a high contrast which can be read clearly even when the buttons are not lit.

CS

CS-101S Ceiling design (basic)

Ceiling

Center: Milky white acrylic
 Surrounding: Painted sheet steel
 Lighting: Fluorescent
 Height (from floor): 2300 mm

Car walls (3 sides)

Painted sheet steel

Front return panels/car door/transom panel

Stainless steel hairline finish

Kickplate

Stainless steel hairline finish

Flooring

Vinyl tile

Door sill

Extruded hard aluminum

Car position indicator

LED dot-matrix type incorporated into
 car operating panel

Operating panel

Faceplate: Stainless steel hairline finish

Ventilation

Air blown through ceiling duct



DX



Car walls (3 sides)

Laminated plastic sheet with stainless steel hairline trim

Front return panels/car door/transom panel

Stainless steel hairline finish

Kickplate

Stainless steel hairline finish

Flooring

Vinyl tile

Door sill

Extruded hard aluminum

Car position indicator

LED dot-matrix type incorporated into car operating panel

Operating panel

Faceplate: Stainless steel hairline finish

Ventilation

Air blown through ceiling duct



DX-12S Ceiling design (option)

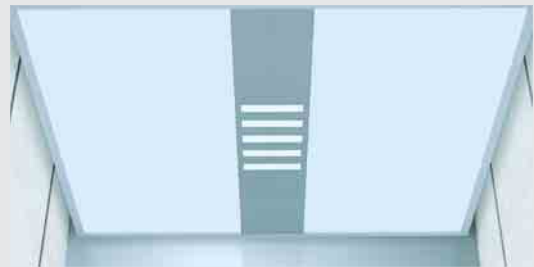
Center: Painted sheet steel

Both sides: Painted aluminum with recess

Ceiling trim: Anodized aluminum

Lighting: Fluorescent

Height (from floor): 2250 mm



DX-201S Ceiling design (option)

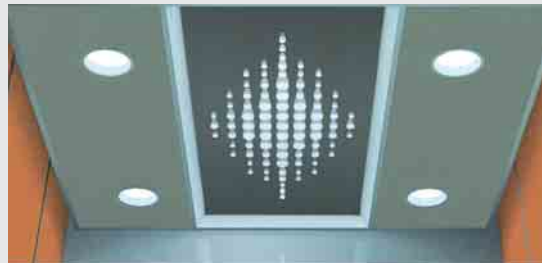
Center: Painted sheet steel

Both sides: Milky white acrylic

Ceiling trim: Anodized aluminum

Lighting: Fluorescent

Height (from floor): 2250 mm



DX-23S Ceiling design (option)

Center: Half mirror

Both sides: Painted aluminum with recess

Ceiling trim: Anodized aluminum

Lighting: Fluorescent

Height (from floor): 2250 mm

SL / EX



Car walls (3 sides)

Laminated plastic sheet with stainless steel hairline trim

Front return panels/car door/transom panel

Stainless steel hairline finish

Kickplate

Stainless steel hairline finish

Flooring

Vinyl tile

Door sill

Extruded hard aluminum

Car position indicator

LED dot-matrix type incorporated into car operating panel

Operating panel

Faceplate: Stainless steel hairline finish

Ventilation

Air blown through ceiling duct



SL-5S Ceiling design (option)

Center: Curved white acrylic with printed pattern
Both sides: Painted sheet steel with punched holes
Ceiling trim: Anodized aluminum
Lighting: Fluorescent
Height (from floor): 2250 mm



EX-32S Ceiling design (option)

(Applicable for car loading of 600 kg and more)

Upper portion: Painted sheet steel (with escape hatch)
Other portion: Painted sheet steel
Lighting: Fluorescent
Height (from floor): Upper: 2550 mm
Lower: 2250 mm



EX-403S Ceiling design (option)

(Applicable for car loading of 600 kg and more)

Center: Milky white acrylic
Center decoration: Painted sheet steel
Surrounding: Painted sheet steel (with acrylic lens)
Lighting: Fluorescent
Height (from floor): Upper: 2375 mm
Lower: 2250 mm

Note: Colors reproduced here may vary slightly from the actual.

Variety of entrance



Entrance (basic)

Jamb:
AS-1X (narrow) type,
Painted sheet steel (width 50 mm)

Doors:
Painted sheet steel

Sill:
Extruded hard aluminum



Entrance (option)

Jamb:
TL-2X (wide) type with
transom

Transom:
Painted sheet steel

Jamb Frame:
Stainless steel hairline finish

Doors:
Painted sheet steel

Sill:
Extruded hard aluminum



Entrance (option)

Jamb:
AS-1X (narrow) type
without transom, stainless
steel mirror finish

Doors:
Stainless steel mirror
etched finish

Sill:
Extruded hard aluminum



Entrance (option)

Jamb:
TL-2X (wide) type with
transom

Transom:
Stainless steel hairline
etched finish

Jamb Frame:
Stainless steel hairline
finish

Doors:
Stainless steel hairline
etched finish

Sill:
Extruded hard aluminum



Entrance (option)

Jamb:
TS-1X (wide) type without
transom, painted sheet
steel

Doors:
Painted sheet steel

Sill:
Extruded hard aluminum

Operating panels and indicators (basic)

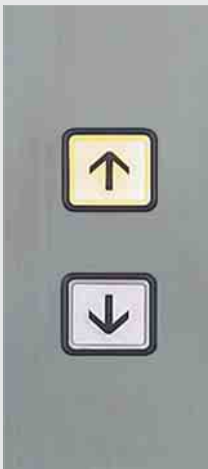
Entrance



- Direction lamp
- Hall indicator (Character height 28 mm)

- Hall button

Hall button & indicator (VSDX-A05-5)



Hall button (BL-A05-5)

Car



- Car position indicator

- Interphone

- Interphone call button

- Door open/close button

- Floor button (with register lamp)

- Switch box

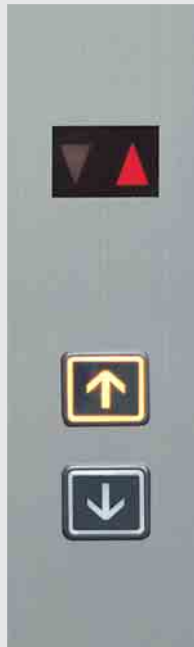
Operating panel (OPS-A05-5)

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Entrance

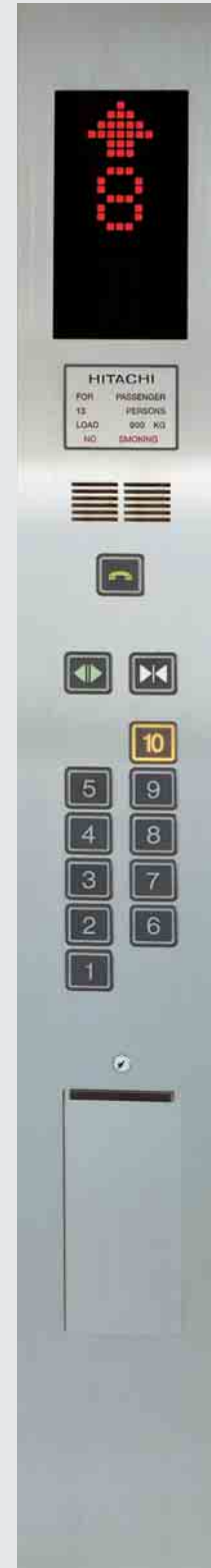


Hall button & indicator (VSDX-B95)



Hall button (BLD-B95)

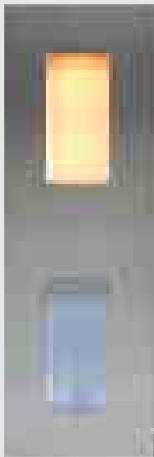
Car



Operating panel (OPS-B95)

Operating panels and indicators (option)

Entrance



Hall lantern (VLS-115)



Hall lantern (HLS-025S)



Hall lantern (VLS-90S)

When group supervisory control system is employed, hall lanterns are provided as a standard feature.



Hall button & indicator (VSDX-A98-1)



Hall indicator (HSDX)



Hall button (BL-A98-1)

Car



Operating panel (OPS-A98-1)

List of designs/finishes

	Items	Design/finishes	Basic : ●	Option : ○
Car design	Ceiling	Basic (CS-101S)	●	
		Deluxe series (DX-12S, DX-201S, DX-23S, SL-5S)		○
		Excellent series (EX-32S, EX-403S) (The ceiling of the EX series shall be applied to car loading of 600 kg and more)		○
	Car wall (3 sides)	Painted sheet steel	●	
		Laminated plastic sheet with stainless steel hairline trim		○
		Stainless steel hairline finish		○
		Stainless steel hairline etched finish (Hitachi standard pattern)		○
	Front return panel	Stainless steel hairline finish	●	
		Stainless steel hairline etched finish (Hitachi standard pattern)		○
		Stainless steel mirror finish		○
	Car door	Stainless steel hairline finish	●	
		Stainless steel hairline etched finish (Hitachi standard pattern)		○
		Stainless steel mirror finish		○
	Kickplate (3 sides)	Stainless steel hairline finish	●	
	Transom panel	Stainless steel hairline finish	●	
		Stainless steel hairline etched finish (Hitachi standard pattern)		○
		Stainless steel mirror finish		○
	Sill	Extruded hard aluminum	●	
	Operating panel face-plate	Stainless steel hairline finish	●	
Entrance	Jamb	Narrow: Painted sheet steel	●	
		Wide: Painted sheet steel		○
		Stainless steel hairline finish		○
		Stainless steel mirror finish		○
	Sill	Extruded hard aluminum	●	
	Door	Painted sheet steel	●	
		Stainless steel hairline finish		○
Stainless steel hairline etched finish (Hitachi standard pattern)			○	

Research and Development

Excellence and flexibility in design at manufacturing plant in Singapore



This modern manufacturing plant in Singapore boasts a complete team of local and Japanese engineers geared towards providing maximum flexibility in design and manufacturing to suit the customer requirements.

High accuracy and efficiency in planning of equipment layout is made possible by the most advanced CAD system.

Equipment is made to the highest standard of quality and reliability with modern CNC machinery.

An integrated engineering system - from development, to design and production



Head office, research centers and plants work closely together to develop new technologies

Staff throughout the company works together as one team to conduct research and develop technologies.

High performance simulator enhances overall elevator system efficiency

A high performance simulator is utilized for all stages of elevator development, from planning through system design. Planning, research and development are carried out according to the results of this statistical analysis.

Cutting-edge CAD/CAM systems

The latest in CAD/CAM systems help us carry out elevator layout and various other design and production steps more quickly and efficiently.



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