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 三洋电梯(珠海)有限公司
SANYO ELEVATOR (ZHUHAI) CO., LTD.

自动扶梯及
自动人行道系列

Escalator & Travelator Series

2015-04版

交流·悦动

Communication makes
pleasant interaction

专业精工，悦动之旅

Profession makes taking delectation

三洋电梯(珠海)有限公司——全面升降机制造者，秉承人性化、专业化、艺术化的设计理念，以全球领先品质缔造完美城市空间，在商场、超市、地铁、机场，为地标建筑增添一道亮丽的流动风景线。

Sanyo Elevator (Zhuhai) Co., Ltd — A comprehensive manufacturer of escalators who bases on personalized , professional artistic design concepts, and world -leading quality, for creation of perfect urban spaces such as shopping malls, supermarkets, subways, airports, and address a beautiful eye-catching landscape to landmark architectures.

核心安全技术

Core Safety Technology

三洋电梯(珠海)有限公司一直致力于电梯核心技术的研发。为全球提供专业、高效、创新的产品,专注自动扶梯及自动人行道产品的每一个细节,保证扶梯产品安全、舒适的运行。

Sanyo Elevator(Zhuhai) Limited Company is dedicated to research and development of core escalator technologies,so as to provide the world with professional,efficient,innocated products;we extend our attentions on each detail of escalator & travelator series products,so as to ensure safe and comfortable running of escalator products.

三洋电梯(珠海)有限公司
SANYO ELEVATOR (ZHUHAI) CO., LTD.



急停按钮和故障显示

Emergency Stop Button and Failure Display

位于上下平层紧挨扶手入口的围裙板上,扶梯在紧急情况下可以通过按下红色急停按钮实现扶梯停梯,保护乘客安全。当出现故障时显示故障代码。

Located in adjacency to handrail entrances at the apron plates on the lower and upper flat floors, red emergency stop buttons can be pressed to realize stopping escalators under emergencies and to protect passenger safety. When failure occurs, failure codes will be displayed.

工作制动器 Working Brakes

集成在驱动主机中,位于电机和减速箱之间,通过电磁铁动作,实现扶梯安全制动。

Integrated between motor and deceleration gear box in the main drive machine, safe breaking of escalators are realized through movements of electromagnets.

热保护装置 Heat Protection Devices

当主机温度超过设定温度时,扶梯将因主机过热而被保护停梯。

When the main machine overheats, escalators will be stopped for protection due to excessive heat in main machine.

围裙板防夹条 Apron Plate Nip-proof Bars

位于围裙板两侧,可以有效防止乘客衣物被夹入围裙板和梯级侧隙中,以保护乘客安全。

Mounted at both sides of apron plates, such bars effectively prevent passenger clothes/belongings from being nipped into the lateral gaps between apron plates and escalator steps, and protect passenger safety.

梳齿安全装置 Comb Teeth Safety Devices

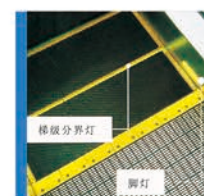
梳齿板前端安装在弹簧上。如果有异物夹在运动的梯级和静止的梳齿板之间,梳齿板会向垂直或后退方向动作,触发监控梳齿板两侧的安全开关,自动扶梯就会自动停止。

Front ends of comb teeth plates are installed on springs. If any foreign substance is nipped between moving escalator steps and static comb teeth plates; such plates will move in vertical or backward directions, and trigger the safety switches monitoring at both sides of the plates, and the escalators will be automatically stopped.

前沿板打开监测 Monitoring on Opening of Front Plates

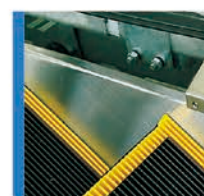
扶梯正常运行时,前沿板不允许被打开。在扶梯的上下机房前沿的下方安装了监测开关。若前沿板被打开或没有被完全复位盖好,则扶梯不可能正常启动。

Front plates are not allowed to be opened during normal escalator running. Monitoring switches are installed under the front plates of the lower and upper escalator machine rooms. If front plates are opened or improperly resumed or covered; then it becomes impossible to normally start up the escalators.



防滑梯级带有醒目的黄色警戒线,配有梯级分界灯,引导乘客站在梯级安全区域。

Skid-proof steps are painted with readily visible yellow warning lines, and mounted with step dividing lamps, so as to guide passengers to stand in the safe areas on steps.



经压边的围裙板与斜盖板间距离不大于3mm,两侧围裙板平面光滑,消除勾绊的危险。

The gaps between the edge-pressed apron plates and the inclined covering plates are not more than 3mm, and surfaces of the apron plates at both sides are flat and smooth; therefore dangers of hooking or stumbling passengers are eliminated.



新颖的楔形扶手入口盒装置,能有效防止异物进入传动区域。

Novel wedge handrail entrance box devices effectively prevent foreign substance from entering into drive transmission areas.



扶手运行全电脑监控,当扶手带速度异常时,扶手停止运行。

Running of handrail is fully computer-monitored; when handrail belt runs at an unusual speed, handrail will stop running.



扶手护带与支架间的缝隙小于2mm,有效防止夹手。

The gaps between handrail belts and supporting frames are less than 2mm, which may effectively prevent hands from being nipped.

安全接地保护 Safe Grounding Protection

扶梯上的所有电气元件都被安全接地,通过扶梯架直接与大地相连。

All of the electric elements in the escalators are safely grounded; and such grounding is connected with the ground through escalator frames.

防非操纵性超速或逆转装置

Non-operation Speeding or Reversing Preventative Devices

主机抱闸上安装有监测主机转速的传感器,当扶梯发生逆转时,传感器会监测到相应的内信号,将此信号传送给主控制板,扶梯主机安全制动。

Main machine enclosed casings are mounted with sensors to monitor the rotation speeds of main machine. When escalators reverse rotations; such sensors will detect corresponding internal signal, send these signals to main control panel, and main machine will be braked safely.

梯级塌陷或滚轮破损安全保护装置

Step Indentation or Idler Wheel Damage Safe Protection Devices

该装置位于紧挨上下平层的倾斜段。如果有梯级塌陷或者梯级链断裂,安全开关就会动作,扶梯停止,扶梯再运行时,需要手动复位。

Such devices are installed in the inclined sections adjacent to the lower and upper flat floors. If steps indent or step chains break, safety switches will be activated to stop escalators; while manual resetting is required for further running of escalators.

扶手入口保护 Handrail Entrance Protection

扶手入口安全装置安装在上下平层扶手入口盒中,如果有异物卡在橡胶头与扶手带之间,其橡胶入口后面的安全开关就会动作,使扶梯制停。

Handrail entrance safety devices are installed inside the handrail entrance boxes on the lower and upper floors. If any foreign substance is stuck between rubber heads and handrail belts; the safety switches behind such rubber entrances will be activated to stop escalators.

梯级传送链松、断保护装置

Step Conveyance Chain Loosening, Breakage Protective Devices

安全开关安装在平层张紧架两侧,如梯级链条断裂或异常伸长安全开关就会动作,扶梯制停。

Safety switches are mounted at both sides of the tensioning frame on the lower flat floor. If step chains break or are unusually loosened; then safety switches will be activated to stop escalators.

专业配置 Professional Configurations

三洋电梯（珠海）有限公司自动扶梯及自动人行道结构紧凑、简约、流畅而气派，配置更加精细，是新一代扶梯的典型代表。高强度方钢管桁架具有良好的承载能力，安全耐用。立式主机自动润滑系统保证扶梯长期安全正常运行。侧板、踏板、内外盖板、梯级均为不锈钢材料，更坚固耐用。新颖的扶手带设计，为用户提供丰富选择。

SYO9000 automatic escalators are compact, simple, smooth, and elegant in structures, and finely configured; they are typical representatives of the latest generation of escalators. High-strength square steel tube truss frames are powerful in carrying capacity, safe and durable. A vertical main machine automatic lubrication system ensures long-term, safe and normal running of escalators. Side plates, stepping plates, internal and external covering plates, and steps are all made of stainless steel, rigid and durable. Novel handle belt designs provide users with rich choices.



电脑自动加油机
 Computer-controlled automatic lubricator

适时适量地为链条传动系统提供润滑，使之保持良好的运动状态，减少摩擦。

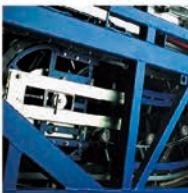
Chain drive transmission systems are lubricated at an appropriate time and with an appropriate amount for maintaining good movement conditions and reducing frictions.



梯级双导向设计
 Double Step-Guiding Design

使梯级运行稳定，有效防止偏向与裙板摩擦。

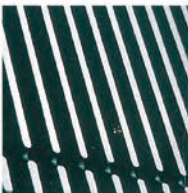
Step running is stabilized and effectively prevented of the deviation in running directions and the friction with apron plates.



主体桁架
 Main Structure Truss Frames

采用抗扭曲性更高的矩形管结构，使强度更高，具有更大承载能力。

Rectangular tube structures with higher resistance to twisted distortions are applied to increase both the strength and the carrying capacity.



不锈钢梳齿
 Stainless Steel Comb Teeth

能有效防止异物进入传动系统。

Effectively prevent foreign substance from entering into the drive transmission systems.



扶手带
 Handrail Belts

多款美观时尚，经久耐用的扶手带可供选择。

Multi-type beautiful, fashionable and durable handrail belts are available to choose from.



入口踏板
 Entrance Stepping Plates

美观大方的不锈钢踏板，防滑性好，更耐磨耐用。

Beautiful and generous stainless steel stepping plates are good in skid-proof performances and more durable.



不锈钢梯级
 Stainless Steel Steps

不锈钢梯级静载刚度高于铝合金梯级，承载能力更强，更耐用。

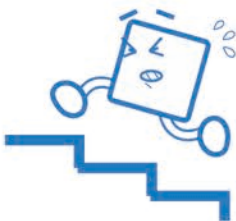
Compared with alumina alloy steps, stainless steel steps are higher in static load rigidity, more powerful in carrying capacity, and more durable.



梯级链及滑轮
 Step Chains and Pulleys

品质稳定，使用寿命长，保证扶梯运行平稳。

Stable quality ensures long working life, smooth and steady running of escalators.



标准状态运行

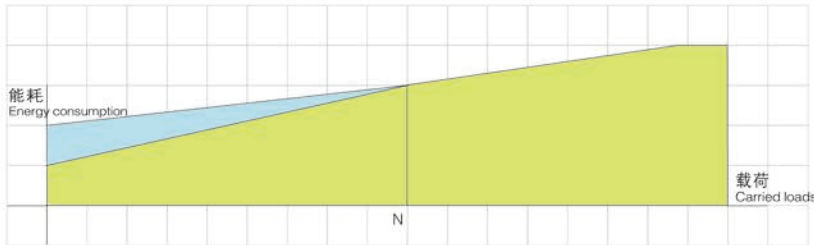


智能状态运行



变频状态运行

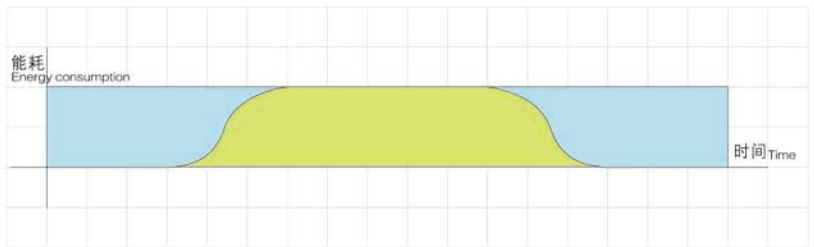
节约能源
 Save energy



标准运行模式 Standard Operation Modes

扶梯以星形连接方式启动，在未达到设定人数负载时驱动主机以星形联系方式运行，在此模式下可以最大限度地提高主机运行的效率；达到设定的负载时，控制系统自动监测并切换到三角形的连接方式运行，在此模式下可以保证足够的输出功率保证系统的稳定运行。

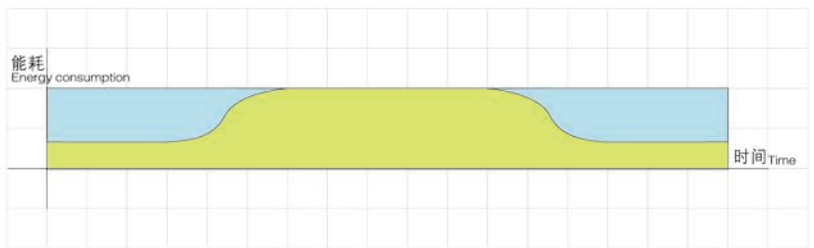
Escalators are started up in star connection. If not loaded up to set loads of passengers, the main driving machine runs in star connection; under this mode, the running efficiency of main machine is maximized. When loaded up to set loads, the control system automatically monitors and switches to running in triangle connection; under this mode, sufficient output power ensures stable system running.



智能运行模式（选配） Intermittent Running Mode (Optional)

扶梯启动之后，在设定的时间没有负载运行的情况下，扶梯扶梯运行一段时间自动停梯，当监测到乘客时扶梯自动启动运行。

Once started up but unloaded within set time, escalators will run for a while and stop automatically; when monitored of passengers, escalators will be automatically started up and run.



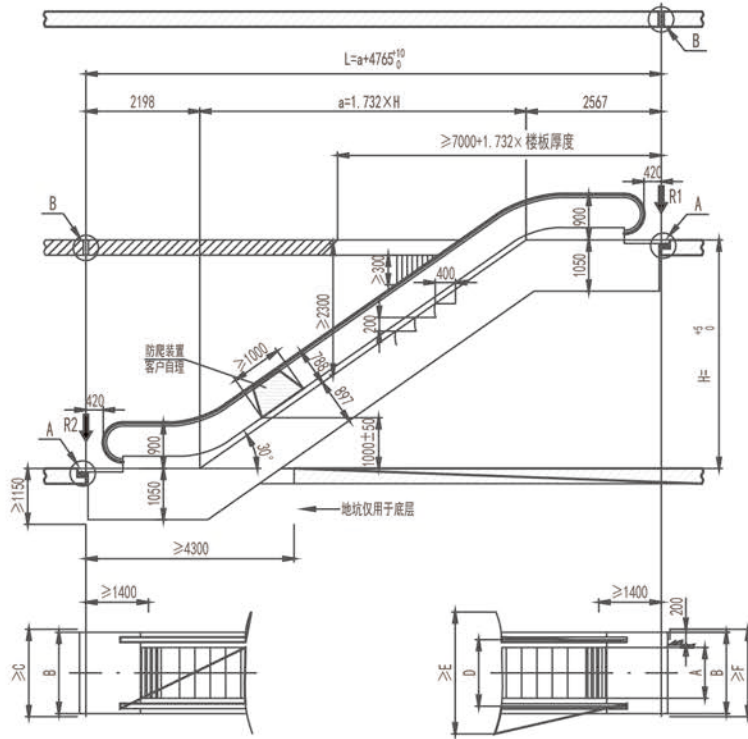
变频运行模式（选配） Frequency Conversion Running Mode (Optional)

扶梯以变频方式稳定启动，在设定的时间没有负载运行的情况下自动降为低速运行；当监测到乘客时扶梯自动加速到额定的速度运行，乘客离开一定的时间后自动降低至低速运行。

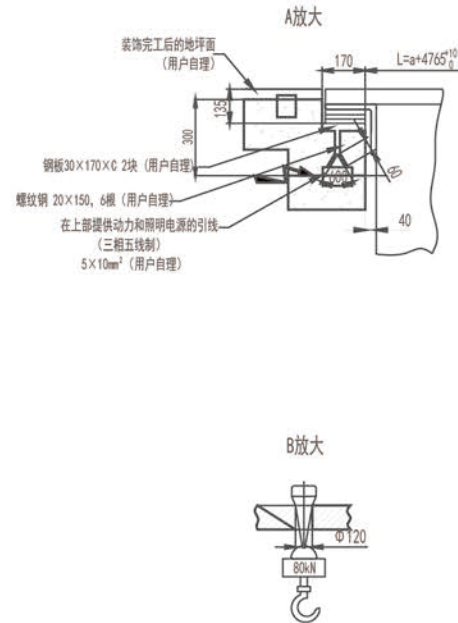
Escalators are stably started up through frequency conversion. If not loaded within set time, escalators automatically run at a low speed; when monitored of passengers, escalators will be accelerated up to rated running speed; and they automatically run at a low speed in certain duration after passengers leave.

SANYO30-K自动扶梯土建图（室内单列）

SANYO30-K Single arrangement escalator construction sketch (indoor)



K=2 水平梯级



下列工程由用户自理，敬请合作：

- 1、在自动扶梯出入口应有充分畅通的区域以容纳乘客，该畅通区的宽度至少等于扶梯带中心线之间的距离，其纵深尺寸至少为2.5m。如果该区宽度增至扶手带中心距的两倍以上，则其纵深尺寸允许减少至2m。
- 2、自动扶梯与楼板交叉处以及各交叉布置的自动扶梯之间，应在外盖板上方设置一个无锐利边缘的垂直防碰挡板，其高度不应小于0.3m（扶手带中心线以任何障碍物之间的距离不小于0.5m的除外）。
- 3、用户应为自动扶梯及其周边提供足够和适当的照明。在出入口，包括梳齿板处的照明度和该区域所要求的照明度相一致。室内或室外自动扶梯的出入口的光照度分别至少为50LX或15LX。
- 4、扶梯周围地板、天花板的加工工程。
- 5、若扶梯装在底层，地坑应是防潮的；如有必要，则采取防火结构。
- 6、主动力电缆（就近）接空气开关。

*当此处有梁或其它障碍物时，也必须保证踏板上方正高度不得小于2300mm。

标准规格及尺寸

梯级宽度	A	600	800	1000
装饰宽度	B	1140	1340	1540
土建开口宽度	C	1200	1400	1600
扶手间距	D	838	1038	1238
土建开口宽度	E	1838	2038	2238
土建开口宽度	F	1200	1400	1600

说明

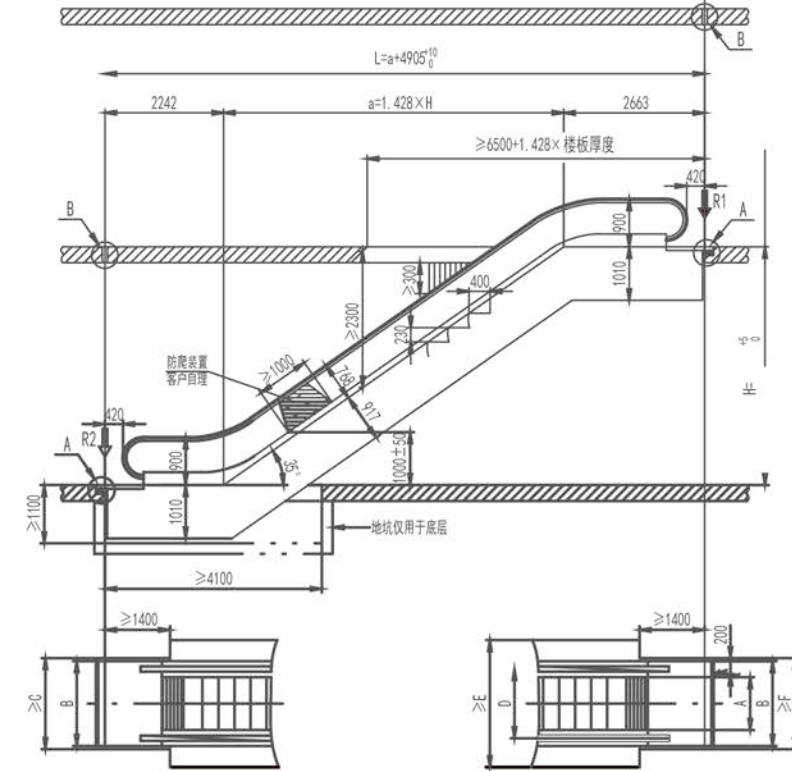
1. 本图适用于6M及以下单台安装扶梯的土建施工之用。
2. 选用梯级宽度600mm，桁架上部必须延长417mm。
3. 销售部门应将本图一式4份提供用户，其中2份经用户盖章，签字后返回技术科。
4. 尺寸单位为mm，个别尺寸可能有更改，如有更改，恕不另行通知。

规格	
型号	SANYO30-60K SANYO30-80K SANYO30-100K
运行速度	0.5M/秒
提升高度	H = mm
倾斜角	30°
支承力R1	kN
支承力R2	kN
重量W	kN
电源	动力 三相交流电380V 50HZ 照明 单相交流电220V 50HZ

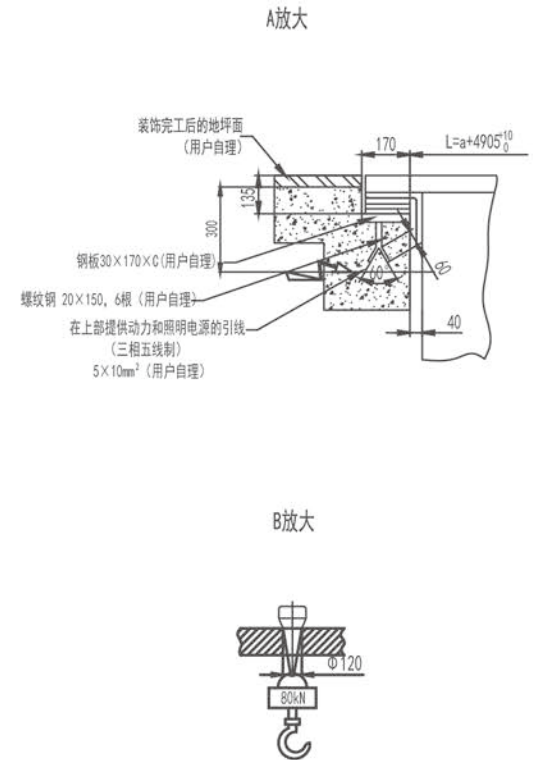
注：提升高度超过6米的扶梯，参数由厂家重新设计。
Note: When the escalator travel height is over 6 meters (not including 6m), the installation is 30° only and its parameters should be re-designed by the factory.

SANYO35-K自动扶梯土建图（室内单列）

SANYO35-K Single arrangement escalator construction sketch (indoor)



K=2 horizontal steps



1. At the exit and entrance of the Escalator, it should have enough area to accommodate the passenger, the wide of this area is equal to the distance of the axis of the handrail. The depth should no less than 2.5m. If the width of the area is two times of handrail's center to center distance, its deep size could be allowed to reduce to 2m.
 2. A vertical hood without any sharply edge should be placed on the top of the exterior deck at the junction of the Escalator and slab. And the height is no less than 0.3m (Except the distance no less than 0.5m between the axis of the handrail and any of blocking devices.).
 3. The users should provide suitable lighting for the Escalator around. At the exit and the entrance of the Escalator, include the lighting of the comb plate should accordance with the lighting required in this area. The lighting at the exit and entrance
 4. The plate around the Escalator, the finish of the ceiling.
 5. If the Escalator placed at the basement, the pit should against dampness. If necessary, should use the materials against fire.
 6. The cable of the main power (approach) against leakage current switch (DZ100) and the fuse (RL60).
 7. The distance between the two Escalators should no less than 10mm.
- * If this place has girder or the other obstacles, the clear distance on the top of the tread must undertake no less than 2300.

标准规格及尺寸

型号		SANYO-60K	SANYO-80K	SANYO-100K
梯级宽度	A	600	800	1000
装饰宽度	B	1140	1340	1540
土建开口宽度	C	1200	1400	1600
扶手间距	D	838	1038	1238
土建开口宽度	E	1838	2038	2238
土建开口宽度	F	1200	1400	1600

说明

1. 本图适用于6M及以下单台安装扶梯的土建施工之用。
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规格	
型号	SANYO35-60K SANYO35-80K SANYO35-100K
运行速度	0.5M/秒
提升高度	H = mm
倾斜角	35°
支承力R1	kN
支承力R2	kN
重量W	kN
电源	动力 三相交流电380V 50HZ 照明 单相交流电220V 50HZ

