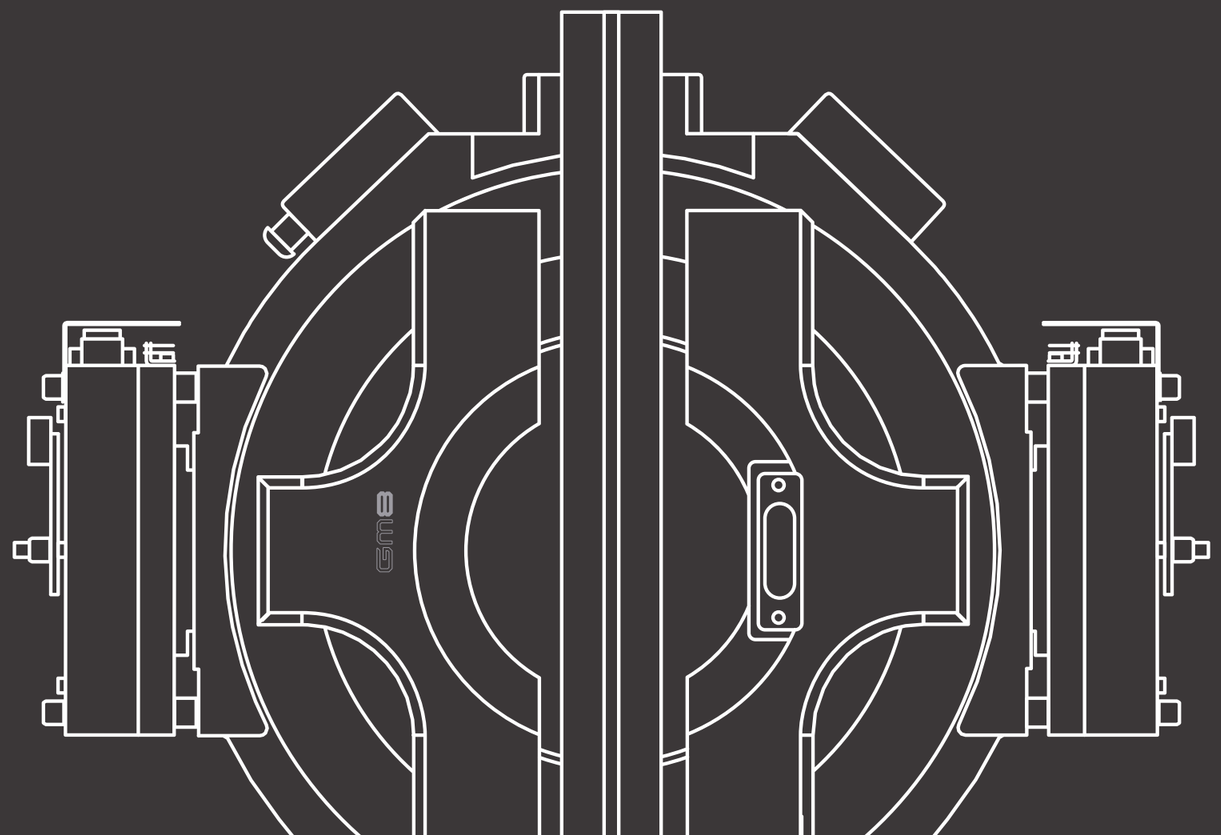
GPN65

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.

GPN65(MRL) Specifications

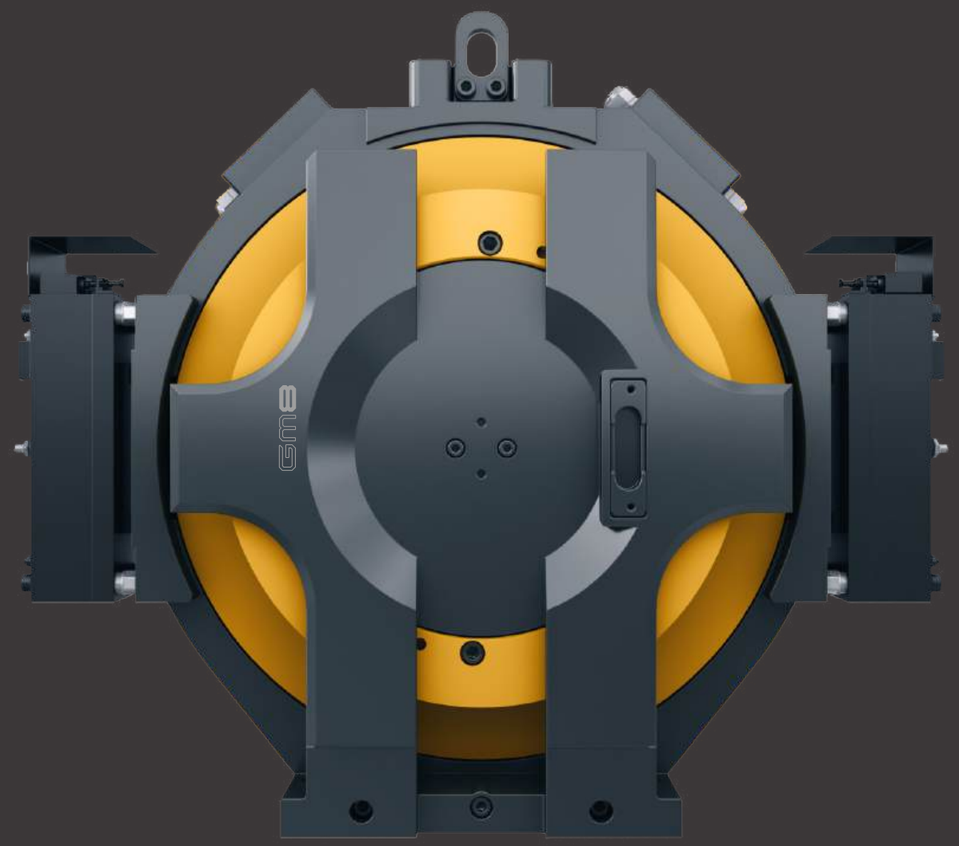
Speed (m/s)	Load capacity (kg)	Maximum number of stops	Maximum travel distance (m)	Maximum number of group control units
1.0	400/630/800/1000/1050 /1150/1250/1350/1600	18	55	4
1.6	630/800/1000/1050 /1150/1250/1350/1600	28	80	4
1.75	630/800/1000/1050 /1150/1250/1350/1600	28	80	4

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

DISC MOTOR

reddot winner 2020

The New Authority In Energy Efficiency



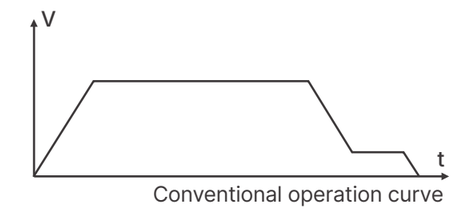
- Adopting non-contact magnetic ring encoder, stable and reliable performance, easy maintenance.
- Ultra-thin body design, flat structure facilitates heat dissipation while effectively improving the utilization rate of the shaft.
- The newly designed embedded wire slot type can significantly reduce the 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.

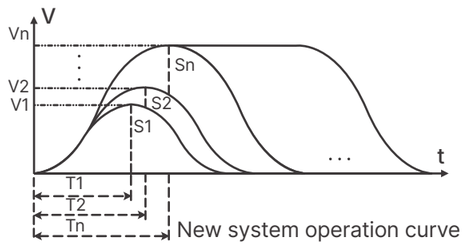
NEW INTELLIGENT TECHNOLOGY

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.

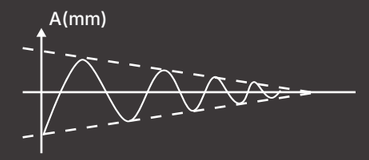
Comfortable ride

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

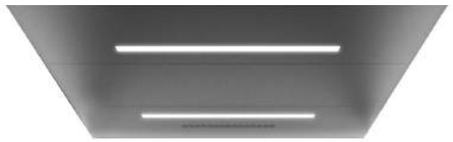
Ceiling: G1025055_ST
(Stainless steel 304, LED light)
Car Wall: Hairline stainless steel (304)
Floor: 51950073 (PVC)
COP: 218 (Std.) and 358PLUS (optional, Swing)

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

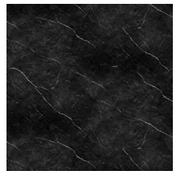
Note: Option of painted steel sheet available.

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

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	●
ACU C	Voice comfort	●

Emergency operation

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

Emergency backup power operation

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

Emergency communications

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

CONTROL FUNCTION

Priority and special service function

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

Idle car allocation

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

Optimize the traffic flow function

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

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

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

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

Remote monitoring screen display

HES	Community monitoring	○
LIL	BA interface	○

PASSENGER COMFORT FUNCTIONS

Entering and exiting the car

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	●

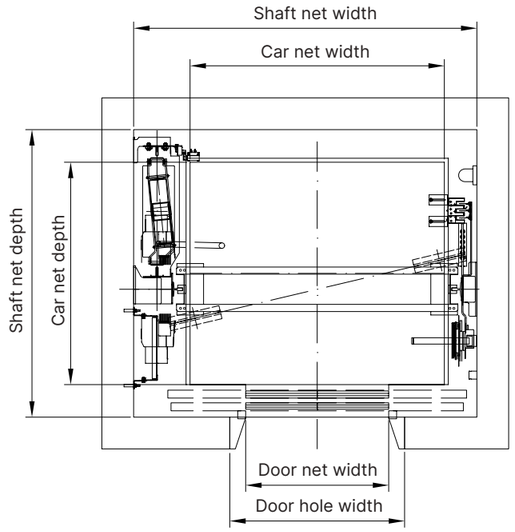
Abuse, misuse protection

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

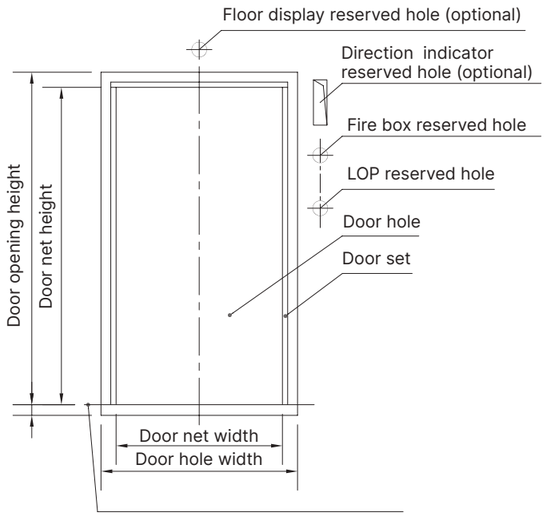
Ride comfort

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	●

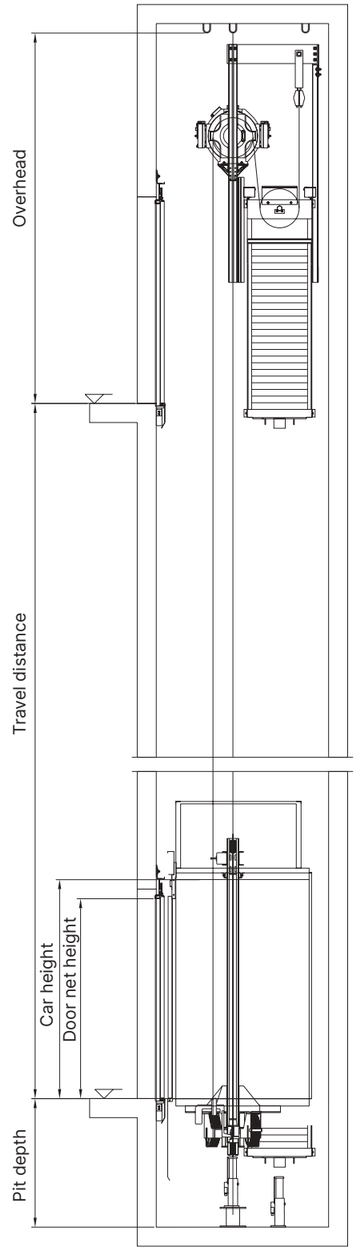
LAYOUT AND SPECIFICATION



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 (m^2)	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	2100	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		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).