Freight Elevator(SMR)

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GFS25 GFN25 Freight Elevator(MRL)





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 international 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. Freight elevator adopts high efficiency and energy-saving permanent magnet synchronous gearless traction machine, new 4:1 structure suspension system layout, door drive mechanism with excellent performance, high-strength, and wear-resistant car design. It is suitable for factories, production lines, warehouses, shopping malls, shopping centers, exhibition halls, and other places.

GFS25/GFN25 Specifications

Speed (m/s)	Load Capacity (kg)	Maximum Travel (m)	Maximum Number of Landings
0.5	2,000/3,000/5,000	30	12
1.0	2,000/3,000/5,000	50	16

Classification of loads

The elevator is used based on the type of load, which is divided into three categories.

Class A loads

Loading and unloading by hand or with the aid of light carts. The load should be evenly distributed on the bottom of the car. It should not be concentrated in one place.

Class C loads

- C1: Industrial truck load, the truck can be transported with the elevator. The total weight of the handling tool and the goods during loading and unloading shall not exceed the elevator's maximum weight capacity.
- * Remark: For freight elevators, the default setting is C1; for other Class C loads, please consult the relevant GKE technical staff.

02



ENERGY EFFICIENT PERMANENT MAGNET SYNCHRONIZATION GEARLESS TRACTION MACHINE

SPACE SAVING

The permanent magnet synchronous lift saves space and improves performance. It is easy to transport, lift and install.

STABLE OPERATION

The gearless traction machine does not need to use a gear reduction mechanism, which makes it quieter and smoother.

3 GREEN AND ENVIRONMENTALLY FRIENDLY

The gearless traction machine doesn't need lubricating oil.

There's no need to replace the oil in the daily maintenance process.

It avoids the pollution and flammable danger caused by the leakage of oil.

4 ENERGY SAVING AND CONSUMPTION REDU-

The gearless tractor has a low starting current and high transmission efficiency.

The gearless tractor uses less energy than conventional machines.

INTELLIGENT CONTROLLER

- Advanced vector control technology offers superior motor speed regulation, enhancing elevator comfort during operation.
- The integration of modular computer control and reliable frequency conversion technology creates a compact system, greatly improving control and operational efficiency.
- Convenient door nudging button allows for hands-free operation when handling goods.
- Reinforced cabin and door design reduces wear and tear caused by cargo collisions.
- The car frame, bottom, guide rails, and other components can be tailored to different working conditions and customer needs, offering flexibility.



STABILITY AND RIDE COMFORT WITH RELIABLE & LONGER LIFETIME



Leveling accuracy ±5mm



Intelligent Light Curtain System



Voice call system



Wide loading space



Durable Car Design

FLEXIBILE DECORATION TO COMPLEMENT BUILDING DESIGN

Load Capacity ≤5000kg

218 (Std.)



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Dot Matrix

Segment

B - Built-in(Standard) O - Optional

ITEMS	MATERIAL	CONFIGURATION
Carwalla ^e Cardoor	Painted steel plate	В
	Hairline stainless steel	0
COP face plate	Hairline stainless steel	В
Floor	Checkered steel plate	В
Door ball & door framo	Painted steel plate	В
	Hairline stainless steel	0
Wall frame	Painted steel plate	0
vvan name	Hairline stainless steel	0

Car with COP 218



CEILING: Integrated ceiling for freight elevators (safety windows for MRL freight elevators) CAR WALLS: Painted steel plate CAR DOOR: Painted steel plate COP: 218 FLOOR: Checkered steel plate

/ Color options for Painted steel plate /





RAL 7005 Fresh Gray

RAL 9010 Ivory White

ELECTRICAL FUNCTION CONFIGURATION TABLE

• Standard

SECURITY FUNCTIONS

Rescue ar	nd fault monitoring	
	Uplink overspeed protection	
		0
		0
		0
	Car lighting switch	
	Downstream overspeed protection	
	Shaft exit inspection 0	
	Pit emergency stop	
	Car roof emergency stop	
	Speed limiter safety switch	0
		0
	Repeatedly opening and closing the door	0

RDF CN		
	Fault self-diagnosis	
	Car speed limiter rope Tightening safety switch	
	Car accidental movement protection	
Emergenc	y operation	
	Firefighting deactivated	
	Firefighting operation	
Emergenc	y backup power operation	
	Emergency lighting	
	Emergency power supply	
PEL	Emergency leveling	
Emergenc	y communications	

CONTROL FUNCTION

Priority a	and special service function	
	Video interface	
	Door opening delay	
	Earthquake detection	
	Energy feedback	

	Maintenance operation							
Idle car a	llocation							
	Idle waiting for passengers							
	idle waiting for passengers, sub-floor							
Optimize	the traffic flow function							
DUP	Parallel operation	0						

INFORMATION FUNCTIONS

nformatio	n display outside the car	
	Car position, segment code	
	Running direction display	
	Arrival light	
	Outbound call registration display	
nformatio	n display in the car	
	Incoming call display	
	Car position, segment code	
	Running direction display	
	Overload reminder	
nformatio on the mai	n display intenance control screen	
	Control cabinet parts labels	
	Warning signal	

Remote m	onitoring screen display	

PASSENGER COMFORT FUNCTIONS

Entering a	and exiting the car	
	Open early	
	Close the door inside the car	
	Open the door inside the car	
	Start outbound call response	
	Outbound calls reopen	
	Light curtain detection	
Abuse, mi	isuse protection	
	Internal calls to prevent trouble	
Ride com	fort	
	Car lighting control	
	start compensation	

LAYOUT AND SPECIFICATION (GFS25)





Sectional drawing of the shaft

Sectional drawing of the machine room

SINGLE DOOR

Load Capacity (kg)	Speed (m/s)	Maximum number of stops	Maximum travel distance (m)	Car width (mm)	Car depth (mm)	Car height (mm)	Door size (mm)	Shaft width (mm)	Shaft depth (mm)	Overhead (mm)	Pit depth (mm)	Machine room height (mm)	Classification of loads
2000	0.5	12	30	1500	2700	2200	1500×2200	2600	3100	4000	1400	2100	А
	1.0	16	50	1500	2700	2200	1500×2200	2600	3100	4050	1400	2100	А
3000	0.5	12	30	2000	2800	2200	2000×2200	3300	3200	4000	1400	2100	А
	0.5	12	30	2000	2800	2200	2000×2200	3300	3200	4350	1400	2100	С
	1.0	16	50	2000	2800	2200	2000×2200	3300	3200	4050	1400	2100	А
5000	0.5	12	30	2400	3600	2400	2400×2400	4000	4000	4300 (4800* ¹)	1500	2500	С
	1.0	16	50	2400	3600	2400	2400×2400	4000	4000	4350 (4800* ¹)	1500	2500	С

*1: This dimension is only applicable to elevator cars with six-rail arrangement.

The maximum number of stops in this table shall be calculated based on the actual Car height or door height and is not proportional to the maximum number of stops.

* The layout plans on this page are for reference only, please contact the GKE team for specific layouts.



Side view of the shaft



12

LAYOUT AND SPECIFICATION (GFN25)



Sectional drawing of the shaft

SINGLE DOOR

Load Capacity (kg)	Speed (m/s)	Maximum number of stops	Maximum travel distance (m)	Car width (mm)	Car depth (mm)	Car height (mm)	Door size (mm)	Shaft width (mm)	Shaft depth (mm)	Overhead (mm)	Pit depth (mm)	Classification of loads
2000	0.5	12	30	1500	2700	2200	1500×2200	2730	3100	4300	1500	А
	1.0	16	50	1500	2700	2200	1500×2200	2730	3100	4300	1500	А
3000	0.5	12	30	2000	2800	2200	2000×2200	3672	3200	4400	1500	А
	0.5	12	30	2000	2800	2200	2000×2200	3672	3200	4400	1500	С
	1.0	16	50	2000	2800	2200	2000×2200	3672	3200	4400	1500	А
5000	0.5	12	30	2400	3600	2400	2400×2400	4300	4000	4700	1700	С

The maximum number of stops in this table shall be calculated based on the actual Car height or door height and is not proportional to the maximum number of stops.

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Side view of the shaft

