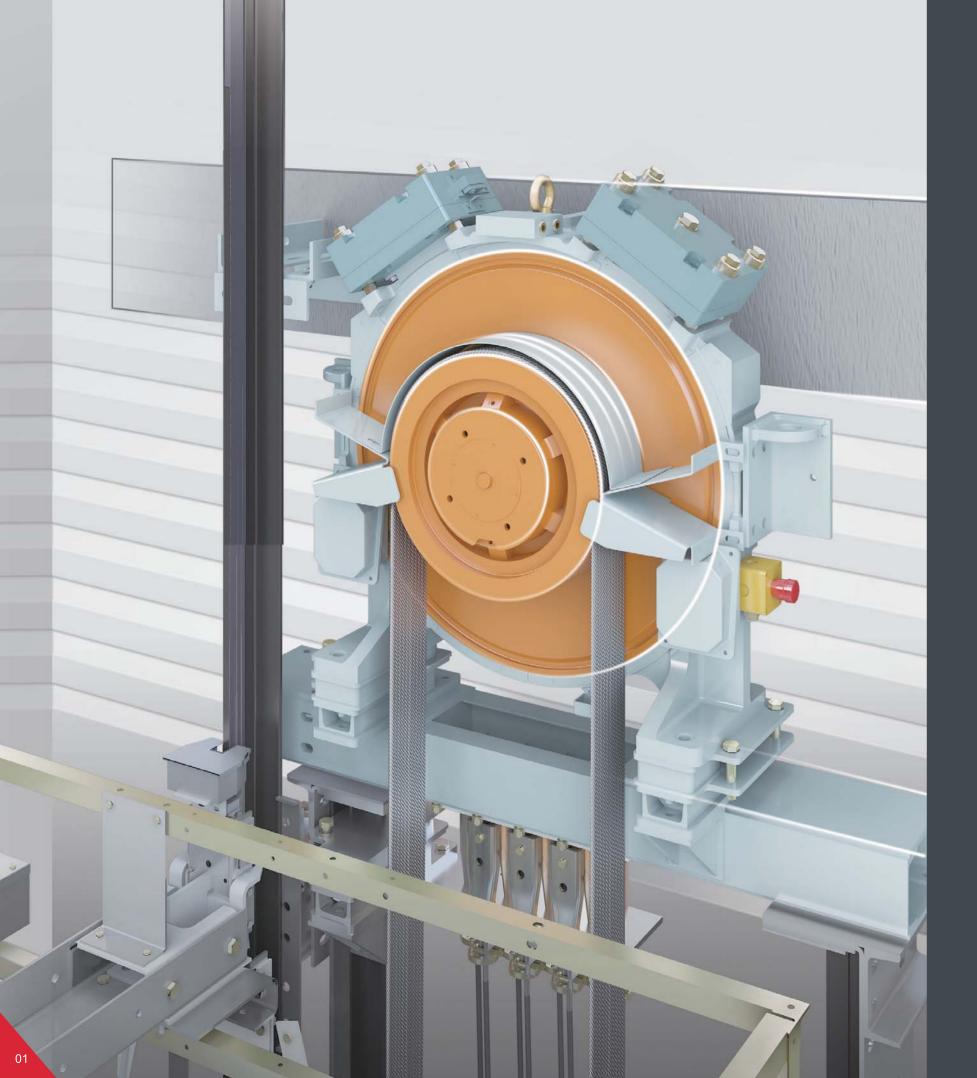


Contact Address:

The information in this catalogue is subject to change without notice. The information and diagram in this catalogue reflect the technical feature and configuration of the elevator model at press time (refer to the version number). In line with the principle of continuous development of products, our company reserves the right to change the selection of product technical parameters and colour at any time. The existing image technology cannot accurately reproduce the elevator component structure and decoration colour. Therefore, this catalogue only provides general information, not as a contract document. The specific configuration parameters are subject to the formal agreement.

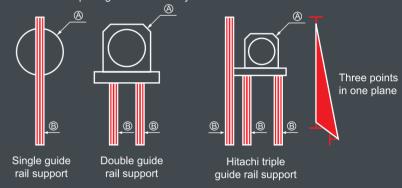
If you need detailed information, please contact us.



Self-Supporting Structure and Anti-Quake Design

01 Self-Supporting Traction Machine

The traction machine is supported by three guide rails directly at the top of the hoistway. It is not necessary for the building contractor to reserve support beams or installation openings in the hoistway walls.



Note: Part (A) is traction machine.
Part (B) is guide rail.

02 Anti-Quake Design

The traction machine is equipped with an anti-toppling device which can prevent the traction machine from falling in case of an earthquake. In addition, the anti-dropout design is also adopted for the counterweight and car frame. These designs reduce the impact of an earthquake and protect the passengers.

Traction Machine Safety and Comfort

- 01 High Braking Torque
 - The tractive capacity is designed to Hitachi standards which exceeds the industry standards to ensure that the elevator runs more reliably;
 - The braking torque is designed to Hitachi standards which is significantly higher than industry standards to ensure maximum safety and reliability;
 - The brake is subject to rigorous testing conducted by Hitachi to ensure safety, reliability and high performance for long-term operation.
- 02 Motor Temperature Rise Control

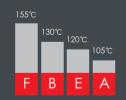
The temperature of the motor rises at a slower rate as compared to other permanent magnet synchronous motors available in the market, through Hitachi temperature control technology. Lifespan of the motor can be extended by reducing the common risks of malfunction caused by overheating motors.

03 Riding Comfort

The effects of the vibration from the motor and guide rail is stabilized through the highly efficient dampers for the traction machine to provide a comfortable riding experience for the passengers.

04 Class-F Insulation of Motor

The motor is designed with industry leading heat resistant technology which can withstand extremely high temperature of up to 155°C. It is classified as Class-F, the highest rating of insulation in the industry.



05 Minimal Motor Torque Pulsation

The low torque ripple of the motor enhances ride quality.

Note: The "industry standards" mentioned above refers to GB standards

Representative Patent Design

01 Separable Traction Sheave Design

The unique separable traction rope sheave design reduces the maintenance labour time and maintenance cost of motor.



02 Higher Rotation Accuracy

The traction machine of LCA elevator adopts taper roller bearings characterized by increased bearing capacity, longer lifespan and higher rotation accuracy. With the taper roller bearings, the rope-groove vibration is restricted to 1/3 of the value specified by the industry standards, enhancing the riding comfort of the elevator.

03 Magnet Steels Dropout-Proofing Patent of the Motor

As compared with conventional practice to fix magnet steel with adhesion agent, the patented holding-down mechanism designed by Hitachi secures the magnet steels onto the rotor, avoiding dropout of magnet steel caused by failure of the adhesion agent.



Note: The "industry standards" mentioned above refers to GB standards.

3

Intelligent Door System

01 Intelligent Multi-Beam Protection

Auto energy-saving

It can judge whether the elevator is unoccupied. When the elevator is unoccupied, the multi-beam will be powered off so as to reduce the energy consumption and extend the lifespan of multi-beam.

Auto detection

It can judge the specific location of multi-beam malfunction and provide reference for quick rectification.

Automatic shielding

If a single point of the multi-beam is obstructed or damaged, the system will shield the bad point, record the fault and then close the door normally on the premise of safety.

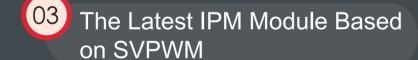


02 High-Performance Processor

High-performance processor(32-bit DSP) serves as kernel control in LCA elevator. The four-layer control board is provided with high interference eliminating features and the highly-integrated module technology is adopted in the control system. These features completely improve the response speed and reliability of the control system.



Note: 32-bit DSP processo



Double closed-loop vector(current and speed) control method which is based on SVPWM tuning control technology and vector control algorithm, is adopted. The latest IPM module serves as the inverter power module. As a result, door opening/closing operations are smooth and with low noise.



04 Intelligent Features

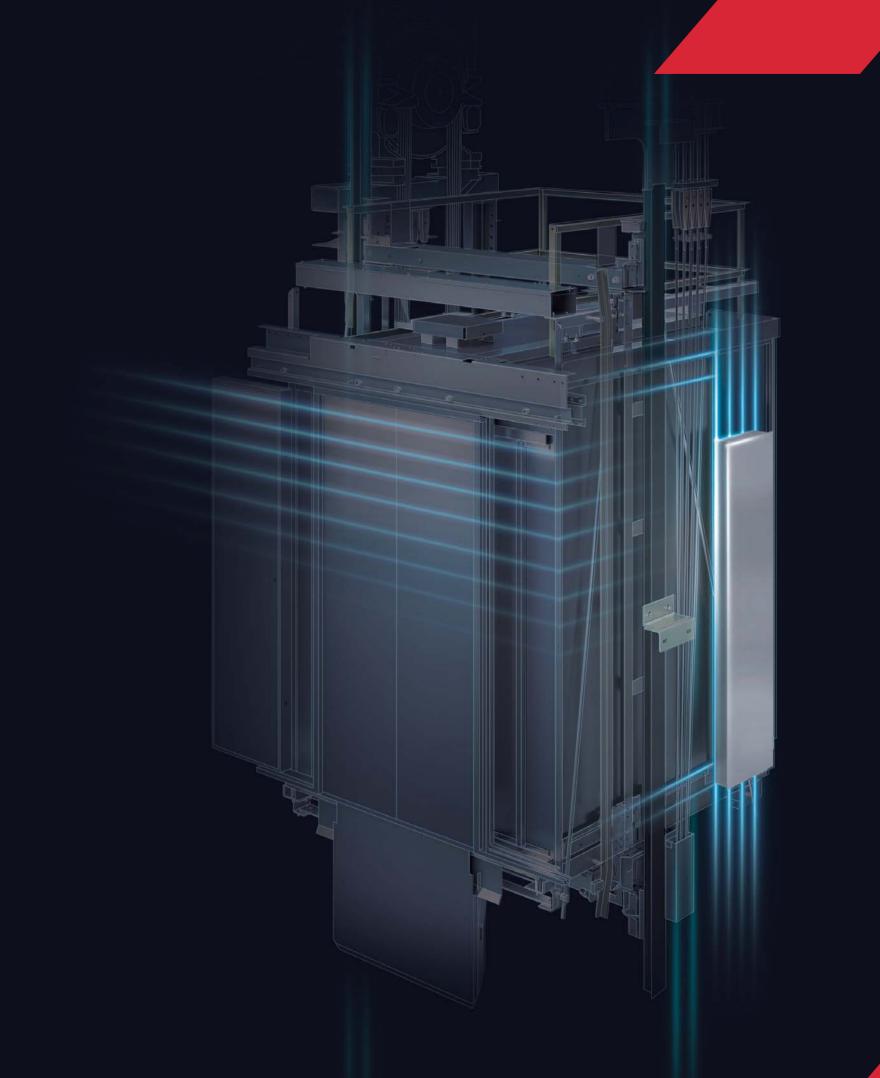
Door-width self-learning

The system can learn the specification and adjust the door opening and closing curve according to the door width data collected automatically. The data is saved in the EEPROM and the data is still saved after power off.

Door-weight self-adaption
The system can adjust different door-weight at each floor within standard.

Malfunction self-detection and self-protection The system can judge when there is a breakdown and stops the elevator as needed.





Innovative and Eco-Friendly Technology

01 Non-welded Car Frame and Double-layer Car Platform

- Non-welded car frame Non-welded car frame requires no manual welding on site and helps reduce the environmental pollution, improve the strength of car frame and achieve a higher safety and reliability rating.
- Double-layer car platform
 Double-layer car platform is characterized by vibration-proof materials are set between the car platform and the car platform frame. The elevator with double-layer car platform will travel much more smoothly and comfortably than other elevator with single-layer car platform through isolating the vibration of the car platform frame from the car platform.



02 Laser Cutting Technology

Laser cutting technology is applied in Hitachi elevator. In comparison with other standard methods, laser cutting technology significantly enhances the product cutting quality and accuracy. Laser cutting also benefits with lower carbon footprints.

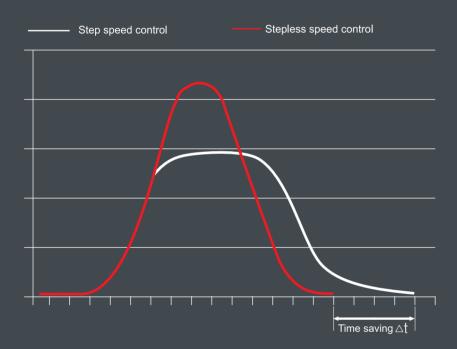




High Efficiency and Energy Saving

01 Stepless Speed Control

Hitachi elevator has been adopting step-less speed control for many years. With Hitachi's highly efficient control system, the precise optimum travelling speed curve can be directly calculated by the output according to the distance from the car location to the destination.



02 Energy Efficiency

Hitachi LCA machine room-less elevator achieved the highest rating of Class A for VDI4707 energy efficiency certification.

Energy Efficiency Class A



Model: LCA-1600-CO150
Test location: China
Nominal load: 1600kg
Nominal speed: 2.5m/s
Operating days per year: 365

Nominal energy demand per year: 4326 kWh

Note: The measured class differs depending on the usage conditions.

Industrial-Leading Technology

Old Reliable High-frequency Impulse Voltage Transformer Communication

Hitachi elevator adopts high-frequency impulse voltage transformer serial communication technology exclusively. It's mainly applied in some special industries such as telecommunication and military communication due to its stronger resistance to interference and higher velocity.

Content	Hitachi standard
Communication mode	High-frequency impulse voltage transformer
Reliability	High
Resistance to interference	Strong
Max.Speed	125kb(increase by 25%)

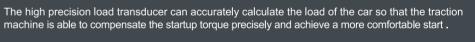


Multi-processor, Smaller size, Higher integration level

Higher running speed and outstanding processing capacity improve the efficiency and energy conservation effect.



03 High Precision Digitized Starting Torque Compensation







Humanised Design

01 Eco-Friendly LED Lighting Design

The use of LED helps to create a cozy atmosphere for the passengers, with its DC powered, flicker-free, energy efficiency features.



02 Horizontal Car Operating Panel [Option]

Horizontal car operating panel is available to provide the passengers with an easy elevator-taking environment.





Car Design (Normal Car)

Ceiling height: 2300mm

Car ceiling: RF-018

Stainless steel hairline

Center: Painted steel_HP65 (Matte black) + LED downlight

Car front return panel: Stainless steel hairline

Car transom: Stainless steel hairline

Side walls: Stainless steel hairline

Rear walls: Stainless steel hairline+Stainless steel mirror bar

Car operating panel: GOPR-820

Car position indicator: Monochrome LCD

Floor: A-26



Car Design (Deep Car)

Ceiling height: 2300m

Car ceiling: RF-01

Stainless steel hairline

Center: Painted steel_HP65 (Matte black) + LED downlight

Car front return panel:Stainless steel hairline

Car transom: Stainless steel hairling

Side walls: Stainless steel hairline

Rear walls: Stainless steel hairline+Stainless steel mirror ba

Car door: Stainless steel name Car operating panel: GOP-19

Car position indicator: Monochrome LCI

Floor: A-26







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Car Operating Panel

(With faceplate: Stainless steel hairline)





Option Horizontal Car Operating Panel

(With faceplate: Stainless steel hairline)



Button



Note: Braille buttons are of maximum 2 digits and available as option.

Hall Operating Panel

(With faceplate: Stainless steel hairline)











GHL-673 Surface mounted type,

With chime



Surface mounted type,

With chime



GHL-668 Surface mounted type, Without chime





GHI-575



Ceiling (Without Car Top Emergency Exit)



Stainless Steel Hairline + Painted Steel_HP65 (Matte Black)



Painted Steel_WP71 (White)



Painted Steel_HP57 (Matte Light Brown)



Painted Steel_YM47 (Matte Champagne)



Acrylic Panel + Aluminum Frame



DX-301G Acrylic Panel + Aluminum Frame



DP-047 Stainless Steel Hairline + Painted Steel_HP57 (Matte Light Brown)



Painted Steel_BN18 (Grey)



RF-081 (1) Painted Steel_HP57 (Matte Light Brown)



Painted Steel_WN01 (Ivory White)



Painted Steel_HM03 (Matte Sliver)



Painted Steel_YM47 (Matte Champagne)



Painted Steel_YM47 (Matte Champagne)



Painted Steel_BN18 (Grey) (Select when false ceiling is by Client)

- © Ceiling is with deep car option.

 ② The ceilings illustrated above are based on 1600×1500mm car size.

 ③ The ceiling profile may varies with different car size.
- 4 Details, please contact us.

Ceiling (With Car Top Emergency Exit)



RF-013A Painted Steel_WN01 (Ivory White)



Painted Steel_HP57 (Matte Light Brown)



Painted Steel_WN01 (Ivory White)



Painted Steel_WN01 (Ivory White)



Painted Steel_YM47 (Matte Champagne)



Painted Steel_YM47 (Matte Champagne)



RF-056A (1) Painted Steel_WN01 (Ivory White)
(Select when false ceiling is by Client)

- 1 Ceiling is with deep car option.
 2 The ceilings illustrated above are based on 1600×1500mm car size.
 3 The ceiling profile may varies with different car size.
- 4 Details, please contact us.

Entrance



Jamb frame:AS-1X narrow type
Stainless steel hairline
Door panel:Stainless steel hairline
Door sill:Extruded hard aluminum

Option



Jamb frame:SS-1X wide type
Stainless steel hairline
Door panel:Stainless steel hairline
Door sill:Extruded hard aluminum



Jamb frame:TS-1X wide type
Stainless steel hairline
Door panel:Stainless steel hairline
Door sill:Extruded hard aluminum



Jamb frame:SL-2X wide type with transom Stainless steel hairline Door panel:Stainless steel hairline Door sill:Extruded hard aluminum

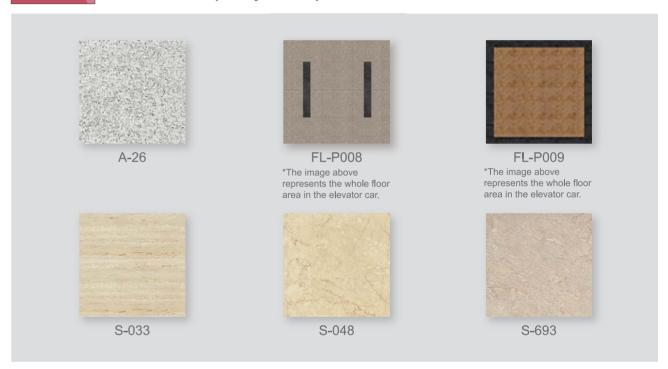


Jamb frame:TL-2X wide type with transom Stainless steel hairline Door panel:Stainless steel hairline Door sill:Extruded hard aluminum

Option Decorated Steel



Standard Car Floor (Vinyl Tile)



Etching Pattern

Colour Stainless Steel Hairline



Option Handrail



AA-Y138 Stainless steel hairline or mirror



HR-M037 Stainless steel hairline



AA-BS Stainless steel hairline



HR-M050 Stainless steel hairline or mirror

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Car Decoration

Item	Specification	Standard	Option
	Without car top emergency exit: RF-018	•	
	Without car top emergency exit: RF-068 / RF-080 / CE-011 / CE-027 / DX-301G / DP-047 /		
Ceiling Type	RF-013 / RF-081 / RF-082 / CE-015 / DP-016 / DP-017 / RF-056		
Journal Lype	With car top emergency exit: RF-013A / RF-081A / RF-082A / CE-015A /		
	DP-016A / DP-017A / RF-056A	0	
	Stainless steel hairline	•	
Car Door/Transom	Stainless steel mirror	0	
/3 Side Walls	Stainless steel hairline etching / Stainless steel mirror etching	0	
/Front Return Wall	Colour stainless steel hairline	0	
	Rust proof painted steel (RPP) / Decorated steel	0	
Kickplate	Stainless steel hairline	•	
Car Sill	Extruded hard aluminum	•	
Cai Sili	Stainless steel hairline	0	
Car Floor	Vinyl tile (FL-P009 / FL-P008 / S-048 / S-033 / S-693 / A-26)	•	
Cal 1 1001	Floor recess (20mm / 25mm / 30mm), Finishes by Others	0	
	AA-138	0	
Handrail	AA-BS	0	
Hallulali	HR-M037	0	
	HR-M050	0	
Car Operating Panel	GOPR-820	•	
(At Front Return Wall)	OPM-320 / GOP-673 / GOP-680 / GOP-677 / GOP-678	0	
Car Operating Panel	GOP-199	•	
(At Side Wall)	GOP-198 / GOP-610 / GOPC-520	0	

Entrance

Item	Specification	● Standard ● Opti	on
	AS-1X, Jamb width=50mm	•	
	SS-1X, Jamb width≤300mm	0	
Jamb Type	SL-2X, Jamb width≤300mm	0	
	TS-1X, Jamb width≤300mm	0	
	TL-2X, Jamb width≤300mm	0	
	Stainless steel hairline	•	
Jamb Finish	Stainless steel mirror	0	
	Rust proof painted steel (RPP)	0	
	Stainless steel hairline	•	
	Stainless steel mirror	0	
Landing Door	Stainless steel hairline etching / Stainless steel mirror etching	0	
	Colour stainless steel hairline	0	
	Rust proof painted steel (RPP) / Decorated steel	0	
Landing Sill	Extruded hard aluminum	•	
Landing Sill	Stainless steel hairline	0	
	Surface-mount type: VIB-820 / VIB-820W	•	
Hall Operating Panel	Embedded type: VIB-187A / VIB-187WA	0	
Trail Operating Farier	Surface-mount type: VIB-320 / VIB-320W / VIB-673 / VIB-673W / HB-673 / VIB-680 /		
	VIB-680W / HB-658 / HBC-820		
Hall Operating Panel with Inspection Function	VIB-715	•	
Hall Lantern	GHL-673/GHL-668 / GHL-820	0	

Buttons

Item	Specification	Standard ● Option
	WL-MWB	•
Button	WL-MO / WL-MW / WL-MB / GL-MOA / GL-MW / GL-MB / FL-PW /	
	XL-MO / XL-MW / XL-MB / XL-MOA / XL-MWA / XL-MBA / HL-PWA	

Note

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