



KONE 2000

FREIGHT ELEVATOR

(Machine Room and Machine Room-Less)

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, resulting in quieter and smoother operation.

Green And Environmentally Friendly

The gearless traction machine does not need lubricating oil. There is no need to replace the oil in the daily maintenance process. It avoids the pollution and flammable danger caused by the leakage of oil.

Energy Saving And Consumption Reduction

The gearless traction machine has a low starting current and high transmission efficiency. It consumes 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.

Classification of loads

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

Finishes



KDS 220

Machine Room &
Machine Room-Less



KDS 300

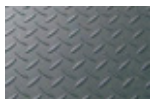
Machine Room Only



KDS 200

Machine Room-Less Only

Flooring



Patterned steel

Ceiling



Painted steel

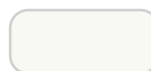
Walls



RAL7040
Graphite gray



RAL7005
Fresh gray

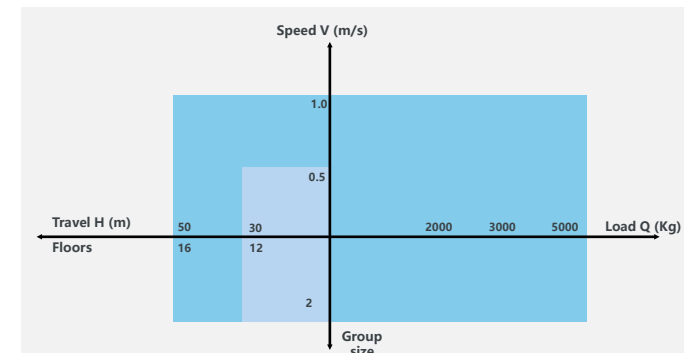


RAL 9010
Ivory White

Items	Built-in standard finish	Optional finish
Car wall	Hairline stainless steel	Painted steel
Car door	Hairline stainless steel	Painted steel
Landing door	Hairline stainless steel	Painted steel
Operating panel	Hairline stainless steel	-
Floor	Patterned steel	-

Technical specifications

Technical information		
Load (Kg)	2000, 3000, 5000	
Speed (m/s)	0.5	1.0
Max travel	30	50
No. of floors	12	16
Control	Dual 32-bit micro computers, full selection control	
Max units in group	Two units in parallel	
Drive mode	VVVF	
Counterweight position	Side to side	
Power supply	3 phase, 5 wire, 380V, 50Hz	
Door type	4-panel center opening, 2-panel side opening	
Car door height	2000~2700	



*Available for both MRL and MRL

Handrail



Stainless Steel

Cabin



Stainless Steel

Electrical function configuration table

● Standard ● Optional

SAFETY 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	●
CLFM	Car lighting switch	●
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 BO	Firefighting deactivated	●
FRD	Firefighting operation	●
LPS VN	Run synchronously	●

Emergency backup power operation

CEL S	Emergency lighting	●
EBS S	Emergency power supply	●
PEL	Emergency leveling	●

Emergency communications

ABE C	Car roof alarm bell	●
ISE F	Five-way calling	●

CONTROL FUNCTION

Priority and special service function

ATS C	Driver function	●
AUD I	Audio interface	●
CTV I	Video interface	●
DOE B	Door opening delay	●
EAQ	Earthquake detection	●
EFC	Energy feedback	●
OSS LC	Floor exit	●

SED WSR	Maintenance operation	●
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Idle car allocation

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	●

INFORMATION FUNCTIONS

Information display In Lobby

CPI LO	Car position, dot matrix	●
CPI LS	Car position, segment code	●
DIA L	Running direction display	●
LAL DN	Arrival light	●
LCL	Outbound call registration display	●

Information display in the car

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	●
DAL GP	Disturbance warning	●
LIL AM	Warning signal	●
SCN N	Start count	●

Remote monitoring screen display

HES	Community monitoring	●
LIL	BA interface	●

PASSENGER COMFORT FUNCTIONS

Entering and exiting the car

ACL B	Accurate Leveling	●
ADO	Advance door opening	●
DCB I	Close the door inside the car	●
DOB OI	Open the door inside the car	●
NDC	Forced to close the door	●
RAA	Start outbound call response	●
REO S	Outbound calls reopen	●
SRC RNC	Light curtain detection	●

Abuse, misuse protection

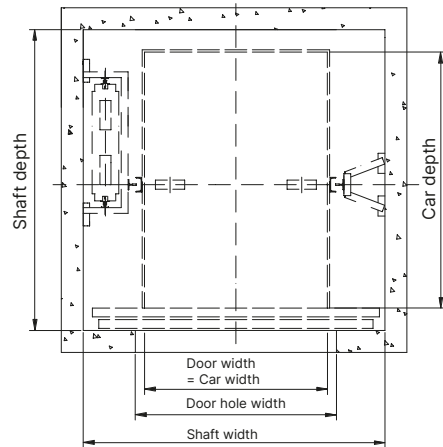
CCB	Reverse internal call	●
FCC R	Command elimination	●
FCC C	Internal calls to prevent trouble	●

Ride comfort

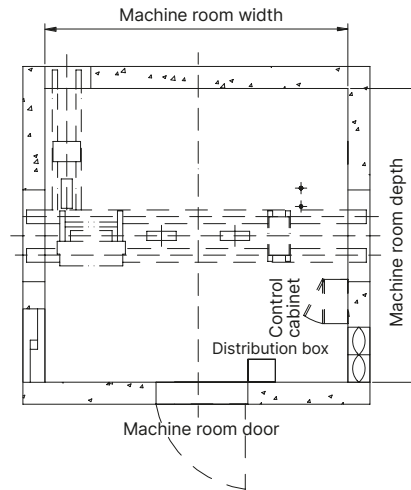
DIR S	Dock directly	●
OCL AF	Car lighting control	●
OCV AF	Car ventilation control	●
STP	start compensation	●

Layout And Specification (KONE 2000 MR)

Sectional drawing of the shaft



Sectional drawing of the machine room



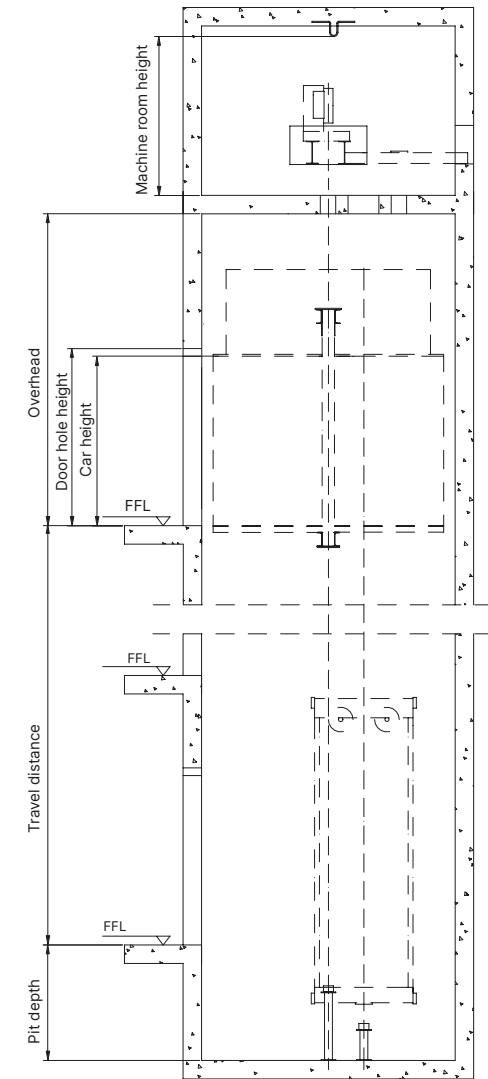
SINGLE DOOR

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	A
	1.0	16	50	1500	2700	2200	1500×2200	2600	3100	4050	1400	2100	A
3000	0.5	12	30	2000	2800	2200	2000×2200	3300	3200	4000	1400	2100	A
	1.0	12	30	2000	2800	2200	2000×2200	3300	3200	4350	1400	2100	C
5000	1.0	16	50	2000	2800	2200	2000×2200	3300	3200	4050	1400	2100	A
	0.5	12	30	2400	3600	2400	2400×2400	4000	4000	4300	1500	2500	C
5000	1.0	16	50	2400	3600	2400	2400×2400	4000	4000	4350	1500	2500	C

* 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.

** Consult Sales team for Through Type Car (TTC)

*** Buffer rail / Anti collision guard - Optional. For finish and dimensions, consult sales team

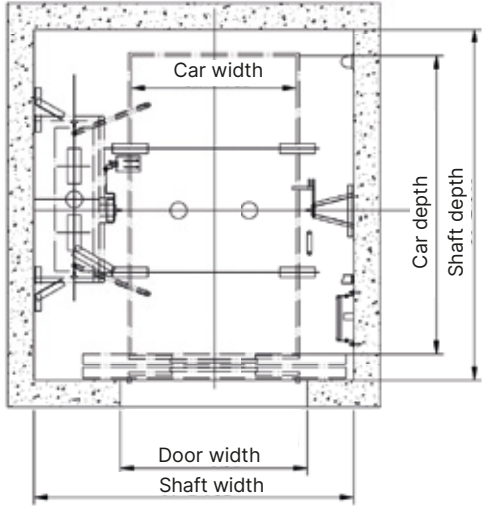


Side view of the shaft

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

Layout And Specification (KONE 2000 MRL)

Sectional drawing of the shaft



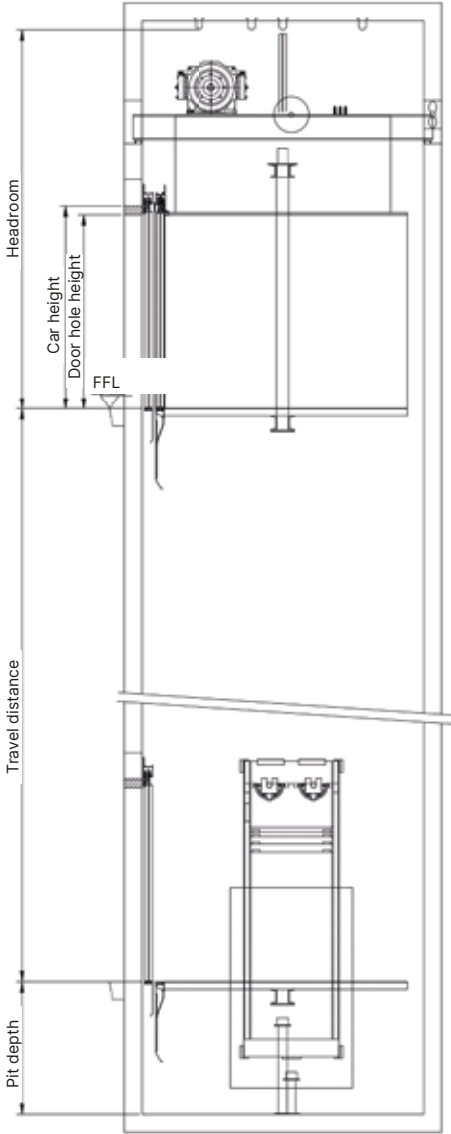
SINGLE DOOR

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	A
	1.0	16	50	1500	2700	2200	1500×2200	2730	3100	4300	1500	A
3000	0.5	12	30	2000	2800	2200	2000×2200	3672	3200	4400	1500	A
	0.5	12	30	2000	2800	2200	2000×2200	3672	3200	4400	1500	C
	1.0	16	50	2000	2800	2200	2000×2200	3672	3200	4400	1500	A
5000	0.5	12	30	2400	3600	2400	2400×2400	4300	4000	4700	1700	C
	1.0	16	50	2400	3600	2400	2400×2400	4300	4000	4700	1700	C

* 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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*** Buffer rail / Anti collision guard - Optional. For finish and dimensions, consult sales team



Side view of the shaft

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Dedicated to
People Flow™



At KONE, our purpose is to shape the future of cities. As a global leader in the elevator and escalator industry, we move two billion people every day, making their journeys safe, convenient, and reliable with smart and sustainable People Flow®. As a trusted partner throughout both the building and equipment lifecycle, we support our customers every step of the way: from design, manufacturing and installation to maintenance and modernization. We are fast and flexible, earning a well-deserved reputation as a technology leader, with innovations such as KONE 24/7 Connected Services and KONE UltraRope®. KONE employs over 60,000 experts in over 160 countries, to serve you globally and locally.

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