

HITACHI
Inspire the Next

Machine Room Elevator

Model MCA

This 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.

Hitachi MCA Machine Room Elevator

With the emergence of new scenarios and applications driven by a new technological revolution, the industrial design community is embracing new ways of thinking and creating. Given these trends, Hitachi Elevator is seeking to apply a diverse lineup of technologies to industrial design, not only the designs for standard car but also the advanced deep car, with the aim of better meeting customers need.

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Energy Efficiency

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



Double Permanent Magnet Configuration

Main machine using high-precision permanent magnet synchronous motors, motor pole number increases, making the control more precise. Door system using permanent magnet synchronous technology, without mechanical reduction gear, avoids the energy loss of the corresponding structures while improving the transmission efficiency.



Energy Regenerative Function*

[Option for speed 60~150m/min and load ≤ 1050kg with speed 180m/min]

Making use of the energy generated by an elevator when traveling downwards with a heavy car load or upwards with a light car load, the traction machine acts as a power generator to transmit power back to the electrical network in the building.



LED Lighting

Using LED as a light source (including emergency lighting), low power, high brightness, higher energy saving as compared to traditional light sources.

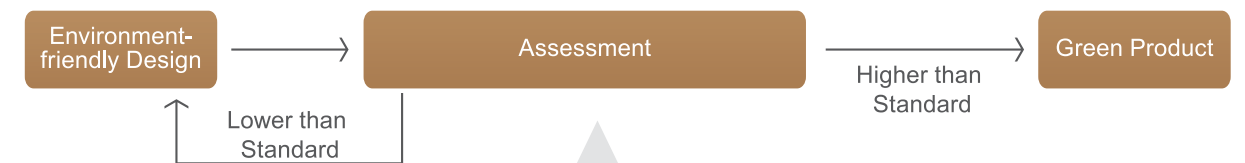


EMC Standards*[Option]

Hitachi MCA machine room elevators adopt EMC standards in line with the latest elevator EMC recommendation, helping that the elevator system does not cause radiation or conduction disturbance on the surrounding environment and equipment, while at the same time not under the influence of surrounding equipment.

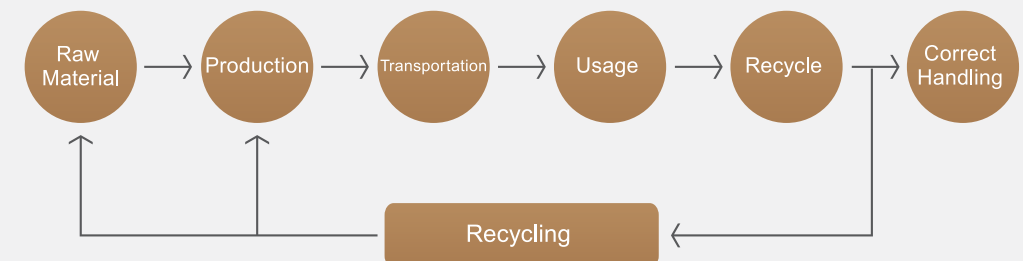


*Details please contact us.

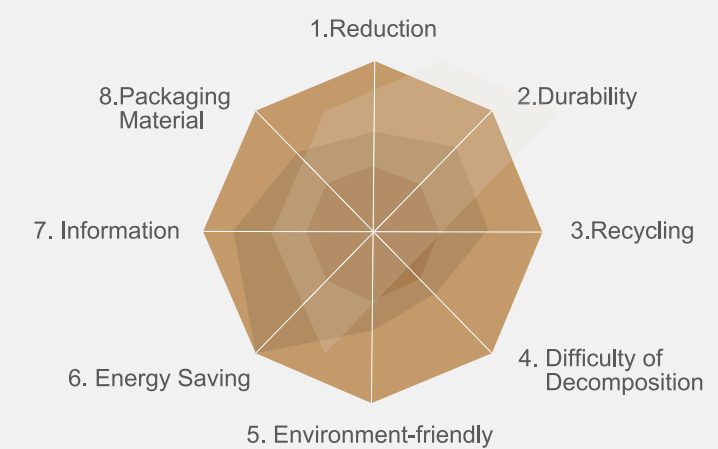


Product Life Cycle

Resources-saving



8 Indicators(Sample)



Green Products

Hitachi has set up 8 indicators and 5 grades to evaluate the environmental protection of products, covering stages from raw material procurement to production, circulation, use and correct handling. MCA machine room elevator passed the evaluation and was recognized as "Green Product".

Safety

Passengers safety is always the upmost concern, Hitachi MCA machine room elevator, equip with multiple features to ensure safe and comfortable ride.

Multi-beam Configuration

Power off automatically when idles, saving energy and improves multi-beam lifespan, The multi-beams fault-handling capability, improve the security of the door system. Judging by the 'blocking time' and reoccurrence rate, the elevator can distinguish and avoid false fault thus improve running efficiency.



Brake

Brakes are designed according to Hitachi standard. The high braking performance enhances the safety of the passengers in emergency cases.





Humanised Design

We strive to take a human-oriented approach to delivering a more comfortable riding experience for the passengers, and making our products more suitable for the buildings.

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.



Horizontal Car Operating Panel [Option]

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



Deep/Wide Car Design

The human-oriented deep and wide car designs are available to facilitate the usage of stretcher in elevator.



Car Design (Normal Car)

Ceiling height: 2450mm

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 door: Stainless steel hairline

Car operating panel: GOPR-820

Car position indicator: Monochrome LCD

Car floor: A-26



Car Design

With the ongoing commitment to improve the product, the car has been more smooth-running and elegant.

Car Design (Deep Car)

- Ceiling height: 2450mm
- 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 door: Stainless steel hairline
- Car operating panel: GOP-199
- Car position indicator: Monochrome LCD
- Car floor: A-26



Car Design (Wide Car)

- Ceiling height: 2450mm
- 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 door: Stainless steel hairline
- Car operating panel: GOP-199
- Car position indicator: Monochrome LCD
- Car floor: A-26



Ceiling (Without Car Top Emergency Exit)



RF-018 (Standard) ① ②
Stainless Steel Hairline +
Painted Steel_HP65 (Matte Black)



RF-068 ① ②
Painted Steel_WP71 (White)



RF-080 ① ②
Painted Steel_HP57 (Matte Light Brown)



CE-011 ① ②
Painted Steel_YM47 (Matte Champagne)



CE-027 ②
Acrylic Panel + Aluminum Frame



DX-301G ②
Acrylic Panel + Aluminum Frame



DP-047 ②
Stainless Steel Hairline +
Painted Steel_HP57 (Matte Light Brown)



RF-013 ① ②
Painted Steel_BN18 (Grey)



RF-081 ① ②
Painted Steel_HP57 (Matte Light Brown)



RF-082 ① ②
Painted Steel_WN01 (Ivory White)



CE-015 ① ②
Painted Steel_HM03 (Matte Silver)



DP-016 ②
Painted Steel_YM47 (Matte Champagne)



DP-017
Painted Steel_YM47 (Matte Champagne)



RF-056 ① ②
Painted Steel_BN18 (Grey)
(Select when false ceiling is by Client)

Note:

- ① Ceiling is with deep car option.
- ② Ceiling is with wide car option.
- ③ The ceilings illustrated above are based on 1600x1500mm car size.
- ④ The ceiling profile may varies with different car size.
- ⑤ Details, please contact us.

Ceiling (With Car Top Emergency Exit)



RF-013A
Painted Steel_WN01 (Ivory White)



RF-081A
Painted Steel_HP57 (Matte Light Brown)



RF-082A
Painted Steel_WN01 (Ivory White)



CE-015A
Painted Steel_WN01 (Ivory White)



DP-016A
Painted Steel_YM47 (Matte Champagne)



DP-017A
Painted Steel_YM47 (Matte Champagne)



RF-056A ① ②
Painted Steel_WN01 (Ivory White)
(Select when false ceiling is by Client)

Note:

- ① Ceiling is with deep car option.
- ② Ceiling is with wide car option.
- ③ The ceilings illustrated above are based on 1600x1500mm car size.
- ④ The ceiling profile may varies with different car size.
- ⑤ Details, please contact us.

Entrance

Standard



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

Option



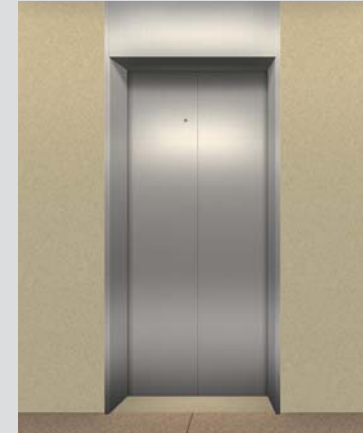
Jamb frame: SS-1X wide type
Stainless steel hairline
Door panel: Stainless steel hairline
Door sill: Extruded hard aluminum



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 Etching Pattern



MD-315

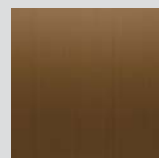


MD-351



PT-014

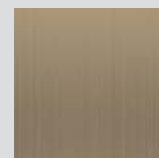
Option Colour Stainless Steel Hairline



Rose Gold



Titanium Gold



Champagne Gold

Option Decorated Steel



GSDV5



GSD92508



GSDV7

Standard Car Floor (Vinyl Tile)



A-26



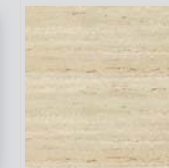
FL-P008

(The above represents
the whole floor area in
the elevator car.)

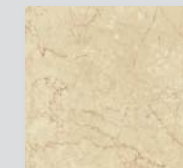


FL-P009

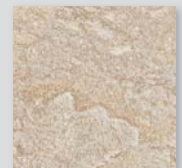
(The above represents
the whole floor area in
the elevator car.)



S-033



S-048



S-693

Option Handrail



AA-Y138
Stainless steel hairline or mirror



HR-M050
Stainless steel hairline or mirror



AA-B5
Stainless steel hairline



HR-M037
Stainless steel hairline

Car Operating Panel

(With faceplate: stainless steel hairline)

Standard

Option



GOPR-820
Indicator:
Monochrome LCD
Button: WL-MWB
(Hinge type)



GOP-199
Indicator:
Monochrome LCD
Button: WL-MWB



OPM-320
Indicator:
Monochrome
LCD
Button: WL-MW



GOP-673
Indicator:
Monochrome
LCD
Button: WL-MW



GOP-680
Indicator:
Monochrome
LCD
Button: FL-PW



GOP-677
Indicator:
Colour LCD
Button: FL-PW
(Hinge type)



GOP-678
Indicator:
Colour LCD
Button: WL-MWB
(Hinge type)



GOP-198
Indicator:
Monochrome LCD
Button: WL-MW

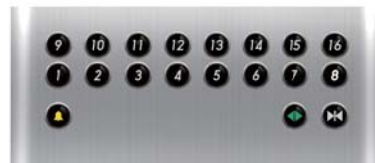
Horizontal Car Operating Panel

(With faceplate: stainless steel hairline)

Option



GOP-610
Button: FL-PW



GOPC-520
Button: FL-PW

Hall Operating Panel

(With faceplate: stainless steel hairline)

Standard



VIB-820
Indicator: Monochrome LCD,
Button: WL-MWB
(Surface-mount type)



VIB-820W
Indicator: Monochrome LCD,
Button: WL-MWB
(Surface-mount type)

Option



VIB-320
Indicator:
Monochrome LCD,
Button: WL-MW
(Surface-mount type)



VIB-320W
Indicator:
Monochrome LCD,
Button: WL-MW
(Surface-mount type)



VIB-673
Indicator:
Monochrome LCD,
Button: WL-MW
(Surface-mount type)



VIB-673W
Indicator:
Monochrome LCD,
Button: WL-MW
(Surface-mount type)



VIB-680
Indicator:
Monochrome LCD,
Button: FL-PW
(Surface-mount type)



VIB-680W
Indicator:
Monochrome LCD,
Button: FL-PW
(Surface-mount type)



VIB-187A
Indicator: Colour LCD,
Button: FL-PW
(Embedded type)



VIB-187WA
Indicator: Colour LCD,
Button: FL-PW
(Embedded type)



HB-658
Button: FL-PW
(Surface-mount type)



HB-673
Button: WL-MW
(Surface-mount type)



HBC-820
Button: WL-MWB
(Surface-mount type)

Button

Standard

Option



WL-MWB



WL-MW



WL-MO



WL-MB



XL-MW



XL-MO



XL-MB



FL-PW



GL-MW



GL-MOA



GL-MB



XL-MWA



XL-MOA



XL-MBA



HL-PWA

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

Hall Indicator (Dot-matrix display)

Option



GHI-675
(With faceplate: stainless steel hairline)



GHI-575
(Without faceplate: incorporate into transom)

Hall Lantern (With faceplate: stainless steel hairline)

Option



GHL-673
Surface mounted type,
With chime



GHL-820
Surface mounted type,
With chime



GHL-668
Surface mounted type,
Without chime

Decoration and Entrance

Car Decoration

Item	Specification	☒ Standard ☐ Option
Ceiling Type	Without car top emergency exit: RF-018	☒
	Without car top emergency exit: RF-068 / RF-080 / CE-011 / CE-027 / DX-301G / DP-047 / RF-013 / RF-081 / RF-082 / CE-015 / DP-016 / DP-017 / RF-056	☐
	With car top emergency exit: RF-013A / RF-081A / RF-082A / CE-015A / DP-016A / DP-017A / RF-056A	☐
Car Door/Transom /3 Side Walls /Front Return Wall	Stainless steel hairline	☒
	Stainless steel mirror	☐
	Stainless steel hairline etching, Stainless steel mirror etching	☐
	Colour stainless steel hairline	☐
	Rust proof painted steel (RPP) / Decorated steel	☐
Kickplate	Stainless steel hairline	☒
Car Sill	Extruded hard aluminum	☒
	Stainless steel hairline	☐
Car Floor	Vinyl tile (FL-P009 / FL-P008 / A-26 / S-033 / S-048 / S-693)	☒
	Floor recess (20mm / 25mm / 30mm), Finishes by Others	☐
Handrail	AA-Y138 / AA-BS / HR-M050 / HR-M037	☐
Car Operating Panel (At Front Return Wall)	GOPR-820	☒
	OPM-320 / GOP-673 / GOP-680 / GOP-677 / GOP-678 / GOP-198 / GOP-199	☐
Car Operating Panel (At Side Wall)	GOP-199	☒
	GOP-198 / GOP-610 / GOPC-520	☐

Entrance

Item	Specification	☒ Standard ☐ Option
Jamb Type	AS-1X, Jamb width=50mm	☒
	SS-1X, Jamb width≤300mm	☐
	SL-2X, Jamb width≤300mm	☐
	TS-1X, Jamb width≤300mm	☐
	TL-2X, Jamb width≤300mm	☐
Jamb Finish	Stainless steel hairline	☒
	Stainless steel mirror	☐
	Rust proof painted steel (RPP)	☐
Landing Door	Stainless steel hairline	☒
	Stainless steel mirror	☐
	Stainless steel hairline etching, Stainless steel mirror etching	☐
	Colour stainless steel hairline	☐
	Rust proof painted steel (RPP) / Decorated steel	☐
Landing Sill	Extruded hard aluminum	☐
	Stainless steel hairline	☐
Hall Operating Panel	Surface-mount type: VIB-820 / VIB-820W	☒
	Surface-mount type: VIB-320 / VIB-320W / VIB-673 / VIB-673W / HB-673 / VIB-680 / VIB-680W / HB-658 / HBC-820	☐
	Embedded type: VIB-187A / VIB-187WA	☐
Hall Lantern	GHL-673 / GHL-668 / GHL-820	☐
Hall Indicator	GHI-675 (With stainless steel hairline faceplate)	☐
	GHI-575 (Without faceplate, incorporate into transom panel)	☐

Buttons

Item	Specification	☒ Standard ☐ Option
Button	WL-MWB	☒
	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