GKE

GPN65

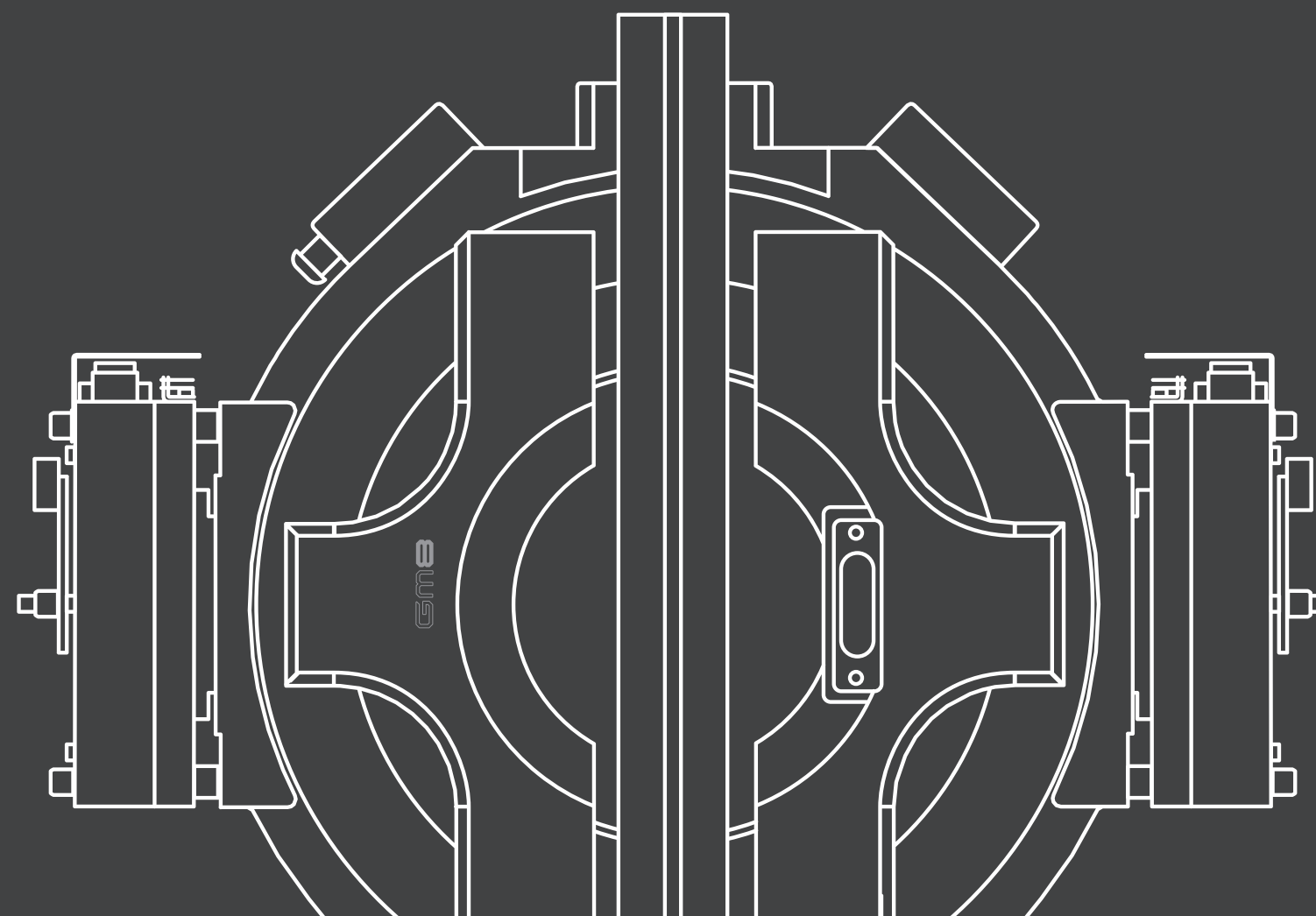## Passenger Elevator (MRL)

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GKE is a strategic brand of GiantKONE Elevator Co., Ltd. in overseas market. GiantKONE, founded in 2005, is a leading Elevator & Escalator solution provider in China market.

As a key member of a highly acclaimed inter-national enterprise, our mission is to make urban life better with products and services of excellent affordability, outstanding technology, and remarkable reliability over the full life cycle.

Speed (m/s)	Load capacity (kg)	Maximum number of stops	Maximum travel distance (m)	Maximum number of group control units
1.0	400/630/800/1000/1050 /1150/1250/1350/1600	18	55	4
1.6	630/800/1000/1050 /1150/1250/1350/1600	28	80	4
1.75	630/800/1000/1050 /1150/1250/1350/1600	28	80	4

Note: GPN65 is available for scenic elevator and bed elevator. For more information, please contact GKE sales team.
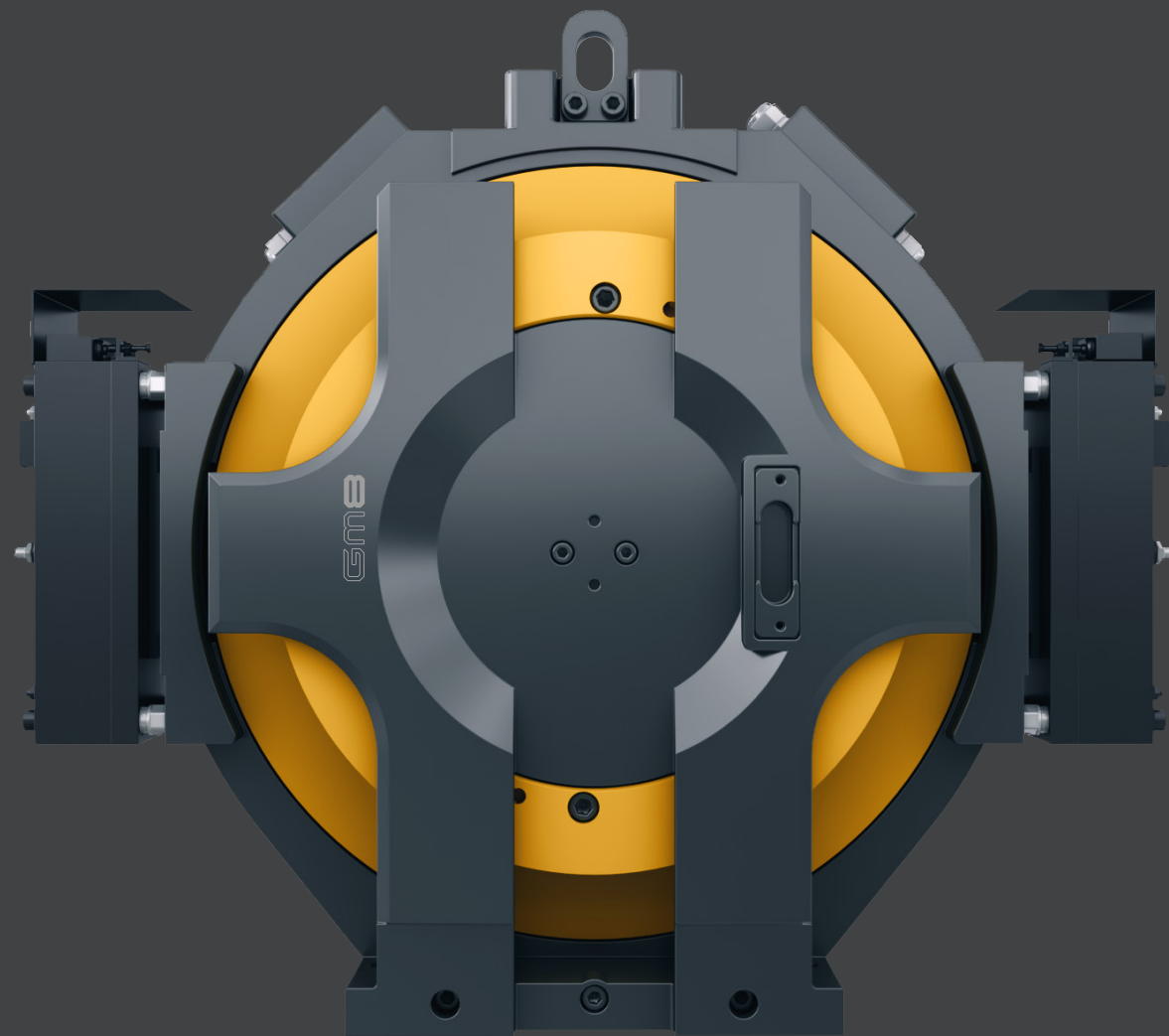
GM
DISC MOTOR

reddot winner 2020

The New Authority In Energy Efficiency

Gm8

- Adopting non-contact magnetic ring encoder, stable and reliable performance, easy maintenance.

- Ultra-thin body design, flat structure facilitates heat dissipation while effectively improving the utilization rate of the shaft.

- The newly designed embedded wire slot type can significantly reduce the internal resistance of the winding and improve the efficiency of the motor.

- Brake mute design can effectively reduce the noise of braking system.

- The floating and fixed motor method filters main engine vibration, ensuring smooth cabin running and passenger comfort.

- The new outer rotor structure improves load bearing capacity.

* The images are for reference only. The actual product may vary based on model, batch, or customer requirements.

NEW INTELLIGENT TECHNOLOGY

Intelligent Control System

- ◼ Dual 32-bit control system for faster computing and more compatibility.

- ◼ Serial transmission for more accurate and reliable signal control.

- ◼ A perfect mix of centralized and decentralized processing, faster response and more stable communication.

- ◼ R485 and modular design for easy setup.

- ◼ Advanced shaft signaling ensures efficient operation and precise levelling.

- ◼ Several optimized operating curves are automatically generated for a comfortable riding experience.

- ◼ Stop directly, shorten operation and waiting time.

Conventional operation curve

New system operation curve
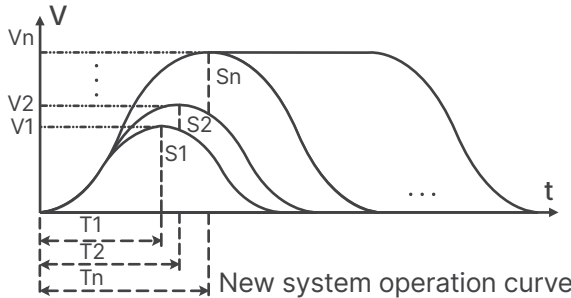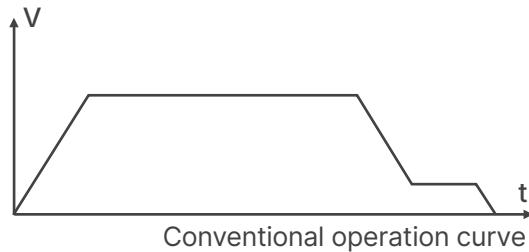
Safety first

Safety is the top priority for GKE pro-ducts. We never slack in any stage of the pro-cess. Intelligent monitoring keeps an eye on the whole elevator process. Tested products make sure every elevator works well.
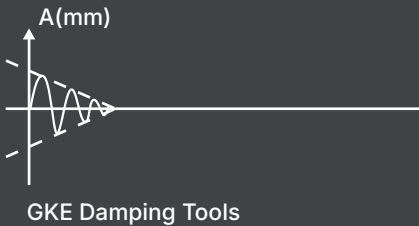
Comfortable ride

GPN65 is designed and manufactured in ac-cordance with global standards of comfort. It has various patented technologies, including vector conversion technology, car displacement detection with millimeter-level accuracy, a unique double vibration damping function, and a fully digitalized door control system.

Environmental-friendly

GPN65 meets VDI4707-1 and ISO25745-2 Grade A energy efficiency standards, with LED lighting, intelligent fan, permanent magnet synchronization, and gearless trolling technology.

Gearless traction technology adjusts the motor current in real time, saving up to 40% energy compared to traditional geared elevators. It is 40% more energy efficient and can be equipped with an advanced energy feedback system to further reduce energy consumption by 20%.

General Damping Tools

GKE Damping Tools

Conventional mainframe noise

Disc Motor noise

SAFETY FIRST COMFORTABLE ENERGY EFFICIENT

WITH THE ARCHITECTURAL STYLE OF YOUR BUILDING

GKE offers a wide range of customized finishes options to meet the different needs of our customers.
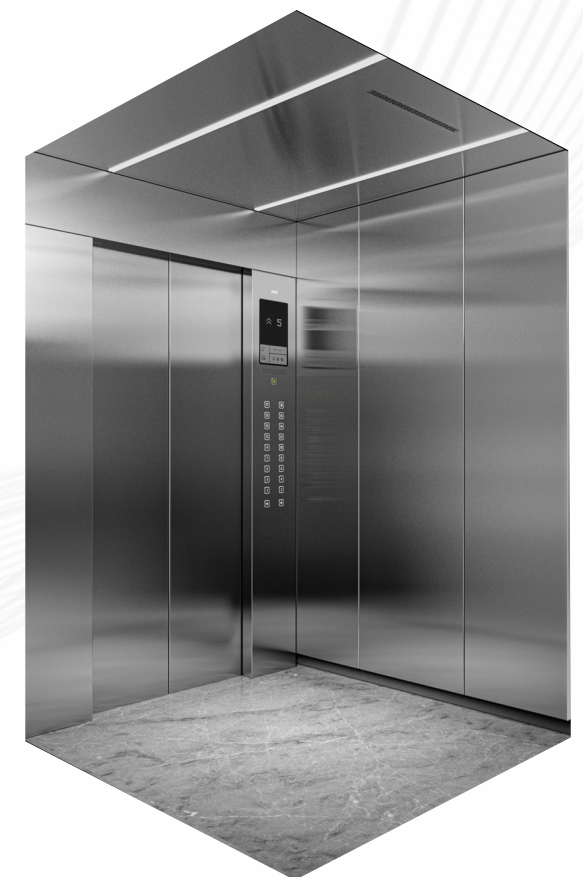

GKE

Ceiling: G1025055_ST
(Stainless steel 304, LED light)
Car Wall: Hairline stainless steel (304)
Floor: 51950073 (PVC)
COP: 218 (Std.) and 358PLUS (optional, Swing)

Car with COP 218

Car with COP 358 PLUS

| CEILING |
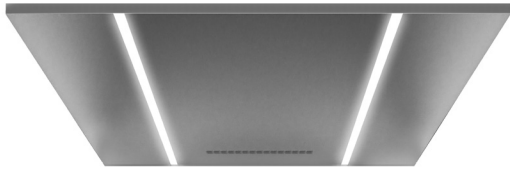
G1025055_ST
Stainless steel, LED light
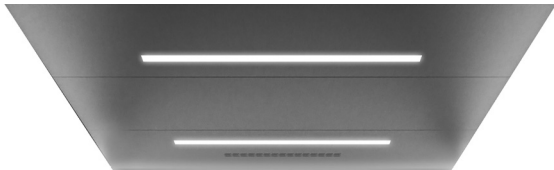
G1025056_ST
Stainless steel, LED light

G1025036
Stainless steel, LED light

G1025050_ST
Stainless steel, LED light

Note: Option of painted steel sheet available.

| FLOOR |
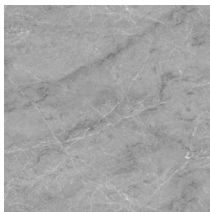
51950073
(PVC)

51950074
(PVC)

51782380
(PVC)

51782381
(PVC)

Note: Option of marble available.

| HANDRAIL |

G32104

G32105

| COP |

218 (Std.)

| COP Display type |

Dot Matrix

Segment

| LOP |

Simplex

Duplex

| LOP Display type |

Dot Matrix

Segment

358PLUS
(Optional, Swing)

| Button |

ELECTRICAL FUNCTION CONFIGURATION TABLE

● Standard
○ Optional

SECURITY FUNCTIONS

Rescue and fault monitoring

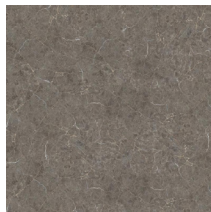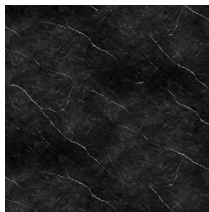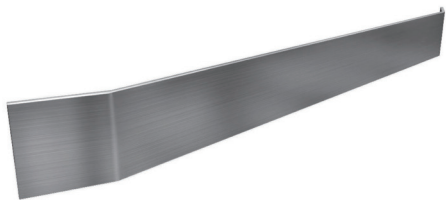| Code	Description	
ASC T	Uplink overspeed protection	●
BFS	Buffer detection	●
BMV R	Resistor braking	●
CCM A	Call in the machine room	●
CDC	Car door detection	●
CDL O	Car door limit	●
CLF M	To control the car lighting in the machine room	●
COD	Correction run	●
DCD	Door lock detection	●
DOP	No door allowed	●
DSC	Downstream overspeed protection	●
DTS	Run time detection	●
EEC C	Car exit detection	○
EEC S	Shaft exit inspection	○
EMH O	Pit emergency stop	●
EMR	Car roof emergency stop	●
IDJ	Communication evaluation	●
LAF	Stop at a different station	●
LCM A	Machine room outbound calls	●
MAF M	Machine room main switch	●
MOP T	Overheating protection	●
OLP	Trip protection	●
OSG CM	Speed limiter safety switch	●
PAS U	Give priority to release	●
PDD N/R	Phase detection	●
RDC O	Repeatedly opening and closing the door	●
RDF CN	Rescue run	●
SDB	Fault self-diagnosis	●
SGE	Safety gear safety switch	●
TEL	Failure classification	●
TWS C	Car speed limiter rope Tightening safety switch	●
UCMP	Car accidental movement protection	●

Code	Description	
ACU C	Voice comfort	●

Emergency operation

Code	Description	
FID AO	Firefighting standby	○
FID BO	Firefighting deactivated	○
FRD	Firefighting operation	○
FRI	Fire linkage	●
LPS VN	Run synchronously	●

Emergency backup power operation

Code	Description	
CEL S	Emergency lighting	●
EBS S	Emergency power supply	●
EPD MCF	urgent power supply	○
PEL	Emergency leveling	○

Emergency communications

Code	Description	
ABE C	Car roof alarm bell	○
ISE F	Five-way calling	●
ISE N	Multi-party call	○

CONTROL FUNCTION

Priority and special service function

Code	Description	
ATS C	Driver function	○
AUD I	Audio interface	○
CCR	IC card	○
CSM UN	Forced docking	○
CTV I	Video interface	○
DOE B	Door opening delay	○
EAQ	Earthquake detection	○
EFC	Energy feedback	○
FRE	Quick recall	○
LOC E,O	Incoming call lock	○
LOL E,O	Outbound call lock	○
OSS COI	Car exit	○
OSS LC	Floor exit	●
PRC	Priority service	○
PRC KI	Incoming call priority (continuous)	○

Code	Description	
PRL LA / LO	Outbound call priority	○
SED WSR	Maintenance operation	●
PCF	Visitor linkage	○

Idle car allocation

Code	Description	
ADF	Drive away automatically	○
PAM C	Idle waiting for passengers	●
PAS C	idle waiting for passengers, sub-floor	○

Optimize the traffic flow function

Code	Description	
BLF	Direct drive with full load	●
DUP	Parallel operation	○
GC	Group control operation	○
IDP	Downstream peak service	○
ITP	Upstream and downstream peak services	○
IUP	Upstream peak service	○

INFORMATION FUNCTIONS

Information display outside the car

Code	Description	
BPI	Full load display	○
CPI LO	Car position, dot matrix	○
CPI LS	Car position, segment code	●
DIA L	Running direction display	●
LCL	Outbound call registration display	●

Information display in the car

Code	Description	
ACU F	Voice station announcement	●
CCL	Incoming call display	●
CPI CO	Car position, dot matrix	○
CPI CS	Car position, segment code	●
CRB C	Internal call buzzer	○
DIA C	Running direction display	●
OLF C	Overload reminder	●

Information display on the maintenance control screen

Code	Description	
CIL A	Control cabinet parts labels	●
CPI PS	Location indication	●
SCN N	Start count	●

Remote monitoring screen display

Code	Description	
HES	Community monitoring	○
LIL	BA interface	○

PASSENGER COMFORT FUNCTIONS

Entering and exiting the car

Code	Description	
ACL B	Precise re-leveling	●
ADO	Open early	●
BOF	Inspection and switch door	●
DCB I	Close the door inside the car	●
DOB OI	Open the door inside the car	●
NDC	Forced to close the door	○
QCC	Close quickly	○
RAA	Start outbound call response	●
REO S	Outbound calls reopen	●
SRC RNC	Light curtain detection	●
SSR	Self-rescue operation	●

Abuse, misuse protection

Code	Description	
CCB	Reverse internal call	●
CRC	Command elimination	●
FCC C	Internal calls to prevent trouble	●
LCC	Outbound call interlock	●
SPB BP	Button anti-adhesion	●

Ride comfort

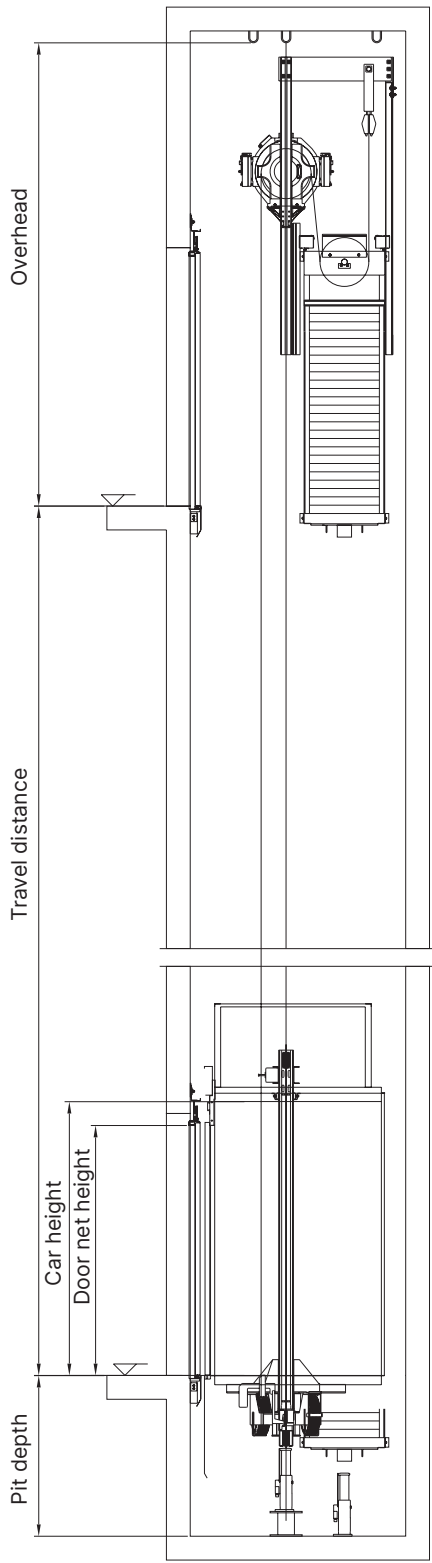| Code	Description	
AGC	Automatically generate curves	●
DIR S	Dock directly	●
OCL A	Car lighting energy saving	●
OCL AF	Car lighting control	○
OCV A	Car ventilation and energy saving	●
OCV AF	Car ventilation control	○
STP	start compensation	●

LAYOUT AND SPECIFICATION
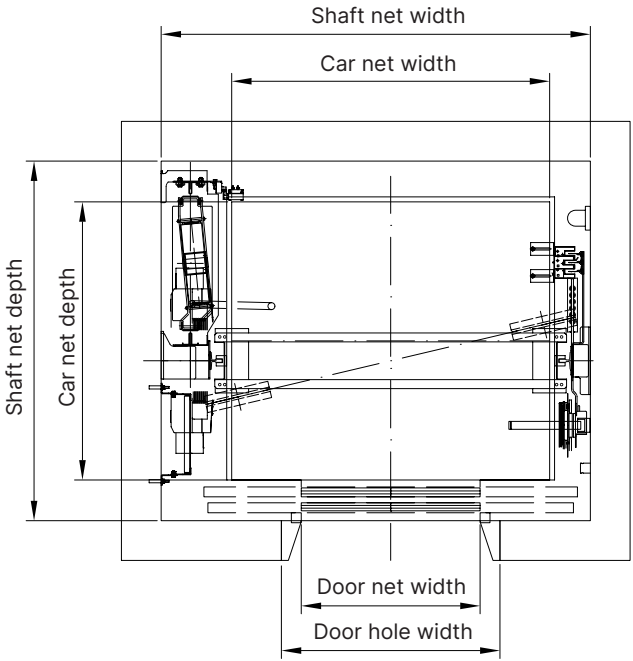
Sectional drawing of the shaft
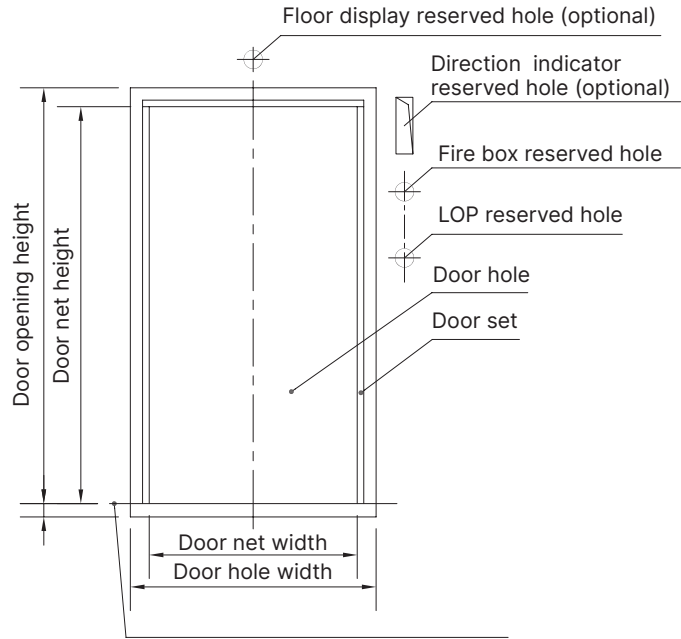
Door hall and LOP

Side view of the shaft

Persons/Load Capacity (kg)	Car dimensions (mm)	Car type	Car area (m²)	Door width (mm)	Door hole width (mm)	Minimum shaft dimensions (mm)	COP Position
5/400	1100×1000	SEC*	1.10	700	900	1700×1375	S(Side)
8/630	1100×1400	SEC	1.54	800	1000	1750×1690	S(Side)
		TTC*	1.54	800	1000	1750×1810	S(Side)
		SEC	1.54	900	1100	1950×1690	S(Side)
		TTC	1.54	900	1100	1950×1810	S(Side)
10/800	1350×1400	SEC	1.89	800	1000	1950×1690	F(Front)
		TTC	1.89	800	1000	1950×1810	F(Front)
		SEC	1.89	900	1100	1950×1690	S(Side)
		TTC	1.89	900	1100	1950×1810	S(Side)
13/1000	1600×1400	SEC	2.24	900	1100	2200×1800	F(Front)
	1400×1600	TTC	2.24	900	1100	2000×2010	S(Side)
14/1050	1600×1500	SEC	2.40	900	1100	2200×1850	F(Front)
	1600×1500	TTC	2.40	900	1100	2200×1910	F(Front)
15/1150	1800×1450	SEC	2.61	1000	1200	2350×1825	F(Front)
	1300×2000	TTC	2.73	900	1100	1950×2410	S(Side)
16/1250	1950×1400	SEC	2.73	1100	1300	2645×1875	F(Front)
	1300×2200	TTC	2.86	900	1100	1995×2610	S(Side)
18/1350	1950×1500	SEC	2.93	1100	1300	2680×2065	F(Front)
	1300×2300	TTC	2.99	900	1100	2030×2710	S(Side)
21/1600	1950×1750	SEC	3.41	1100	1300	2680×2190	F(Front)
	1400×2400	TTC	3.36	1000	1200	2150×2810	S(Side)

"SEC" stands for a single-door elevator car, and "TTC" stands for a through-door elevator car.

Persons/Load Capacity (kg)	Speed (m/s)	Door height (mm)	Car height (mm)	Minimum pit depth (mm)	Minimum overhead (mm)
5/400	1.0		2400	1220	3780 (3680)*
8/630	1.0		2400	1220	3780 (3680)
	1.6		2400	1350	3970 (3870)
	1.75		2400	1350	3990 (3890)
10/800	1.0		2400	1220	3780 (3680)
	1.6		2400	1350	3970 (3870)
	1.75		2400	1350	3990 (3890)
13/1000	1.0		2400	1220	3780 (3680)
	1.6		2400	1350	3970 (3870)
	1.75		2400	1350	3990 (3890)
14/1050	1.0		2400	1220	3780 (3680)
	1.6		2400	1350	3970 (3870)
	1.75	2100	2400	1350	3990 (3890)
15/1150	1.0		2400	1220	3780 (3680)
	1.6		2400	1350	3970 (3870)
	1.75		2400	1350	3990 (3890)
16/1250	1.0		2400	1380	3850 (3750)
	1.6		2400	1550	4000 (3900)
	1.75		2400	1600	4000 (3900)
18/1350	1.0		2400	1380	3850 (3750)
	1.6		2400	1550	4000 (3900)
	1.75		2400	1600	4000 (3900)
21/1600	1.0		2400	1380	3850 (3750)
	1.6		2400	1550	4000 (3900)
	1.75		2400	1600	4000 (3900)

* Minimum overhead (the data in parentheses calculated based on car height of 2300mm and door height of 2100mm).