

## EAST AFRICAN ELEVATOR CO LIMITED

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## EAECL-7A/7B

Machine Roomless Passenger Elevator

 **EAST AFRICAN**  
ELEVATOR CO LTD



## Enjoy Comfortable Life

**EAECL-7A/7B** is a kind of medium to high end customized machine roomless elevator. It takes the shaft space as the leading, customizes diversified solutions, perfectly combines the practicality and aesthetics of the space, and creates a pleasant experience when taking elevators. In addition, it greatly reduces the space occupied by the shaft and uses a simple, safe and efficient installation method to save civil engineering and installation time, bringing more commercial value to the building.



## Applicable Scenario

Residence

Hotel

Complex

Hospital

Office

## Coverage

Rated Speed							Travel Height
1.75m/s							75m
1.0m/s							45m
	400kg	450kg	550kg	630kg	800kg	1050kg	

Rated Load



# EAECL-7A/7B

Machine-roomless Passenger Elevator

Driven by flexibility, safety, and environmental amity, a harmonious, comfortable, and convenient life with elevator is built.

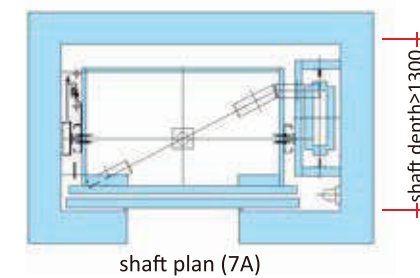
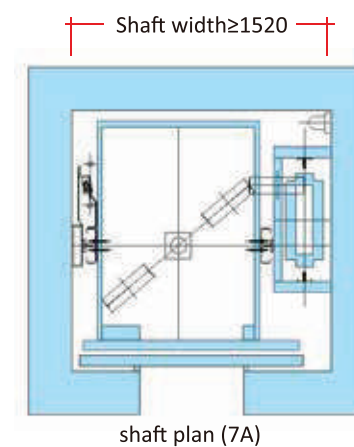


## Flexible Layout

EAECL-7A/7B adopts a more flexible design, and it can adapt to all kinds of shafts with extreme width and depth. The minimum clear depth of the shaft can be 1300mm, and the minimum clear width of the shaft can be 1520mm. The utilization rate of the shaft is up to 58.06%, which makes it easy to meet the needs of the shaft with the elevator.

A flexible layout makes EAECL-7A/7B further improve the utilization rate of the shaft and give the car a more spacious and comfortable space.

Shaft utilization rate is up to **58.06%**







## Simplified Design

Adopting full modular design, no scaffold needed, and the installation efficiency increased by more than 30%. The generalization rate of parts is up to 95%, which makes the elevator installation and maintenance more standardized and simplified.


Installation efficiency improves by **30%**


## Accurate / Comfortable

- 
**Noise reduction**  
 Contactless magnetic induction principle. The elevator can change speed without noise and vibration, and the effect of static room is 20% higher than that of the national standard. People can sleep in the bedroom separated from the elevator wall.
- 
**Shock absorption**  
 Increase the motor's shock absorption, reduce the vibration and noise generated by the motor, and bring a comfortable when taking elevator experience.
- 
**Beauty**  
 Optimize the elevator structure. There are no obstacles when customers enjoy the beautiful scenery in the sightseeing cabin, bringing a better sightseeing feeling.
- 
**Purification**  
 Air anion purification device can realize the car deodorization, sterilization, disinfection, and care for your healthy life (optional).





## Detailed Safety Features


 **Brake Detection Switch**  
 Real-time monitoring of brake can prevent the failure of brake and ensure the safety of elevator stopping.

 **UCMP Protection Device**  
 Prevent the car from moving accidentally and ensure the safety of passengers.

 **Traction Rope Anti-loose Detection Device**  
 Real time monitoring of the whole process. When the traction rope is loose, the elevator will stop running immediately to prevent accidents.

 **All Weather Coverage of IoT(Optional)**  
 24-hour real-time monitoring of the elevator status; self-developed patented control system can achieve remote assistance debugging.

 **AI Identification Monitoring(Optional)**  
 Monitor car conditions in real-time and protect passenger safety to a greater extent.

 **ARD Device(Optional)**  
 When the power is suddenly cut off during the operation of the elevator, ARD device will react quickly and drive the elevator to the nearest floor at low speed to evacuate passengers.

## Intelligent Technology New Experience



**Contactless Calling Elevator(Optional)**  
 Voice, QR code, gesture, body sensation and other methods can be used to call the elevator to make it safer.



**Intelligent Identification System(Optional)**  
 To create an exclusive elevator experience, passengers can directly reach the destination floor through the VIP card.





## Environmental Protection Energy-saving



### Level-A Energy Efficiency Certification

**EAEL-7A/7B** passes TUV elevator energy efficiency certification and obtains an A-level energy efficiency certificate.



### Standby Energy Saving Technology

Without receiving any operation instructions, the elevator will enter standby energy-saving mode within the predetermined time after closing the door, and turn off the lighting and fan in the car.



### Energy Regeneration System(Optional)

When the electric energy from the motor is input into the power grid or used by other electrical equipment, the energy can be saved by more than 30%.

## Standard Configuration

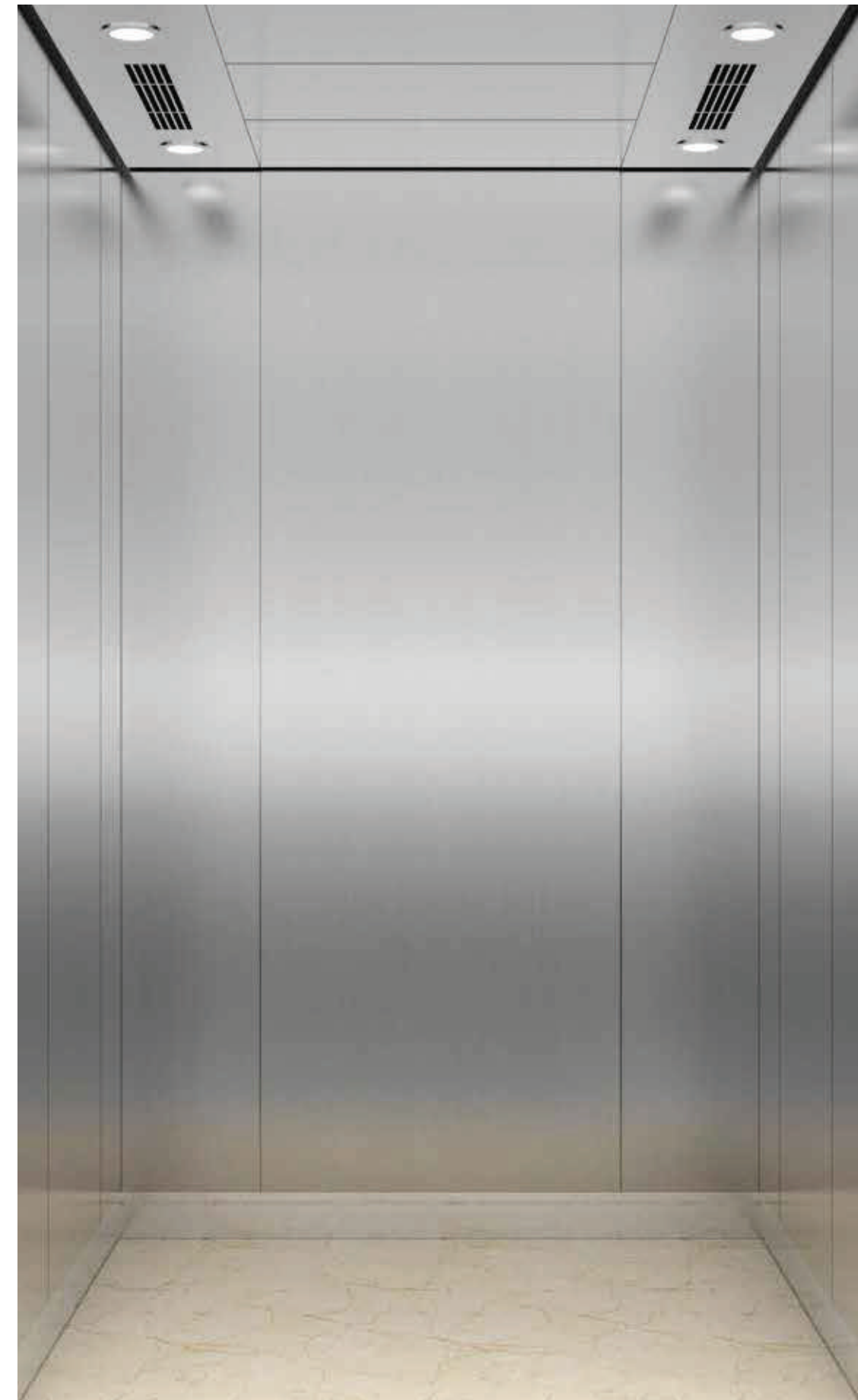
The pictures are for your reference only. Details shall be subject to physical objects or consult the EAECL sales representative.



### CAR75-11

Note: Trap door can be available on C19 ceiling

COP	COP34-00 (Hairline stainless steel / plexiglass / white dot matrix display)
Ceiling	C19-00 (Hairline stainless steel / LED ceiling light)
Car Wall	CW03-20 (Hairline stainless steel (side wall, back wall is divided into 3 pieces, big in the middle, small on both sides)
Car Door	L01-00 (Hairline stainless steel)
Floor	F01-00 (Wear-proof PVC)



## Optional Configuration

The pictures are for your reference only. Details shall be subject to physical objects or consult the EAECL sales representative.



### CAR75-09

Note: Trap door can be available on C19 ceiling

COP	COP39-01 (Mirror stainless steel / plexiglass / white dot matrix display)
Ceiling	C19-00 (Hairline stainless steel / LED ceiling light)
Car Wall	CW03-07 Front wall: Mirror Stainless Steel Side wall: Two sides Mirror Stainless Steel/ Middle Hairline Stainless Steel Rear wall: Two sides Mirror Stainless Steel/ Middle Hairline Stainless Steel
Car Door	L01-00 (Hairline stainless steel)
Floor	F01-00 (Wear-proof PVC)





## Optional Configuration

The pictures are for your reference only. Details shall be subject to physical objects or consult the EAECL sales representative.



CAR99-10

COP	COP31-04 (Gold titanium mirror stainless steel)
Ceiling	C100 (Baked opal paint with steel plate +Decorative ceiling lamp +LED ceiling light+Hidden lamp tape)
Car Wall	CAR500 Front wall: Gold titanium mirror stainless steel Side wall: Two sides: Gold titanium mirror stainless steel + Middle: Gold titanium mirror stainless steel Rear wall: Two sides:Gold titanium Hairline stainless steel + Middle: Gold Natural marble honeycomb aluminum
Car Door	L01-02 (Gold titanium mirror stainless steel)
Floor	F200 (Marble)

## Optional Configuration

The pictures are for your reference only. Details shall be subject to physical objects or consult the EAECL sales representative.



CAR404

COP	COP39-02 (Gold titanium hairline stainless steel panel)
Ceiling	C19-10 (Hairline Stainless Steel+LED ceiling light)
Car Wall	CAR404 Front wall: Gold titanium hairline stainless steel Side wall: Two sides: Gold titanium hairline stainless steel + Middle: Gold titanium mirror stainless steel Rear wall: Two sides:Gold titanium hairline stainless steel + Middle:Gold titanium mirror stainless steel
Car Door	L01-03 (Gold titanium hairline stainless steel)
Floor	F01-07 (Wear-proof PVC)



## Optional Configuration

The pictures are for your reference only. Details shall be subject to physical objects or consult the EAECL sales representative.



CAR80-02

COP	COP34-00 (Hairline Stainless Steel+ plexiglass + dot-matrix display in white)
Ceiling	C99-09 (hairline stainless steel +LEDceiling light+mirror stainless steel etching)
Car Wall	CW01-05 Front wall: hairline stainless steel Side wall: Two sides: hairline stainless steel + Middle: mirror stainless steel etching Rear wall: Two sides: hairline stainless steel + Middle: mirror stainless steel etching.)
Car Door	L01-00 (Hairline Stainless Steel)
Floor	F01-00 (Wear-proof PVC)

## Optional Configuration

The pictures are for your reference only. Details shall be subject to physical objects or consult the EAECL sales representative.



CAR99-08

COP	COP11 (Bronze hairline stainless steel)
Ceiling	C401 (Black titanium mirror stainless steel + panel light)
Car Wall	CW99-02 Front wall:Bronze hairline stainless steel Side wall: Two sides: Bronze hairline stainless steel + Middle: Black titanium mirror stainless steel Rear wall: Two sides: Bronze hairline stainless steel + Middle: Black titanium mirror etching stainless steel
Car Door	L01-01 (mirror stainless steel)
Floor	F01-11 (Wear-proof PVC)



## Decoration configuration

### COP (Standard & Optional)

Dot-matrix display



Standard	COP34-00	Option 1	COP39-00
Panel	Hairline SS. + plexiglass	Panel	Hairline SS. + plexiglass
Display	dot matrix in white	Display	dot matrix in white
Button	B12C-00	Button	B13C-02

B13C series button is not available for braille configuration

Option 2	COP39-01 (Mirror SS.)
Option 3	COP34-01 (Mirror SS.)
Option 4	COP34-02 (Gold titanium hairline SS.)
Option 5	COP34-03 (Gold titanium mirror SS.)

Liquid Crystal Display

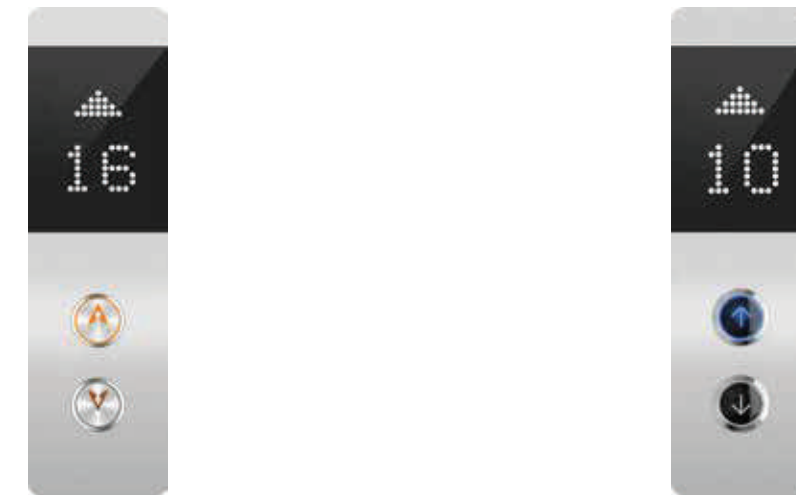


Option1	COP35-00	Option 2	COP46-00
Panel	Hairline SS. + plexiglass	Panel	Hairline SS. + plexiglass
Display	White Segment LCD	Display	7-inch picture LCD (Vertical display)
Button	B12C-00	Button	B12C-00

Option 1	COP35-01 (Mirror SS.)
Option 2	COP35-02 (Gold titanium hairline SS.)
Option 3	COP35-03 (Gold titanium mirror SS.)

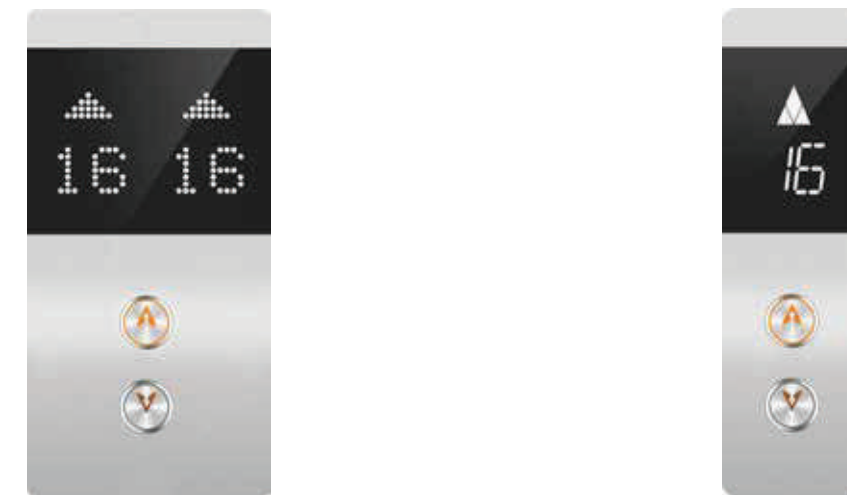
## Decoration configuration

### HOP (Dot-matrix Display)



Standard	HOP37-00
Panel	Hairline SS. + plexiglass
Display	dot matrix in white
Button	B12H-00

Option1	HOP41-00
Panel	Hairline SS. + plexiglass
Display	dot matrix in white
Button	B13H-02



Option2 (Parallel circuit)	HOP39-00
Panel	Hairline SS. + plexiglass
Display	dot matrix in white
Button	B12H-00

### Liquid Crystal Display(Opt.)

Type	HOP38-00
Panel	Hairline SS. + plexiglass
Display	White segment LCD
Button	B12H-00

Option 1	HOP38-01 (Mirror SS. + plexiglass)
Option 2	HOP38-02 (Gold titanium Mirror SS + plexiglass)

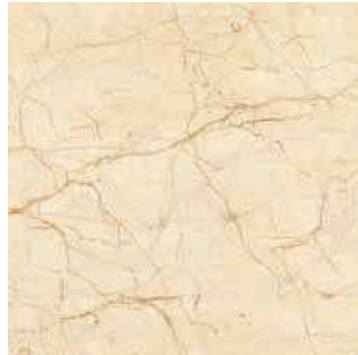
Option 3	HOP37-01 (Mirror SS. + plexiglass)
Option 4	HOP37-02 (Gold titanium mirror SS. + plexiglass)
Option 5	HOP39-01 (Mirror SS. + plexiglass)
Option 6	HOP39-02 (Gold titanium mirror SS. + plexiglass)
Option 7	HOP41-01 (Mirror SS. + plexiglass)

B13H series button is not available for braille configuration



## Decoration configuration

### Floor (Standard & Optional)



**F01-00 Standard**  
Material: Wear-proof PVC



**F01-01 Option**  
Material: Wear-proof PVC



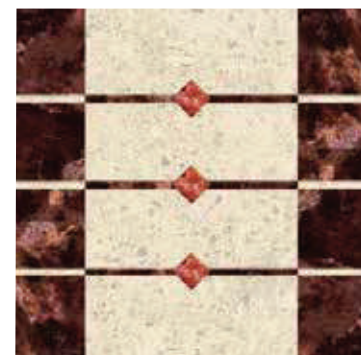
**F01-03 Option**  
Material: Wear-proof PVC



**F01-04 Option**  
Material: Wear-proof PVC



**F01-05 Option**  
Material: Wear-proof PVC



**F01-07 Option**  
Material: Wear-proof PVC

## Decoration configuration

### Landing door+Door jamb (Standard & Optional)

Note: It's only for the first floor configuration. Please consult IFE sales representative for other floors.



Landing Door	Std.	L01-00	Hairline SS.
Door jamb	Std.	LDJ01-00	Hairline SS.

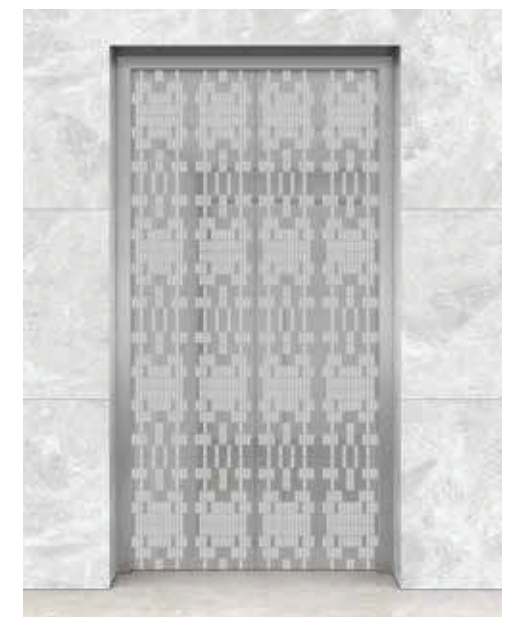
Steel plate painting color card  
Matte grey (PANTONG5295U)



Landing Door	Opt.	L02-02	Mirror SS. etching
Door jamb	Std.	LDJ01-00	Hairline SS.



Landing Door	Opt.	L04-00	Hairline SS. + glass
Door jamb	Std.	LDJ01-00	Hairline SS.

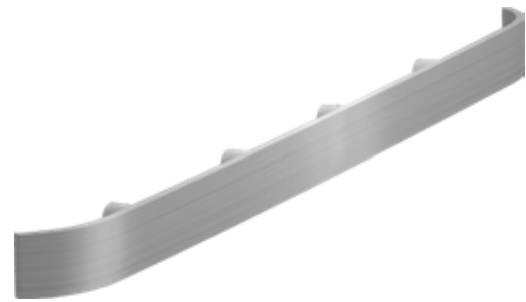


Landing Door	Opt.	L02-08	Mirror SS. etching
Door jamb	Std.	LDJ01-00	Hairline SS.

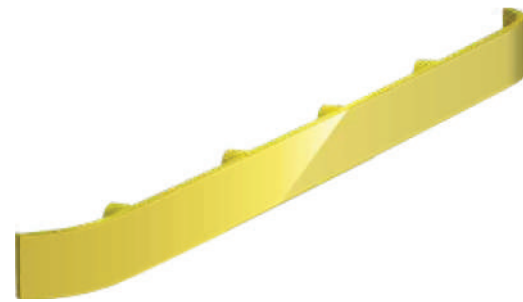


## Decoration configuration

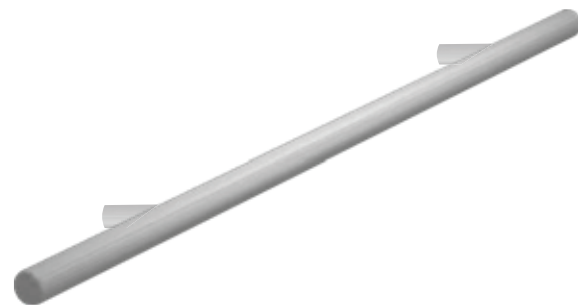
### Handrail (Standard & Optional)



Option 1	H01-00	Hairline SS.
Option 2	H01-01	Mirror SS.



Option 3	H01-02	Gold titanium mirror SS.
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Option 4	H05-00	Hairline SS.
Option 5	H05-01	Mirror SS.



Option 6	H05-02	titanium mirror SS.
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Option 7	H06-00	Black walnut wood cylinder + mirror SS. bracket
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Option 8	H06-01	Black walnut wood cylinder + Titanium mirror SS. bracket
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## Decoration configuration

### Ceiling (Standard & Optional)



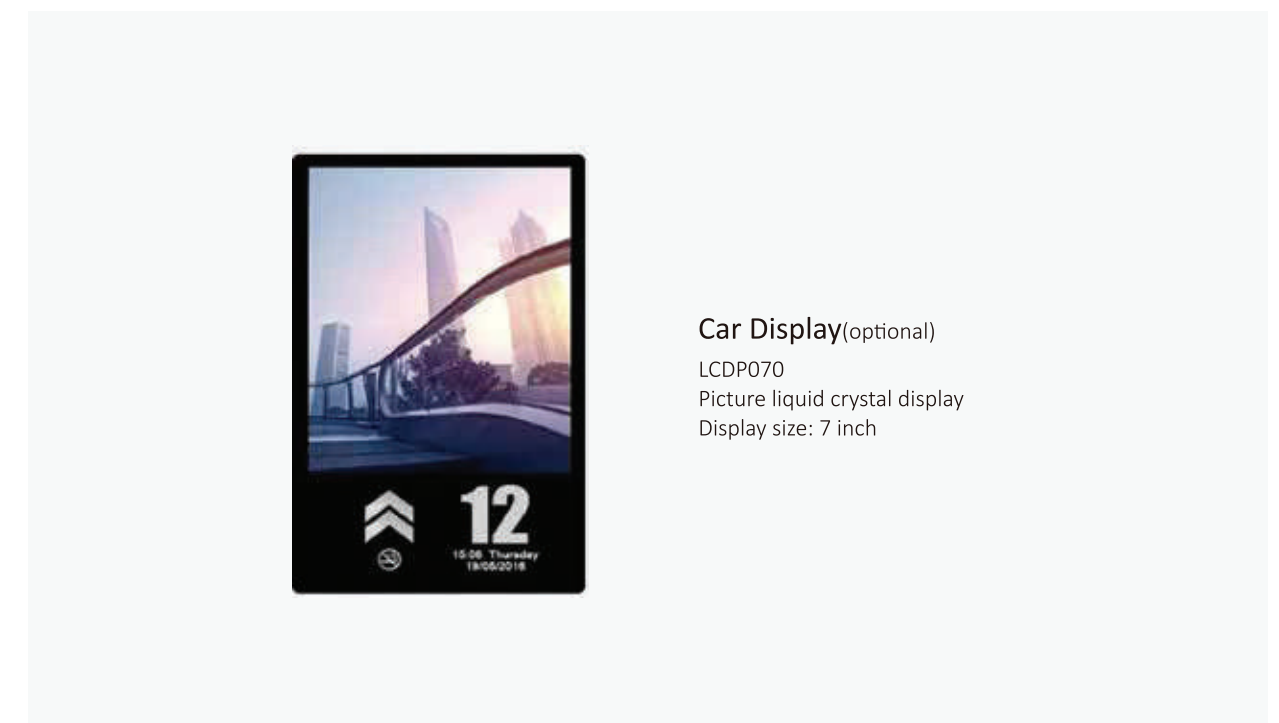
Standard	C19-00
Hairline SS. + LED ceiling light	



Option 1	C28-00
Hairline SS. + PC transparent plate + LED ceiling light	



Option 2	C99-09
Hairline SS. + LED ceiling light + Mirror SS. Etching	



**Car Display**(optional)  
 LCDP070  
 Picture liquid crystal display  
 Display size: 7 inch



# EAECL-7A/7B

## Standard functions

### Run Function

01	FSC	Full selective collection
02	FLP	Full-load by pass
03	CCR	Car call reset
04	DOB/DCB	Door open button/Door close button
05	DOBL/DCBL	Door open button light/Door close button light
06	RODI	Re-operation by Data Initialization
07	AHL	Automatic Home Landing
08	DRLC	Door reopening by landing call
09	ANCCP	Anti-Nuisance car call protection
10	TCS	Torque compensation in start
11	DPT	Direct Parking Technology

### Safe Function

12	SLP	Safety loop protection
13	FS	Fault storage
14	FSFD	Power Supply Feedback Detection
15	OP	Overload protection
16	LCP	Light Curtain Protection
17	DRP	Door Interlock Protection
18	DIP	Door Interlock
19	LZG	Landing zone Guard
20	DCOP	Descending Car Overspeed Protection Means
21	ACOP	Ascending Car Overspeed Protection Means
22	DFD	Direction Feedback Detection

## Standard functions

23	BG	Breaker guard
24	CNRP	Contactors non-releasing protection
25	BMD	Fault storage
26	ESFD	End Station Forced Deceleration
27	BSP	Buffer Safety Protection
28	PSTP	Power-on Self-test Protection
29	ALRFM	Anti-locked-rotor Feature of Motor
30	SCC	Star Circuit Closure
31	RALP	Rope Anti-loose Protection
32	EW	Electronic Weighting
33	ESC	Electric Safety Chain
34	UCMP	Unintended Car Movement Protection Device
35	LD&CDBD	Landing Door & Car Door Bypass Device
36	DCD	Door Circuit Detection

### Special operating

37	AO	Attendant operation
38	BS	Bypass switch
39	IS	Independent service
40	MFS	Main Floor Setting
41	FFS	Firefighting Floor Setting
42	INS	Inspection Operation
43	FCPS	Flexible Car Park Set

## EAECL-7A/7B

### Standard functions

Man-machine interface		
44	PI	Position Indicator
45	DI	Direction Indicator
46	FMFS	Floor market flexible set
47	AG	Arrival gong
48	HBDLRF	HOP Button Dim Light Reminder Function
49	CBDLBRF	COP Button Dim Light Buzzer Reminder Function
50	ODHDF	Open Door Hold Delay Function

Emergency Function		
51	AB	Alarm button
52	ECL	Emergency car lighting
53	INTCOM	Intercom Device
54	EFO	Emergency fire operation
55	EFLF	Fireman's operation
56	EEO	Emergency rescue

Energy-saving function		
57	PS	Parking service
58	ESS	Energy Saving Standby

## EAECL-7A/7B

### Optional functions

01	DCO	Duplex Control Operation
02	GCO	Group Control Operation
03	IADO	In Advance Door Opening
04	REL	Re-leveling
05	ARD	Automatic Rescue Device
06	EAC	Elevator Air Conditioner
07	PRD	Power Regeneration Device
08	CMS	Community Monitoring System
09	COPIC	COP IC Card Management
10	HOPIC	HOP IC Card Management
11	VIP	VIP Bypass
12	SCOP	Sub-COP
13	DPCOP	Disabled Person COP
14	VBS	Voice Broadcast System
15	BB	Braille Button
16	ACS	Accessibility
17	MOIH	Multi-office Intercom Host
18	CCTVC	CCTV Cable
19	ED	Emergency Doors
20	TD	Trap Doors
21	CSG	Counterweight Safety Gear
22	IOT	Elevator IOT is with the real-time inspecting function for the states of operation, malfunction, main tenance and etc, keeping track of the records for malfunction and maintenance so as to check and use if in need.
23	AI Identification monitoring	AI Identification monitoring could recognize the entering electric motor with the warning activated.



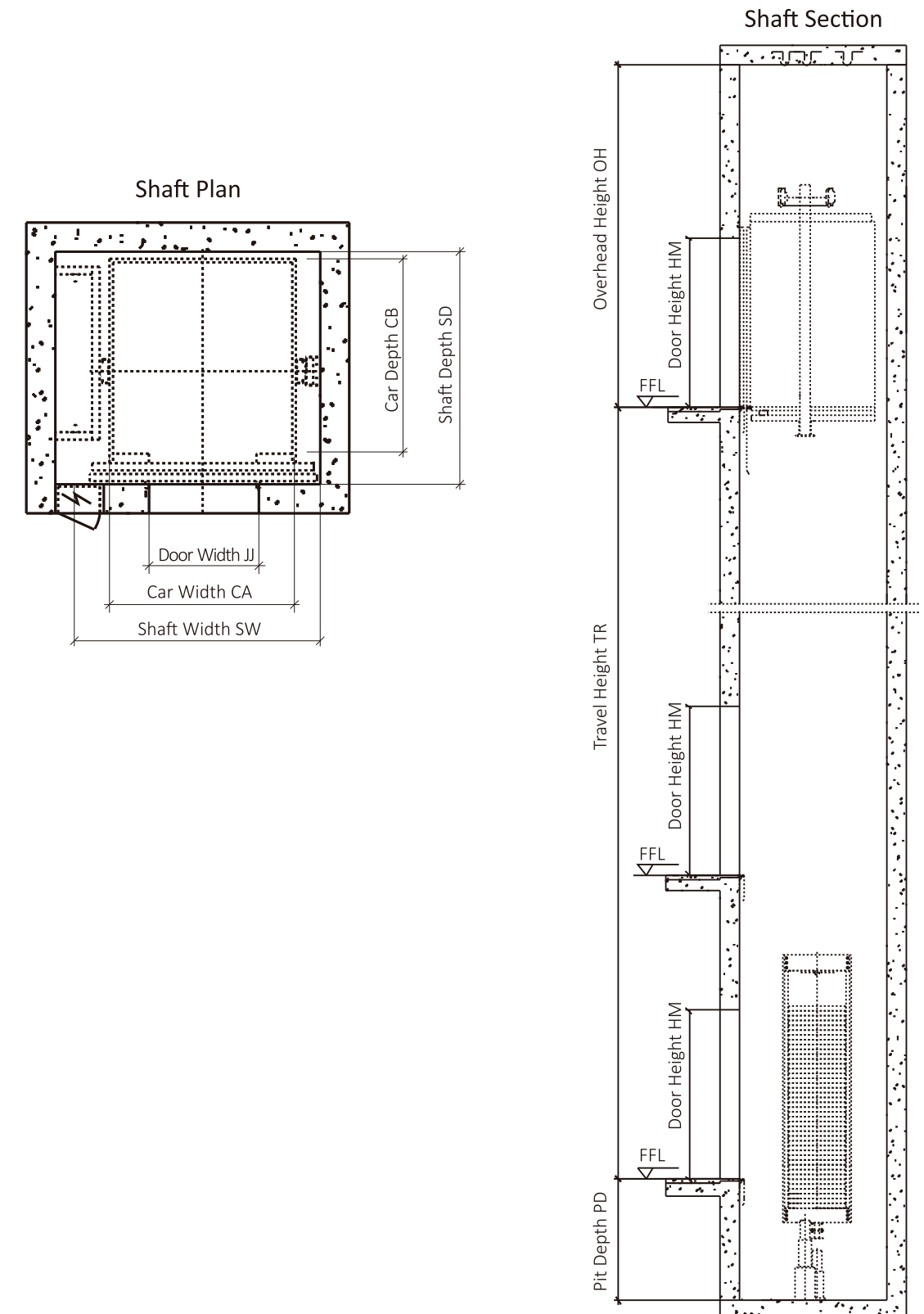
# EAECL-7A/7B

## Machine Roomless Passenger Elevator Technical Specification

NO.	Specification	400(5P)	450(6P)	550(7P)	630(8P)		800(10P)		1050(14P)		
01	Capacity(kg)	400	450	550	630		800		1050		
02	Speed(m/s)	1.0	1.0	1.0	1.0	1.75	1.0	1.75	1.0	1.75	
03	Motor rated power(kw)	2.7	3	4.2	4.2	7.4	5.4	9.4	6.7	11.8	
04	Rated current (A)	8	9	10	10	16	13	20	16	25	
05	Starting current(A)	12	13.5	15	15	24	19.5	30	24	37.5	
06	Opertion system	Full Collective Selection Operation									
07	Driving system	VVVF Drive									
08	Door Operate System	VVVF Frequency conversion machine									
09	Traction system	Gearless									
10	Control system	CTRL80/CTRL71(Optional)									
11	Communitation	Serial communication									
12	Duplex Elevators	2 units (Optional)									
13	Group Control Elevator	3-8 units (Optional)									
14	Car 1	Car size (mm)(W*D*H)	1000*1100*2420	1000*1200*2420	1000*1300*2420	1100*1400*2420	1350*1400*2420	1500*1600*2420			
		Door size(mm) (W*H)	700*2100	700*2100	700*2100	800*2100	800*2100	900*2100			
		Single door shaft size(mm) (W*D)	1620*1450	1620*1600	1620*1650	1750*1750	1970*1750	2120*1950			
		Dual door shaft size(mm) (W*D)	1620*1610	1620*1710	1620*1810	1750*1910	1970*1910	2120*2110			
15	Car 2	Car Specification (mm)(W*D*H)	—	1400*900*2420	1400*1000*2420	1400*1100*2420	1100*1750*2420	1100*2100*2420			
		Door size(mm) (W*H)	—	800*2100	800*2100	800*2100	800*2100	800*2100			
		Shaft size(mm) (W*D)	—	2020*1300	2020*1400	2020*1550	1770*2100	1770*2450(v≤1.75m/s)			
16	Travel Height (m)	≤45	≤45	≤45	≤45	≤75	≤45	≤75	≤45	≤75	
17	Traction Machine Position	in the shaft									
18	Overhead Height (mm)	4150	4150	4150	4150	4350	4150	4350	4150	4350	
19	Pit Depth (mm)	1250	1250	1250	1250	1450	1250	1450	1250	1450	

- Note : 1.380V,50Hz, 3- phase 5- wire, zero wire and ground separated, grounding resistances≤4Ω  
 2. Car depth≥2100mm is used for specified application, such as stretcher delivery in evacuation occasions.  
 3. Car height is “2420mm”. It refers to the height from floor to ceiling. Car height may vary due to different types of ceilings.  
 4. When car in through entrance, seal plate should be added at the pit.

## Machine Roomless Passenger Elevator Shaft Diagram



# EAECL-7A/7B

## Machine Roomless Passenger Elevator Technical Specification

NO.	Specification	450 (6P)	550(7P)	630(8P)		800(10P)		1050(14P)		
01	Capacity(kg)	450	550	630		800		1050		
02	Speed(m/s)	1.0	1.0	1.0	1.75	1.0	1.75	1.0	1.75	
03	Motor rated power(kw)	3	4.2	4.2	7.4	5.4	9.4	6.7	11.8	
04	Rated current (A)	9	10	10	16	13	20	16	25	
05	Starting current(A)	13.5	15	15	24	19.5	30	24	37.5	
06	Opertion system	Full Collective Selection Operation								
07	Driving system	VVVF Drive								
08	Door Operate System	VVVF Frequency conversion machine								
09	Traction system	gearless								
10	Control system	CTRL80/CTRL71(Optional)								
11	Communitation	Serial communication								
12	Duplex Elevators	2 units (Optional)								
13	Group Control Elevator	3-8 units (Optional)								
14	Car 1	Car size (mm)(W*D*H)	1100*1100*2420	1100*1300*2420	1100*1400*2420		1350*1400*2420		1500*1600*2420	
		Door size(mm) (W*H)	700*2100	700*2100	800*2100		800*2100		900*2100	
		Single door shaft size(mm) (W*D)	1900*1500	1900*1650	1900*1750		2150*1750		2300*2050	
		Dual door shaft size(mm) (W*D)	—	1900*1810	1900*1910		2150*1910		2300*2110	
15	Car 2	Car Specification (mm)(W*D*H)	—	1300*1100*2420	1400*1100*2420		1100*1750*2420		1100*2100*2420	
		Door size(mm) (W*H)	—	800*2100	800*2100		800*2100		800*2100	
		Shaft size(mm) (W*D)	—	2100*1500	2200*1500		1900*2100		1900*2450	
16	Travel Height (m)	≤45	≤45	≤45	≤75	≤45	≤75	≤45	≤75	
17	Traction Machine Position	in the shaft								
18	Overhead Height (mm)	3900	3900	3900	4100	3900	4100	3900	4100	
19	Pit Depth (mm)	1300	1300	1300	1500	1300	1500	1300	1500	

- Note : 1.380V,50Hz, 3- phase 5- wire, zero wire and ground separated, grounding resistance<4Ω  
 2. Car depth≥2100mm is used for specified application, such as stretcher delivery in evacuation occasions.  
 3. Car height is “2420mm”. It refers to the height from floor to ceiling. Car height may vary due to different types of ceilings.  
 4.When car in through entrance, seal plate should be added at the pit.

## Machine Roomless Passenger Elevator Shaft Diagram

