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GRF
ESCALATOR
自动扶梯



GRR
MOVING WALKS
自动人行道



广州广日电梯工业有限公司
GUANGZHOU GUANGRI ELEVATOR INDUSTRY CO.,LTD.



领先 | Advanced Technology 技术

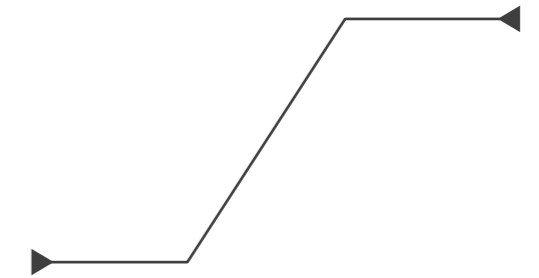
广日扶梯产品已授权及受理中的专利技术共计51项，其中发明10项；专利技术主要应用包括：安全保护装置、动力驱动系统、电气控制系统、外观系统部件等。

Guangri Elevator technologies have obtained 51 patents in total, including 10 invention patents. Those patent technologies are generally applied to safety protection device, power drive system, electrical control system, appearance system components and so on.

发明专利名称 Name of Invention Patent	专利号 Patent No.
智能制动控制方法及其系统 Intelligent braking control technique and its system	ZL200810027099.9
自动扶梯或自动人行道的动力驱动装置 Power drive device for escalator or moving walk	ZL201210248671.0
改进的自动扶梯或自动人行道 Improved escalator or moving walk	ZL201210248644.3
自动扶梯3D装配工装夹具 3D assembly tooling and fixture for escalator	ZL201510108533.6



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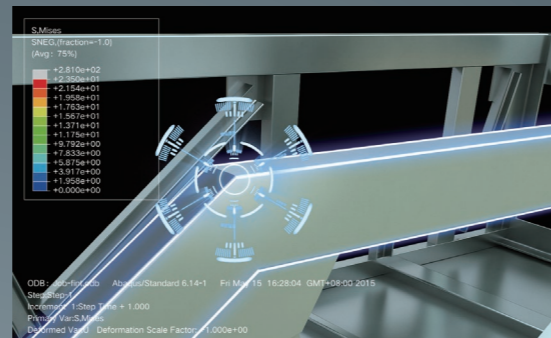


- 03 安全，值得信赖
Safe and Reliable
- 07 科技，绿色未来
Science & Technology, Green Future
- 09 卓越，精工品质
Outstanding Quality
- 11 人性，细致关怀
Humanized and Considerate Design
- 13 时尚，个性需求
Fashionable and Personalized Service
- 15 功能配置
Function Configuration Table
- 19 土建布置
Civil work layout
- 25 局部详图及客户自理防护装置
Partial detail drawings and customer attended protective devices

安全 | Safe and Reliable 值得信赖

► 高强度桁架

- 运用CAE软件分析及实试验证，桁架更坚固、耐用。
- 采用专业工装定位和微变形焊接技术，使桁架抗变形能力更强。
- 室外扶梯的金属桁架表面采用热浸锌处理，防腐蚀和抗氧化的性能处于行业领先水平。
- 针对室外扶梯专门设计下倾斜式桁架，避免下机房积水。



High-strength truss

- Analysis of CAE software and verification test are used to results in more stronger and durable truss.
- Specialized tolling locating and micro-deformable welding techniques are used to create stronger truss with great resistance to deformation.
- The surface treatment of metal trusses of outdoor escalators is hot-dip galvanized to enhance the performance of anti-corrosion and anti-oxidation.
- Designed for outdoor escalators under the inclined truss, to avoid the next room water.



► 一体化铸铝出入口 (广日专利技术)

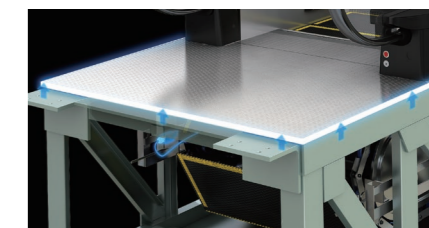
- 与盖板完美拼接，简单而优美的外观加上表面颜色可定制性，满足个性化需求。
- 集成了多种安全装置（包括急停、开启、防夹、乘客检测等），体现出设计的合理化和人性化。
- 采用铝合金压铸工艺制造而成，具有抗压、抗撞击、耐老化等多项可靠性优势，大大延长使用寿命。

Integrated aluminum casting inlet/outlet (Patent technology of Guangri Elevator)

- It is perfectly jointed with cover and apron, with simple and beautiful appearance and customizable surface color, so that the personalized demand will be satisfied.
- Several safety devices (including: emergency shutdown, startup, anti-pinch, passenger detection, etc.) are installed, boasting the reasonable and humanized design.
- Aluminum casting manufacturing process is used to produce, which is featured with shock-proof, striking resistant, anti-aging and other reliabilities, moreover, its service life will be largely extended.

► 楼层板全方位结构保护

- 全方位边框支撑设计和一体化互锁搭接结构，防止楼层板翻转；
- 楼层板开启监控装置可以监控任意楼层板异常移位，如有异常及时停止运行，确保乘客安全。



不锈钢花纹楼层板

- **不锈钢花纹楼层板**
采用不锈钢花纹面板及高强度碳钢骨架制作而成，具有较高性价比。

- **铝合金花纹楼层板**
采用自带防滑槽花纹的铝合金型材制作而成，防滑等级高，降低乘客滑倒风险。



铝合金花纹楼层板

All-around structural protection for leading edge plate

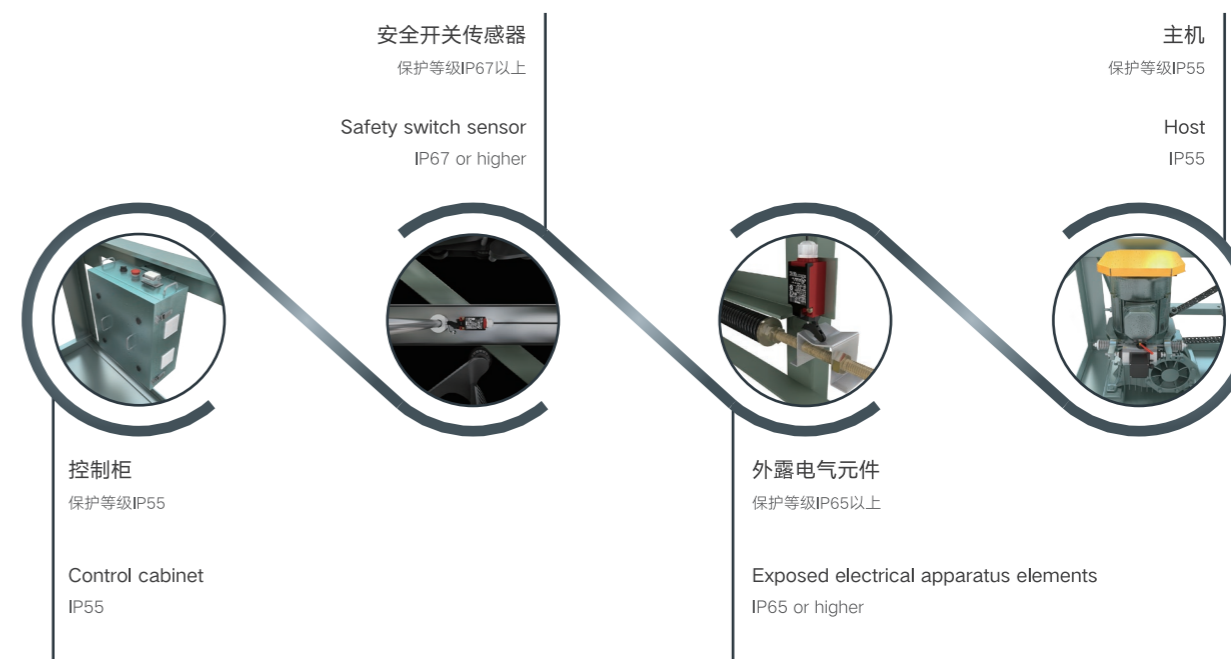
- All-around frame supporting design and integrated interlocking overlap joint structure are provided to prevent turnover of leading edge plate.
- Any abnormal displacement at the leading edge plate will be monitored when the monitoring device is under operation, so that the escalator will be stopped timely in case of any abnormalities to ensure the safety of passengers.
- **Stainless steel pattern floor board**
Stainless steel pattern panel and high-impact carbon steel skeleton, and improve the product cost;
- **Aluminum pattern floor board**
Made of aluminum alloy profile with anti-slip groove pattern, with high anti-slip grade, reducing the risk of passenger slipping.

► 电气系统

室外扶梯采用高标准高要求的电气系统，主要部件防护等级均在IP55以上。

Electrical System

Outdoor escalators using a high standard and high request of electrical systems, and its major components' IP degree are above 55.



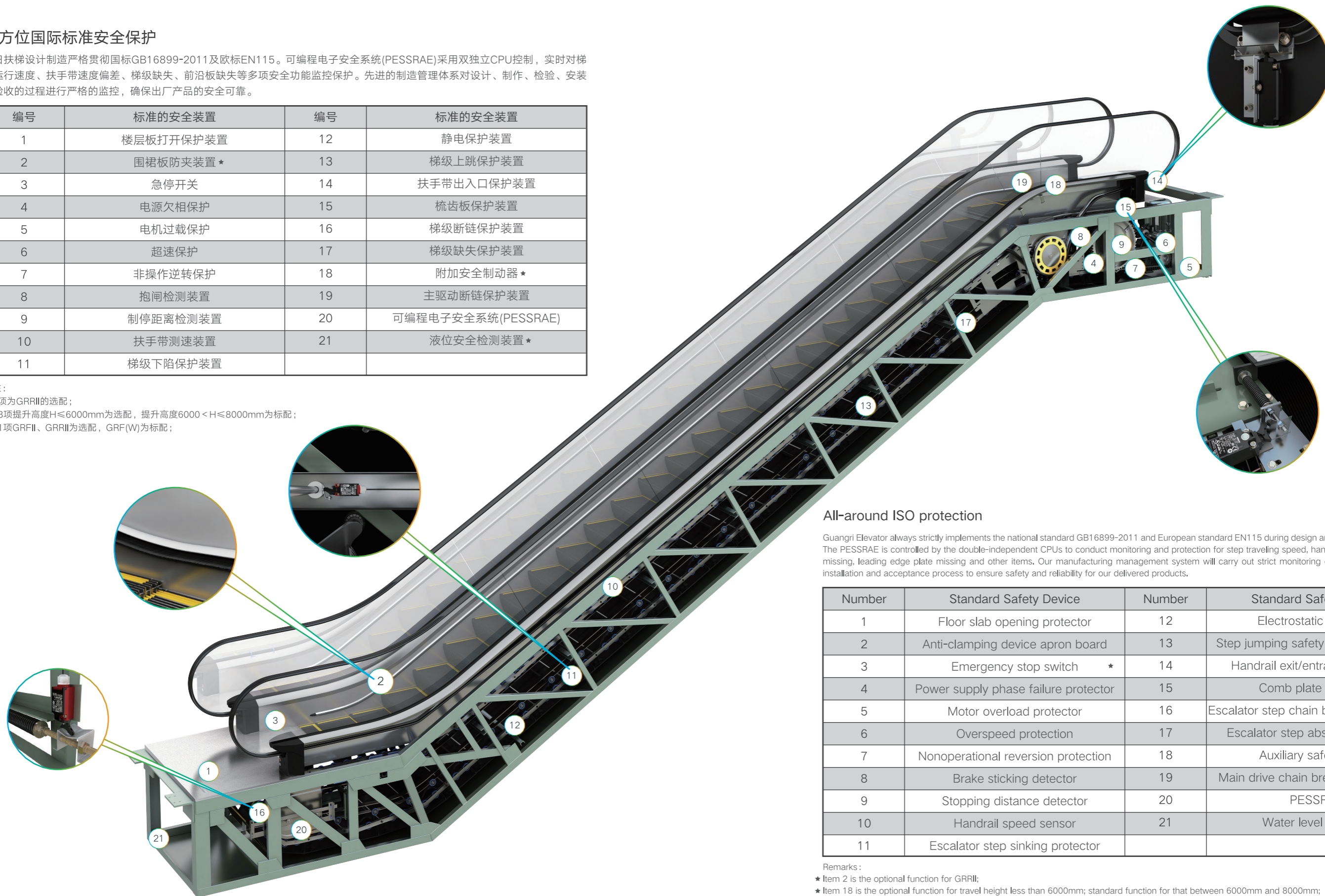
▶ 全方位国际标准安全保护

广日扶梯设计制造严格贯彻国标GB16899-2011及欧标EN115。可编程电子安全系统(PESSRAE)采用双独立CPU控制，实时对梯级运行速度、扶手带速度偏差、梯级缺失、前沿板缺失等多项安全功能监控保护。先进的制造管理体系对设计、制作、检验、安装及验收的过程进行严格的监控，确保出厂产品的安全可靠。

编号	标准的安全装置	编号	标准的安全装置
1	楼层板打开保护装置	12	静电保护装置
2	围裙板防夹装置★	13	梯级上跳保护装置
3	急停开关	14	扶手带出入口保护装置
4	电源欠相保护	15	梳齿板保护装置
5	电机过载保护	16	梯级断链保护装置
6	超速保护	17	梯级缺失保护装置
7	非操作逆转保护	18	附加安全制动器★
8	抱闸检测装置	19	主驱动断链保护装置
9	制停距离检测装置	20	可编程电子安全系统(PESSRAE)
10	扶手带测速装置	21	液位安全检测装置★
11	梯级下陷保护装置		

备注：

- ★ 第2项为GRRII的选配；
- ★ 第18项提升高度 $H \leq 6000\text{mm}$ 为选配，提升高度 $6000 < H \leq 8000\text{mm}$ 为标配；
- ★ 第21项GRFII、GRRII为选配，GRF(W)为标配；



All-around ISO protection

Guangri Elevator always strictly implements the national standard GB16899-2011 and European standard EN115 during design and manufacturing process. The PESSRAE is controlled by the double-independent CPUs to conduct monitoring and protection for step traveling speed, handrail speed deviation, step missing, leading edge plate missing and other items. Our manufacturing management system will carry out strict monitoring on design, manufacturing, installation and acceptance process to ensure safety and reliability for our delivered products.

Number	Standard Safety Device	Number	Standard Safety Device
1	Floor slab opening protector	12	Electrostatic protector
2	Anti-clamping device apron board	13	Step jumping safety protection device
3	Emergency stop switch ★	14	Handrail exit/entrance protector
4	Power supply phase failure protector	15	Comb plate protector
5	Motor overload protector	16	Escalator step chain breakage protector
6	Overspeed protection	17	Escalator step absence protector
7	Nonoperational reversion protection	18	Auxiliary safety brake ★
8	Brake sticking detector	19	Main drive chain breakage protector
9	Stopping distance detector	20	PESSRAE
10	Handrail speed sensor	21	Water level detector ★
11	Escalator step sinking protector		

Remarks:

- ★ Item 2 is the optional function for GRRII;
- ★ Item 18 is the optional function for travel height less than 6000mm; standard function for that between 6000mm and 8000mm;
- ★ Item 21 is the optional function for GRFII、GRRII, and is the optional function for GRF(W).

科技 | Science & Technology, Green Future 绿色未来

▶智能微机集成控制系统

控制系统采用双32位微机及一体控制技术，全面提高系统响应速度和稳定性，多通道冗余设计，提升电梯安全系数，令电梯运行更安全。

Microcomputer integrated control system

Double 32-bit microcomputer and the integrated control technology are applied for the control system to entirely improve the response speed and stability of the system. The multichannel redundancy design will make the escalator much safer.

▶旁路变频技术

智能一体化旁路变频技术，变频模式和工频模式根据使用情况平顺切换，下行制动产生电能直接回馈给电网，高效节能。

By-pass variable frequency technology

The intelligent and integrated by-pass variable frequency technology is applied, with the variable frequency mode and power frequency mode shifted smoothly based on the operation condition. The electric energy produced by down-going braking will be directly returned to the power grid, resulting in very high efficiency.

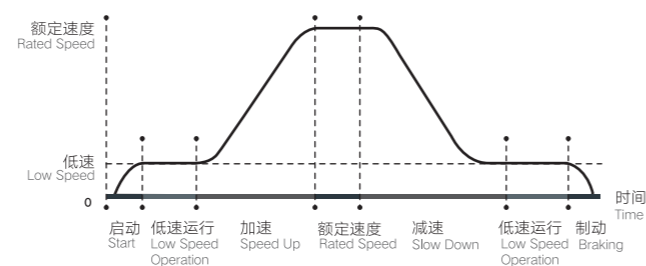


▶绿色运行，智能节能

扶梯长时间空载运行时，自动转入低速或停止状态；控制系统通过检测装置感应到乘客进入时，提前加速至额定速度，与传统控制系统相比能耗降低高达20%。

Environment friendly operation and energy conservation

The escalator will run with low speed or stop running in case of long-term unloaded operation. Once sensing passengers through detection device, the control system will make the escalator accelerate to the rated speed beforehand. As a result, the energy consumption is decreased by 20% compared to that of traditional control system.



▶远程监控系统

可以实时将扶梯的运行状态信息通过无线网络，反馈监控中心，故障发生时监控中心快速响应，迅速及时提供技术援救或维护。

Remote monitoring system

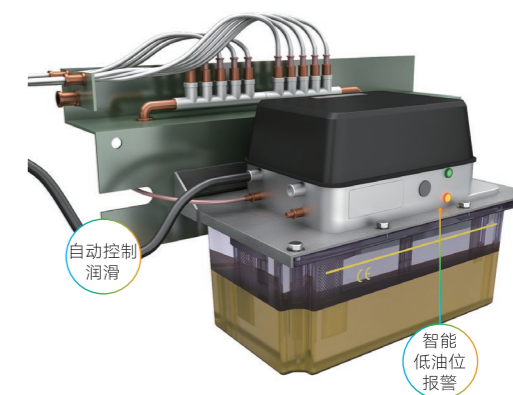
The real-time operation data of escalator will be returned to the monitoring center through wireless network. When failure occurs, the monitoring center will make quick response and provide technical rescue or maintenance promptly.

▶自动润滑系统

控制程序自动控制润滑系统，在扶梯运行过程中实时保证梯级链、驱动链等部件的充分润滑，延长传动机构的使用寿命。

Automatic lubrication system

The control system will automatically control the lubrication system, which can ensure the sufficient lubrication of step chains, drive chains and other parts at any time during the operation process, which can also prolong the service life of the drive mechanism.



▶低噪音高标准

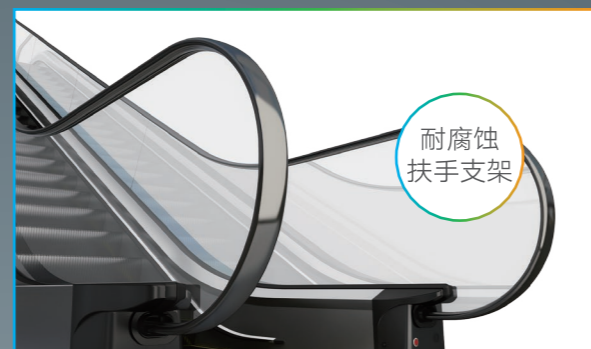
秉承绿色设计、以人为本的设计理念、以高标准设计，使扶梯整机运行任意位置上方1米处的噪音优于国标≤70dB(A)。

Low noise, high standard

Adhering to environmental-friendly, human-orientated and high-standard design principle, noise at 1m above any part the entire escalator is superior to the national standard (≤70dBA).



卓越 | Outstanding Quality 精工品质



▶ 耐腐蚀扶手支架

使用耐腐蚀不锈钢制作，结构更安全牢固，使用寿命长。

Anti-corrosive stainless steel handrail bracket

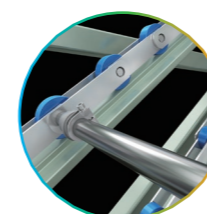
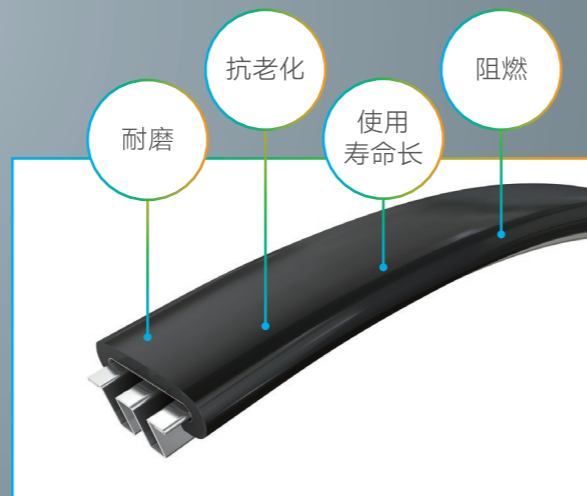
The support is made of anti-corrosive stainless steel, boasting firm and secure appearance and favorable appearance as well as long service life.

▶ 室外型专用扶手带

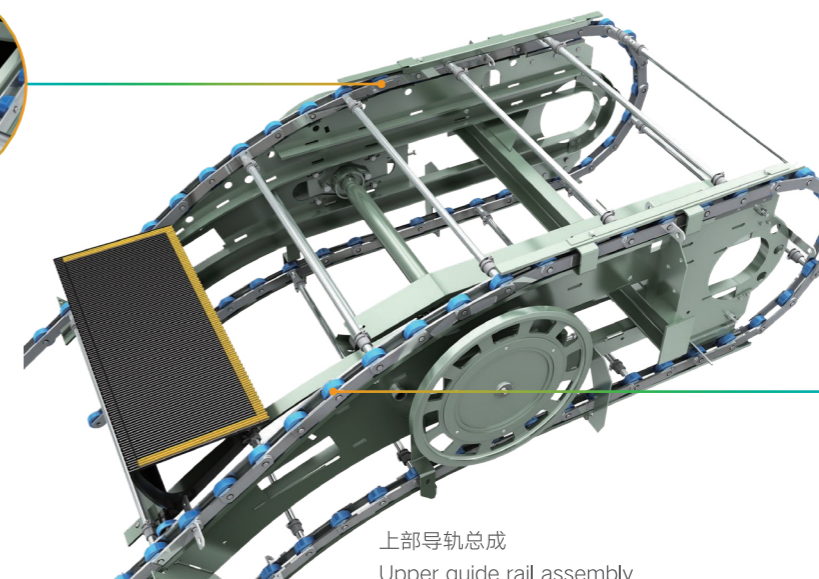
室外扶梯配备高品质CSM材料制作而成的室外专用扶手带，具有耐磨、抗老化、使用寿命长、阻燃等特性，保证使用寿命的同时享有奢华外观。

Outdoor handrails

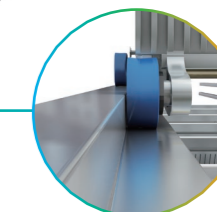
Outdoor escalators equipped with high-quality CSM materials made of outdoor special handrails, which are wear-resistant, anti-aging, long life, flame retardant and other features to enhance the useful life span and out-standing appearance.



梯级链
Step chain



上部导轨总成
Upper guide rail assembly



链轮导轨
Chain roller guide rail

▶ 高精度导轨系统 (广日专利技术)

- 导轨曲线系统采用模块化结构设计，让导轨不受桁架焊接变形影响，提高导向精度。
- 整体梯路采用侧面导向结构，结合曲线段高精度制造，确保梯级滚轮在任意位置运行平稳，有效延长滚轮寿命。
- 导轨系统具有运行平稳、噪音低、耐磨的特点。

High-precision guide rail system (Patent technology of Guangri Elevator)

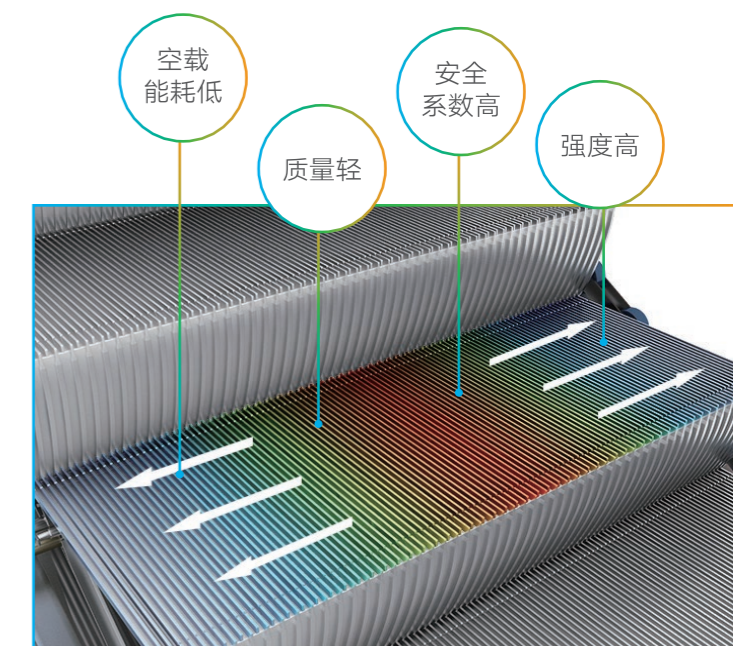
- Modular structure is used for the design of guide rail curve system, which makes the guide rail free from the deformation due to welding of truss, and the guiding precision will be improved.
- Lateral guidance design is applied for all escalator steps coupled with high-precision manufacturing of curve sections, so that the step roller will run stably at every place and the service life of rollers will be prolonged.
- The guide rail system is featured with stability, low noise and wearing resistance.

▶ 铝合金梯级

整体铸铝一次成型，材料强度及安全系数高、质量轻，单梯级重量与不锈钢梯级相比降低约43%，空载能耗低。

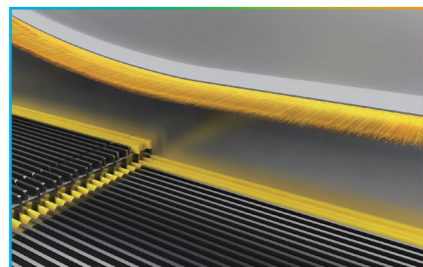
Aluminum alloy step

Steps are entirely casted with aluminum alloy and formed at one time, featured with high material strength and safety coefficient as well as light mass. The weight of single step is approximately decreased by 43% compared that of the stainless steel step, moreover, the aluminum alloy step is characterized with low unloaded energy consumption.





人性 | Humanized and Considerate Design 细致关怀

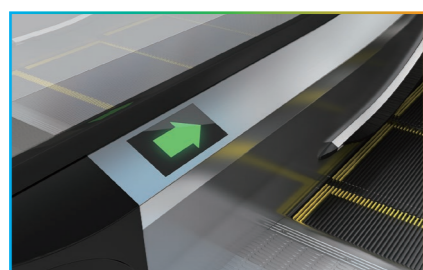


► 多功能防夹装置

- 可提供彩色毛刷，满足个性化需求。
- 可提供集成彩色照明毛刷，采用节能耐用的LED光源，光源包括：单色、多色、运动等定制模式。提供多样化的视觉效果，还可避免夹脚风险，又带来视觉美感。

Multifunctional anti-pinch device

- Multicolored brush will be provided to meet personalized demands.
- Integrated and multicolored lighting brush with durable LED will be provided. The single-colored, multicolored, dynamic light sources and other customized modes will be supplied for choose. Diversified visual effects will be provided, which can not only reduce hurt to the leg, but also bring visual beauty.



► 运行方向指示

人性化设计，实时提供运行方向信息；另可提供独立式的多样化选配。

Running direction indication

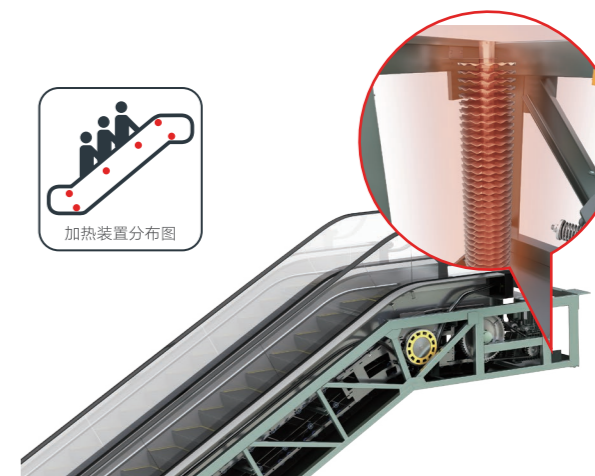
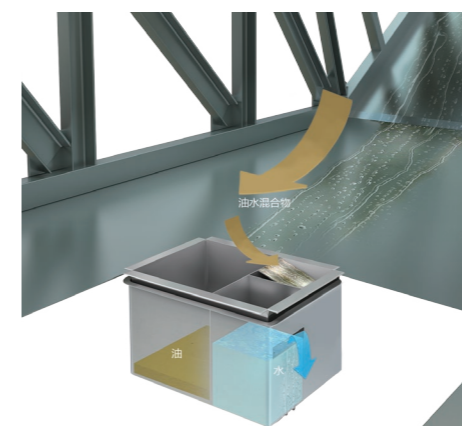
It is placed on the internal cover of the escalator entrance/exit with humanized design, and it will present the real-time running direction information. In addition, some independent and diversified options will be provided for choose.

► 油水分离器

机房积水通过油水分离器排出后，可实现油水自动分离，油储存在分离器而水自动排出，保护环境。

Oil-water separator

Ponding in the water-logged machine room can be drained away through this oil-water separator, which can store oil in this separator and drain away ponding to protect the environment.



► 加热装置

针对室外环境设计的一款加热装置，当温度达到预设温度值，加热装置自动启动，预防气温过低导致扶梯无法正常运行，给客户带来更贴心的服务。

Heating device

It is a heating device customized for the outdoor situation, when the temperature reaches the preset temperature value, the heating device automatically starts to prevent the air temperature is too low leading to counteract the normal operation of escalators, to bring customers a more intimate service.

► 多样化安全照明

采用LED照明，节能效果高达80%；增加整体美感的同时警示乘客脚下安全，提高扶梯安全系数，保障扶梯安全。

Diversified and safe lighting

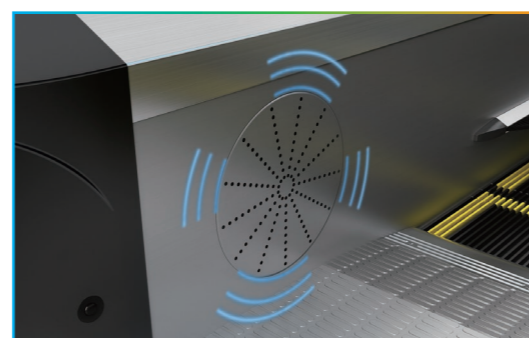
LED lighting is applied, boasting energy-saving effect up to 80%. Lighting is used for giving warns and reminders to passengers, so as to further reinforce the safety of escalator.

► 语音播报提示

- 当乘客搭乘扶梯时，语音播报装置自动播放乘梯安全提示。
- 语音提示信息可定制。

Voice broadcasting guide

- The voice broadcasting device will play safety tips automatically when passengers take the escalator.
- The voice guide contents can be customized.

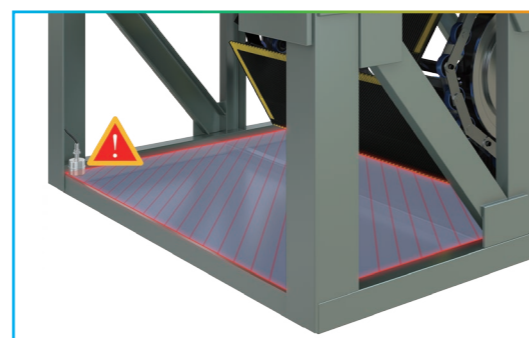


► 液位安全检测装置

当下部机房积水影响扶梯正常运行时，将触动报警装置，扶梯自动停止。

Water level detector

Alarming device will be triggered by a water-logged machine room, and escalators will stop working automatically.



出入口LED照明
LED lighting of entrance/exit

语音播报提示
voice broadcasting guide

围裙板LED照明
LED lighting of skirt guard panel

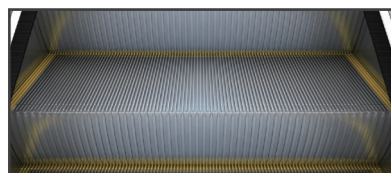
扶手LED照明
LED lighting of handrail

梯级间隙照明
lighting of step clearances

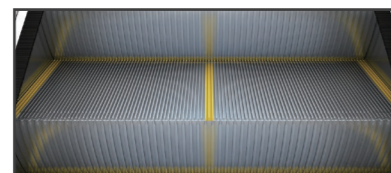
独立方向指示器
Independent direction indicator

时尚 | Fashionable and Personalized Service
个性需求

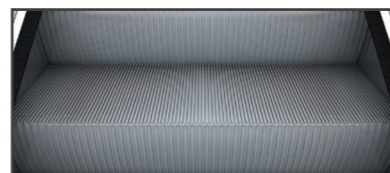
► 梯级 Step



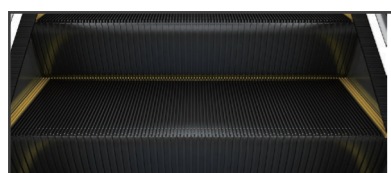
铝合金C型警示边框(TJ001)
Aluminum alloy C-shaped warning frame (TJ001)



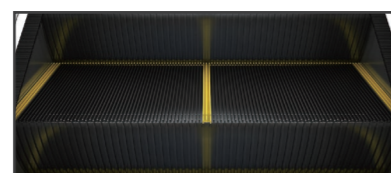
铝合金E型警示边框(TJ002)
Aluminum alloy E-shaped warning frame (TJ002)



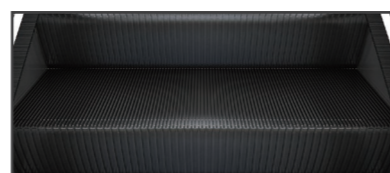
铝合金无警示边框(TJ003)
Aluminum alloy without warning frame (TJ003)



不锈钢C型警示边框(TJ004)
Stainless steel C-shaped warning frame (TJ004)

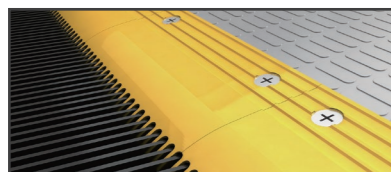


不锈钢E型警示边框(TJ005)
Stainless steel E-shaped warning frame (TJ005)



不锈钢无警示边框(TJ006)
Stainless steel without warning frame (TJ006)

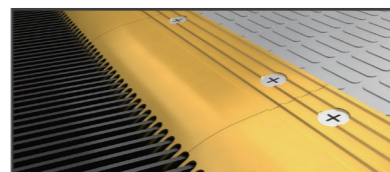
► 梳齿 Comb plate



聚碳酸酯(SC001)
Polycarbonate (SC001)

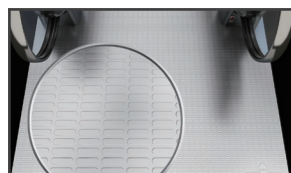


银灰铝合金(SC002)
Silver gray aluminum alloy (SC002)

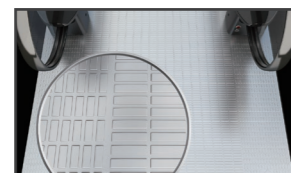


013 Fluorescence yellow aluminum alloy (SC003)

► 楼层板 Leading edge plate



不锈钢·椭圆(LCB001)
Stainless steel, ellipse (LCB001)



不锈钢·蚀刻花纹(LCB002)
Stainless steel, etched figures (LCB002)

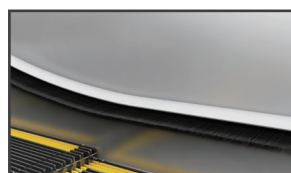


不锈钢·蚀刻花纹(LCB003)
Stainless steel, etched figures (LCB003)

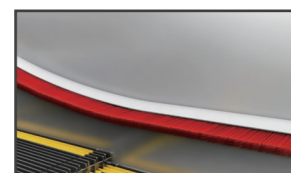


不锈钢·蚀刻花纹(LCB004)
Stainless steel, etched figures (LCB004)

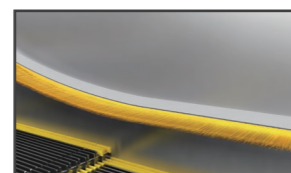
► 围裙板防夹装置 Anti-clamping device apron board



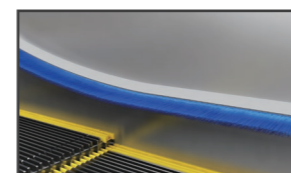
黑色防夹毛刷(WQB001)
Black anti-pinch brush (WQB001)



彩色防夹毛刷(WQB002)
Colour-light anti-pinch brush (WQB002)

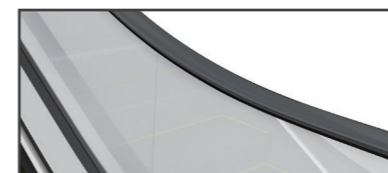


黄光防夹毛刷(WQB003)
Yellow-light anti-pinch brush (WQB003)



蓝光防夹毛刷(WQB004)
Blue-light anti-pinch brush (WQB004)

► 护栏 Guardrail



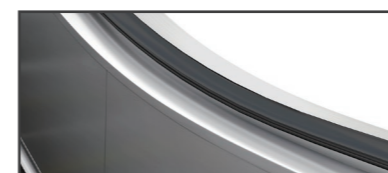
透明玻璃(HL001)
Transparent glass (HL001)



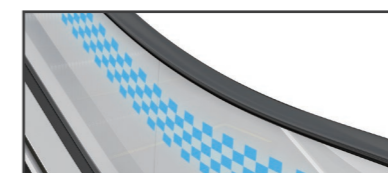
浅蓝玻璃(HL002)
Light blue glass (HL002)



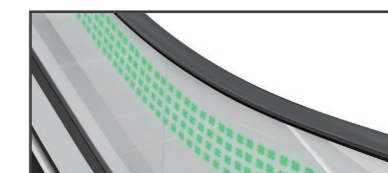
浅灰玻璃(HL003)
Light gray glass (HL003)



不锈钢(HL004)
Stainless steel (HL004)

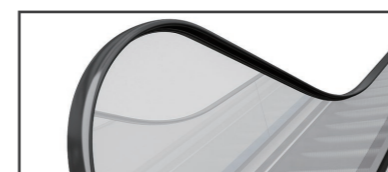


方块花纹玻璃(HL005)
Glass with patterned square figure (HL005)

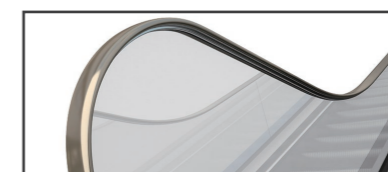


四叶草花纹玻璃(HL006)
Glass with patterned diamond figures (HL006)

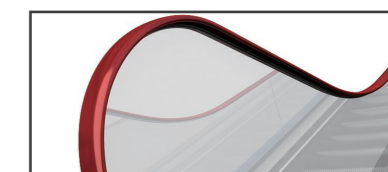
► 扶手带 Handrail



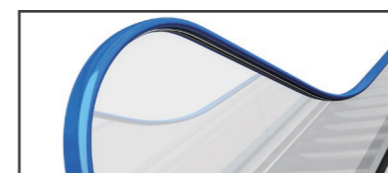
沉稳黑(FSD001)
Tranquil black (FSD001)



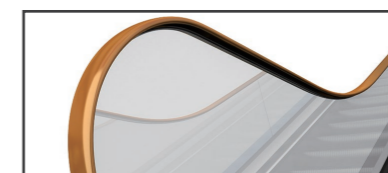
优雅褐(FSD002)
Charming brown (FSD002)



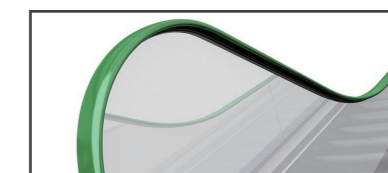
玫瑰红(FSD003)
Rose red (FSD003)



典雅蓝(FSD004)
Elegant blue (FSD004)

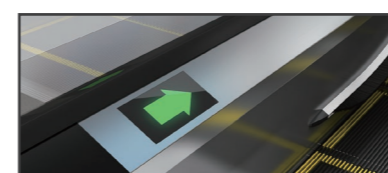


灵动橙(FSD055)
Smart orange (FSD055)



青草绿(FSD006)
Grass green (FSD006)

► 方向指示器 Direction indicator



嵌入式方向指示器(ZSQ001)
Embedded direction indicator (ZSQ001)



独立方向指示器(ZSQ002)
Independent direction indicator (ZSQ002)



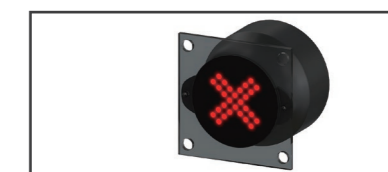
拱形方向指示器(ZSQ003)
Arch direction indicator (ZSQ003)



拱形方向指示器(ZSQ004)
Arch direction indicator (ZSQ004)



圆式方向指示器(ZSQ005)
Round direction indicator (ZSQ005)



圆式方向指示器(ZSQ006)
Round direction indicator (ZSQ006)

GRF II、GRR II 功能配置表

GRF II、GRR II Function Configuration Table

	项目	基本配置		可选配置	
	型号规格	GRF II	GRR II	GRF II	GRR II
主要配置	速度	单速0.5m/s	双速0.2~0.5m/s	双速0.2~0.5m/s 双速 0~0.5m/s	单速0.5m/s 双速 0~0.5m/s
	控制方式	微机 (Y-Δ)	变频 (VVVF)	变频 (VVVF)	微机 (Y-Δ)
	驱动主机	异步电机+涡轮蜗杆减速箱		异步电机+斜齿轮减速箱	
	护壁板	透明钢化玻璃		玻璃颜色/花纹玻璃/不锈钢	
	围裙板	发纹不锈钢		碳钢喷涂	
	盖板	发纹不锈钢		镜面不锈钢	
	扶手带	黑色		彩色	
	梯级	不锈钢梯级	铝合金踏板	铝合金梯级	不锈钢踏板
	梳齿	聚碳酸酯	铝合金	铝合金	聚碳酸酯
	楼层板	不锈钢		铝合金	
	润滑装置	自动润滑装置			
	梯级间隙照明	绿光			
	水平梯级数量	2个 (H≤6 m) 3个 (H>6 m)		3个 (H≤6 m)	
	标准功能	1.梯级/踏板链断裂保护		2.梯级/踏板下陷保护	
		3.扶手带出入口保护		4.梳齿板保护	
		5.梯级/踏板防跳保护		6.梯级/踏板黄色警戒保护	
7.电源欠相保护		8.电动机过载过流保护			
9.超速保护		10.非操作逆转保护			
11.紧急停止按钮及动力切断开关		12.围裙板防夹装置			
13.梯级/踏板缺失保护		14.扶手带测速监控			
15.抱闸检测		16.制停距离检测			
17.楼层板打开保护		18.静电保护			
19.主驱动断链保护					
注：第12项GRR II为选配；					
选配功能	1.附加制动器		2.围裙板保护		
	3.语音播报提示		4.远程监视		
	5.出入口LED照明		6.围裙板LED照明		
	7.彩色防夹毛刷、彩光防夹毛刷 (GRFII适用)		8.独立方向指示器		
	9.定制颜色梳齿		10.定制花纹楼层板		
	11.扶手LED照明		12.漫反射装置		
注：第1项提升高度 > 6m为标配。					

	Item	Basic configuration		Optional configuration	
	Model	GRF II	GRR II	GRF II	GRR II
Main configurations	Speed	Single speed 0.5m/s	Double speed 0.2~0.5m/s	Double speed 0.2~0.5m/s Double speed 0~0.5m/s	Single speed 0.5m/s Double speed 0~0.5m/s
	Control mode	Microcomputer (Y-Δ)	Variable frequency (VVVF)	Variable frequency (VVVF)	Microcomputer (Y-Δ)
	Mainframe	Asynchronous motor+ worm and gear reduction gearbox		Asynchronous motor+ bevel gear reduction box	
	Baseboard	Transparent tempered glass		Glass color/glass with patterned figures/stainless steel	
	Apron board	Hairline finished stainless steel		Painted carbon steel	
	Cover	Hairline finished stainless steel		Mirror stainless steel	
	Handrail	Black		Colorful	
	Escalator	Stainless steel rungs	Aluminum pedal	Aluminum alloy step	Stainless steel pedal
	Comb floor	Polycarbonate	Aluminum alloy	Aluminum alloy	Polycarbonate
	Upper/lower horizontal step	stainless steel		stainless steel	
	Lubrication unit	Automatic lubrication unit			
	Cascade clearance lighting	Green light			
	Floor board	2 (H≤6 m) 3 (H>6 m)		3 (H≤6 m)	
	Standard functions	1.Escalator step/footplate chain breakage protector		2.Escalator step/footplate sinking protector	
		3.Handrail exit/entrance protector		4.Comb plate protector	
		5.Escalator step/footplate anti-rebound protection		6.Yellow edges on the escalator step/footplate	
7.Power supply phase failure protector		8.Motor overload protector			
9.Overspeed protection		10.Nonoperational reversion protection			
11.Emergency stop button and power cut-off switch		12.Anti-clamping device apron board			
13.Escalator step/footplate absence protector		14.Handrail speed sensor			
15.Brake sticking detector		16.Stopping distance detector			
17.Floor slab opening protector		18.Electrostatic protector			
19.Main drive break chain protection					
Notes: Item 12 is the optional function for GRRII.					
Optional functions	1.Auxiliary safety brake		2.Anti-clamping device apron board		
	3.Voice broadcasting guide		4.Remote monitoring,		
	5.Remote monitoring, LED lighting of entrance/exit		6.LED lighting of skirt guard panel		
	7.Multicolored anti-pinch brush and lighting anti-pinch brush(Apples to GRFII elevator)		8.Independent direction indicator		
	9.Customized multicolored comb		10.Leading edge plate with customized figures		
	11.LED lighting of handrail		12.Diffuse emission		
Notes: Items 1 is the standard function for travel height more than 6m.					

GRF(W)功能配置表

GRF(W) Function Configuration Table

	项目	基本配置	可选配置	
主要配置	型号规格	GRF(W)	GRF(W)	
	速度	单速0.5m/s	双速0.2~0.5m/s,双速 0~0.5m/s	
	控制方式	微机 (Y-Δ)	变频 (VVVF)	
	驱动主机	异步电机+涡轮蜗杆减速机	异步电机+斜齿轮减速机	
	护壁板	透明钢化玻璃	玻璃颜色/花纹玻璃/不锈钢	
	围裙板	发纹不锈钢		
	盖板	发纹不锈钢	镜面不锈钢	
	扶手带	黑色	彩色	
	梯级	铝合金		
	梳齿	铝合金		
	楼层板	不锈钢	铝合金	
	润滑装置	自动润滑装置		
	梯级间隙照明	绿光		
	水平梯级数量	2个 (H≤6m) /3个 (H>6 m)	3个 (H≤6 m)	
	出入口照明	LED白光	其他颜色	
	标准功能	1. 梯级链断裂保护		2. 梯级下陷保护
3. 扶手带出入口保护			4. 梳齿板保护	
5. 梯级防跳保护			6. 梯级黄色警戒保护	
7. 电源欠相保护			8. 电动机过载过流保护	
9. 超速保护			10. 非操作逆转保护	
11. 紧急停止按钮及动力切断开关			12. 围裙板防夹装置	
13. 梯级缺失保护			14. 扶手带测速监控	
15. 抱闸检测			16. 制停距离检测	
17. 楼层板打开保护			18. 静电保护	
19. 主驱动断链保护			20. 液位安全检测装置	
选配功能	1. 附加制动器		2. 围裙板保护	
	3. 语音播报提示		4. 远程监控系统	
	5. 围裙板LED照明		6. 彩色防夹毛刷	
	7. 独立方向指示		8. 定制颜色梳齿	
	9. 定制楼层板花纹		10. 扶手LED照明	
	11. 漫反射装置		12. 油水分离器	
	13. 加热系统			
	注：第1项提升高度 > 6m为标配。			

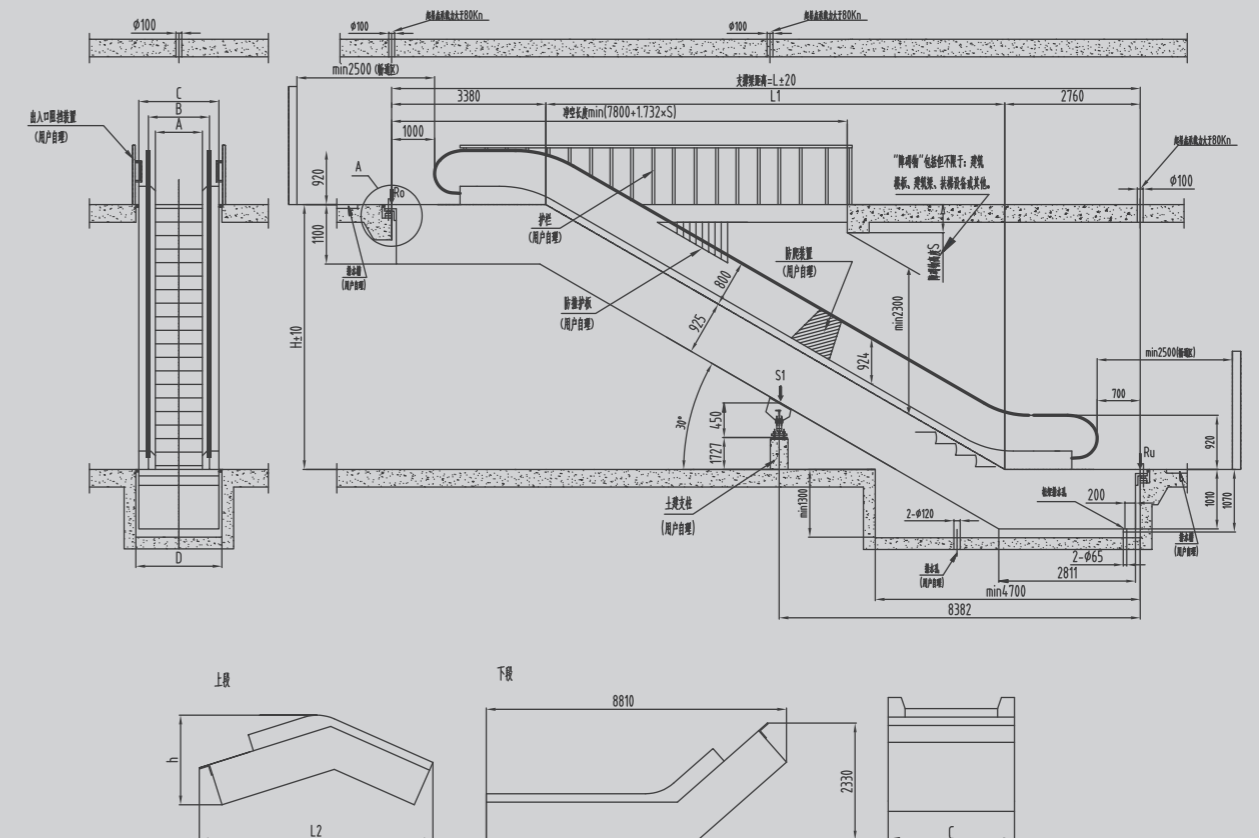
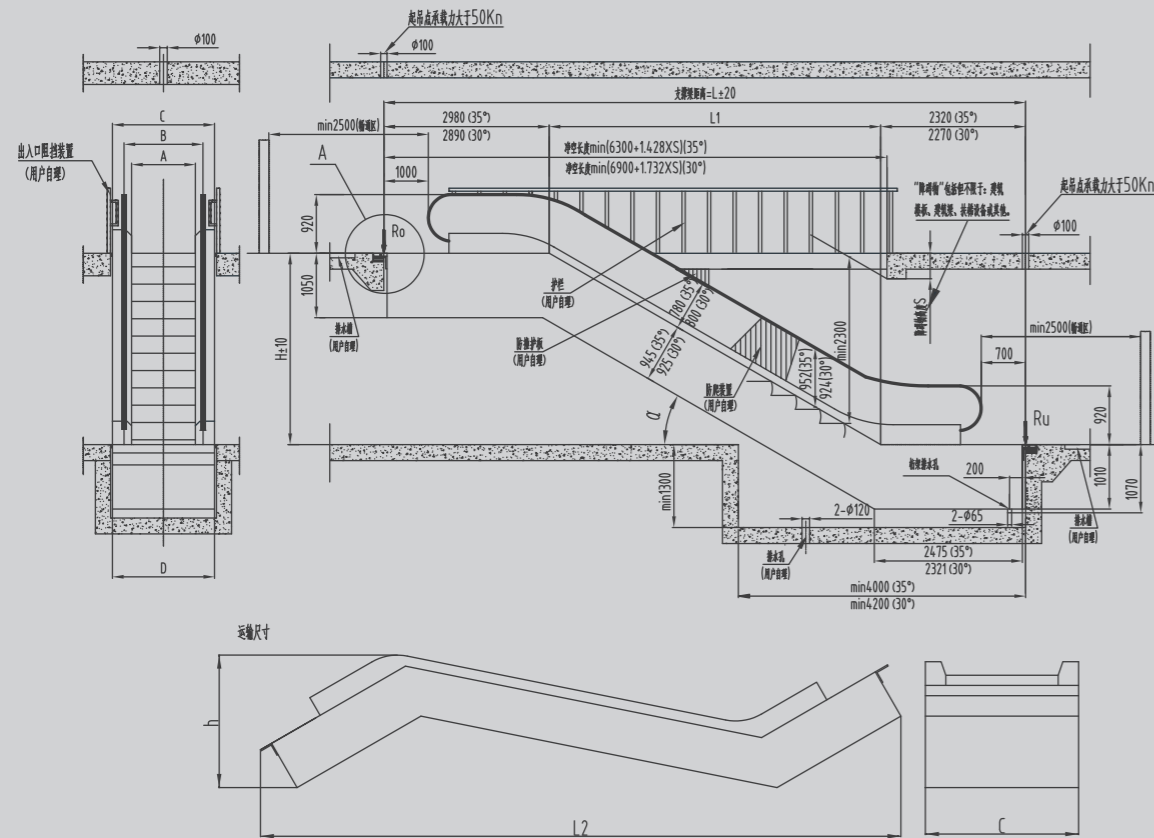
	Item	Bsaic configuration	Optional configuration	
Main configurations	Model	GRF(W)	GRF(W)	
	Speed	Single speed 0.5m/s	Double speed 0.2~0.5m/s, 0~0.5m/s	
	Control mode	Microcomputer(Y-Δ)	Variable frequency (VVVF)	
	Mainframe	Asynchronous motor+ worm and gear reduction gearbox	Asynchronous motor+ bevel gear reduction box	
	Baseboard	Transparent tempered glass	Glass color/glass with patterned figures/stainless steel	
	Apron board	Hairline finished stainless steel		
	Cover	Hairline finished stainless steel	Mirror stainless steel	
	Handrail	Black	colorful	
	Escalator	Aluminum alloy		
	Comb floor	Aluminum alloy		
	Floor board	stainless steel	Aluminum alloy	
	Lubrication unit	Automatic lubrication unit	Aluminum alloy comes with anti-skid pattern	
	Cascade clearance lighting	Green light		
	Number of horizontal steps	2(H≤6m) / 3(H>6 m)	3(H≤6m)	
	Entrance/exit	LED white light	Other color	
	Standard functions	1.Escalator step chain breakage protector		2.Escalator step sinking protector
3.Handrail exit/entrance protector		4.Comb plate protector		
5.Step anti-rebound protection		6.Yellow edges on the escalator steps		
7.Power supply phase failure protector		8.Motor overload protector		
9.Overspeed protection		10.Nonoperational reversion protection		
11.Emergency stop button and power cut-off switch		12.Anti-clamping device apron board		
13.Escalator step absence protector		14.Handrail speed sensor		
15.Brake sticking detector		16.Stopping distance detector		
17.Floor slab opening protector		18.Electrostatic protector		
19.Main drive break chain protection		20.Level safety testing device		
Optional functions	1.Auxiliary safety brake		2.Anti-clamping device apron board	
	3.Voice broadcasting guide		4.Remote monitoring	
	5.LED lighting of skirt guard panel		6.Multicolored anti-pinch brush and lighting anti-pinch brush	
	7.Independent direction indicator		8.Customized multicolored comb	
	9.Custom pattern board floor		10.Handrail LED lighting	
	11.Diffuse emission		12.Oil-water separator	
	13.Heating system			
	Notes: Items 1 is the standard function for travel height more than 6m.			

GRF(W)室外扶梯标准土建尺寸

GRF(W) outdoor escalator standard construction size

▶ 适用于楼层高度 $H \leq 6000\text{mm}$ Only suitable for a storey with a height of $H \leq 6000\text{mm}$

▶ 适用于楼层高度 $6000 < H \leq 8000\text{mm}$ Only suitable for a storey with a height of $6000 < H \leq 8000\text{mm}$



尺寸Size (mm)	$\alpha = 35^\circ$			$\alpha = 30^\circ$		
	梯级宽度 Cascade width (mm)					
	600	800	1000	600	800	1000
L1	1,428xH			1,732xH		
L	L1+5300			L1+5160		
A	600	800	1000	600	800	1000
B	837	1037	1237	837	1037	1237
C	1200	1400	1600	1200	1400	1600
D	1260	1460	1660	1260	1460	1660

倾斜角 Tilt Angle	梯级宽度 Cascade width (mm)	支反力 Reaction force (单位: KN)(H:mm)	
		Ro	Ru
$\alpha = 35^\circ$	600	$0,00462xH+30,9$	$0,00426xH+27,5$
	800	$0,00533xH+33,35$	$0,004985xH+30$
	1000	$0,0061xH+35,7$	$0,005667xH+32,6$
	600	$0,00549xH+34,9$	$0,00519xH+27$
$\alpha = 30^\circ$	800	$0,00647xH+38$	$0,00616xH+30,1$
	1000	$0,0074xH+40,05$	$0,00714xH+33,1$

倾斜角 Tilt Angle	提升高度 Hoisting height H (mm)	运输尺寸 Transport size (mm)	
		L2	h
$\alpha = 35^\circ$	2500	9607	2220
	3600	11475	2332
	4600	13186	2398
	5000	13872	2418
	6000	15593	2460
$\alpha = 30^\circ$	2500	10188	2132
	3600	12359	2224
	4600	14340	2277
	5000	15134	2293
6000	17121	2327	

尺寸Size (mm)	梯级宽度 Cascade width (mm)		
	600	800	1000
L1	1,732xH		
L	L1+6140		
A	600	800	1000
B	837	1037	1237
C	1200	1400	1600
D	1260	1460	1660
E	1180	1380	1580

梯级宽度 Cascade width (mm)	支反力 Reaction force (单位: KN)(L:mm)		
	Ro	Ru	S1
600	$0,00454(L-8382)+7,8$	34,1	$0,00313xL+26,1$
800	$0,00472(L-8382)+8$	39,6	$0,00339xL+28$
1000	$0,00508(L-8382)+8,8$	42,9	$0,00384xL+32$

提升高度 Hoisting height H (mm)	运输尺寸 Transport size (mm)	
	L2	h
6400	10057	2302
7000	11236	2352
7600	12419	2392
8000	13210	2415

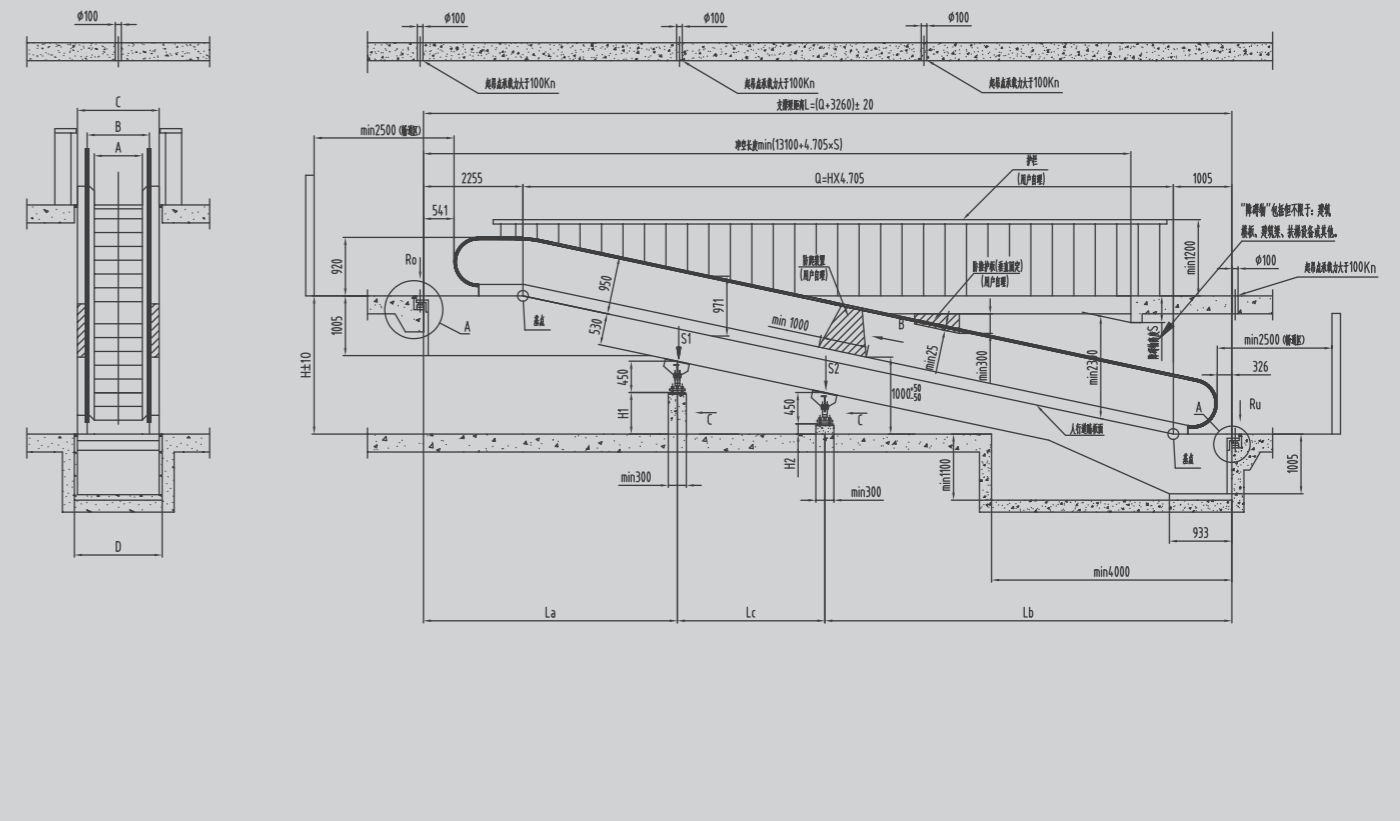
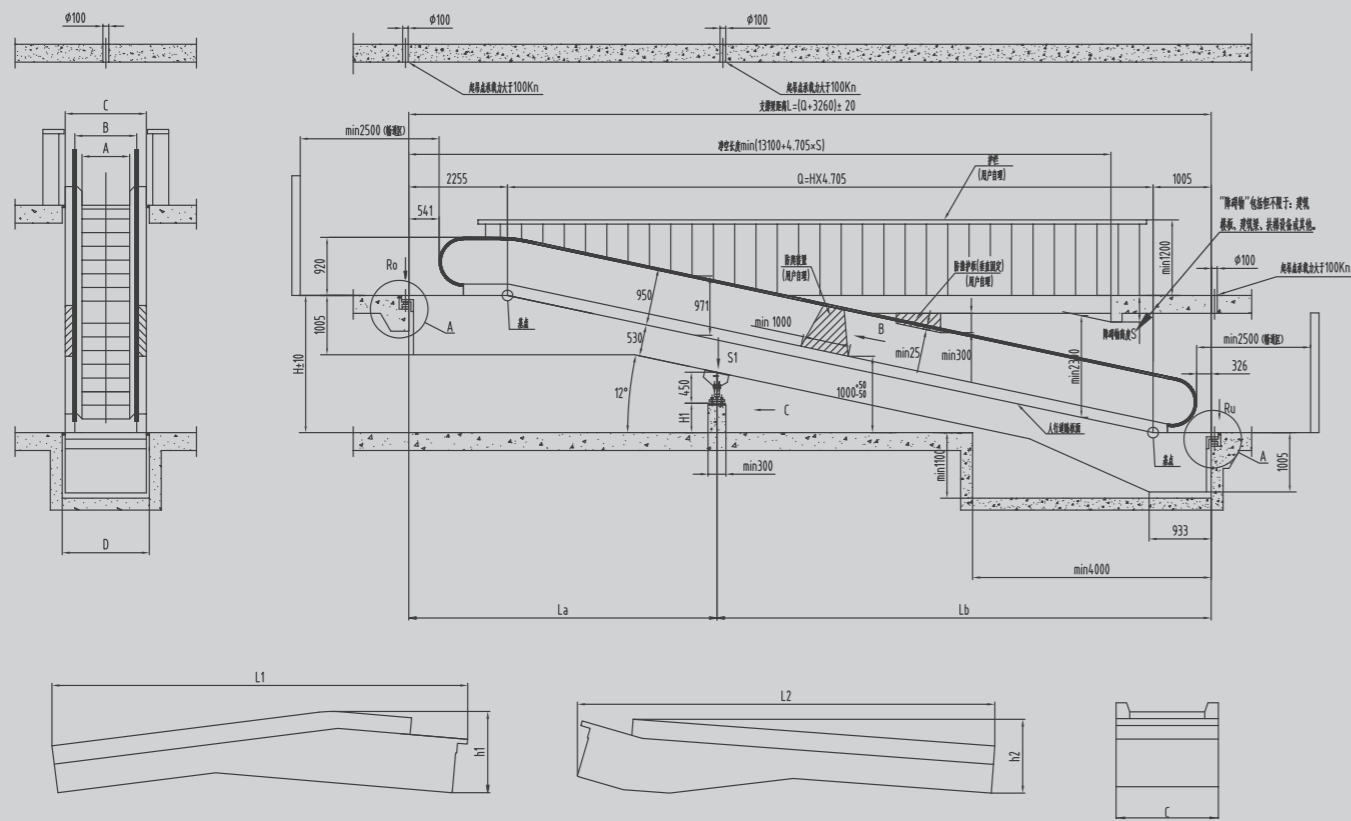
GRR II 自动人行道标准土建尺寸

GRR II moving walks standard construction size

▶ 适用于楼层高度 $H \leq 5600\text{mm}$

Only suitable for a storey with a height of $H \leq 5600\text{mm}$

▶ 适用于楼层高度 $5600 < H \leq 7300\text{mm}$ Only suitable for a storey with a height of $5600 < H \leq 7300\text{mm}$



尺寸 Size(mm)	梯级宽度 Cascade width (mm)	
	800	1000
A	800	1000
B	1037	1237
C	1400	1600
D	1460	1660
E	1380	1580

梯级宽度 Cascade width (mm)	支反力Reaction force (单位: KN)(F:KN)	
	800	1000
Ro	$0.00328 \times La + 20$	$0.00365 \times La + 22$
Ru	$0.00298 \times Lb + 12$	$0.00329 \times Lb + 13$
S1	$0.00456 \times L + 12$	$0.00514 \times L + 14$

提升高度 Hoisting height H (mm)	支反位置Middle support size (mm)		
	Lb	La	H1
2500	6559	189	438
2600 ≤ H < 2900	7733		688
2900 ≤ H < 3400	8907		937
3400 ≤ H < 3900	10081	L-Lb	1187
3900 ≤ H < 4400	11254		1436
4400 ≤ H < 4900	12428		1686
4900 ≤ H < 5400	13602		1901
5400 ≤ H < 5700	14617		

提升高度 Hoisting height H (mm)	运输尺寸Transport size (mm)			
	L1	h1	L2	h2
2500	9027	1577	6890	1586
2900	8552	1556	9299	1540
3300	10471	1630	9299	1540
3700	11193	1650	10501	1526
4100	11916	1668	11703	1516
4500	12638	1684	12904	1507
4900	13361	1694	14105	1501
5300	15283	1728	14105	1501
5600	15326	1730	15306	1495

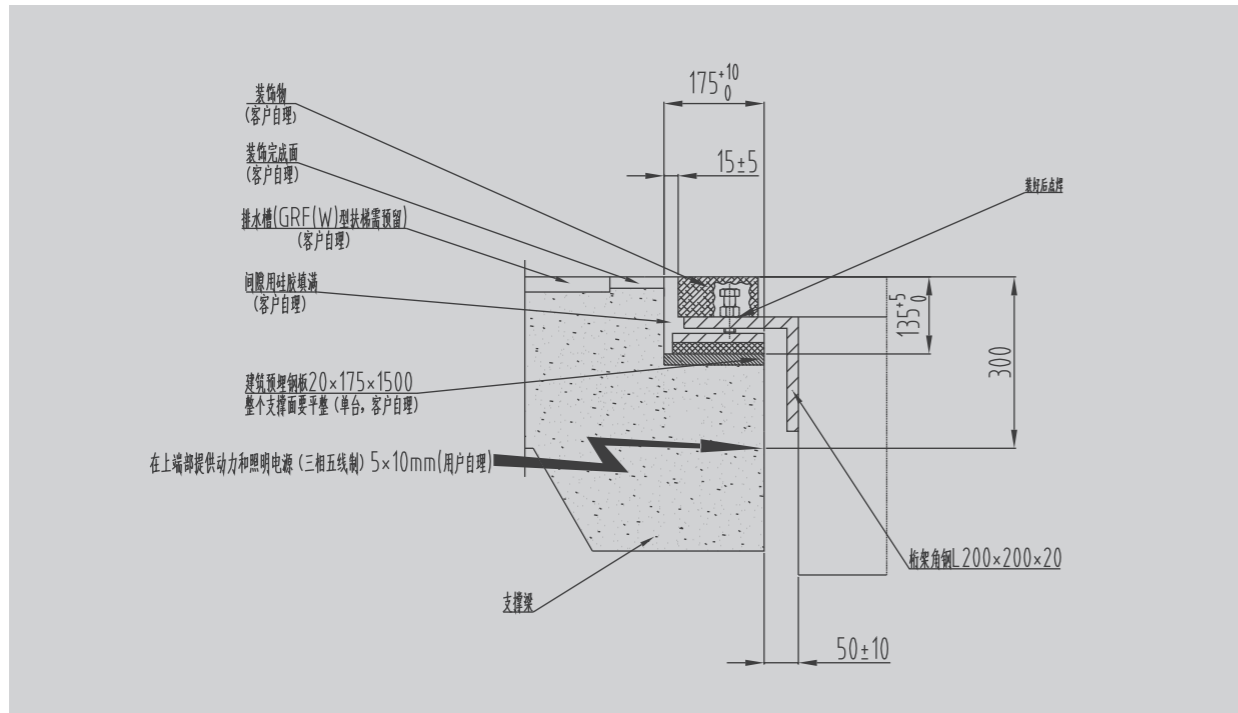
尺寸 Size(mm)	梯级宽度 Cascade width (mm)	
	800	1000
A	800	1000
B	1037	1237
C	1400	1600
D	1460	1660
E	1380	1580

梯级宽度 Cascade width (mm)	支反力Reaction force(单位: KN)(F:KN)			
	Ro	Ru	S1	S2
800	$0.002094 \times L + 11$	$0.002967 \times Lb + 12$	$0.005934 \times La + 23$	$0.002618 \times L + 6$
1000	$0.002443 \times L + 10$	$0.003491 \times Lb + 13$	$0.007156 \times La + 24$	$0.002967 \times L + 5$

梯级宽度 Cascade width(mm)	支反位置 Middle support size(mm)				
	La	Lb	Lc	H1	H2
5700 ≤ H ≤ 7300mm	中间支反位置根据土建现场要求, 运输尺寸请咨询广日电梯。				

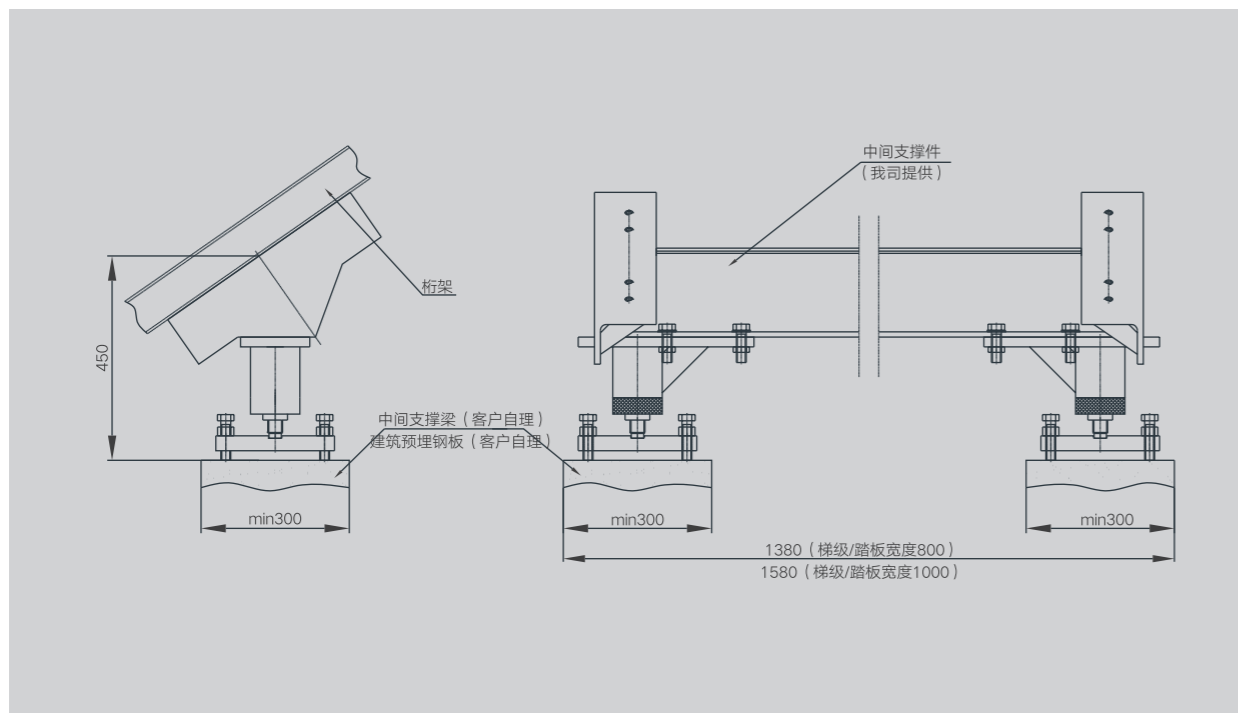
两端支撑梁局部详图 (A)

Detail Drawings for end support beams(A)



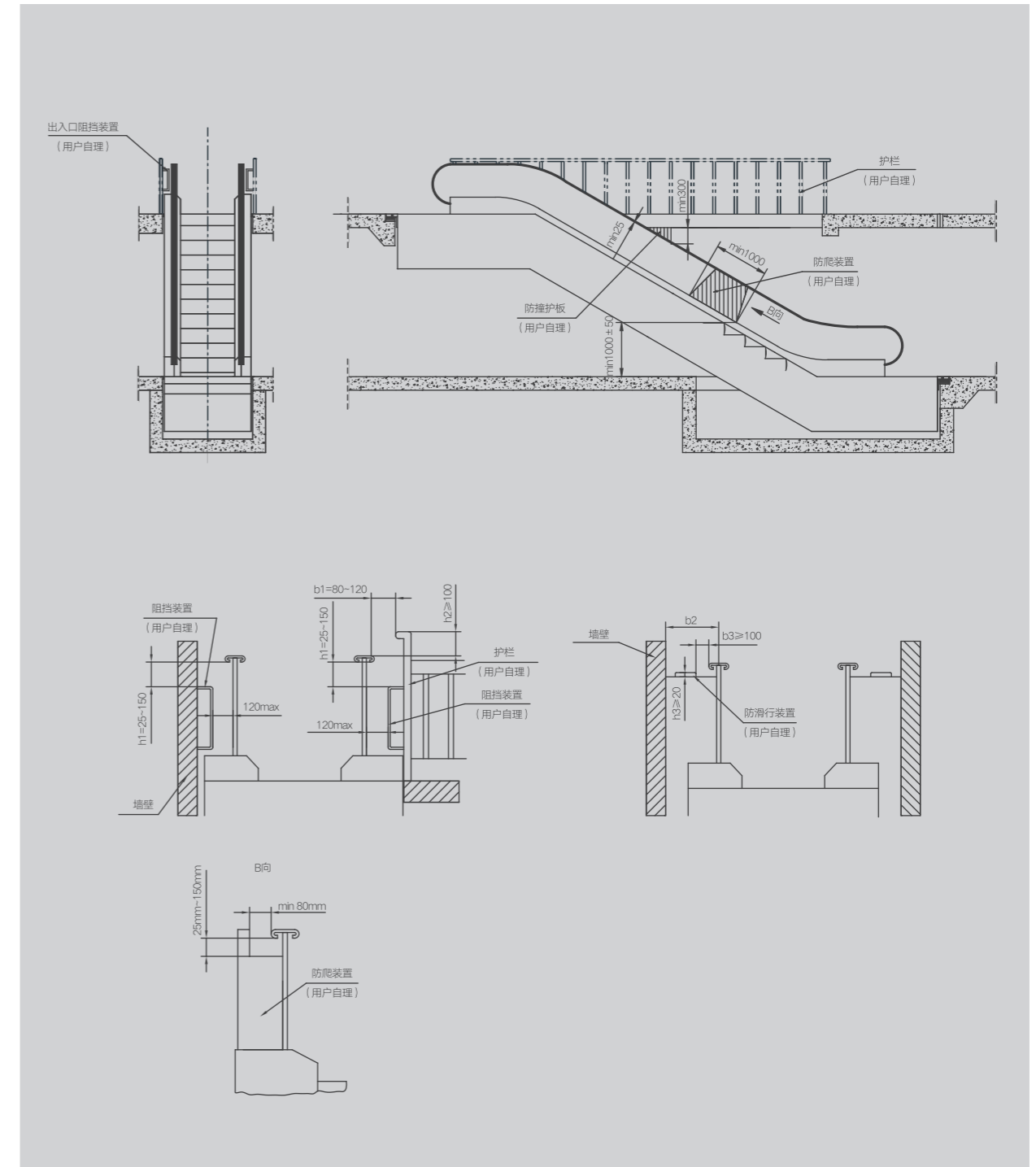
中间支撑局部详图 (C)

Detail Drawings for middle support piece(C)



客户自理防护装置

Customer attended protection devices



注: 当自动扶梯和相邻的墙之间装有接近扶手带高度的扶手盖板, 且建筑物(墙和扶手带)中心线之间的距离b2大于300mm时, 应在扶手盖板上装设防滑装置。装置间距不大于1.8m。

Note: Close to the height of handrail armrest cover plate is arranged between the escalator and adjacent to the wall, and buildings (wall) and the handrail with the distance between the center lines of B2 is greater than 300mm, should be installed in the armrest cover plate which fortification glide device spacing of not more than 1.8m.