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Printed in July 2021



PASSENGER ELEVATOR 20 SERIES

GRP / GRO / GRB



SICHER ELEVATOR, ALL FOR SAFE REACH



Strength

Sicher Elevator Under Globalization Strategy

Globalization goal

To become the world's leading safe elevator service provider

Intelligent manufacturing

To build an industry-leading flexible, customized and intelligent manufacturing platform

Platform transformation

Transition from a manufacturing enterprise to a customized service enterprise Transition from a technology transformation to a technology platform

Digital service

To build a big data cloud service platform to improve data-driven services

About Sicher

Sicher is a professional and group multinational operating enterprise.

The headquarters base in China covers an area of 147,600 square meters, and the eight functional areas are highly integrated with industrialization and information construction. It is a model enterprise in China's elevator industry to implement Industry 4.0 smart factories.

After being wholly acquired by Sicher Elevator, the German SRH Aufüge GmbH became Sicher Elevator's wholly-owned subsidiary and modern manufacturing plant in Germany, injecting global front-end innovative technology support for the SRH brand.

Sicher's global business continues to expand, and it has established long-term strategic partnerships with many well-known real estate development companies around the world, and its products are exported to more than 80 countries and regions.

Innovation for Leading Advance with Glory

- Top 10 Elevator Suppliers in National Government Purchasing
- 2020 Top 10 Chinese Elevator Manufacturers
- Five-star enterprise in fulfilling social responsibility in China Industrial Sector
- Chinese elevator companies invited to attend the APEC Leaders Summit
- Model enterprise in China's elevator industry to implement Industry 4.0 smart factories
- An elevator company with a wholly-owned subsidiary and a modern manufacturing plant in Germany
- Won the World Elevator Project Award and the China Records

Sicher Elevati

108 meter-high elevator test tower

Boutique

Different passenger flow solutions Same safe reach

Every building has its own mission

Different passenger flows require different solutions

But safety is always the top priority

Sicher Elevator serves thousands of buildings

Sticking to safe arrival and setting a model for urban residence

To match the most suitable vertical transportation scheme for each building

Product specifications

Model	Туре	Rated capacity	Rated speed
GRPS20	SMR passenger elevator	400~2000	1.0~4.0
GRPN20	MRL passenger elevator	400~1600	1.0~2.0
GROS	SMR observation elevator	630~1600	1.0~2.5
GRON	MRL observation elevator	630~1600	1.0~2.0
GRBS	SMR bed elevator	1600~2000	1.0~2.5
GRBN	MRL bed elevator	1600~2000	1.0~1.75

Superior

Exquisite workmanship and Innovation are the persistence of Sicher



Patent design for customers

More than one hundred technology patent achievements with strict design standards and testing procedures are the consistent commitment to customers.

Innovative technology Sicher Height

First Prize of Zhejiang Science and Technology Progress Award Second Prize of Shanghai Science and Technology Progrees Award.



Strict quality control, safe and reliable

From production to installation and delivery, to repair and maintenance, Sicher has always implemented strict quality and safety standards, reflecting Sicher's persistent pursuit of quality throughout the product life cycle.

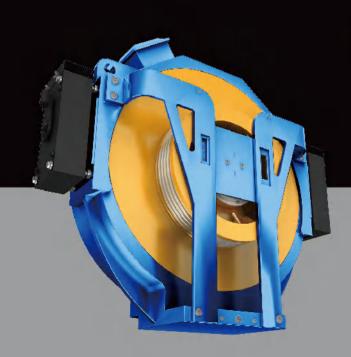


National CANS Certification Center Laboratory

Innovation

Classic and innovation Co-create values with excellence

Flexible customization for small-machine-room machine-roomless passenger elevator Fully release the value of architectural space



The efficient layout of the machine room, with a clever and compact structure, can save nearly 50% of the machine room space while maintaining excellent performance in terms of operating performance, safety functions, operating experience and green consumption reduction.

Machine-roomless passenger elevator

Control cabinet and drive system in the original machine room are arranged inside the hoistway to maximize the utilization of building space, and greatly reduce energy consumption, contributing to the value of green buildings.



Driving upgrades Unleashing unlimited momentum

Innovative ultra-thin machine-roomless traction machine

ultra-thin design of the permanent magnet synchronous traction machine, the machine-roomless wall layout, and the installation of guide rails, making full use of the hoistway space and efficiently improving the utilization rate of the building; Installation front design of encoder, convenient

installation and maintenance;
Double support structure, stable and reliable operation. (Only for GRPN20-VII MRL passenger elevator)

A new generation of permanent magnet synchronous traction machine

It adopts high-performance permanent magnet materials and special motor, and it has the characteristics of energy saving, environmental protection, low speed and large torque;
When the peak torque is large, and the pulsation is small, the elevator operation is safer and more

New generation of permanent magnet synchronous and equipped with motor overheating protection device, can withstand high temperature.

Intelligent elevator-call system

It is a more efficient and safer elevator-call solution. Multiple intelligent elevator-call methods such as face recognition, fingerprint recognition, QR code, voice, and mobile app can be custom-

UCMP protection technology

When the system detects that the car has moved unexpectedly, the system will start the protection program to stop the car immediately and level the floor safely.

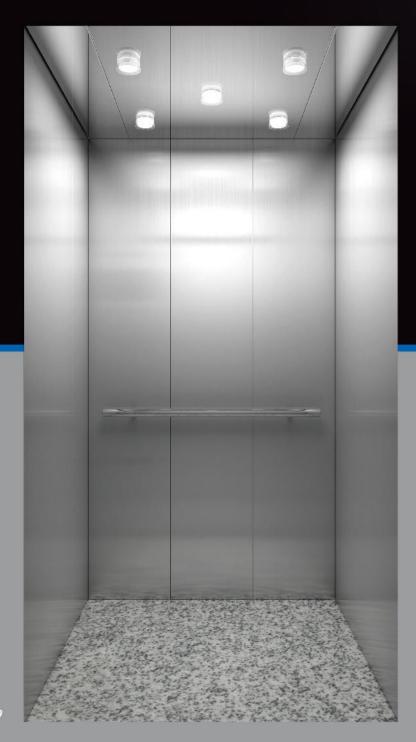
Positioning system of absolute position

With APS positioning system of absolute position, real-time positioning of the car running status and absolute position are conducted to ensure stable operation and accurate landing.

Automatic sterilization and purification system

UV sterilization and automatic air filtration system can be used to clean the air, greatly reducing the risk of virus infection.

GRP20 PASSENGER ELEVATOR



RJ011

Stainless steel car (Standard)

Car wall: hairline stainless steel
Car door: hairline stainless steel

Ceiling: mirror stainless steel, LED crystal lamp (RD014)

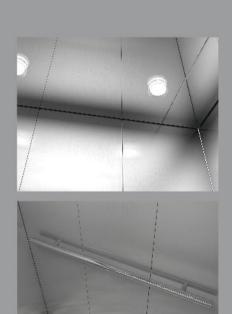
Floor: PVC (RPV010)

Handrail: stainless steel round pipe (RF002) (Optional)

COP: embedded control box (RC004)



Scan the QR code to know more about the lift car in the 360-degree manner



Hall call box (No bottom box) (Standard



RZ004-1-3



(4)







RJ049

Stainless steel cal (Optional)

Side wall: hairline stainless steel

Back wall: hairline stainless steel on both sides, stainless steel of the middle

mirror surface

Car door: hairline stainless steel

Ceiling: panoramic integrated ceiling

(RD050)

Floor: marble tiles (RPV019)

COP: integrated control box (RC016)



Scan the QR code to know more about the lift car in the 360-degree manner





RJ050

Stainless steel car (Optional)

Remarks: The ceiling pattern can be customized as required

Side wall: hairline stainless steel on both sides, etched stainless steel in the middle mirror surface

Back wall: hairline stainless steel on both sides, mirror stainless steel in the middle

Car door: hairline stainless steel

Ceiling: panoramic integrated ceiling

Floor: marble tiles (RPV019-1)

COP: embedded control box (RC013)

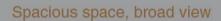


Scan the QR code to know more about the lift car in the 360-degree manner

Heartbeat

GRO Observation Elevator As far as I can see, it catches my eyes

GRO sightseeing elevator follows the architectural aesthetic design so that the relationship between the elevator and the building is no longer a simple subsidiary relationship, but set off each other. The large-screen glass car wall and the unique appearance add to the architectural beauty of the building while also providing passengers with a mobile sightseeing platform.



The car space is spacious and transparent, effectively alleviating the discomfort at high altitude.

With a large sightseeing area design, the viewing field is wide.

Precise sensitivity light curtain protection

High-sensitivity light curtain protection technology, can accurately identify under strong light, to keep passengers safe at all times.

Customization of appearance design

The customized appearance design of the hoistway can match the corresponding color glass, hoistway frame and parts according to the architectural style, presenting a seamless beauty.

Safe and considerate design

The elevator car is equipped with standard height handrails, and the car wall is made of safety laminated glass, giving people a sense of security.

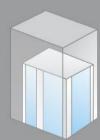


A variety of layout plans to appreciate different views

All-round hoistway

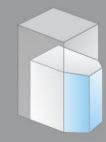




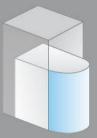


Panoramic type

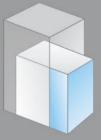
Half hoistway



Corner-cutting type



Semicircle type



Square typ

Note: The blue part is sightseeing glas









RJ105

(Standard)

Upper and lower covers:

Steel plate paint frame, acrylic lighting

Sightseeing wall:

Safety laminated glass

Ceiling: Steel plate paint frame, acrylic top plate, downlight embellishment

Car wall:

Hairline stainless steel

Handrail:

Stainless steel tube

Floor:

PVC

RJ103

(Standard)

Upper and lower covers:

Steel plate paint plus decorative lights

Sightseeing wall:

Safety laminated glass

Ceiling:

Mirror st./st with acrylic plate

Car wall:

Laminated glass

Handrail:

Stainless steel tube

Floor:

PVC

RJ110

(Optional)

Sightseeing wall:

Safety laminated glass

Ceiling:

Hairline frame, mirror stainless steel, acrylic strip

Car wall:

Hairline stainless steel

Handrail:

Stainless steel tube

Floor:

PVC

RJ111

(Optional)

Upper and lower covers:

Hairline stainless steel,mirror surface moulding on the central axis

Sightseeing wall:

Safety laminated glass, curved onthe front and flat glass on both sides

Ceiling:

Hairline stainless steel frame,multi-layered transparent board and downlight mixed lighting

Car wall:

Hairline stainless steel

Handrail:

Stainless steel tube

Floor:

PVC

Custom

GRB Bed Elevator Health plan Professional customization

GRB bed elevator is a typical product that Sicher practices responsibility of brand safety. Based on the particularity of the elevator scene, it adopts professional customized health elevator solutions to prevent viruses, and create health and safety space for medical staff and patients.



Meet the requirements of elevator for high-frequency and strong carrying

EMS electromagnetic compatibility

The control system complies with electromagnetic compatibility standards, effectively suppressing electromagnetic interference between various medical instrument and the elevator signal.

Large longitudinal and deep car

Meet the needs of transporting hospital beds in daily medical care









Car air sterilization and purification

The purification rate of PM2.5 particles and the disinfection rate of bacteria are as high as 99.44%

Broaden your horizons

Exquisite handrail fits to the car wall, and is easy to grasp,Arc design at both ends avoids collision

Handicapped control operation panel

Humanized design makes it easy for everyone to take elevator

Intelligent voice announcement

Intimate reminder prevents overcrossing the sto

Car decoration of bed elevator



RJ017

(Standard)

Car wall: Hairline stainless steel

Ceiling: Hairline stainless steel, LED square flat lights (RD019)

Handrail: RF005

Floor: RPV002



(Standard)

Car wall: Hairline stainless steel

Ceiling: Hairline stainless steel, LED circular flat lights (RD054)

Handrail: RF005

Floor: RPV009

Decoration

Integrated control operation panel

Panel material: Hairline stainless steel Button: Circular micro inching button Number of parking floors: 2~36 parking floors

Display screen (Optional)







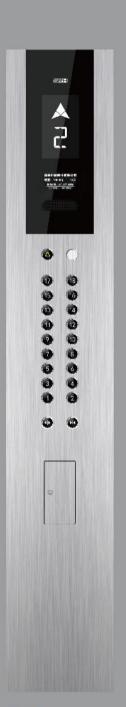


Video type display (optional)

Hall call box (No bottom box)



RZ015-1-3



RC016 (Optional)



RC014 (Optional)

Embedded control operation panel

Panel material: Anti-fingerprint stainless steel
Button: High recognition anti-fingerprint curved button
Display: HD LED segment code/LED dot matrix
Number of parking floors: 2~36 floors





Hall call box (with bottom box)



RZ013-1-1 RZ013-1-2



9

RZ013-1-3



Hall call box (no bottom box)

RZ013-1-4



RC013 (Optional)

Decoration

Ceiling



RD050

Panoramic integrated ceiling



RD047

Full mirror stainless steel ceiling, panel light in the middle and LED downlight at two sides



RD051

Mirror stainless steel, ivory finish, LED down light and light strip lighting



Mirror stainless steel at two sides, and hairline stainless steel in the middle, LED downlight

Floor



RPV019-1

RPV019



RPV021



RPV020-1 Optional colour

RPV022-1

RPV020



RPV022

Landing door



RT011 2P Central opening

Landing Door

Hairline stainless steel (narrow type)



RT012

2P Central opening

Landing Door Painted steel plate (RS004)

Painted steel plate (RS004) (narrow type)



RT010

Landing Door

Hairline stainless steel (narrow type)



RT001

Landing Door

Painted steel plate (RS004) (narrow type)

Handicapped control operation panel







RC001-3

Handrail

RC001-1









RF008

Color

RF002



RF005

Function

	d Function	Motor rotating around can be precisely adjusted to get around a get a section of the section of
	VVVF drive	Motor rotating speed can be precisely adjusted to get smooth speed curve in elevator's start, travel and stop and gain the sound comfort.
	VVVF door operator	Motor rotating speed can be precisely adjusted to get the more gentle and sensitive door machine start / stop.
	Independent running	The elevator can not respond to outer calling, but only respond to the command inside the car through the action switch.
Цф	Automatic pass without stop	When the car is crowded with the passengers or the load is closed to preset value, the car will automatically past the calling landing in order to keep maximum travel efficiency.
Travel	Car stops and door open	The elevator decelerates and levels, the door only opens after the elevator comes to a complete stop.
function	Command register cancel	If you press the wrong floor command button in the car, twice continuous pressing of the same button can cance the registered command.
	Direct parking	It completely accords with distance principle with no crawling in the leveling. It greatly enhances the travelefficiency.
	Photocell protection	In the door open and close period, infrared light that covers the whole door height is used to probe the door protection device of both the passengers and objects.
	Designated stop	If the elevator can not open the door in the destination floor out of some reason, the elevator will close the doo and travel to the next designated floor.
	Overload holding stop	When the car is overload, the buzzer rings and stops the elevator in the same floor.
	Anti-stall timer protection	The elevator stops operation due to slippery of the traction wire rope.
	Start protection control	If the elevator does not leave door zone within the designated time after it starts, it will stop the operation.
	Fault self-diagnosis	The controller can record 62 latest troubles so as to quickly remove the trouble and restore the elevator operation.
	Up/down over-run and final limit protection	The device can effectively prevent from the elevator's surging to the top or knocking the bottom when it is out control. It results in more safe and reliable elevator travel.
Safety function	Down over-speed protection device	When the elevator's down speed is 1.2 times higher than the rated speed, this device will automatically cut off control mains, stop the motor running so as to stop elevator down at over-speed. If the elevator continues to down at over-speed, and if the speed is 1.4 times higher than rated speed, safety tongs act to force the elevator stop in order to ensure the safety.
	Upward over-speed protection device	When the elevator's up speed is 1.2 times higher than rated speed, the device will automatically decelerate or brake the elevator.
	Braking Force Self- Detection Function	System will do the detection and failure warning for the braking force regularly so as to prevent the accident of braking failure and bring passengers safety protection at any time.
	Steel Rope Slipping Self-Detection	System will monitor the offset when the elevator is running. Elevator will run into the safety model and drive the nearest leveling if the offset deviate from the reasonable value.
	Balance System Self-Learning	System can automatically recognize and calculate elevator coefficient of balance deviation and provides weight adjustment calculation to give the reasonable adjustment opinion.
	Unintended Car Movement Protection	Protection to prevent or stop accidental movement of the car when the car at the door unlocked area and the door is opened.
	Emergency car lighting	Emergency car lighting automatically activated once power failure.
	Inching running	When the elevator enters into emergency electric operation, the car travels at low speed inching running.
mergency	Five way intercom	Communication amid car, car top, elevator machine room, well pit and rescue duty room through walkie-talkie.
function	Fire emergency return	If you start key switch in main landing or monitor screen, all the callings will be cancelled. The elevator direct and immediately drives to the designated rescue landing and automatically opens the door.
	Micro-touch button for car call and hall call	New type micro-touch button is used for operation panel command button in the car and landing calling button.
Man-	Floor and direction indicator inside car	The car shows the elevator floor location and current travel direction.
machine	Floor and direction indicator in hall	The landing shows the elevator floor location and current travel direction.
interface	Car arrival gong	Arrival gong in the car top announces that the passengers arrive.
4	Car ventilation, light automatic shut off	If there is no calling or command signal within the stipulated time, the car fan and lighting will be automatical closed in order to save the energy.
nergy-saving environmental protection	LED Green Lighting	Adopt the most suitable LED green lighting for residential building. It has long service life, low power consumption, downy and bright light.

Ontinu	Function	
Optiona	Function	
	Anti-nuisance	In the light duty load, when three more commands appear, in order to avoid the unnecessary parking, all the registered callings in the car will be cancelled.
фф	Group control function	When three or more same model elevator groups are controlled in use, the elevator group can automatically choose the most appropriate response. It avoids the repeated elevator parking, reduces the passengers' waiting time and increases the travel efficiency.
Travel function	Duplex control	Two sets of same model elevators can unified respond the calling signal through the computer dispatch. In this way, it reduces the passengers' waiting time to the greatest extent and enhances the travel efficiency as well.
	Open the door in advance	When the elevator decelerates and enters into door open zone, it automatically opens the door to enhance the travel efficiency.
	Door-opening re-leveling	When the elevator door opens and leveling fluctuation occurs due to change of the car load, the system automatically runs the elevator to leveling position by its own leveling speed under the conditions of door-opening.
	Absolute-Location Positioning System	By installing APS absolute-location positioning system, the car landing location can be accurate positioning to realize accurate operation of elevator.
	Caution Pinch Function	Setting up a three-dimensional infrared protection area at the elevator door jamb. The door operator will stop running when foreign matter is detected at this area to effectively prevent fingers from being caught into the door jamb while the door operator is running.
Safety function	3D Door Protection Function	To make a photocell protection three-dimensional area with the technology of TOF combined with infrared ray, and prevent passenger from being crashed and caught with car door.
	Re-power supply protection device	When the power is turned off and on again, it can effectively suppress the instantaneous fluctuation of the power supply and reduce the influence of the electronic components by the power fluctuation.
	Voice announcer	When the elevator normally arrives, voice announcer informs the passengers about the relevant information
	The second operation box	It is used in the large loading weight elevators or the elevators with crowded passengers so that more passengers can use the car.
	Operation box for the disabled	It is convenient for the wheelchair passengers and those who have visual disorder.
	IC card control function	All (partial) landings can only input car commands through IC Card after the authorization.
	Voice Calm Function	When the elevator is breakdown, the comfort and calm voice will be automatically released to prevent the passenger from doing the wrong operation to cause more serious accident.
Man- machine	Intelligent voice call	Automatic registration of elevator floors is realized by using voice recognition technology, and contact-free registration of target floors is realized by voice interaction.
interface	Face recognition call	Through the face recognition technology, the key feature information of the person's face is captured and scanned at high speed during the ride to achieve the purpose of automatically registering floors without contact.
	Bluetooth call	Through the Bluetooth function of the mobile phone, the remote opening and closing of elevator doors and the visual appointment call can be realized.
	QR code call	After the user registers in this system, dynamic qr code is automatically generated in the cloud, and the destination floor can be registered by scanning the code when taking the ladder, which is applicable to both users and visitors.
	Professional antibacterial button	The button contact surface made up of the special antibacterial materials can achieve the high efficiency sterilization.
	Camera function in the car	The camera is installed in the car to monitor the car conditions.
	Mobile Phone Commissioning Function	Maintenance worker can do the remote management and commissioning to elevator by mobile terminal platform, which highly improve the service efficiency.
Monitor function	Internet of Things (Remote Monitor)	Connect elevator with internet by the comprehensive application of internet of things, do the 24 hours constantly collection and monitor to daily running information of elevator. Make the early warning and alarm to elevator running failure and accident, graded response and emergency handling to realize the remote real-time monitoring, to ensure passenger safety.
Energy-saving	Energy-Regenerating Technology	Adopt regenerative power device which has remarkable energy-saving effect to convert the potential energy produced by the elevator running to electrical power, then the electrical power support the power grid to maximize realize the utilization rate of renewable energy, help the customer to realize environmental protection, economic interests.
environmental protection	Clean Antibacterial Function	The antibacterial device located in the cabin will regularly sterilization and disinfection, real-time ventilation to make sure the clean air of cabin, get it far away from the bacterial.
Emergency function	Auto Return Device	In normal power failure, the chargeable battery supplies the elevator power. The elevator drives to the nearest landing.

GRPS20 construction sketch

Hoistway elevation Machine room plan Hoistway plan Net width of door

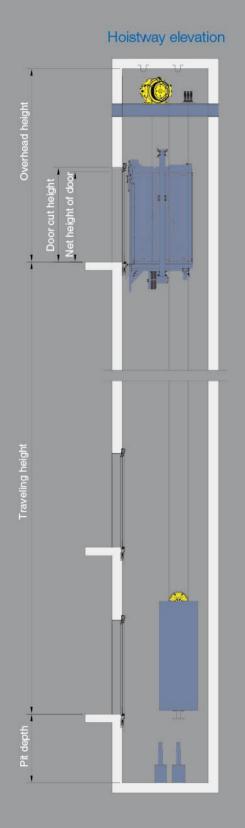
GRPS20 small machine room elevator specifications

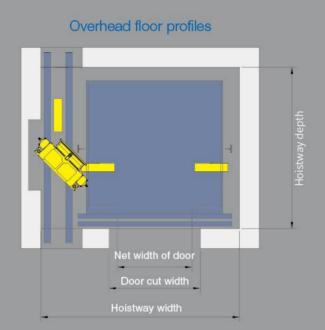
Persons	Rated	Rated	Net size of car (mm)	Net size of door (mm) D.WxD.H	Hoistwa	ay size (m	m)	Machine room size (mm)		Max traveling
(people)	capacity (kg)	speed (m/s)	C.W x C.D	2P Central opening	H.W x H.D	О.Н	P.D	MR.W x MR.D	MR.H	height (m)
-5	400	1.0	1100×1000	700x2100	1700x1650	4100	1350	1700×1650	2300	45
8	630	1.0	1400x1100	800x2100	2000x1750	4100	1350	2000x1750	2300	45
0	030	1.75	1400X1100	000XZ100	2000X1750	4300	1500	2000X1750	2300	95
		1.0				4100	1350			45
10	800	1.75	1400×1350	800x2100	2000x2000	4300	1500	2000x2000	2300	95
		2.0				4400 4700	1600			120
		1.0				4100	1350			45
		1.75				4300	1500			95
		2.0				4400	1600		2300	120
		2.5	1600x1500		2200x2150	4700	1700	2200x2150		150
		3.0				5000	2200			150
		3.5				5400	2700		2700	180
13	1000	4.0		900x2100		5800	3200			180
		1.0				4100	1350			45 95
		2.0	2.5			4400	1600	2020	2300	120
		2.5	1100x2100		2100x2500	4700	1700	2100×2500		150
		3.0				5000	2200			150
		3.5				5400	2700		2700	180
		4.0				5800	3200			180
		1.0				4200	1350			45
		1.75				4300	1500		2300	95
45	4450	2.0	4700 4500	1000 0100	2000 2450	4400	1600	0000 0450		120
15	1150	2.5	1700x1500	1000x2100	2300x2150	4700 5000	1700 2200	2300x2150		150 150
		3.5				5400	2700		2700	180
		4.0				5800	3200			180
		1.0				4200	1350			45
						4300	1500		2200	95
		2.0				4400	1600		2300	120
16	1250	2.5	1950x1400	1100x2100	2600x2050	4700	1700	2600x2050		150
		3.0				5000	2200		0700	150
		3.5				5400	2700		2700	180
		4.0 1.0				5800	3200			180 45
		1.75				4200 4300	1350			95
		2.0				4400	1600		2300	120
18	1350	2.5	1950x1550	1100x2100	2600x2200	4700	1700	2600x2200		150
		3.0				5000	2200			150
		3.5				5400	2700		2700	180
		4.0				5800	3200			180
		1.0				4200	1350			45
		1.75				4300	1500		2300	95
21	1600	2.0	1950×1750	1100x2100	2600x2400	4400 4700	1600 1700	2600x2400		120 150
<u>- 1</u>	1000	3.0	1000/1/00	1100/2100	2000/2700	5000	2200	2000/2400	-	150
		3.5				5400	2700		2700	180
		4.0				5800	3200		HT 1400 (737 738	180
		1.0				4200	1350			45
		1.75				4300	1500		2300	95
		2.0	0.000	1000 - 11-	0000	4400	1600	0000	2000	120
26	2000	2.5	2100x1950	1200x2100	2800x2600	4700	1700	2800x2600		150
		3.0				5000	2200		0700	150
		3.5				5400	2700		2700	180

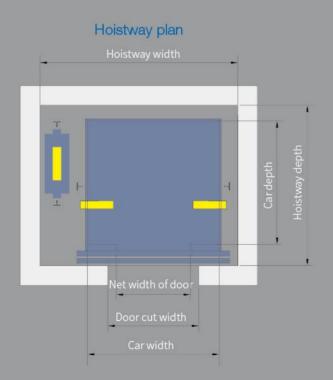
^{*}For stretcher elevator

Note: The specific parameters are subject to the actual drawings.

GRPN20 construction sketch





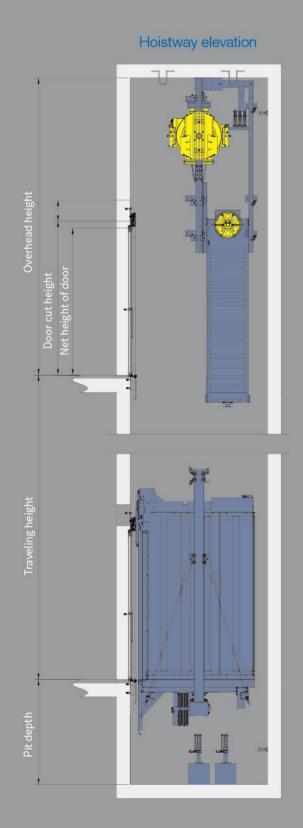


GRPN20 machine roomless elevator specifications

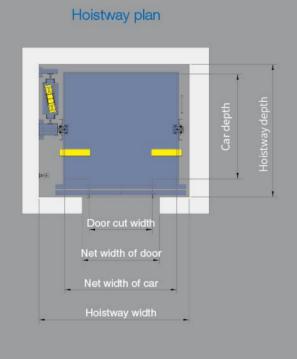
Persons	Rated	Rated	Net size of car (mm)	Net size of door (mm) D.WxD.H	Hoistwa	ay size (n	nm)	Max traveling height
(people)	capacity (kg)	speed (m/s)	C.W x C.D	2P Central opening	H.W x H.D	O.H	P.D	height (m)
5	400	1.0	1100x1000	700x2100	2100x1400	4000	1600	45
8	630	1.0	1400×1100	800x2100	2200x1700-	4000	1600	45
0	630	1.75	1400x1100	600X2100	2200X1700-	4100	1000	60
		1.0				4000	1600	45
10	800	1.75	1400x1350	800x2100	2200x1850	4100	1000	60
		2.0				4200	1700	75
		1.0	1600×1500			4000	1600	45
13	1000	1.75		900x2100	2400x1950	4100	1000	60
		2.0		20 200 200 200 200		4200	1700	75
		1.0				4300	1600	45
16	1250	1.75	1950x1400	1100x2100	2950x1850	4400	1600	60
		2.0				4500	1700	75
		1.0				4300	1600	45
18	1350	1.75	1950x1550	1100x2100	2950x2000	4400	1600	60
		2.0				4500	1700	75
		1.0				4500	1600	45
21	1600	1.75	1950x1750	1100x2100	2950x2200	4600	1000	60
		2.0				4700	1700	75

Note: The specific parameters are subject to the actual drawings.

GRPN20-VII construction sketch







GRPN20-VII machine roomless elevator specifications (Thin mainframe)

Persons (people)	Rated	Rated	Net size of car (mm)	Net size of door (mm) D.WxD.H	Hoistwa	Max traveling		
	capacity (kg)	speed (m/s)	C.W x C.D	2P Central opening	H.W x H.D	O.H	P.D	height (m)
		1.0	1400×1100	800x2100	1950x1650	3900	1400	45
8	630	1.75				4100	1500	60
10020		1.0			1950x1800-	3900	1400	45
10	800	1.75	1400x1350	800x2100		4100	1500	60
10		1.0				3900	1400	45
13	1000	1.75	1600x1500	900x2100	2150x1900	4100	1500	60

Note: The specific parameters are subject to the actual drawings.

GROS construction sketch

Hoistway elevation Machine room plan Machine room door Hoistway plan

Note: the conceptual diagram takes the semi-circular panorama lift as an example.

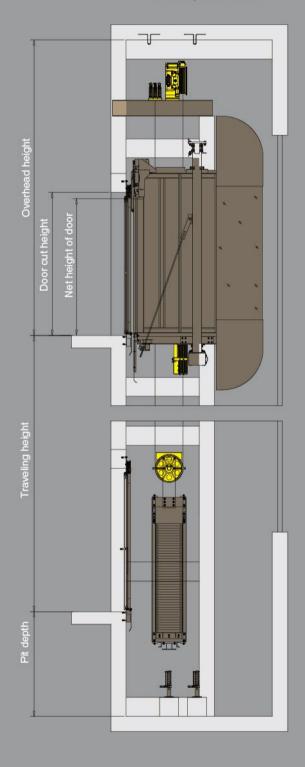
GROS small machine room observation elevator specifications

Persons	Rated	Rated	Net size of car (mm)	Net size of door (mm)	Hoistway	y size (mn	n)	Machir room size		Car shape	Max	
(people)	capacity (kg)	speed (m/s)	C.W x C.D	2P Central opening	H.W x H.D	О.Н	P.D	MR.W x MR.D	MR.H		traveling height (m)	
0	000	1.0	4400 4400	000 0400	0000 4050	4100	1400	0000 4050	0500		45	
8	630	1.75	1400 × 1100	800×2100	2200 × 1650	4300	1500	2200 × 1650	2500		95	
		1.0				4100	1400				45	
10	800	1.75	1400 × 1350	800×2100	0000 1050	4300	1500	2200 × 1850	2500		95	
10	800	2.0	1400 x 1350	800 X 2 100	2200 × 1850	4400	1600	2200 X 1650	2500		120	
		2.5				4700	1700				150	
		1.0				4100	1400				45	
13	1000	1.75	1000 - 1500	0000100	0400 1050	4300	1500	0400 1050	2500		95	
13	1000	2.0	1600 × 1500	900×2100	2400 × 1950	4400	1600	2400 × 1950	2500		120	
		2.5				4700	1700			Square	150	
		1.0				4200	1400			shape	45	
40	4050	1.75	1050 1100	1100 0100	0750 4000	4300	1500	0750 4000	0500		95	
16	1250	2.0	1950 × 1400	1100×2100	2750 × 1900	4400	1600	2750 × 1900	2500		120	
		2.5				4700	1700				150	
		1.0				4200	1400				45	
		1.75		1100 0100	0750 0000	4300	1500	0750 0000	/2222		95	
18	1350	2.0	1950 × 1550	1950 X 1550 1100 X	1100×2100	2750×2000	4400	1600	2750 × 2000	2500	1	120
		2.5				4700	1700				150	
		1.0				4200	1400				45	
0.4	1000	1.75	1050 1750	1100 0100	0750 - 0000	4300	1500	2750 × 2200	0500		95	
21	1600	2.0	1950 × 1750	1100×2100	2750 × 2200	4400	1600	2750 × 2200	2500		120	
		2.5				4700	1700				150	
		1.0				4100	1400				45	
		1.75		000 0400	0.400 4.440	4300	1500	0.400 0005		Ohamfan	95	
13	1000	2.0	1400 × 1850	900 × 2100	2400 × 1110	4400	1600	2400 × 2395	2500	Chamfer	120	
		2.5				4700	1700				150	
		1.0				4100	1400				45	
		1.75	1000 1050	000 0400	0000 1110	4300	1500	0000 0105	0500		95	
10	800	2.0	1200 × 1650	800×2100	2200 × 1110	4400	1600	2200 × 2195	2500		120	
		2.5				4700	1700			Semi-	150	
		1.0				4100	1400			circular shape	45	
16		1.75		000 0100	0400 4446	4300	1500	0400 000=		Silape	95	
13	1000	2.0	1400 × 1850 900	900 × 2100	2400 × 1110	4400	1600	2400 × 2395	2500		120	
		2.5				4700	1700				150	
		1.0				4200	1400				45	
45	1150	1.75	1000 0100	1000 - 0100	0750 4000	4300	1500	0750 0700	0500		95	
15	1150	2.0	1200×2100	1000 × 2100	2750 × 1060	4400	1600	2750 × 2700	2500	Round	120	
	9	2.5				4700	1700	1			150	

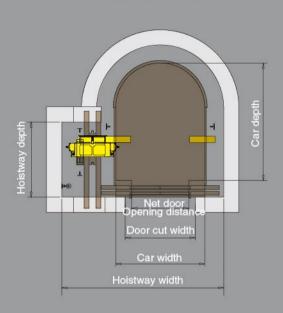
Note: The specific parameters are subject to the actual drawings.

GRON construction sketch

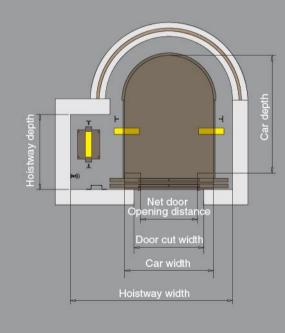
Hoistway elevation



Machine room plan



Hoistway plan



GRON machine roomless observation elevator specifications

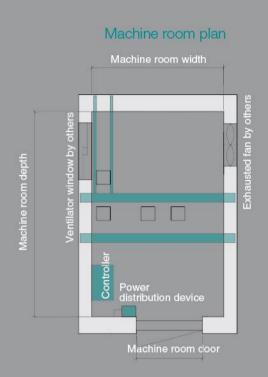
Persons (people)	Rated capacity	Rated speed	Net size of car (mm)	Net size of door (mm)	Hoistwa	ay size (mm)		Car shape	Max traveling
	(kg)	(m/s)	C.W x C.D	2P Central opening	H.W x H.D	O.H	P.D		height (m)
0	000	1.0	1100 1100	000 0100	2000 1700	4000	1500		45
8	630	1.75	1400 × 1100	800×2100	2200 × 1700	4100	1600		60
		1.0				4000	1500		45
10	800	1.75	1400 × 1350	800×2100	2200 × 1850	4100	1600		60
		2.0		200120000000000000000000000000000000000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4200	1700		75
		1.0				4000	1500		45
13	1000	1.75	1600 × 1500	900×2100	2400 × 1950	4100	1600		60
		2.0				4200	1700		75
		1.0				4300	1500	Square	45
16	1250	1.75	1950 × 1400	1100 × 2100	2950 × 1850	4400	1600	0	60
		2.0		0.0000 000 000		4500	1700		75
		1.0				4300	1500		45
18	1350	1.75	1950 × 1550	1100 × 2100	2950 × 2000	4400	1600		60
		2.0				4500	1700		75
		1.0				4500	1500		45
21	1600	1.75	1950×1750	1100 × 2100	2950 × 2200	4600	1600		60
Per House		2.0			P1 5-3 (200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4700	1700		75
		1.0				4500	1600		45
13	1000	1.75	1400 × 1850	900×2100	2550 × 1170	4600	1700	Chamfer	60
		2.0				4700	1800		75
		1.0				4500	1600		45
10	800	1.75	1200 × 1650	800×2100	2350 × 1080	4600	1700		60
		2.0				4700	1800	Semi-	75
		1.0				4500	1600	circular shape	45
13	1000	1.75	1400 × 1850	900×2100	2550 × 1170	4600	1700	Shape	60
	1000	2.0				4700	1800		75

Note: The specific parameters are subject to the actual drawings.

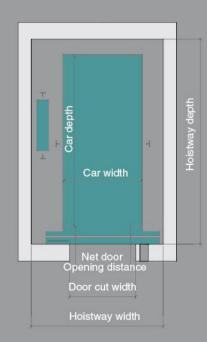
Note: the conceptual diagram takes the semi-circular panorama lift as an example

GRBS construction sketch

Hoistway elevation



Hoistway plan



Note:The diagram shows two-panel center door bed elevator.
Please refer to the construction layout drawing for other detailed specifications of the bed elevators.

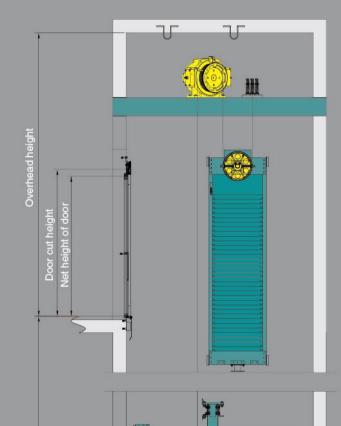
GRBS small machine room bed elevator specifications

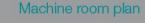
Persons	Rated	Rated	Net size of car (mm)	Net size of door (mm)	Hoistwa	ay size (m	nm)	Machir room size		Max traveling
(people)	capacity (kg)	speed (m/s)	C.W x C.D	D.WxD.H	H.W x H.D	О.Н	P.D	MR.W x MR.D	MR.H	height (m)
		1.0				4200	1350			45
21	1600	1.75	1400×2400	1100×2100	2400×2800	4300	1500	2400 - 2000	2500	95
21	1600	2.0	1400 × 2400	2P Central opening		4400	1600			120
		2.5		25 255		4700	1700			150
		1.0				4200	1350	2500×2900		45
24	1800	1.75	15000500	1100×2100	0500 0000	4300	1500		2500	95
24	1800	2.0	1500 × 2500	2P Central opening	2500×2900	4400	1600		2500	120
		2.5				4700	1700			150
		1.0				4200	1350	2600×3100		45
26	2000	1.75	1500×2700	1200×2100	2600×3100	4300	1500		2500	95
20	2000	2.0	1500 × 2700	2P Central opening	2000 × 3 100	4400	1600		2500	120
		2.5				4700	1700			150
		1.0		1100×2100	2100×2600	4100	1350	2100×2600	2500	45
13	1000	1.75				4300	1500			95
13	1000	2.0	1100×2100	2P Telescopic opening		4400	1600			120
		2.5				4700	1700			150
		1.0				4200	1350			45
21	1600	1.75	4.400 0.400	1100×2100	2000 2000	4300	1500	0000 0000	0500	95
21	1600	2.0	1400×2400	2P Telescopic opening	2200×2900	4400	1600	2200×2900	2500	120
		2.5				4700	1700			150
		1.0				4200	1350			45
24	1800	1.75	1500 0500	1200×2100	2000 0000	4300	1500		0500	95
24	1800	2.0	1500×2500	2P Telescopic opening	2300×3000	4400	1600	2300×3000	2500	120
		2.5				4700	1700	1		150
		1.0				4200	1350			45
00	2000	1.75	4500 0765	1300×2100	0.450 0000	4300	1500	0.450 0000	0500	95
26	2000	2.0	1500×2700	2P Telescopic opening	2450 × 3200	4400	1600	2450 × 3200	2500	120
		2.5		1 10		4700	1700	1		150

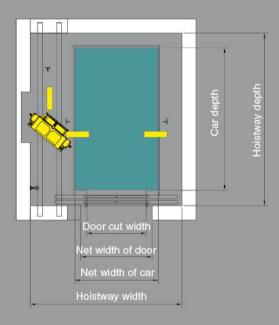
Note: The specific parameters are subject to the actual drawings.

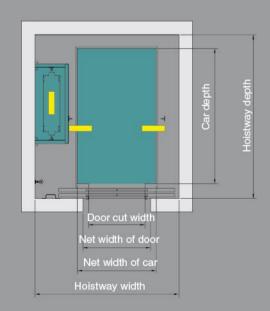
GRBN construction sketch

Hoistway elevation









Note:The diagram shows two-panel center door bed elevator.

Please refer to the construction layout drawing for other detailed specifications of the bed elevators

GRBN machine roomless bed elevator specifications

Persons	Rated	Rated	Traction	Net size of car (mm)	Net size of door (mm)	Hoistway	/ size (mm)		Max traveling
(people)	capacity (kg)		ratio	C.W x C.D D.WxD.H		H.W x H.D	0.Н	P.D	height (m)
21	1600	1.0	0.4	1400×2400	1100×2100	0500 2000	4300	1400	45
21	1600	1.75	2:1	1400 × 2400	2P Central opening	2500 × 2800	4400	1500	60
24	1800	1.0		1500×2500	1100×2100	2800×2900	4500	1400	45
24	24 1000	1.75	4:1	1500 x 2500	2P Central opening	2800 × 2900	4600	1500	60
00	26 2000 —	1.0		1500×2700	1200×2100	2800×3100	4500	1400	45
26		1.75	4:1	1500×2700	2P Central opening	2000×3100	4600	1500	60
13	1000	1.0		1100 0100	1100×2100	2100×2600	4100	1400	45
13	1000	1.75	2:1	1100×2100	2P Telescopic opening		4300	1500	60
21	1600	1.0	N. Chapter 200 at	1.100 0.100	1100×2100	0.400	4300	1400	45
21	1000	1.75	2:1	1400×2400	2P Telescopic opening	2400×2900	4400	1500	60
24	1800	1.0		4500 0500	1200×2100	2000 - 2000	4500	1400	45
24	1000	1.75	4:1	1500 × 2500	2P Telescopic opening	2800×3000	4600	1500	60
26	2000	1.0		1500 0700	1300×2100	0000 0000	4500	1400	45
20	2000	1.75	4:1	1500 × 2700	2P Telescopic opening	2800×3200	4600	1500	60

Note: The specific parameters are subject to the actual drawings.

Sicher has a professional technical team that will conduct field surveys on the site and recommend or customize reasonable elevator product models and civil construction plans for users according to actual construction conditions to match users' needs.

Work to be done by the owner and civil contractor

- All buildings in the hoistway must meet the fire protection requirements, and no holes that are not related to elevators and power sources are installed.
- The hoistway must be vertical. The horizontal dimension of the hoistway is the minimum clearance dimension, and the vertical error is 0~+25mm/0~30m, 0~+30mm/30m~60m, 0~+50mm/60m or more.
- When there is space under the bottom of the pit that can be reached by personnel, the counterweight buffer should be installed on a solid pile that extends to a solid ground, or a counterweight safety gear is installed by the elevator manufacturer.
- Before the elevator is installed, all door holes must be provided with a safety enclosure with a height of not less than 1.2 meters, and sufficient strength should be ensured.
- Enclosed hoistway shall be provided with ventilation holes (usually at the top and bottom of the well) as required, and the area shall not be less than 1% of the horizontal area of the hoistway. The ventilation holes shall be provided with protective nets.
- The elevator hall doors, reserved holes of elevator-call display and other reserved holes need to be backfilled and decorated when the elevator is installed.
- The elevator hoistway is preferably a concrete structure. If the hoistway is a frame structure, a concrete ring beam with a height of 300mm should be installed at the installation place of the guide rail bracket, and a concrete beam with a height of 300mm and the same width as the hoistway should be installed on the upper and lower edges of the opening of each floor. If the hoistway is a solid load-bearing brick wall structure, concrete beams with a height of 300mm and the same width as the hoistway should be installed on the upper and lower edges of the reserved hole on each floor.
- When the distance between two adjacent door exceeds 11 meters, a safety door that cannot be opened into the hoistway shall be set between two doors, and the size of the safety door shall not be less than 350mm wide and 1800mm high.
- The pit should be waterproof, if there is a puddle, it should be set at the corner of the wall.
- According to the requirements in the technical parameter table, the power supply should be installed into the machine room and it is installed with a protected switch and locked. The power fluctuation range should not exceed 7%. The neutral wire and ground wire of the power supply should be separated, and the grounding resistance value should not be greater than 4 Ω.
- The temperature in the machine room should be maintained at 5~40°C. The machine room should be flat and must be able to withstand a standard uniform live load which is not less than 7.0KN per square meter. When the floor height of the machine room is different and the difference is greater than 500mm, stairs or steps should be installed and guardrails should be installed.
- The user needs to set up a rescue duty room, and lay one cable with 6 cores (shielded/twisted pair is recommended) to the each machine room, and each core wire has a diameter of at least 0.75 square millimeters.