

Note

Specifications, options and colors are subject to change. All cars and options illustrated in this brochure are representative only. The samples shown may vary from the original in color and material.



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Quality Management System Certification

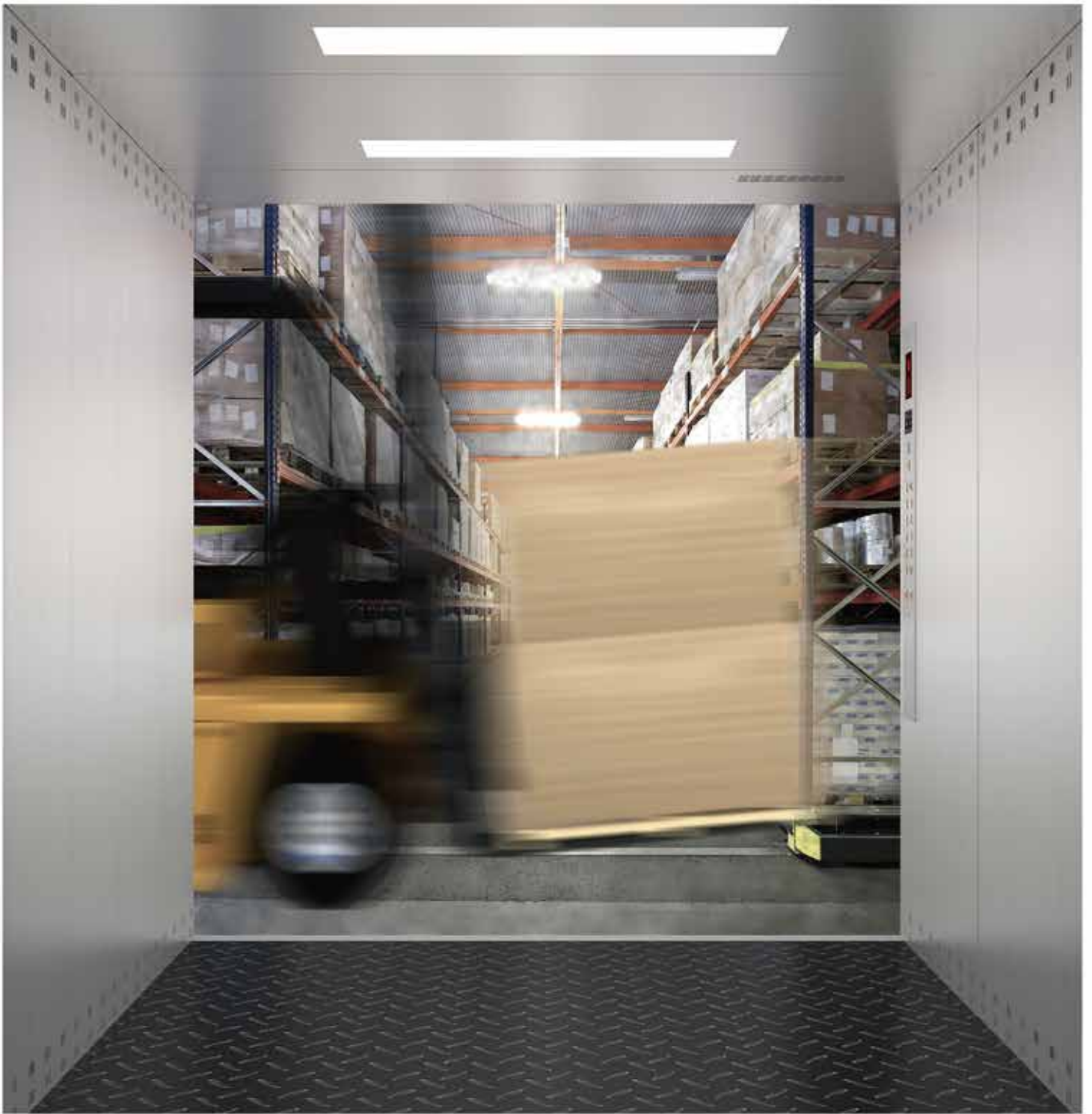


OHSAS1800 Occupational Safety and Health Management System Certification

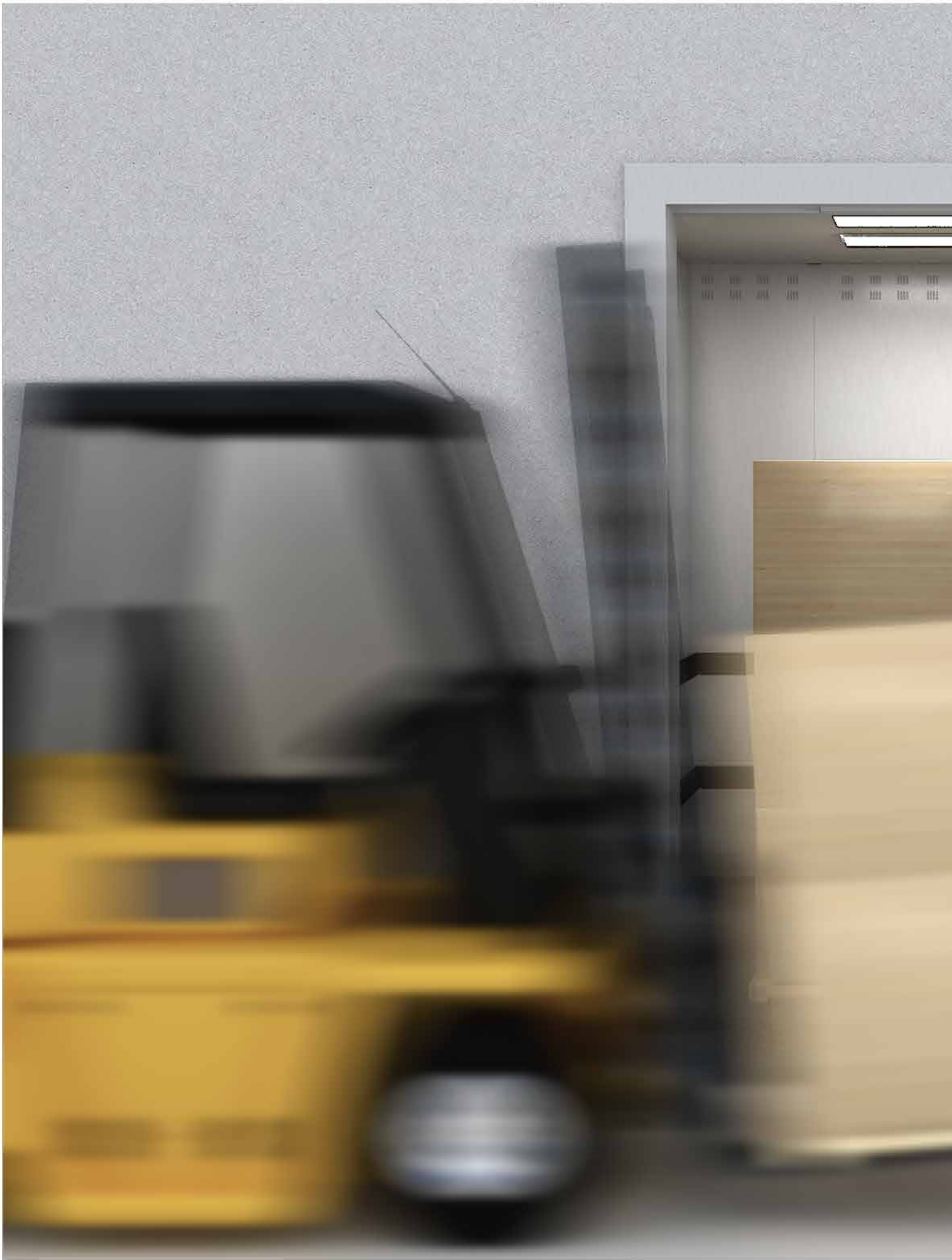


ISO14001: Environmental Management System Certification





XJS Freight



Outstanding performance





Flexible application





Safe and efficient



AMADO CORP
NAME: ILSHIN LAB CASE
SIZE: LARGE (132x132x73mm)
QUANTITY: 90 PCS
MADE IN CHINA

Outstanding performance

With the combination of powerful driving system, robust mechanical structure and high technology control unit, our enhanced product 'XJS Freight' is engineered for safe, smart and efficient mobility.

It is not only beneficial for transporting heavy goods in industrials, but also widely used in hospitals, shopping malls, etc.

Efficient permanent magnet synchronous machine

- ◆ Powerful drive, provide safe and optimum ride
- ◆ High precision, mechanical deformation is minimized
- ◆ Low temperature rise, reliable for long operating hours
- ◆ Quiet operation

Intelligent door system

- ◆ Self-learning, to smooth the curves for door opening and closing
- ◆ Modular design, less spare parts
- ◆ Easy commissioning via a compact control panel
- ◆ Terminals are available, provide flexible interface to various devices

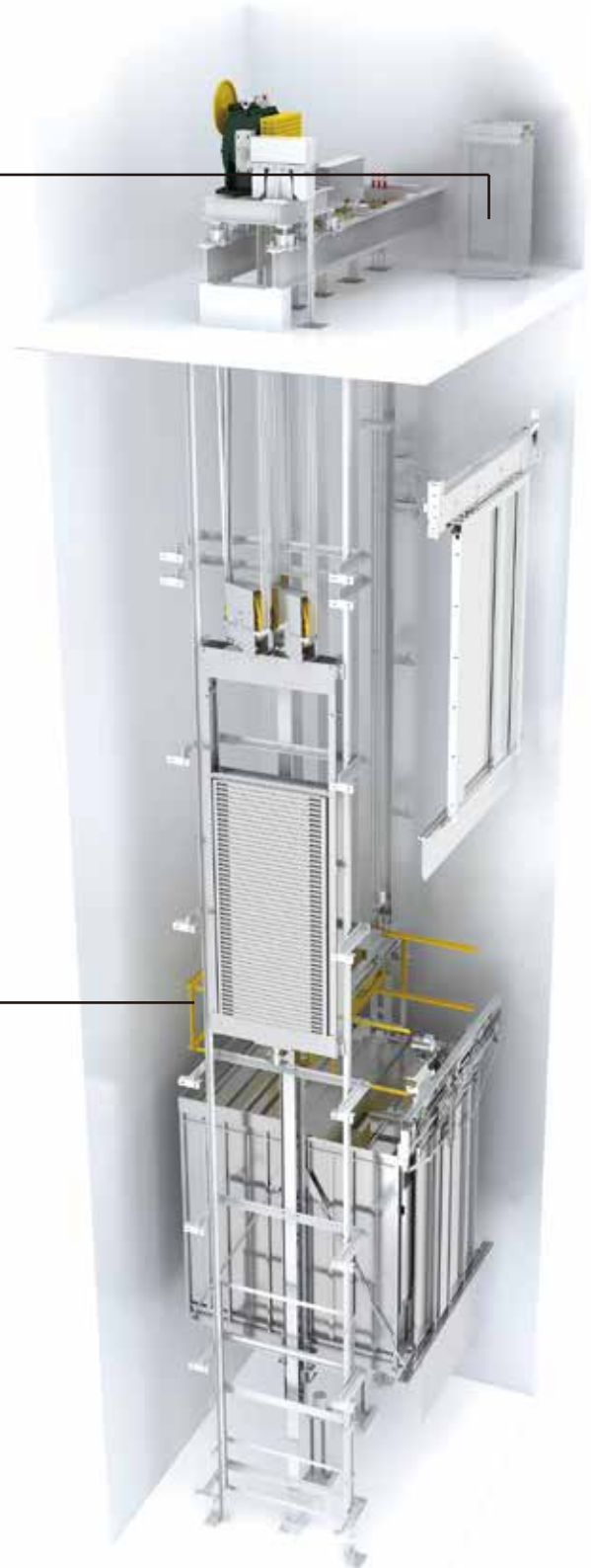


Safe and efficient

- ◆ Active safety protection
Unintended car moving protection device, protect passengers from been harmed by car unintended slipping.
- ◆ Protection device in locking zone
To prevent from falling accident caused by forced opening door

Reliable Components

- ◆ Stable delivery is available with strong car and car frame structure
- ◆ The surface of machinery is protected by electro-phoresis process so that using lifetime is extended





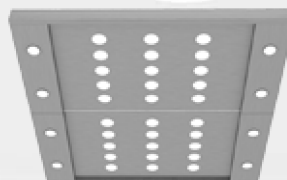


Car interior finishes

Ceiling



X78C



X79C

Wall

Powder coated -
Electro gray

Powder coated -
Monet green

Stainless steel -
Hairline finish

Floor

Steel chequered plate

Stainless steel
chequered plate (optional)

PVC
(optional)

User interface



Ultra-thin
S/S mirror finish



LED



LCD
(optional)



LED horizontal indicator
S/S mirror finish
(optional)



Ultra-thin
without indicator
S/S mirror finish



DZD-JF
(optional)



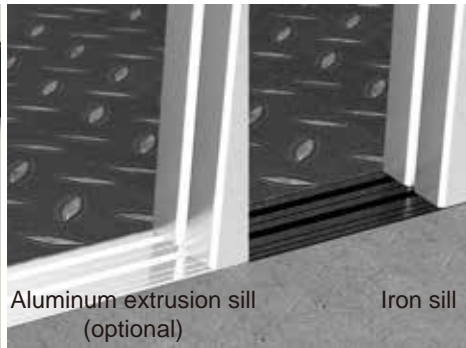
DZD-JS
(optional)



S/S hairline finish

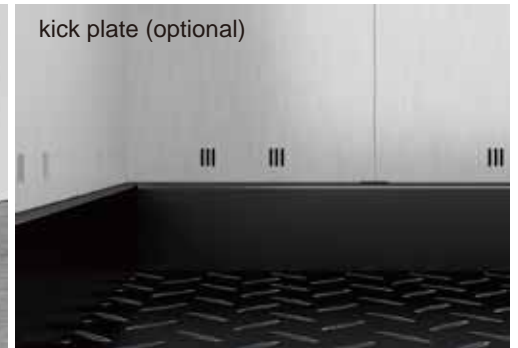


Bumper(optional)



Aluminum extrusion sill
(optional)

Iron sill



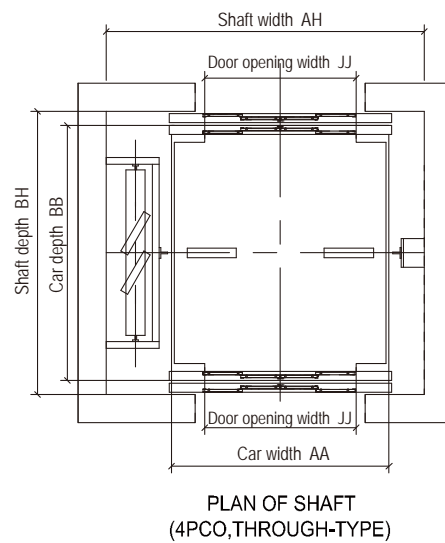
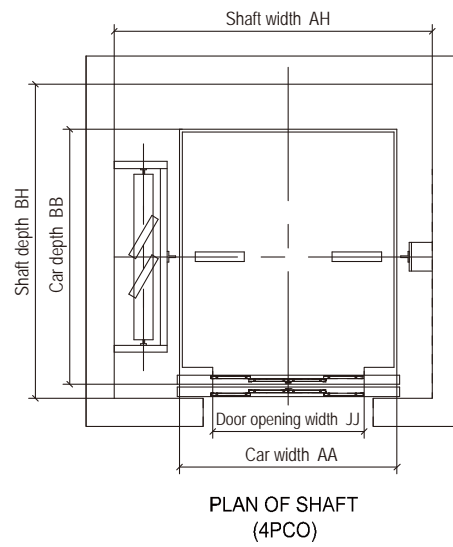
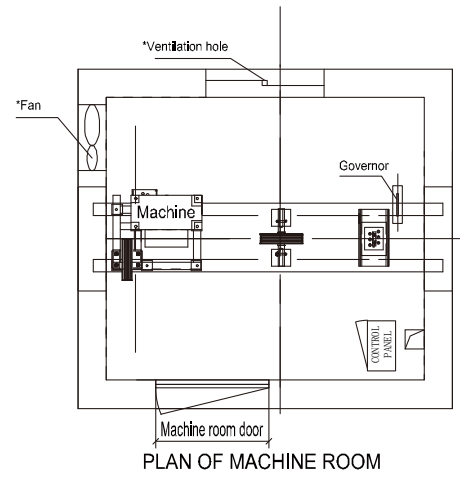
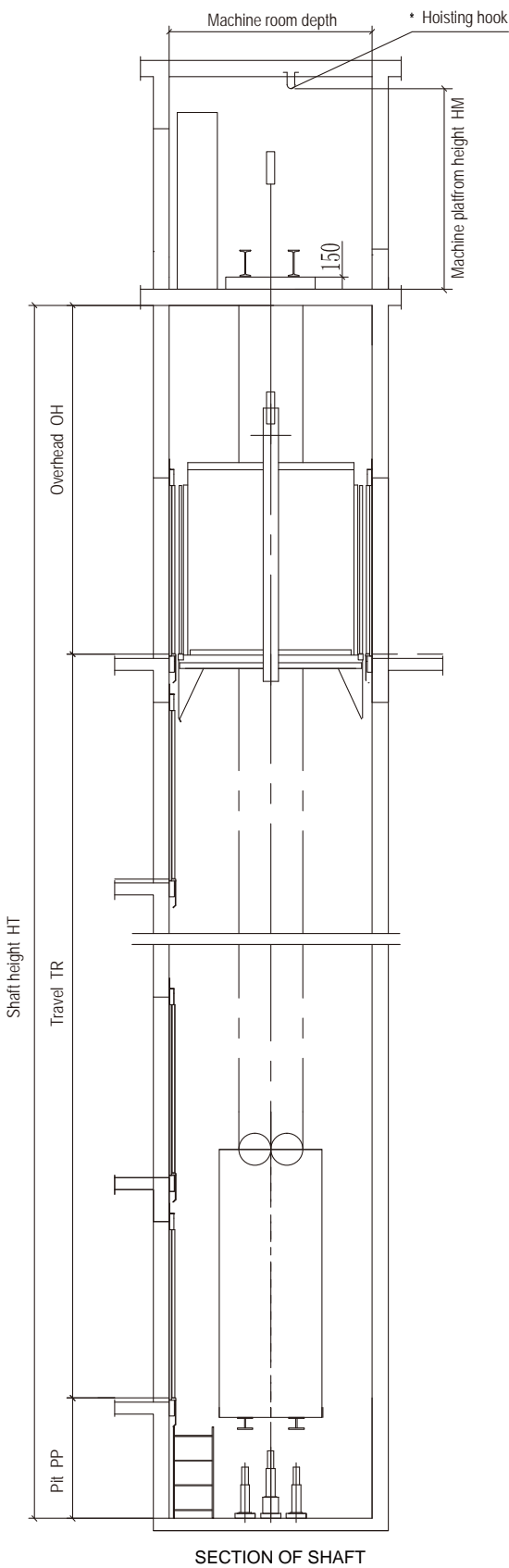
kick plate (optional)



Handrail (optional)

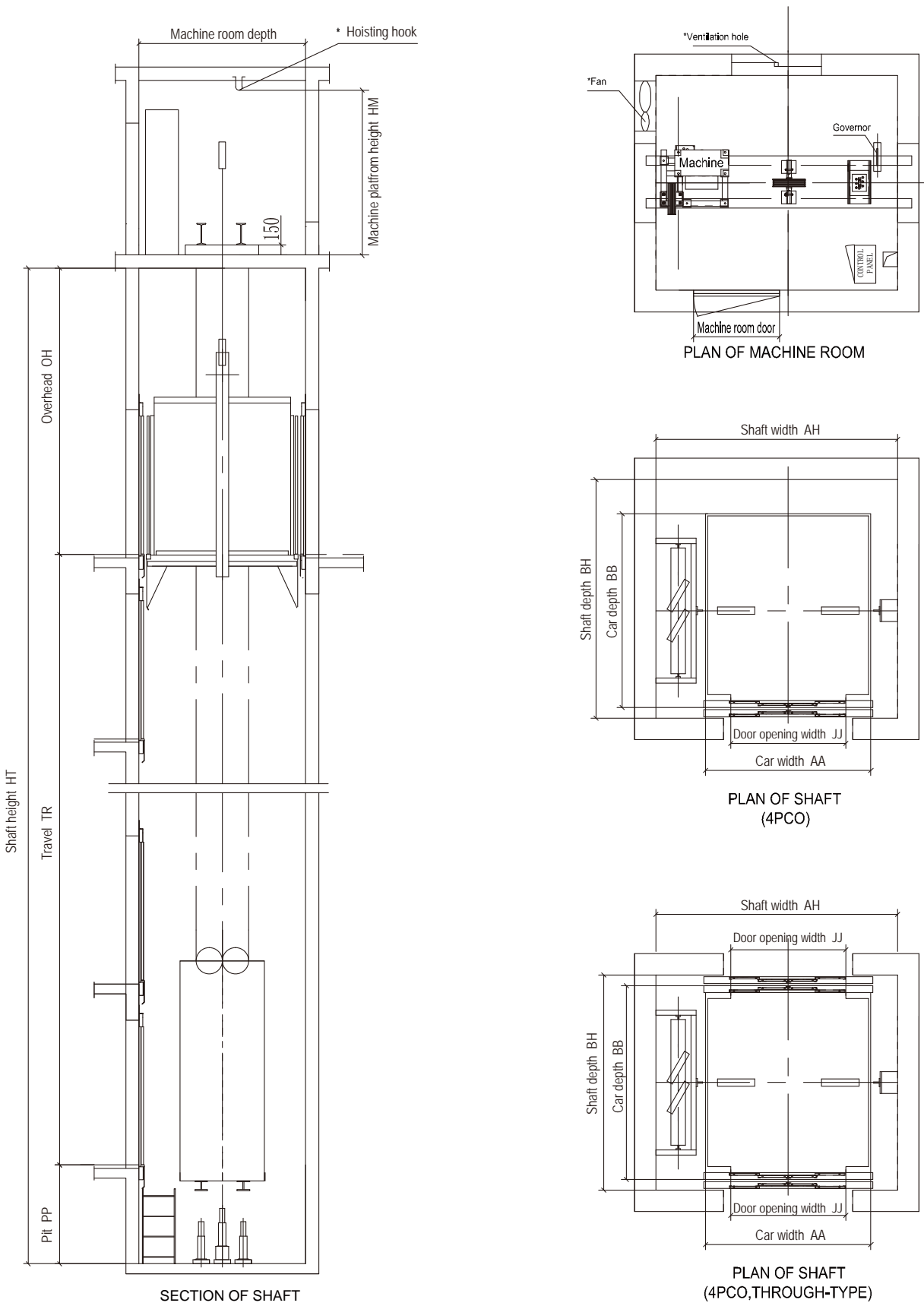
Car operating panel
for handicapped
(optional)

Standard shaft layout drawing 2000kg(general freight lift)



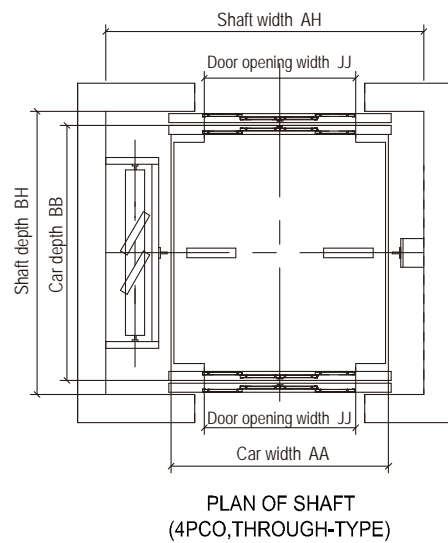
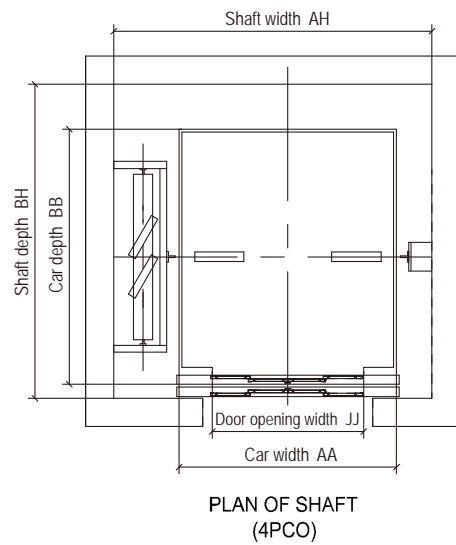
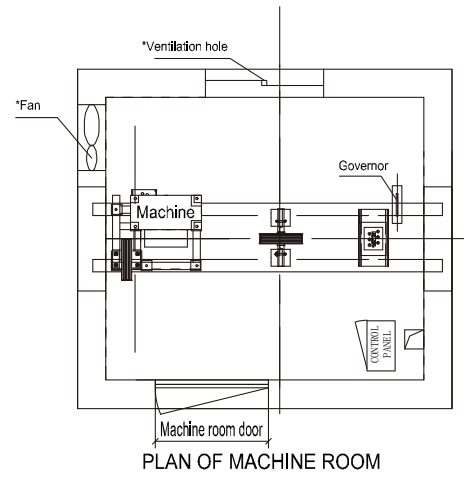
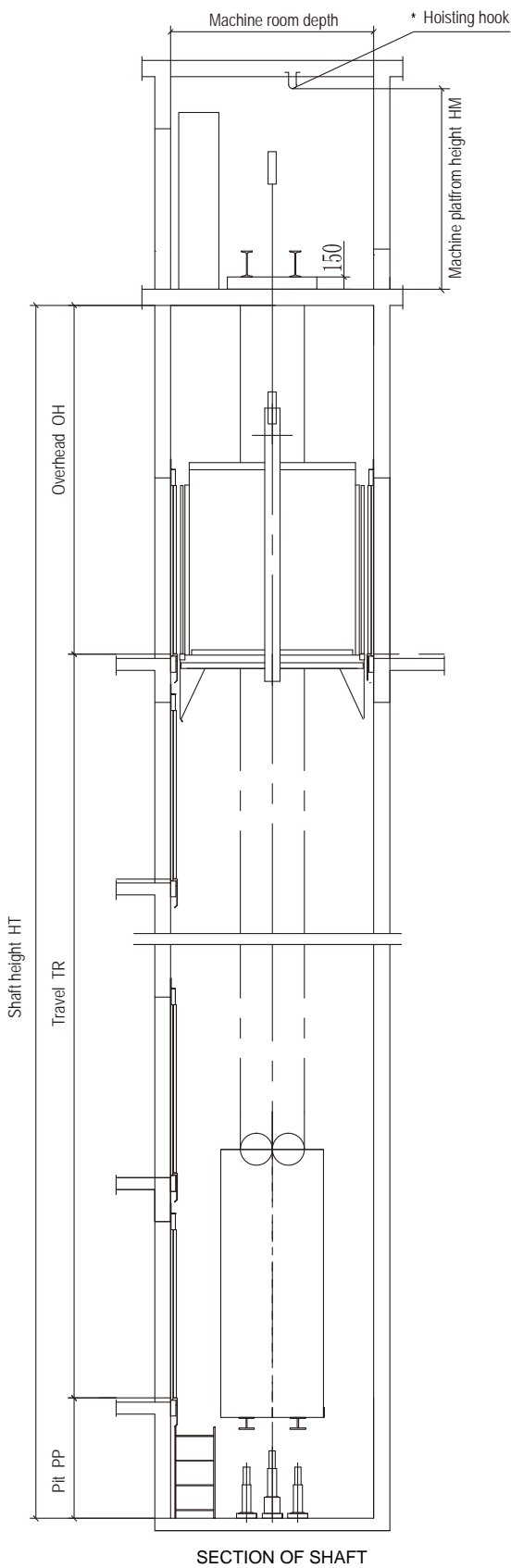
* Provided by others

Standard shaft layout drawing 2000kg(loading 4-wheel industrial truck)



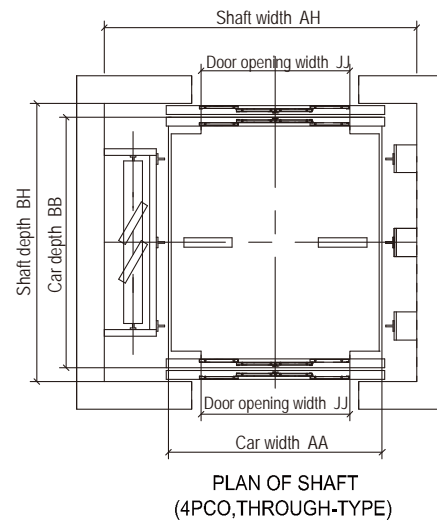
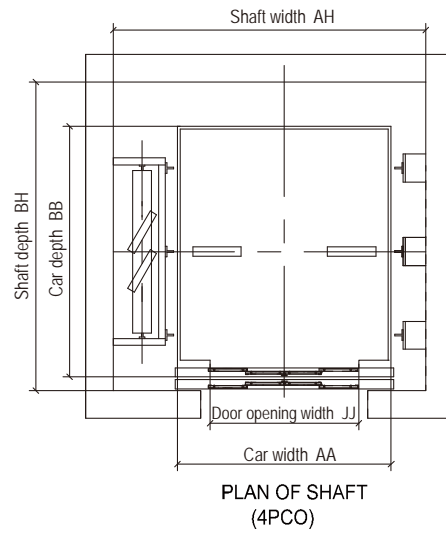
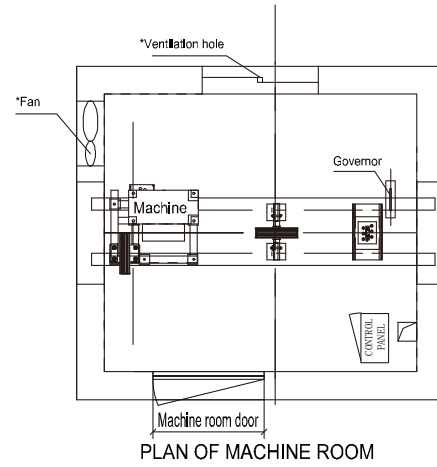
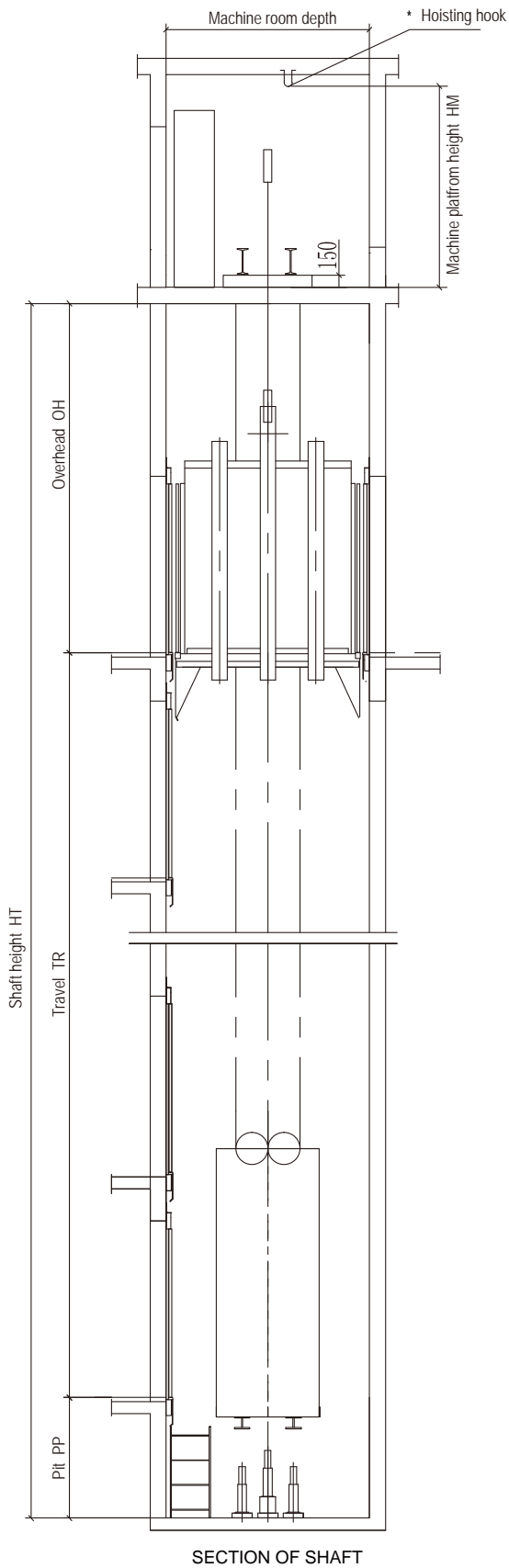
* Provided by others

Standard shaft layout drawing 2500kg-3000kg(general freight lift)



* Provided by others

Standard shaft layout drawing 2500kg-3000kg(loading 4-wheel industrial truck)



* Provided by others

Planning Date

Car without Front Wall

Load	Speed	Max. Travel (TR)	Car Size		Door Opening Size (JJ x HH)	Shaft Size		Min.pit depth (PP)	Min. Overtravel (OH)	Machine Platform Height (HM)
			Single Entr. (AA x BB x HK)	Thro Entr. (AA x BB x HK)		Single Entr. (AH x BH)	Thro Entr. (AH x BH)			
[kg]	[m/s]	[m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
2000	0.5/ 0.63/ 0.75/ 1.0	60	1500x2700x2300	1500x2700x2300	1500x2300 C4	2700x3150	2700x3200	1400	4200	2300
			1800x2200x2300	1800x2200x2300	1800x2300 C4	3000x2650	3000x2700			
2500	0.5/ 0.63/ 0.75/ 1.0	60	1800x2700x2500	1800x2700x2500	1800x2500 C4	3100x3150	3100x3200	1450	4400	2300
3000	0.5/ 0.63/ 0.75/ 1.0	60	2000x2750x2500	2000x2750x2500	2000x2500 C4	3300x3200	3300x3250	1450	4400	2300
			2200x2550x2500	2200x2550x2500	2200x2500 C4	3600x3000	3600x3050			

Car with Front Wall

Load	Speed	Max. Travel (TR)	Car Size		Door Opening Size (JJ x HH)	Shaft Size		Min.pit depth (PP)	Min. Overtravel (OH)	Machine Platform Height (HM)
			Single Entr. (AA x BB x HK)	Thro Entr. (AA x BB x HK)		Single Entr. (AH x BH)	Thro Entr. (AH x BH)			
[kg]	[m/s]	[m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
2000	0.5/ 0.63/ 0.75/ 1.0	60	1500x2700x2300	1500x2550x2300	1400x2300 C4	2600x3150	2600x3200	1400	4200	2300
			1800x2200x2300	1800x2100x2300	1700x2300 C4	2900x2650	2900x2750			
2500	0.5/ 0.63/ 0.75/ 1.0	60	1800x2650x2500	1800x2550x2500	1700x2500 C4	3000x3100	3000x3200	1450	4400	2300
3000	0.5/ 0.63/ 0.75/ 1.0	60	2000x2750x2500	2000x2650x2500	1800x2500 C4	3200x3200	3200x3300	1450	4400	2300
			2200x2500x2500	2200x2400x2500	2000x2500 C4	3400x3000	3400x3050			

Standard function

Item	Function	Description
1	CollectiveSelective	The lift registers all the entered car calls and floor calls. When the lift car travelling upward, car calls and upward floor calls are served. When the lift car travelling downward, car calls and downward floor calls are served. The travel direction is maintained until all registered car calls and floor calls in that direction are served.
2	Power on auto open door	After power on, door opens automatically if the car is at any landing.
3	Auto door open (to serve registered call)	When the lift is operated under 'Normal' mode, door opens automatically when the car is at the destination.
4	Auto door open (at landing)	When a floor call is registered, door opens automatically if the car is at that landing.
5	Adjustable door open time	The dwell time between door opens completely and door starts to close is adjustable to suit for the actual situation.
6	Auto door close	When the lift is operated under 'Normal' mode and the door opens completely, door will close automatically when the dwell time is elapsed.
7	Door close in advance	When the lift is operated under 'Normal' mode and the door opens completely, passenger can press door close button to shorten the dwell time.
8	Door close fault alarm	If the door does not fully close within the pre-defined time, the system will force to close again. Fault alarm will be enabled if the door fails to close after 6 times.
9	Landing door interlock protection	All landing door locks must be closed under normal operation. Any of the door lock is open or not securely closed, the lift stops immediately.
10	Inspection operation	When the operation is activated either at the car top or in the lift pit, the lift inspector can operate the lift traveling in up/down direction at inspection speed.
11	Evacuation when lift fault	If the car stops in locking zone due to lift fault, the lift system will try to move the car to the nearest landing at reduced speed, and open the door to release passengers.
12	Self-learning trip	Before the lift car runs at rated speed, self-learning trip must be enabled to record all the lift shaft data in the controller permanently.
13	Floor button self-check	Any floor call button is pressed continuously >20s, this button will be deemed as faulty and isolated. The corresponding landing indicator will blink to alert.
14	Recovery from power failure	If the lift car stops in locking zone due to power failure, the lift system will try to move the car to the nearest landing and recover when the main power supply is back.
15	WDT protection	The protection is provided on the main control board. Any fault is detected in the CPU, WDT circuit forces to stop output signal and restart CPU.
16	Door light curtain protection	A light curtain is provided at each car door. When an obstacle is detected in the doorway, the door stops closing and re-opens.
17	Overspeed protection	If the traveling speed is measured >115% of rated speed for >500ms under normal operation, the lift decelerates until car stops. If the fault is not corrected after the 2nd failure, no signal will be sent from the controller and lift alarm will be activated to alert.
18	Overload protection	When overload is detected, audio and visible signal will be activated to alert passengers. Door remains open and the lift car stays at the landing.
19	Reversal travel detection	Under 'Inspection' mode, if the buttons operate the car traveling in reverse direction >3s, the lift stops and activate lift alarm.
20	Anti-skid protection	If the motor speed and lift car traveling speed are detected not synchronous, the motor brakes and activate lift alarm.
21	Error log	Error when self-diagnosed will be logged for lift analysis.
22	Over travel protection	If the car travels close to the terminal of travel, in case of car no decelerate to expected speed, The car is forced to decelerate.
23	Limit switches	If the car travels over the upper/lower limit stop, the switch will be activated to open the safety circuit and stop the car drive. Then the car travels in opposite direction till leveling to restore normal mode.
24	Final limit switches	If the car travels over the upper/lower terminal stop, the switch will be activated to open the control circuit and stop the lift drive.

Standard Function

25	Travel time out detection	If the lift car is detected being stalled, the lift stops and activate lift alarm.
26	Contactora failure protection	Detect if the contactora of motor circuit is reliable.If it is detected failure,car stops and in failure protection mode.
27	Safety circuit protection	The safety circuit must be monitored all the time. If the circuit opens, the lift stops immediately and activate lift alarm.
28	Brake failure detection	Machine brakes are always monitored. If any brake is detected inactive, the lift stops immediately.
29	Inverter fault detection	If any fault from inverter is detected, the lift car stops. The lift operation will be resumed once the fault is removed.
30	Encoder fault detection	If any inconsistent signal from encoder is detected, the lift car stops.
31	Fire alarm homing	When fire alarm signal is received, all lifts should travel to the fire recall floor immediately and allow passengers to exit the cars. Then the lifts are not available for normal use.
32	Car slip alarm	If any pulse is detected for 3 seconds after the lift car stops, activate lift alarm.
33	Lift fault auto-stop	If a lift fault happens when the car is not in unlocking zone (safety circuit must be closed), the system will move the car to the nearest landing to release passengers.
34	Full load bypass	When the car is fully loaded, it serves only car calls and ignores floor calls.
35	Floor lock off	The landing can be locked off for normal car and floor call registration, to prevent egress and ingress at this landing.
36	Out of service switch	When "Out of Service" is activated, the lift car will be blocked at a particular floor after all registered calls are served. The "Energy Saving" mode is then switched on.
37	Alternative stop	If the car arrives the destination without door lock open > 8s, the system will move the car to the nearest landing to release passengers.
38	Auto homing	When there is no car/floor call registered in a pre-determined time, the system will move the car to the home floor.
39	Arrival gong (at car)	When the lift car is arriving at a landing to serve a registered call, a tone will be generated inside the car to inform passengers.
40	Emergency light	When power failure occurs, the emergency light on the car operating panel will be switched on automatically.
41	Lift alarm button	When there is incident or abnormal operation, passengers inside the car can press the alarm button and ask for assistance.
42	Energy saving mode	When no car or floor call is registered for a period of time, the lift shall be put in standby mode. The fan and lighting inside the car shall be switched off automatically.
43	Emergency electrical operation	If the lift stops due to open safety circuit, the lift car can be moved to the nearest landing at a reduced speed to release passengers.
44	Car call cancellation	Passengers can cancel the registered car call.
45	Special symbols display	Special symbols are available to be displayed on the car/landing position indicator.
46	Lift status display	Lift travel status, direction, position, etc. can be displayed on the main control board LCD inside control cabinet.
47	Lift timer	The time for lift normal operation auto start/shut-down can be set manually.
48	Car door lock (except C2 door)	In case the lift car stops incidentally outside unlocking zone, it is not possible to open the car door from inside the car by all means.
49	Anti- nuisance (optional for freight lifts)	Car calls may be cancelled to prevent unnecessary trips caused by erroneous/excessive registered car calls when the car is empty.
50	Door pre-opening (optional for freight lifts)	When the car enters unlocking zone, the door starts to open before the car comes to a stop at the landing. It saves passenger and system time.
51	Emergency operation (for Passenger/Bed lifts only)	When an emergency service is activated, the selected lift car will be recalled and get ready for destination calls.
52	Unintended car movement protection	When an unintended car movement happens either in up or down direction, the detection means becomes active and the lift car will stop within the distances defined by EN code.
53	Emergency power operation	After the mains power failure, an emergency power will be.
54	Attendant control	The lift can be operated by a lift attendant, to bypass floor calls, to change travel direction, etc.

Optional Functions

Item	Function	Description
1	Group control (duplex/ multiplex) ^{A)}	Collective selective operation can be provided for a lift group up to 4 lifts. Floor calls will be served by the "best" lift car.
2	Automatic rescue device (for inverter power ≤30kW)	When the mains power failure happens, the UPS will be switched in to drive the lift car to the nearest landing for evacuation.
3	AV travelling cables ^{B)}	Audio for PA and video for CCTV travelling cables can be provided between the lift car and the controller in machine room.
4	Power recuperation	The inverters are able to recuperate electrical energy to the line so as to save energy.
5	Voice announcement	When the pre-defined signals are triggered, standard verbal messages shall be announced inside the lift car.
6	Hall lantern	The hall lantern illuminates to indicate the car travel direction of the next trip.
7	Interface to earthquake control	When an earthquake signal is received, the lift car will stop at the next landing for evacuation.
8	Supervisory panel	A desk-mounted panel indicates the status of the lift operation. Generally the panel is located in the building management office.
9	Building monitoring interface	The interface provides lift status information (e.g. travel direction, car position, fault signals, etc.) via dry contacts.
10	Floor access with card reader	The authentication is done via an IC card. The passenger can swipe a valid IC card at the card reader to register a car call to a locked floor.
11	Extension of door open time	Passenger can press a special button provided inside the lift car, to extend the time of door staying open.
12	Intercom system	A voice communication with multi-channel can be provided for emergency use and maintenance.
13	Lift shaft lighting	Lighting c/w wiring can be provided along the lift shaft, as per EN code requirement.
14	Emergency exit at car roof	Passengers can be rescued from outside lift car in case of emergency.
15	Interface to 3rd party devices	Any 3rd party devices (card reader, intercom, car position indicator, computerised supervisory panel, etc.) should be checked by the manufacturer. Detailed information is required from the customers.
16	Provisions for "Barrier Free Access" (not for freight lifts)	A standard package for handicapped passengers, comprises voice announcement, push buttons with Braille and horizontal auxiliary car operating panel.

Remarks

- A) If the lifts in a group serve with unequal floors, always check with XJS for the best solution.
- B) Audio cable is twisted-pair (0.75mm²); video cable is 75Ω (SYV75-5).