KÖHLER
Elevator & Escalator

Customized Elevator Solutions

SYMPHONY MRL
SYMPHONY SMR
SYMPHONY MOD



KÖHLER
Elevator & Escalator

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Development History



1983

In 1983, chairman Zhang Caigen established the Elevator parts Factory.



1998

In 1998, chairman Zhang led the company elites to Germany for an investigation to learn about the production technology and experience of the world's advanced enterprises. During the period in Germany, we cooperated with Germany company to learn the advanced technology experience of Germany.

2000

In 2000, chairman Zhang foresee the rapid development of the elevator industry, so they conducted in-depth technical cooperation with The German company Heraeus, in pursuit of technological innovation and humanized design of products, and constantly applied the latest technological research results to products.



2004

In 2004, after several years of elevator parts production, production technology and product research and development ability has been fully trained, chairman Zhang Caigen formally established Zhejiang Kohler Elevator Co., LTD., began to produce complete elevator. Uphold the excellence in pursuit of perfect quality, Kohler Elevator has carried the highest industrial essence and service model in Germany at the beginning of its establishment, mature application of cutting-edge technology synchronized with the world, introduction of first-class production technology in the industry, and continuous introduction to meet market needs and the development requirements of human society Products, soon among the ranks of first-class elevator manufacturers. Kohler elevator with German technology, high-end quality, continuous innovation and perfect service, to provide the world's users with perfect quality elevator products.



Future

About KOHLER

2004

The company was established in 2004

3,000

Annual sales of more than 3000 elevators

40,000,000

The Annual output value is 40million dollars.

9

The company covers 9 kinds of productions: Passenger elevator, panoramic elevator, hospital elevator, villa elevator, freight elevator, car elevator, dumbwaiter, escalator and moving walk.

8,000

With a production capacity of 8000 sets. It has advanced automatic door panel production line, customized elevator cabin production line, automatic spraying production line, etc.

30

The company's products are exported to more than 30 countries and regions such as the United States, Brazil, Mongolia, Mexico, Ukraine, Malaysia and Bangladesh

180

The company has 180 employees, and engineering and technical personnel account for 30% of the total

24

On call 365 days a year, Kohler elevator is always by your side

35

The company has obtained 35 patents

8

The maximum speed of passenger elevator is 8.0m/s

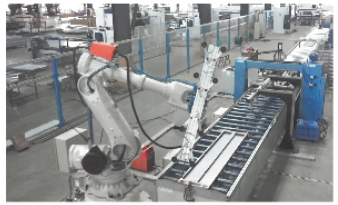
2,000

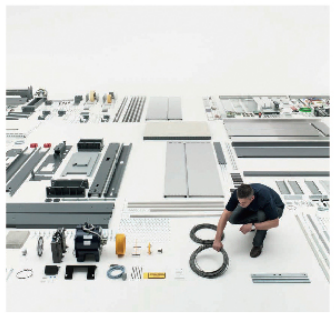
The maximum load capacity of passenger elevator is 2000kg

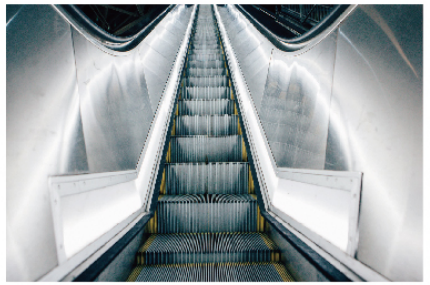
10,000

The maximum load capacity of cargo elevator is 10t











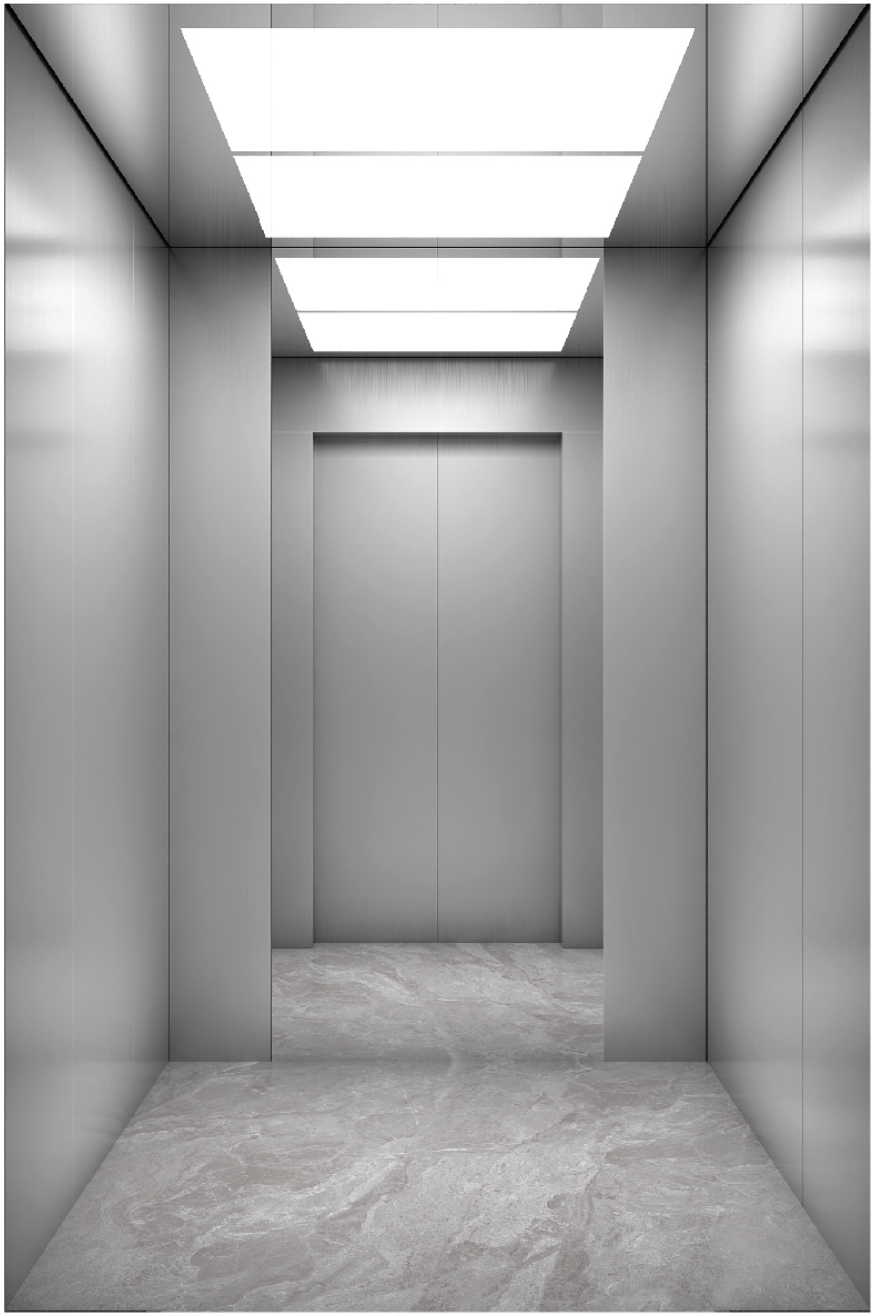
Solution Plan To Urban Passenger Flow

Focus on the elevator field, to create a perfect vertical transportation solutions
A new vision of practical, artistic and epochal integration
Interpretation of the classic Chinese elevator brand.

Elevator series	Residence	Office Building	Hotel	Market	Hospital	Home	Public buildings	Factory
Small machine room passenger elevator	●	●	●	●	●	●	●	●
Machine roomless passenger elevator	●	●	●	●	●	●	●	●
Observation elevator	●	●	●	●			●	
Home elevator						●		
Hospital elevator					●			
Freight elevator		●	●	●	●			●
Car elevator	●	●	●	●	●			
Escalator			●	●	●		●	
Moving walk				●			●	



KL-2101





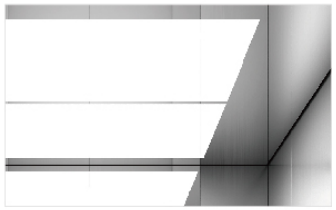
KL-2101 Standard

Ceiling	– Mirror stainless steel, milky white transparent plate
Car wall	– Hairline stainless steel, mirror stainless steel
Handrails	– None
Floor	– PVC

Hall door



Ceiling



Floor



KL-2102





KL-2102 Optional

Ceiling	– Hairline stainless steel, acrylic lighting, LED lamp
Car wall	– Hairline stainless steel, mirror etching
Handrails	– Hairline stainless steel round handrail
Floor	– PVC (optional marble)

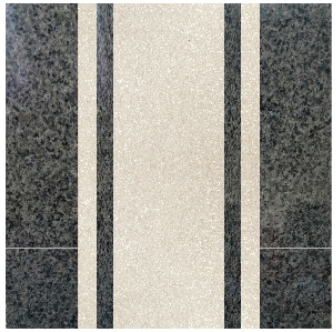
Hall door



Ceiling



Floor



KL-2103





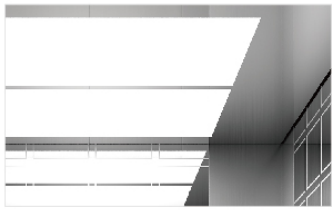
KL-2103 Optional

Ceiling	– Mirror stainless steel, milky white transparent plate
Car wall	– Mirror etched stainless steel, hairline stainless steel
Handrails	– Hairline stainless steel round handrail
Floor	– PVC (optional marble)

Hall door



Ceiling



Floor



KL-2104





KL-2104 Optional

Ceiling	– Titanium mirror stainless steel, acrylic soft lighting
Car wall	– Titanium mirror stainless steel, hairline stainless steel
Handrails	– Stainless steel flat handrail
Floor	– PVC (optional marble)

Hall door



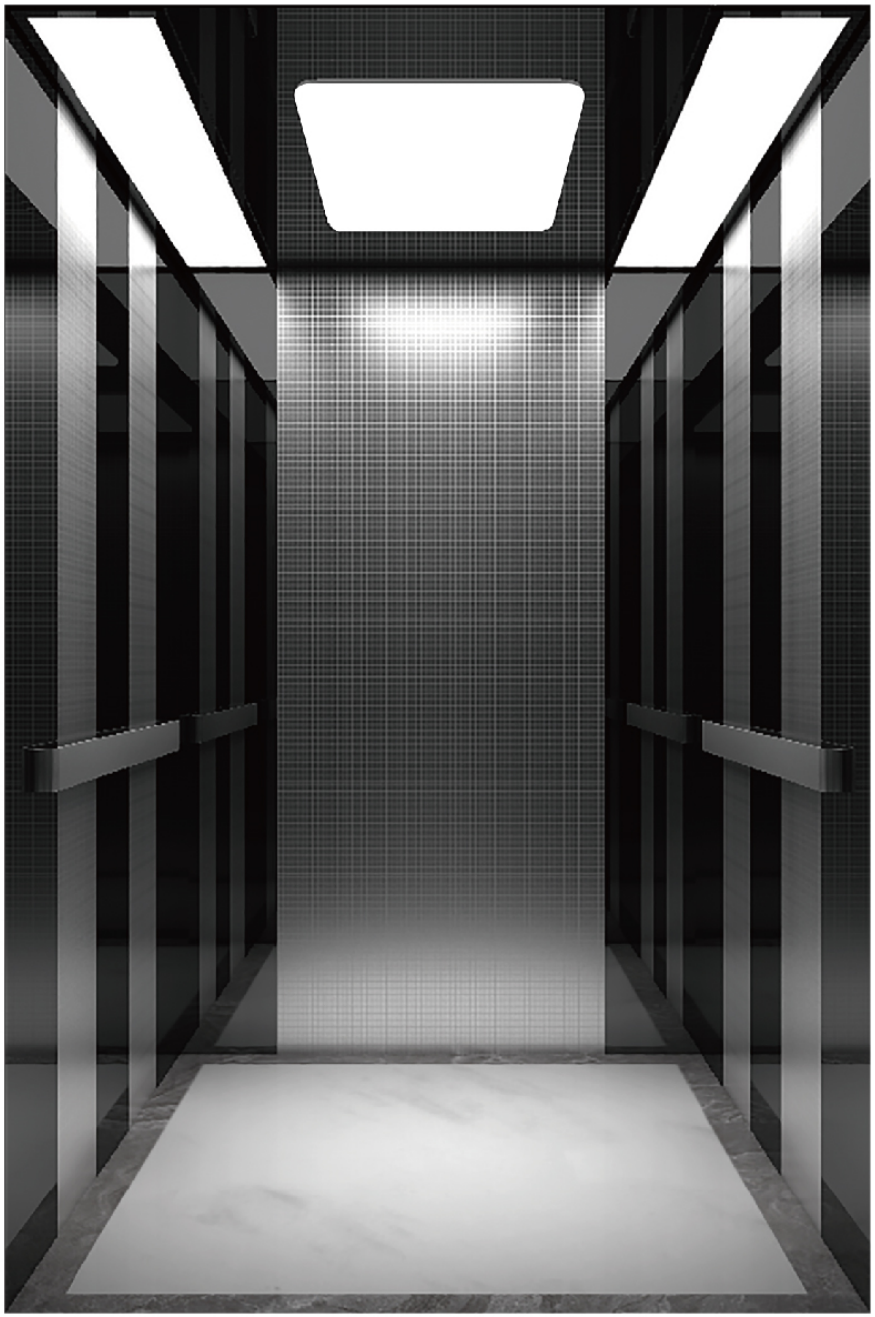
Ceiling

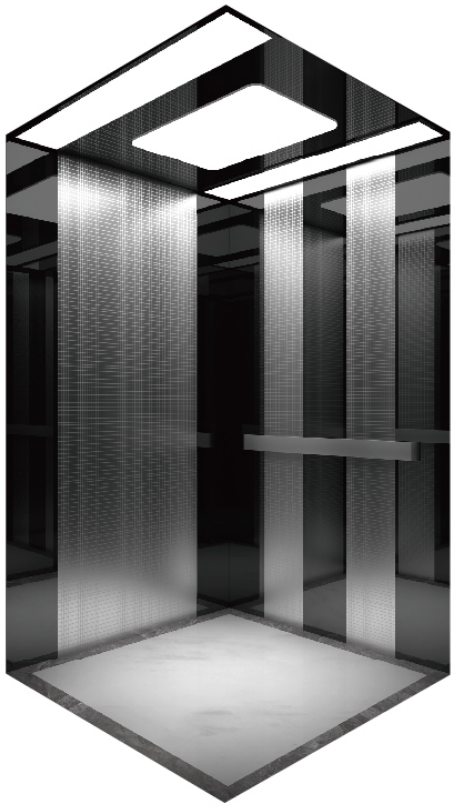


Floor



KL-2105





KL-2105 Optional

Ceiling	– Black titanium mirror, acrylic lighting
Car wall	– Black titanium mirror, hairline stainless steel,etching
Handrails	– Hairline stainless steel flat handrail
Floor	– PVC (optional marble)

Hall door



Ceiling



Floor



KL-2106





KL-2106

Optional

Upper/lower hood	– Hairline stainless steel
Panorama wall	– Safety laminated glass
Decorative top	– Stainless steel mirror, acrylic lighting
Car wall	– Hairline stainless steel Laminated glass
Handrail	– Stainless steel round pipe (optional)
Floor	– PVC (optional marble)

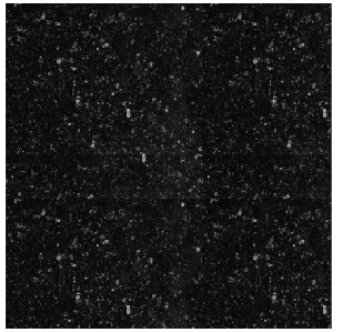
Hall door



Ceiling



Floor



Human Machine Interface



KL-C01 KL-C02



Freight Elevator

KL-F2101

Standard

Ceiling	– Plastic sprayed steel plate, LED lamp
Car wall	– Plastic sprayed steel plate
Floor	– Checkered steel plate
Ventilation	– Circular fan
Door opening mode	– Middle split double fold







Escalator

— Effective safety — Precision structure

— Deluxe charm — High-tech induction



Truss applies the superior section materials with unique structure, high intensity, thorough anti-rust treatment, good effect, long life.
Advanced international manufacture technique; general assembly and tooling ensure precise stairways.
Super-strong CPU main-board computer control executes real-time monitor to running conditions. It promptly stops if any abnormal condition takes place. It makes prompt & automatic record. It displays trouble codes.

KOHLER Lift
Main Parts



Made in Germany
Original import

Kohler elevator cooperates with international famous elevator parts suppliers Wittur and Monarch, takes the elevator of world landmark buildings as the quality benchmark, ensures the elevator quality with advanced parts, stands in the world, innovates product technology and creates excellent value.

Advantages of control cabinet:

More stable and accurate elevator control

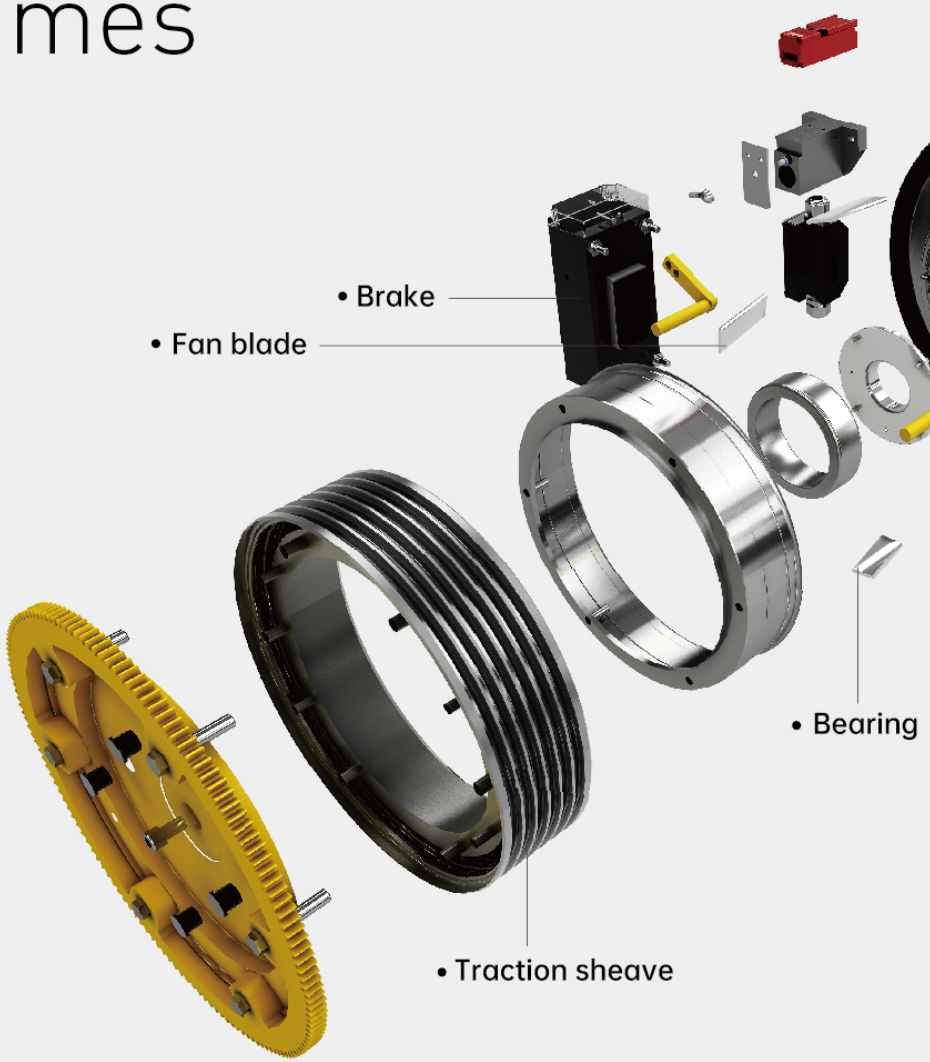
It applies new generation precision micro-processor. It coordinates and precisely controls in main sectors such as elevator logic control, motor drag, well communication etc. It thus ensures stable elevator operation.

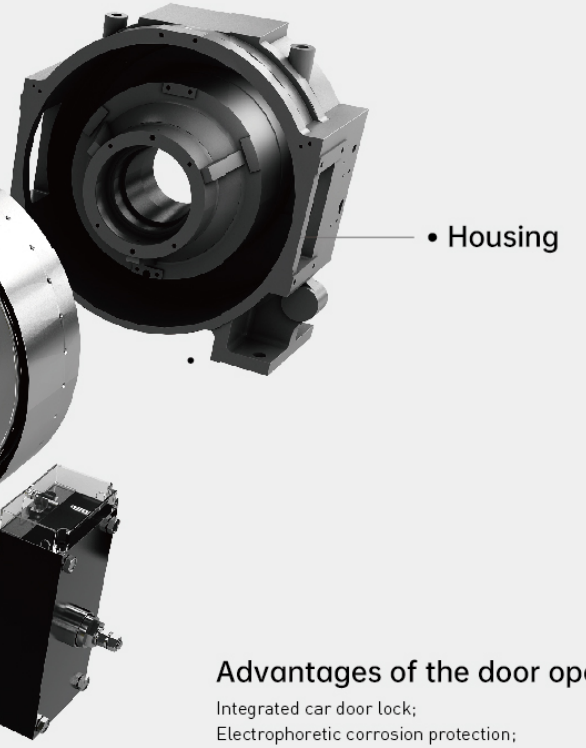
More prompt and accurate signal transmission

It applies pulse communication technology. It can effectively isolate strong interference signal from outside. It enhances anti-interference capacity of communication system.It reduces wiring and interface between various parts. It brings about the more prompt, smooth and convenient transmission signal. Meanwhile, it decreases hardware investment cost. According to change in building transport requirenments, it conveniently fulfills centralized management and decentralized control to various elevators through altering the transmission modes.



Technology Lead Quality Times



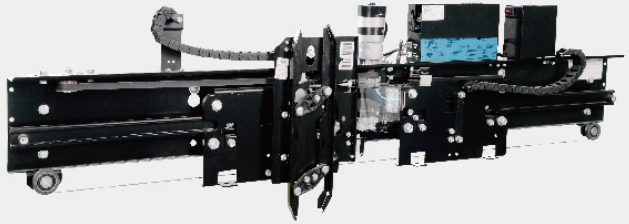


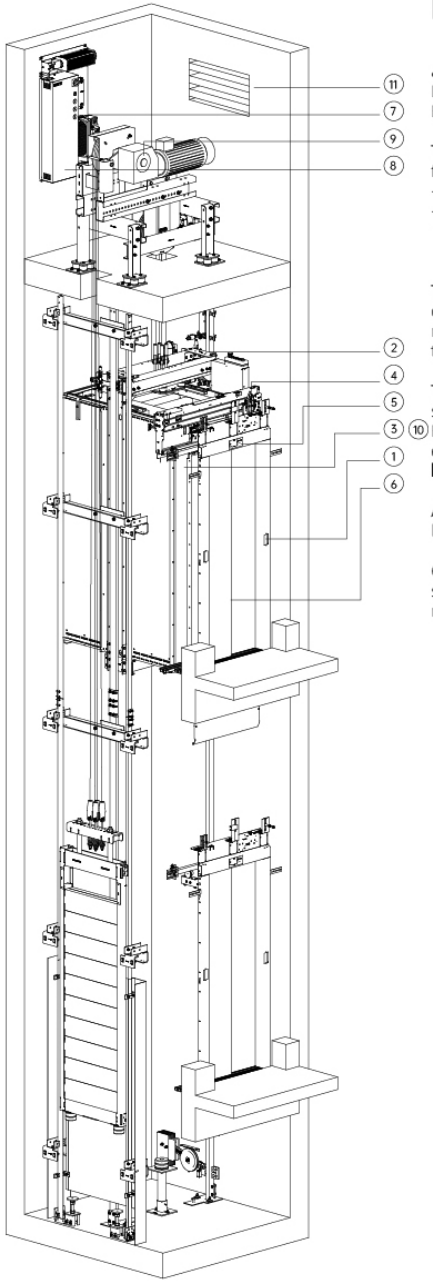
Advantages of the motor :

Compact volume and convenient installation;
Vibration and low noise;
Energy saving and environmental protection,
low life cycle maintenance cost

Advantages of the door operator:

Integrated car door lock;
Electrophoretic corrosion protection;
Electrical pre adjustment;
Fast installation;
High performance;
Long service life;
Safe and reliable





Energy Efficiency

"The energy consumption of all buildings in Germany is approx. 40% of the total energy consumption [1] Lifts take up to 3 to 5% of this, which in the whole of Europe makes 18 TWh annually [2]"

The energy consumption of a lift is determined by many factors. The main factors are:
- the consumption when moving
- the consumption when stopped
- the energy loss due to heat escaping via the shaft **ventilation.**

The weighting of the factors depends heavily on the use of the relevant lift. The standstill consumption of lifts in residential buildings alone makes up about 70% of the total energy consumption of the lifts.

The power consumption is determined primarily by the system components and their energy efficiency. For lifts which are mostly in standby operation, the energy consumption can be reduced by modern controls **by up to 50%.**

A shaft smoke extraction system can reduce the energy loss caused by heat escaping through the shaft.

Correct and sustainable lift maintenance by qualified specialist personnel on the basis of EN 13015 perma - nently ensures the success of energy-saving measures.

Passenger Elevator Technical Guide

Horizontal section size

Speed (m/s)	Lift car area BBxDD(mm)	Car door type	Car type	Door width LL(mm)	Door opening width LR(mm)	Hoistway size WW×WD(mm)	
						Standard	Maximum
≤2.5	1100×1100	Center opening	Post	700	900	1700×1750	2000×2100
		Center opening	Post	800	1000	1800×1750	2100×2100
		Side opening	Post	700	900	1600×1850	1900×2200
		Side opening	Post	800	1000	1700×1850	2000×2200
		Center opening	Lateral	700	900	1900×1750	2200×2100
		Center opening	Lateral	800	1000	2000×1750	2150×2200
		Side opening	Lateral	700	900	1850×1850	2250×2200
		Side opening	Lateral	800	1000	1950×1850	2000×2400
≤2.5	1100×1400	Center opening	Post	700	900	1700×2100	2000×2400
		Center opening	Post	800	1000	1800×2100	2100×2400
		Side opening	Post	700	900	1600×2200	1900×2500
		Side opening	Post	800	1000	1700×2200	2000×2500
		Center opening	Lateral	700	900	1900×2100	2200×2400
		Center opening	Lateral	800	1000	2000×2100	2300×2400
		Side opening	Lateral	700	900	1850×2200	2150×2500
		Side opening	Lateral	800	1000	1950×2200	2250×2500
≤2.5	1400×1350	Center opening	Post	800	1000	2000×2000	2300×2350
		Center opening	Post	900	1100	2100×2000	2400×2350
		Side opening	Post	800	1000	1900×2100	2200×2400
		Side opening	Post	900	1100	2000×2100	2300×2400
		Center opening	Lateral	800	1000	2200×1900	2500×2200
		Center opening	Lateral	900	1100	2300×1900	2600×2200
		Side opening	Lateral	800	1000	2150×2000	2450×2300
		Side opening	Lateral	900	1100	2250×2000	2550×2300
≤2.5	1600×1400	Center opening	Post	900	1100	2200×2200	2500×2500
		Center opening	Post	1000	1200	2300×2200	2600×2500
		Side opening	Post	900	1100	2100×2300	2400×2600
		Side opening	Post	1000	1200	2200×2300	2500×2600
		Center opening	Lateral	900	1100	2400×2000	2700×2300
		Center opening	Lateral	1000	1200	2500×2000	2800×2300
		Side opening	Lateral	900	1100	2350×2100	2650×2400
		Side opening	Lateral	1000	1200	2450×2100	2750×2400

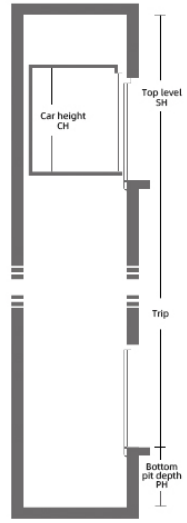
Technical specifications

Speed(m/s)	1.0, 1.5, 1.75, 2.0, 2.5
Load(kg)	450, 630, 800, 1000
Maximum landing	18(1.0m/s), 30(1.5m/s), 33(1.75m/s), 38(2.0m/s), 39(2.5m/s)
Maximum stroke	55(1.0m/s), 85(1.5m/s), 95(1.75m/s), 110(2.0m/s), 135(2.5m/s)
Clear height of lift carCH(mm)	2200, 2300, 2400

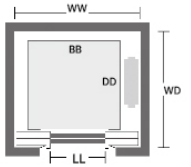
Dimension of vertical section

Speed(m/s)	Overhead height SH(mm)	Pit depth PD(mm)
1	CH+1400	1500
1.5	CH+1600	1600
1.75	CH+1650	1700
2	CH+1700	1800
2.5	CH+2000	2000

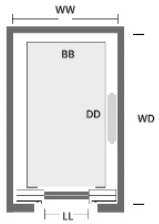
For more technical information, please contact KOHLER elevator marketing personnel or technicians.



Vertical section

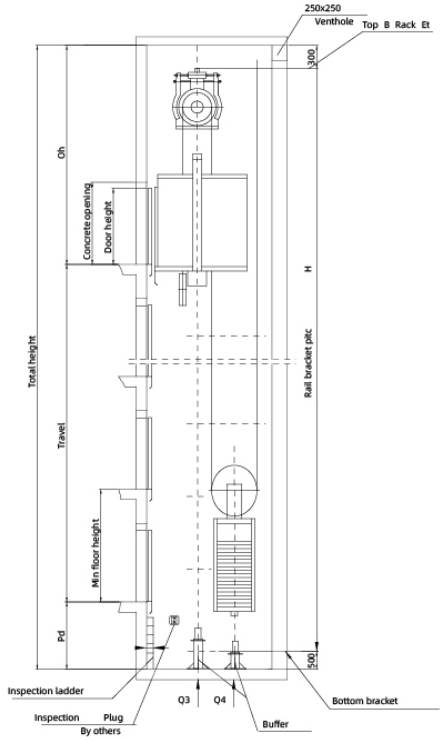


Horizontal section of ordinary car

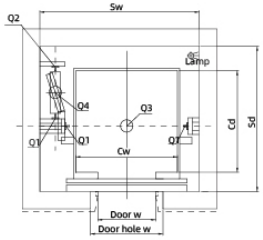


Deep car horizontal section

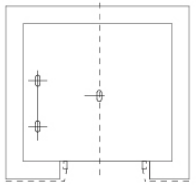
Machine Roomless Passenger Elevator Construction Parameters



Shaft section



Shaft plan



The top plan of hook

Load (kg)	Speed (m/s)	Car size(mm) Inner size (mm)	Car door width × height (mm)	Hoistway size (mm)	Overhead height(mm)	Pit depth (mm)
630	1.0	1200×1300	800×2100	2150×1800	4500	1500
	1.75			2150×1800	4700	1500
	2.0			2250×1900	5000	1700
800	1.0	1400×1350	800×2100	2250×2100	4500	1500
	1.75			2250×2100	4700	1500
	2.0			2350×2200	5000	1700
1000	1.0	1500×1500	900×2100	2400×2100	4500	1500
	1.75			2400×2100	4700	1600
	2.0			2500×2200	5000	1700
1150	1.0	1700×1500	1000×2100	2550×2100	4500	1500
	1.75			2550×2100	4700	1600
	2.0			2650×2200	5000	1700
1250	1.0	1800×1650	1100×2100	3000×2250	4700	1500
	1.75			3000×2250	4900	1600
	2.0			3100×2350	5100	1800
1600	1.0	2000×1700	1200×2100	3200×2300	4700	1500
	1.75			3200×2300	4900	1600
	2.0			3300×2400	5100	1800

For more technical information, please contact KOHLER elevator marketing personnel or technicians.

Villa Elevator Construction Parameters

Horizontal section size

No.of persons / load(kg)	Speed (m/s)	Trip (m)	Lift car area BB×DD(mm)	Door width LL(mm)	Door opening width LR(mm)	Hoistway size WW×WD(mm) Standard	Maximum
3/250	0.4	≤25	850×900	650	850	1450×1300	1500×1350
4/320	0.4	≤25	900×1000	700	900	1500×1400	1550×1450
5/400	0.4	≤25	1000×1100	700	950	1600×1500	1650×1550
6/450	0.4	≤25	1100×1200	750	1000	1700×1600	1750×1650
3/250	1	≤25	850×900	650	850	1450×1300	1500×1350
4/320	1	≤25	900×1000	700	900	1500×1400	1550×1450
5/400	1	≤25	1000×1100	700	950	1600×1500	1650×1550
6/450	1	≤25	1100×1200	750	1000	1700×1600	1750×1650

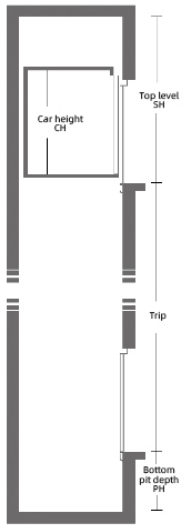
Technical specifications

Speed(m/s)	0.4, 1.0
Load(kg)	250, 320, 400, 450
Maximum landing	4(0.4m/s), 6(1.0m/s)
Maximum stroke	15(0.4m/s), 20(1.0m/s)
Clear height of lift carCH(mm)	2100, 2200, 2300

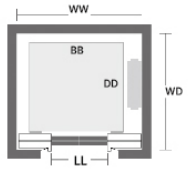
Dimension of vertical section

Speed(m/s)	Overhead height SH(mm)	Pit depth PD(mm)
0.4	CH+1400	500
1	CH+1600	800

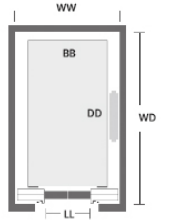
For more technical information, please contact Kohler elevator marketing personnel or technicians.



Vertical section

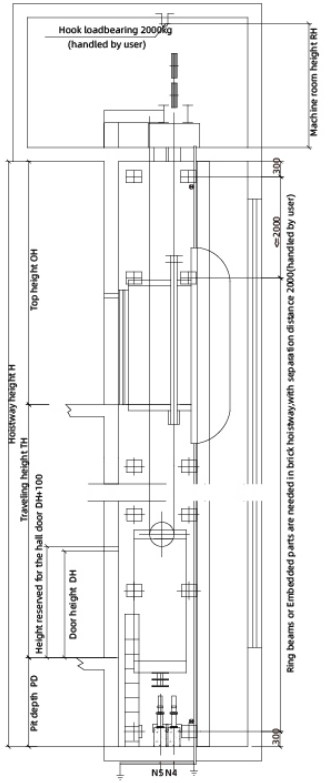


Horizontal section of ordinary car

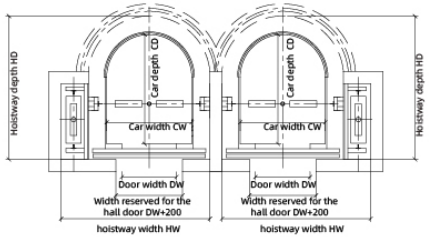


Deep car horizontal section

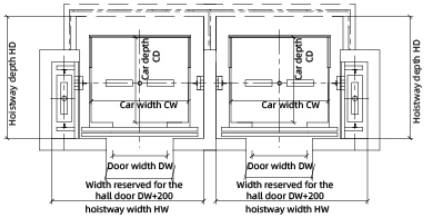
Observation Elevator Construction Parameters



Hoistway elevation view



Hoistway plan view

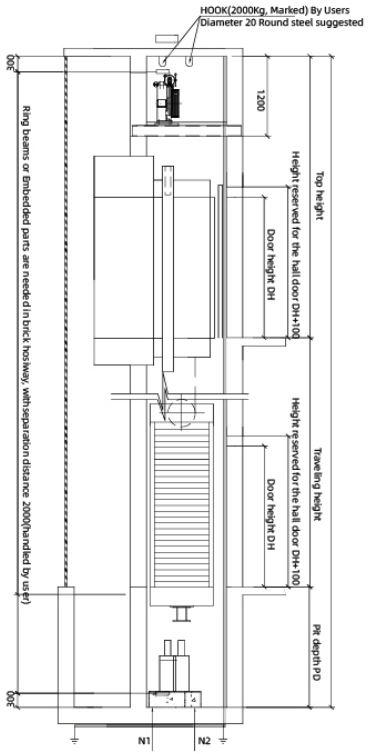


Hoistway plan view

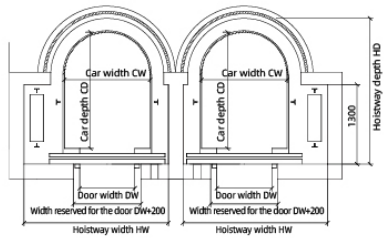
Load (kg)	Speed (m/s)	Car dimension(mm)		Door net opening(mm)	Hoistway size(mm)		Machine room size(mm)		Overhead height(mm)	Pit depth (mm)
		Square	Round		Square	Round	Square	Round		
630	1.0	1400×1100		800	2200×1650		2200×1650		4800	1700
	1.75				2200×1650		2200×1650		5000	1900
	2.0				2300×1750		2300×1750		5100	2000
800	1.0	1400×1350	1300×1650	800	2200×1850	2400×2300	2400×1850	2400×2300	4800	1700
	1.75								5000	1900
	2.0				2300×1950	2500×2400	2300×1950	2500×2400	5100	2000
1000	1.0	1600×1500	1400×1850	900	2400×2000	2600×2600	2400×2000	2600×2650	4800	1700
	1.75								5000	1900
	2.0				2500×2100	2700×2750	2500×2100	2700×2750	5100	2000
1250	1.0	1800×1550	1400×2100	1000	2600×2200	2700×2750	2600×2200	2700×2750	4800	1700
	1.75								5000	1900
	2.0				2700×2300	2750×2800	2700×2300	2750×2800	5100	2000
1600	1.0	2000×1700	1600×2250	1000	3100×2300	2900×3000	3100×2300	2900×3000	4800	1700
	1.75								5000	1900
	2.0				3200×2400	3000×3100	3200×2400	3000×3100	5100	2000

For more technical information, please contact KOHLER elevator marketing personnel or technicians.

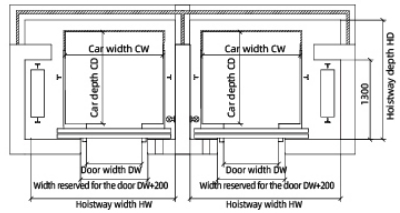
Machine Roomless Observation Elevator Construction Parameters



Shaft vertical plan



Shaft plan view

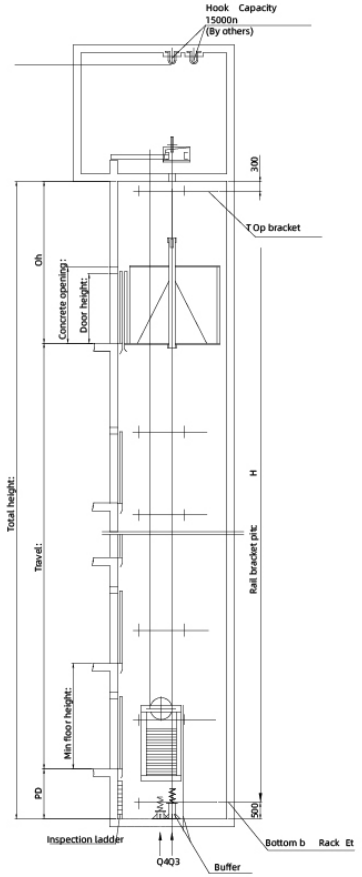


Shaft plan view

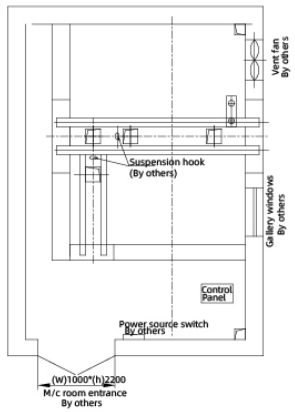
Load (kg)	Speed (m/s)	Car dimension(mm)		Door net opening(mm)	Hoistway size(mm)		Overhead height(mm)	Pit depth (mm)
		Square	Round		Square	Round		
630	1.0	1200×1300		800	2150×1850		4500	1500
	1.75						4700	1500
	2.0				2250×1900		5000	1700
800	1.0	1400×1350	1300×1650	800	2250×2100	2350×2400	4500	1500
	1.75						4700	1500
	2.0				2350×2200	2450×2500	5000	1700
1000	1.0	1600×1500	1400×1850	900	2400×2100	2600×2700	4500	1500
	1.75						4700	1500
	2.0				2500×2200	2700×2500	5000	1700
1250	1.0	1800×1550	1400×2100	1000	3000×2150	2700×2750	4500	1500
	1.75						4700	1500
	2.0				3100×2251	2800×2801	5000	1700
1600	1.0	2000×1700	1600×2250	1000	3200×2300	2900×3000	4500	1500
	1.75						4700	1500
	2.0				3300×2401	3000×3101	5000	1700

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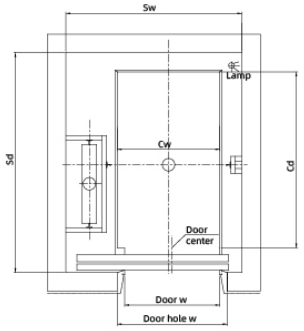
Hospital Elevator Construction Parameters



Shaft section



Plan of machine room

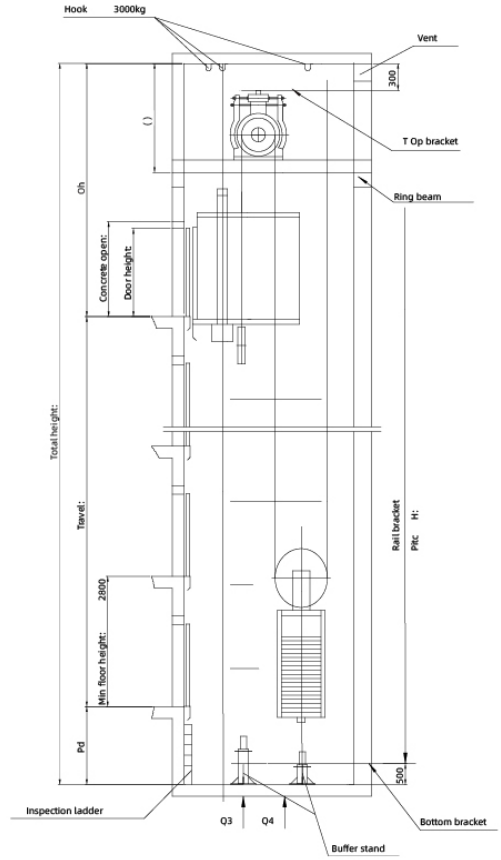


Shaft plan

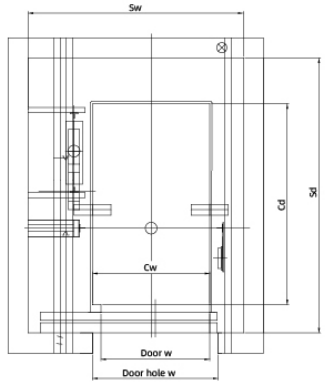
Persons	Load (kg)	Speed (m/s)	Net size of car (mm)	Net door width (mm)	Shaft size(mm)			Machine room size (mm)	
			C.W × C.D	D.W × D.H	H.W × H.D	HR.H	PIT	MR.W × MR.D	MR.H
21	1600	1.0	1400×2400	1100×2100 2P telescopic opening	2300×2900	4500	1500	3000×4500	2500
		1.5/1.75				4600	1600		
		2.0		1100×2100 2P center opening	2550×2900	4900	1800		

For more technical information, please contact KOHLER elevator marketing personnel or technicians.

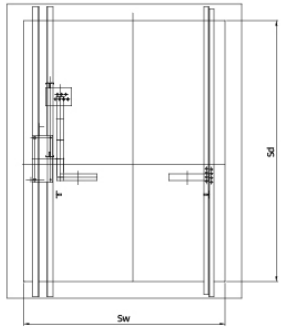
Machine Roomless Hospital Elevator Construction Parameters



Shaft section



Shaft plan

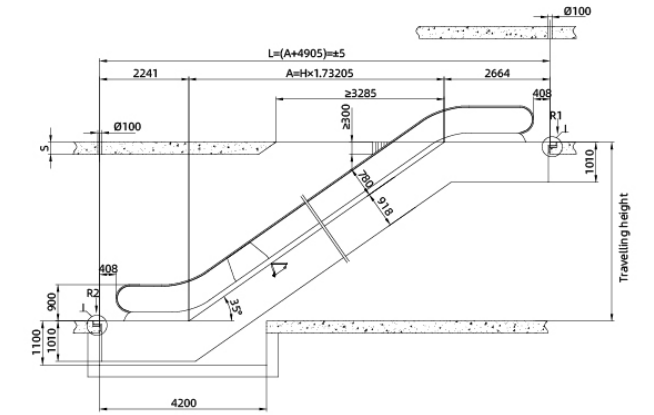


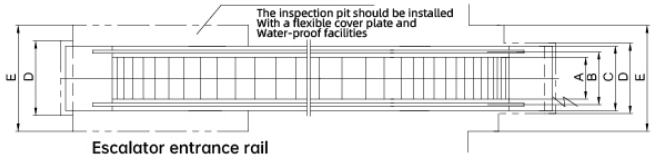
Overhead floor

Persons	Load (kg)	Speed (m/s)	Car Size			Shaft Size		E(mm) Gate Width	F(mm) Gate Height	OH(mm) Top layer altitude	P(mm) Bottom depth
			A(mm)Width	B(mm)Width	G(mm)Height	C(mm)Width	D(mm)Depth				
21	1600	1.0	1400	2400	2500	2400	2900	1300 SO	2100	4800	1700
		1.5/1.75								5000	1800
		2.0								5100	1900

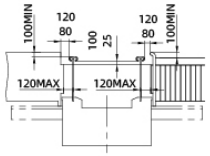
For more technical information, please contact KOHLER elevator marketing personnel or technicians.

30°/35° Escalator Construction Parameters

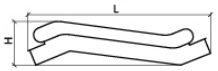




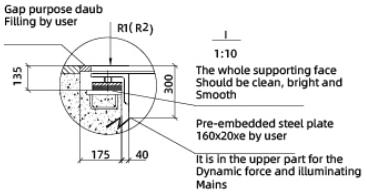
Escalator entrance rail



Transport size



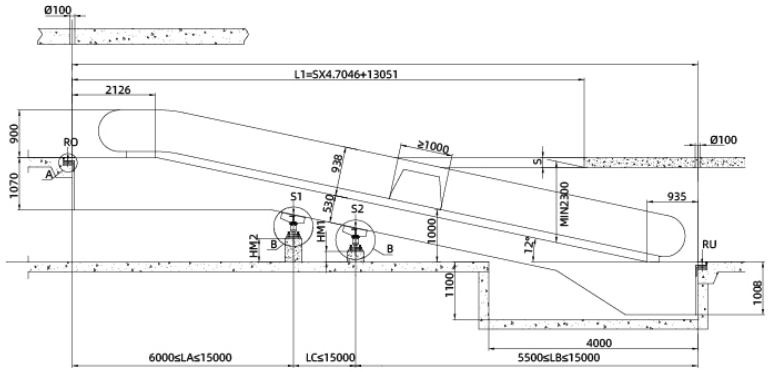
Model	Travelling height(mm)	Netheight KN	Supporting		Motor power	Transport size	
			R1 KN	R2 KN		H	L
SFN/SFW (800) -35 (4500people/h) Speed 0.5m/s	3000	54	43	39	8	2850	10180
	3500	57	46	41		2890	11030
	4000	60	59	44		2920	11890
	4500	64	52	46		2940	12750
	5000	67	54	49		2970	13610
	5500	70	57	51		2980	14470
	6000	73	60	54		3000	15330
SFN/SFW (800) -35 (6750people/h) Speed 0.5m/s	3000	56	49	44	8	2850	10180
	3500	60	52	47		2890	11030
	4000	63	56	50		2920	11890
	4500	66	59	53		2940	12750
	5000	70	62	56	11	2970	13610
	5500	73	65	59		2980	14470
	6000	76	69	61		3000	15330
SFN/SFW (800) -35 (9000people/h) Speed 0.5m/s	3000	60	56	30	8	2850	10180
	3500	64	60	53		2890	11030
	4000	67	64	57		2920	11890
	4500	71	67	60		2940	12750
	5000	74	71	64	11	2970	13610
	5500	82	77	69		2980	14470
	6000	85	81	72		3000	15330

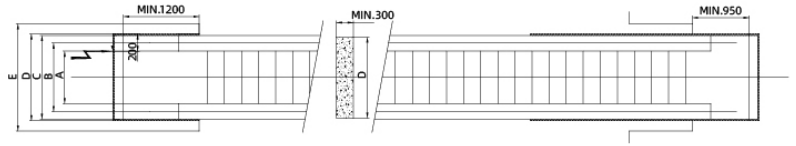


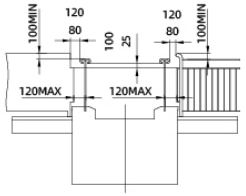
Step width	A	B	C	D	E	F
1000	1000	1158	1238	1600	1660	2310
800	800	958	1038	1400	1460	2110
600	600	758	838	1200	1260	1910

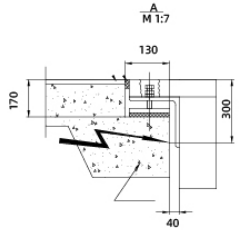
For more technical information, please contact KOHLER elevator marketing personnel or technicians.

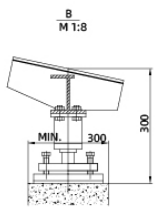
10°/12° Moving Walk Construction Parameters











The construction supporting force includes the vibration load		
No intermediate supporting	One intermediate supporting	2 intermediate supporting
Ro=0.0045XL+13	Ro=0.0045XLa+13	Ro=0.0045XLa+13
	Ru=0.0045XLb+7	Ru=0.0045XLb+7
Ru=0.0045XL+7	S1=0.00585X(La=Lb)	S1=0.00585X(La=Lc)
	S1=0.00585X(La+Lb)	S2=0.00585X(Lb=Lc)

Traveling height		In termediate supporting		La (mm)	Lb (mm)	Lc (mm)
From	To	S1	S2			
1601	2663	-	-	-	-	-
2664	4151	1	-	L-7000	7000	-
4152	5851	1	-	15000	L-15000	-
5852	6000	1	1	15000	7000	L-22000

For more technical information, please contact KOHLER elevator marketing personnel or technicians.

Service system

Relying on the advanced technology,rich administration experience and superior service, it scientifically maintains the products and strictly controls the product quality.Choose KOHLER Elevator, select a full set of complete service system.

1

One to one service, one service manager is responsible for one customer

100

Full marks for pre-sales service, fully responsible for project contracting, engineering communication, supervision and commissioning

5

Each type of elevator is equipped with 5 pcs of vulnerable parts.

365

Service personnel are on standby 365 days a year

30

Arrive at the maintenance site in 30 minutes

24

7 * 24-hour customer service hotline

15

Within the warranty period, the maintenance period is 15 days

3

Submit elevator maintenance report to customers every 3 months

4

Free door-to-door training on elevator safety knowledge 4 times a year

