

公交型扶梯 PUBLIC ELEVATOR  
**XO-TOF**

XIOLIFT  
西奥电梯

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版本号: 2021.04A版  
印刷号:

## XO-TOF系列 公交型扶梯

Public escalator

XO-TOF系列公交型扶梯在应对不同市场需求中提供了满足各类型高强度的使用需求，极大程度上为客户创造更高附加值。全系采用高强度矩形方管桁架，无论是从安全、美学设计均提供最完美的解决方案，全面适应火车站、机场、地铁等高人流强度的公共交通型场所。

The XO - TOF series bus type escalators provided in response to different market demand to meet the use demand that all kinds of high strength, to create higher added value for clients on the great degree. Whole system USES the high strength rectangular pipe truss, both in terms of safety, aesthetic design, provide the most perfect solution, fully adapt to the railway station, airport, subway contour flow intensity type of public transport.



扫一扫，查看电子样本

# 高强度 方管桁架

High-intensity truss made  
of cube pipe



采用方管桁架，相比普通角钢桁架，在相同挠度条件下，方管支持更高载荷需求、横向稳定性和破断力性能

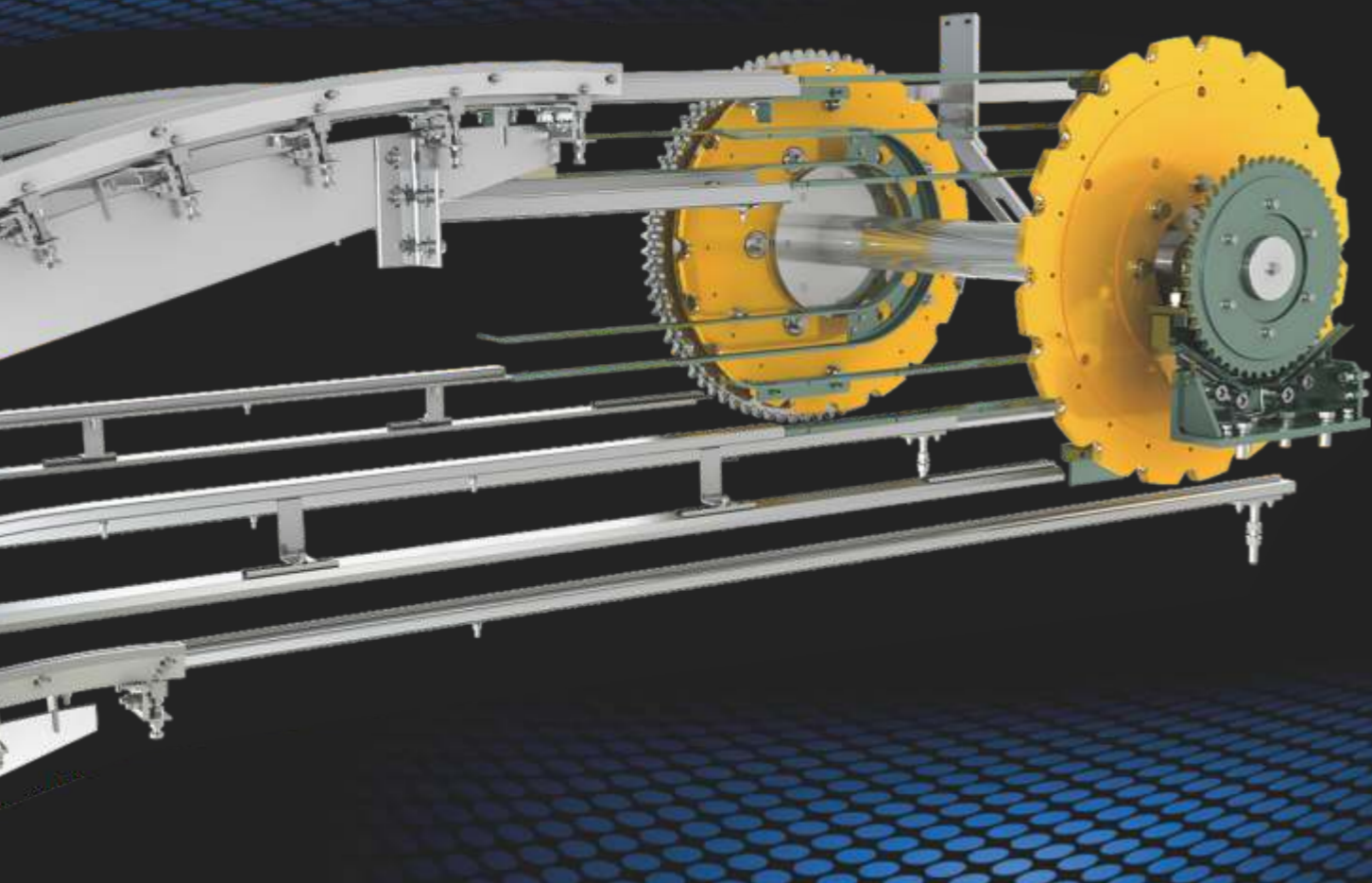
Truss made of cube pipe is used. Under the same deflection condition, the cube pipe can support high-load requirements, horizontal stability and breaking performance



可根据客户需求提供不同的挠度桁架，满足各类场所的载荷强度需求  
Provide different deflection truss according as per the customer requirement,  
and meet the load intensity demands at various places



整梯桁架经过精密计算设计，并采用全密封设计，最大程度提高桁架抗腐蚀性和坚固性  
The truss of the whole escalator is calculated and designed precisely, with fully sealed design, which can improve the anti-corrosion and solidity of the truss at maximum



## 卸载式 导轨设计

Unloading guide  
rail design



采用大曲率半径设计  
提高乘坐舒适感并降低导轨载荷受力  
Use the design of big-size curvature radius,  
and improve the riding comfort and reduce  
the load endurance of the guide rail



根据不同需求  
增设卸载导轨  
进一步降低导轨受力，提高扶梯安全性  
According to different needs  
add unloading guide rail, and further reduce  
the force applied on the guide rail, and improve  
the safety of the escalator

## 滚轮外置式 设计

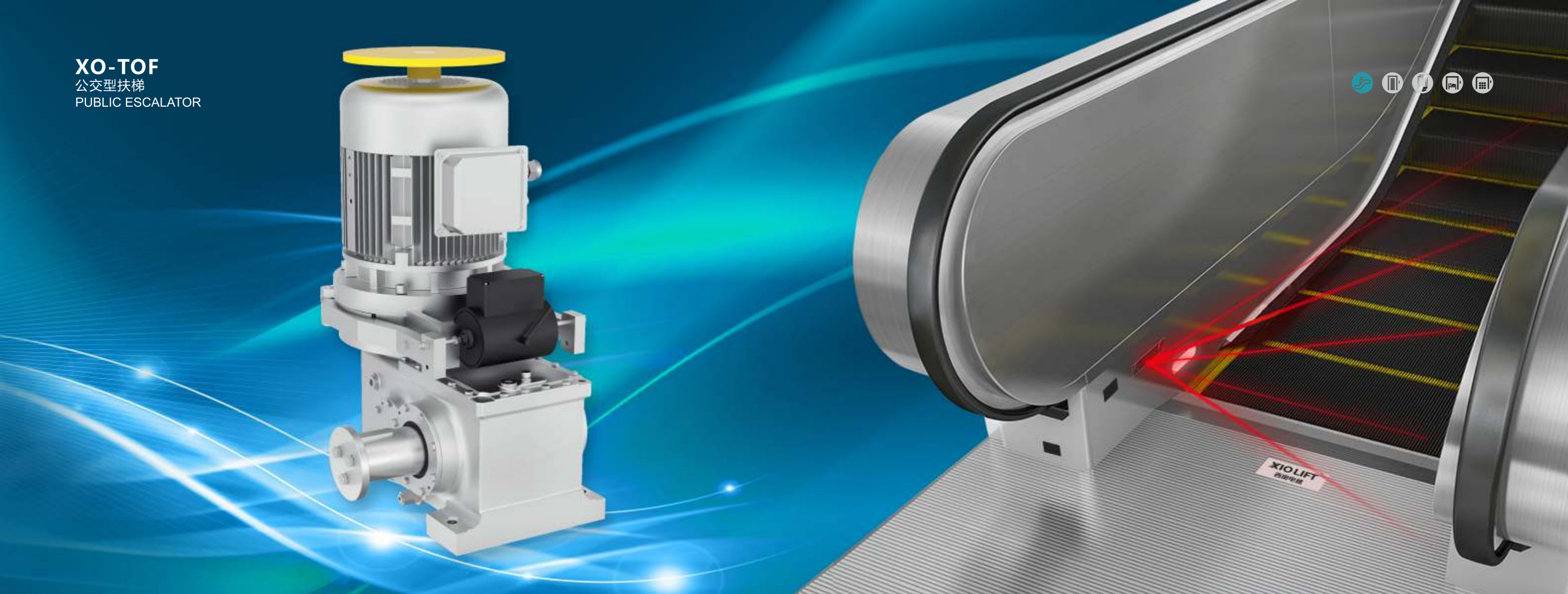
Design of roller set outside



根据不同使用场所,可提供滚轮外置型扶梯  
According to different places of use provide the escalator with roller set outside



无需拆卸链条即可更换梯级滚轮，提高维保便利性和成本  
Replace the step roller without removing the chain, and improve  
the convenience of maintenance, and save the costs



## 双斜齿轮主机

### 配置

Configuration of double hosts



根据使用环境，客流负载，可提供双驱动主机配置。

According to the use of the environment, passenger load, can provide dual-drive host configuration.



双边驱动使扶梯两边受力均匀提高乘坐舒适感；双边制动器和双附加制动器可提供4重安全保护。

Double-side drive make two sides of escalator bear even force, and improve the riding comfort; Double-side brake and double additional brakes can provide 4 levels of safety protection



斜齿轮主机，结构紧凑，能效更高，传动更平稳，寿命更长久。

Helical gear host, structure compact, more efficient, stable transmission and longer life

## 人员 出入检测

Test of the  
person access



提供多类型光眼检测是否有人员进入扶梯  
Provide various photo eyes to check if there is any person entering into the escalator not



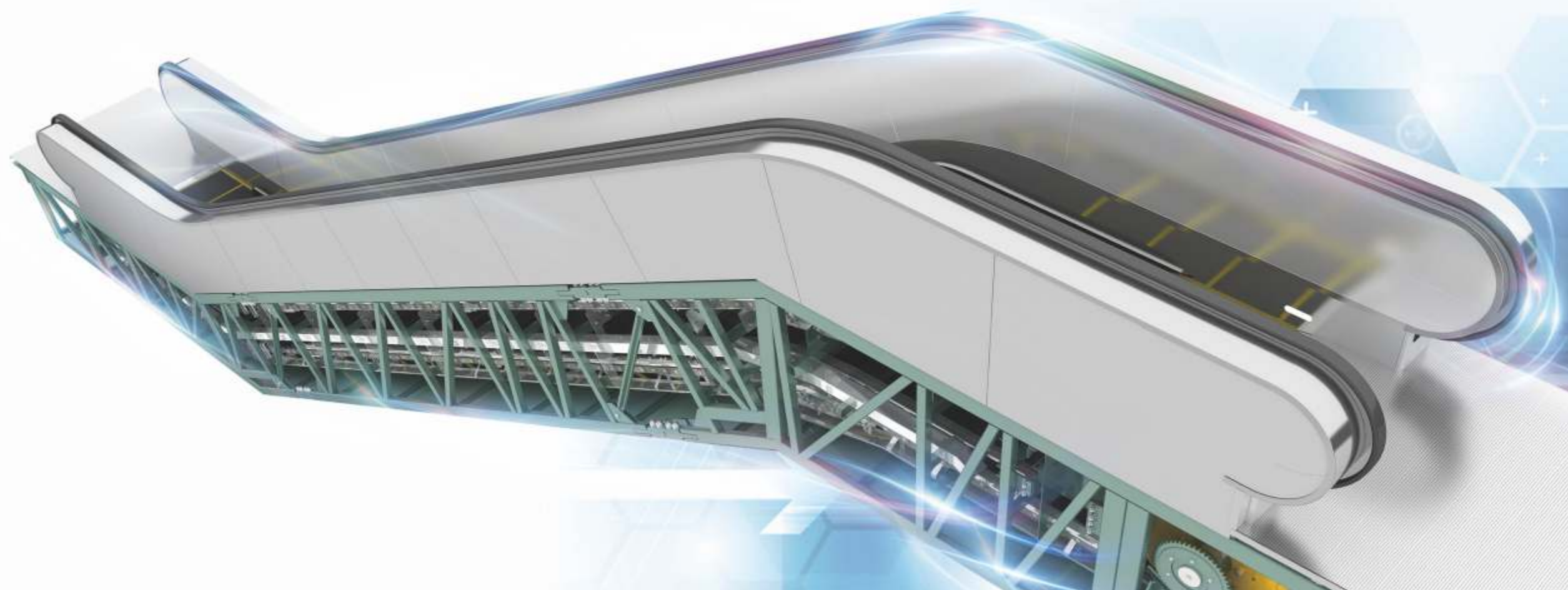
并可提供二次检测，防止人员穿过检测空间时造成扶梯误启动的情况  
Provide secondary test, and prevent from causing wrong startup by anyone crossing the test space

45项主要安全保护功能为您提供全方位安全保护 (以下功能包含可选功能)

45 a major safety protection function to provide you with comprehensive security (the following function contains optional features)

- |   |   |   |   |
|---|---|---|---|
| <ul style="list-style-type: none"> <li>• 扶手入口安全开关</li> <li>主驱动断链安全开关</li> <li>主机抱闸打开检测</li> <li>主机闸瓦磨损检测</li> <li>前沿板打开安全开关</li> <li>扶手断带保护开关</li> <li>主机机械式超速检测</li> <li>电源错相断相检测</li> <li>梳齿上抬安全开关</li> <li>围裙板安全开关</li> <li>外围24V电源开关保护</li> <li>变频器故障检测</li> <li>入口紧急停止按钮</li> <li>上下机房急停按钮</li> <li>扶梯过载检测</li> <li>钥匙开关粘连检测</li> <li>梯级链条断链保护开关</li> <li>梯级丢失检测</li> <li>钥匙信号触发错误方向检测</li> <li>运行中接触器吸合检测</li> <li>梯级防上跳安全开关</li> <li>扶手带速度检测</li> <li>附加制动器安全开关</li> <li>安全回路状态检测</li> <li>梯级下陷保护开关</li> </ul> | <ul style="list-style-type: none"> <li>• Safety switch at access of handrail</li> <li>Safety switch of breaking chain of main drive</li> <li>Test of opening host brake</li> <li>Test of wear and tear of host brake tile</li> <li>Opening safety switch of front plate</li> <li>Breaking belt protection switch of handrail</li> <li>Mechanical over speed test of the host</li> <li>Test of wrong phase and broken phase of power source</li> <li>Raised safety switch of comb teeth</li> <li>Safety switch of skirt plate</li> <li>Protection switch of peripheral 24V power source</li> <li>Fault test of inverter</li> <li>Emergency stop button at access</li> <li>Emergency stop button in the upper and lower machine rooms</li> <li>Overload test of escalator</li> <li>Sticking test of key switch</li> <li>Breaking chain protection switch of step chain</li> <li>Step loss test</li> <li>Test of key signal triggering wrong direction</li> <li>Actuation test of contactor during running</li> <li>Anti-jumping safety switch of the step</li> <li>Velocity test of handrail belt</li> <li>Safety switch of additional brake</li> <li>Test of safety circuit state</li> <li>Sink protection switch of step</li> </ul> | <ul style="list-style-type: none"> <li>• 扶梯超速检测</li> <li>油位开关</li> <li>水位开关</li> <li>扶梯防逆转检测</li> <li>扶梯停止后制动距离检测</li> <li>运行中切换运行状态检测</li> <li>火警停机功能</li> <li>主机过热检测</li> <li>主机风扇罩打开开关</li> <li>远程停机功能</li> <li>机房风扇故障检测</li> <li>BAS远程监控系统</li> <li>防攀爬装置</li> <li>梯级及扶手带防静电装置</li> <li>防检修误操作功能</li> <li>PASSRAE功能</li> <li>围裙板毛刷</li> <li>梯级间隙照明</li> <li>梯级挡板</li> <li>接地故障保护</li> <li>逆向进行保护</li> </ul> | <ul style="list-style-type: none"> <li>• Over speed test of escalator</li> <li>Oil level switch</li> <li>Water level switch</li> <li>Anti-inversion test of escalator</li> <li>Test of brake distance after escalator stops</li> <li>Test of switching operating state during running</li> <li>Fire alarm stop function</li> <li>Test of overheating host</li> <li>Opening switch of host fan enclosure</li> <li>Remote shutdown function</li> <li>Fault test of fan in the machine room</li> <li>BAS remote monitoring system</li> <li>Anti-climbing device</li> <li>Anti-static device of the step and handrail belt</li> <li>Function of preventing wrong operation of maintenance</li> <li>PASSRAE function</li> <li>Hair brush of skirt plate</li> <li>Step gap lighting</li> <li>Step baffle</li> <li>Grounding fault protection</li> <li>Reverse entry protection</li> </ul> |
|---|---|---|---|

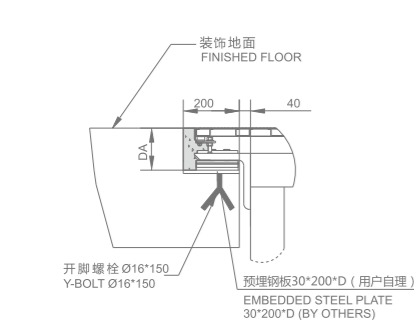
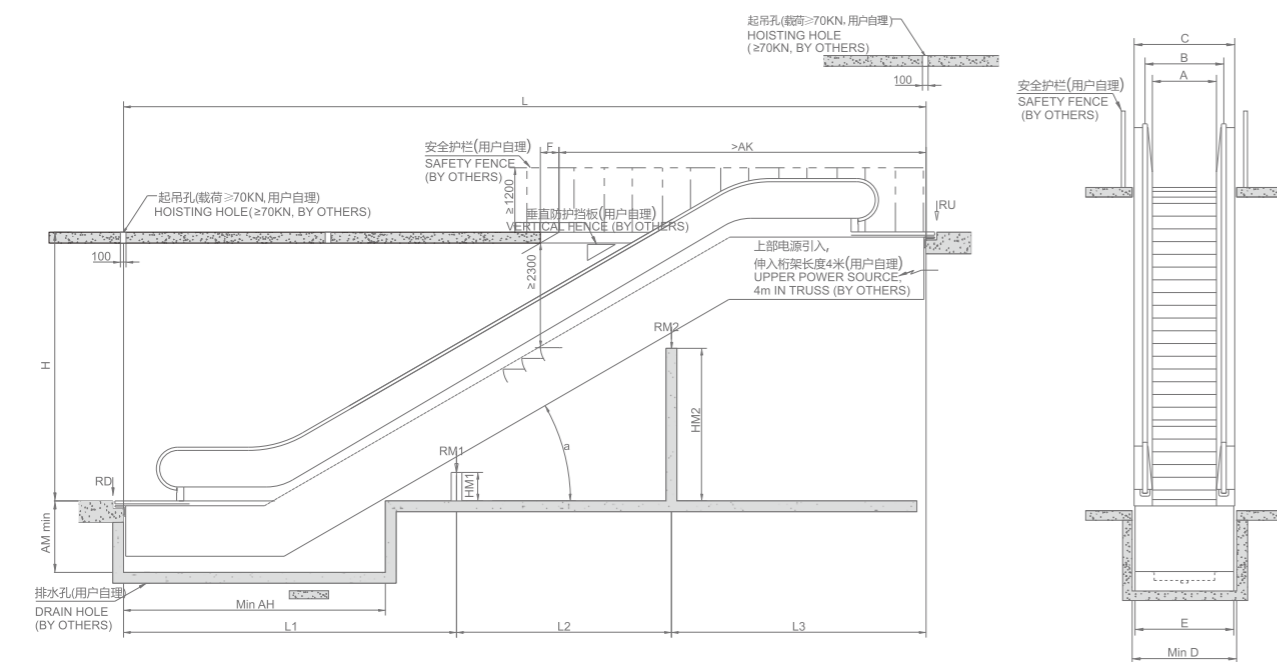
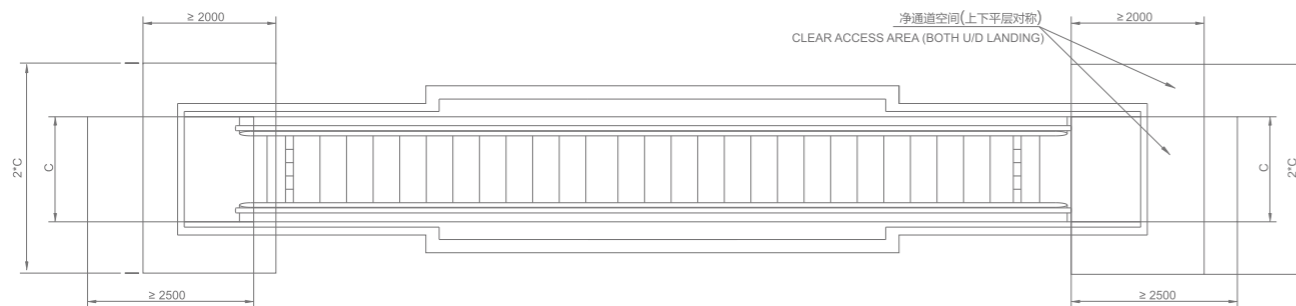
**全方位  
 安全保护**  
 All-around safety  
 protection



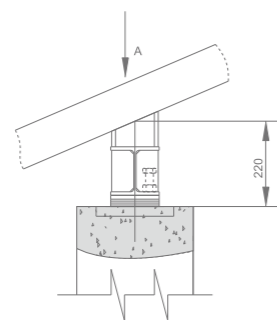


# 公交型扶梯 土建图

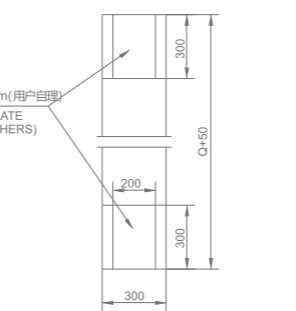
## Public Escalator layout



上下支撑详图(对称)  
 U/D SUPPORT DETAIL (SYMMETRIC)



中间支撑详图  
 MID SUPPORT DETAIL



A向视图(移除中间支撑部件后)  
 A DIRECTION VIEW  
 (Remove the intermediate support parts)

## 业主和土建承包商应完成的工作

Done by owner or builder

- 本图适用提升高度 $2.15\text{m} \leq H \leq 15\text{m}$ , 允许偏差 $\pm 15\text{mm}$ ; 水平跨度 $L$ 允许偏差 $0 \sim +15\text{mm}$ 。
- 当水平跨度 $L > 15.3\text{m}$ 时需加1中间支撑, 位置基本居中。
- 扶梯安装之前, 所有洞必须设有高度不小于1.2米的安全防护围封, 并应保证有足够的强度。
- 扶梯安装之后, 甲方应考虑在扶梯周边建筑物上设置护栏等安全防护。
- 底坑内应防水, 积水坑应设在墙角处。
- 底坑排水孔需与排水系统连接, 甲方自理。
- 根据技术参数表中的要求配备电源, 电源应设保护的开关且上锁并把线拉到上机房。电源波动范围不应超过 $\pm 7\%$ 。电源零线和接地线应分开, 且接地电阻值不大于 $4\Omega$ 。
- 采用多股软线作为电源进入电缆, 甲方自理。
- 当扶手中心线于任何障碍物之间的距离小于 $500\text{mm}$ 时, 甲方需要再扶梯外盖板上方设立一个无锐利边缘的防撞挡板, 高度不应小于 $300\text{mm}$ 。
- 甲方如有特殊要求, 需经厂家技术认可, 方可签约。

- This drawing is fit for the products with rise  $2.15\text{m} \leq H \leq 15\text{m}$ , the permitted tolerance for rise is  $-15\text{mm} \sim +15\text{mm}$ ; The permitted tolerance for level length is  $0 \sim +15\text{mm}$ .
- When the level length  $L > 15.3\text{m}$ , the intermediate support base is needed.
- Before installation, all holes have to be enclosed with the safety guard which height is not less than 1.2m and guarantee the strength is enough.
- After finish installation, the owner should consider to set safety guard rail around the escalator.
- The pit should be water-proof, and the location of plash should be set at the corner.
- The pit drain hole should be connected with the drainage system, the work should be done by others.
- According to the requirement of the technical data, the power supply with safety switch is set at the machine room. The fluctuation of voltage should not more than  $\pm 7\%$ . The zero line and ground line should be separated and the ground resistance is not more than  $4\Omega$ .
- Use soft line as the power input cable, done by others.
- When the space between handrail center line and other barrier is less than  $500\text{mm}$ , a guard plate without sharp edge should be set above outer deck plate, and the height should not less than  $300\text{mm}$ .
- If there is any special requirement, the contract should be made after approved by the company technical department.

注意: 当两台扶梯上下布置时, 下方扶梯工作区域上方需要保证不小于 $2300\text{mm}$ 净空要求, 如左图中阴影部分所示。如有疑问, 请联系西奥电梯工程中心。

Note: If the escalator is up and bottom arrangement, it is required to have  $2300\text{mm}$  clear space above the bottom escalator. Refer to the dash area in the left. Any questions, pls contact XIOLIFT technical department.

倾斜角度 Angle	速度 Speed	提升高度 Rise	平梯级数 Flat	梯级宽度 Step Width	水平跨度 Span	其他尺寸(mm)										支点反力(KN)				底坑深度 AM (mm)								
						AH	AK	B	C	D	E	F	RD	RU	RM1	RM2												
23.2°	0.5/0.65	2150 ≤ H ≤ 15000	3	800	2.333H+6287	5287	9006	1037	1380	1440	1350	2.333S	4.5L+7	4.5L+22	/	/	3.5L1+1.5	3.5L2+21.5	5.7L+10	/								
				1000									2.333H+7087	5687	9406	1037	1380	1440	1350	3.7L1+1.5	3.7L3+21.5	5.2(L1+L2)+10	5.2(L3+L2)+10					
			4	800	2.333H+7087	5687	9406	1037	1380	1440	1350	1.937S	5L+7	5L+22	/	/	3.8L1+1.5	3.8L2+21.5	6.2L+10	/								
				1000									1.937H+7261	5415	8563	1037	1380	1440	1350	4L1+1.5	4L3+21.5	5.5(L1+L2)+10	5.5(L3+L2)+10					
				800									1.732H+6576	4893	7741	1037	1380	1440	1350	1.732S	4.5L+7	4.5L+22	/	/	3.5L1+1.5	3.5L2+21.5	5.7L+10	/
				1000																	1.732H+7376	5293	8141	1037	1380	1440	1350	3.7L1+1.5
30°	0.5/0.65	2150 ≤ H ≤ 15000	3	800	1.732H+6576	4893	7741	1037	1380	1440	1350	1.732S	5L+7	5L+22	/	/	3.8L1+1.5	3.8L2+21.5	6.2L+10	/								
				1000									1.732H+7376	5293	8141	1037	1380	1440	1350	4L1+1.5	4L3+21.5	5.5(L1+L2)+10	5.5(L3+L2)+10					
			4	800	1.732H+6576	4893	7741	1037	1380	1440	1350	1.732S	4.5L+7	4.5L+22	/	/	3.5L1+1.5	3.5L2+21.5	5.7L+10	/								
				1000									1.732H+7376	5293	8141	1037	1380	1440	1350	3.7L1+1.5	3.7L3+21.5	5.2(L1+L2)+10	5.2(L3+L2)+10					
				800									1.732H+6576	4893	7741	1037	1380	1440	1350	1.732S	5L+7	5L+22	/	/	3.8L1+1.5	3.8L2+21.5	6.2L+10	/
				1000																	1.732H+7376	5293	8141	1037	1380	1440	1350	4L1+1.5

注: 1. 当配置双主机时, 水平跨度 $L$ 和 $AK$ 需额外增加 $450\text{mm}$ 。  
 2. 上述均为室内梯尺寸, 如室外梯底坑深度额外增加 $180\text{mm}$ 。

地铁等使用场所使用的重载公交型扶梯, 请联系销售管理部。