

安全防护系统 解决方案

OVERALL SOLUTIONS FOR
SAFETY GUARDING SYSTEM

奥图竭诚为您提供四种整体解决方案

FOUR OVERALL SOLUTIONS FROM AOTTO

★ 冷加工自动化解决方案

OVERALL SOLUTIONS FOR COLD PROCESSING AUTOMATION

★ 热加工自动化解决方案

OVERALL SOLUTIONS FOR HOT PROCESSING AUTOMATION

★ 安全防护系统解决方案

OVERALL SOLUTIONS FOR SAFETY GUARDING SYSTEM

★ 智能抓取标准产品

INTELLIGENTLY GRAB STANDARD PRODUCTS



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Aosaff

安全防护围栏

SAFETY GUARDING FENCE

Ver. 2023-12

济南奥图科技有限责任公司
Jinan Aotto Technologies Co., Ltd.

Since **2000**

Aotto

专注于为冲压行业提供全面优质的自动化集成服务。

Focusing on providing comprehensive and high - quality automation integration services for the stamping industry .



Aosaff

提供安全防护整体解决方案。

Providing safety guarding turnkey solutions.



Aosaff 安全防护围栏专注于机器人及自动化生产线安全防护围栏的设计与制造,并以“致力创新、精工制作”作为产品定位及发展目标,为客户提供各类自动化安全防护整体解决方案和优质服务。

Aosaff safety fence focus on designing and manufacturing of robot and automatic production line safety guarding fence, regards “devoting to innovation and fine workmanship manufacture” as product orientation and development target, and provides complete solutions and outstanding service of automatic safety guarding to the customers.



Aotto



AVIZ

提供冲压生产智慧工厂一体化解决方案。
Providing an integrated solution for stamping production intelligent factory.



Aovita

专业精工、八宝玲珑、提供智能抓取标准产品。

Regarding “being professional, fine and exquisite”, and making efforts in creating the first brand in tooling industry.



Atrey

专业提供高端激光切割装备及服务。
Provide customers with Hi-End laser cutting devices and services.



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Aosaff 安全防护辅助选型系统

SAFETY GUARDING ASSISTED SELECTION SYSTEM

针对围栏设计开发,实现“专软专用”,减少设计人员重复性劳动,实现了需求--设计--生产的一体化、高效化。此安全防护辅助选型系统已获软件著作权版权。

Aiming at the design and development of the fence,realizing "special software for special purpose", and reducing the repetitive labor of the designer.This system realizes integration and high efficiency, and has been granted with software copyright.



高效的围栏排列及优化算法,降低客户成本

Efficient fence arrangement and optimization algorithm, reduce customer costs.



快速表达需求,节约设计时间,根据方案自动生成围栏明细,快速下单

Express requirements quickly,save design time. Generate the fence details and quick order according to the scheme.



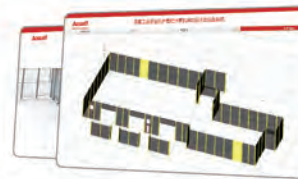
自动一键生成 2D/3D 图纸,减少设计人员重复性劳动,快速高效

The system can automatically generate the corresponding 2D or 3D model,reduce the repetitive work of designers,the whole process is quick efficiently.



用标准围栏为客户打造专属方案

Create an exclusive plan for customers with our standard fences.



钢制围网及立柱防护

STEEL FENCE AND COLUMN PROTECTION

3 交货期
个工作日
Delivery
3 working days
非标产品交期请来电咨询
Non-standard product delivery time please call consultation



产品优势 Product advantages

◆ 性价比高 Cost-effective

特点:

1. 钢制围网价格为铝型材围网价格的 50% 左右。
2. 表面喷塑处理,绿色时尚。

Features:

1. The price of steel fence is about 50% of that of aluminum.
2. Surface spray treatment, green and fashion.

◆ 交货期短 Short delivery time

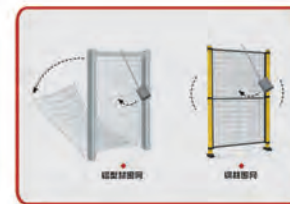
特点:

全自动化生产工艺,产品标准化、模块化,交货周期短。

Features:

Fully automated production process, product standardization, modularization, short delivery cycle.

◆ 安全性好 Good security



特点:

1. 钢制围网焊接强度高,抗打击力度是型材围网的 3 倍。
2. 重载型链接,牢固可靠。

Features:

1. High welding strength/ the impact resistance is 3 times of that of aluminum.
2. Heavy load type link, firm and reliable.

◆ 快速安装,施工周期短 Quick installation and short construction period

① 快速安装 Quick installation



特点:

1. 采用快插结构,效率较传统结构提高 200%。
2. 高低调整方便,可做到所有围网整齐一致。
3. 立柱四周均可连接围网,安装方便灵活。

Features:

1. Increase the efficiency by 200%.
2. The height is easy to adjust, and all the fences can be flush.
3. Mesh can be connected all around the column, making installation convenient and flexible.

② 地脚+膨胀螺栓 Anchor & expansion bolt



特点:

1. 满足整体围栏刚性的情况下,减少不必要安装孔,安装效率高。
2. 采用膨胀螺栓,固定更牢固,不易松动。

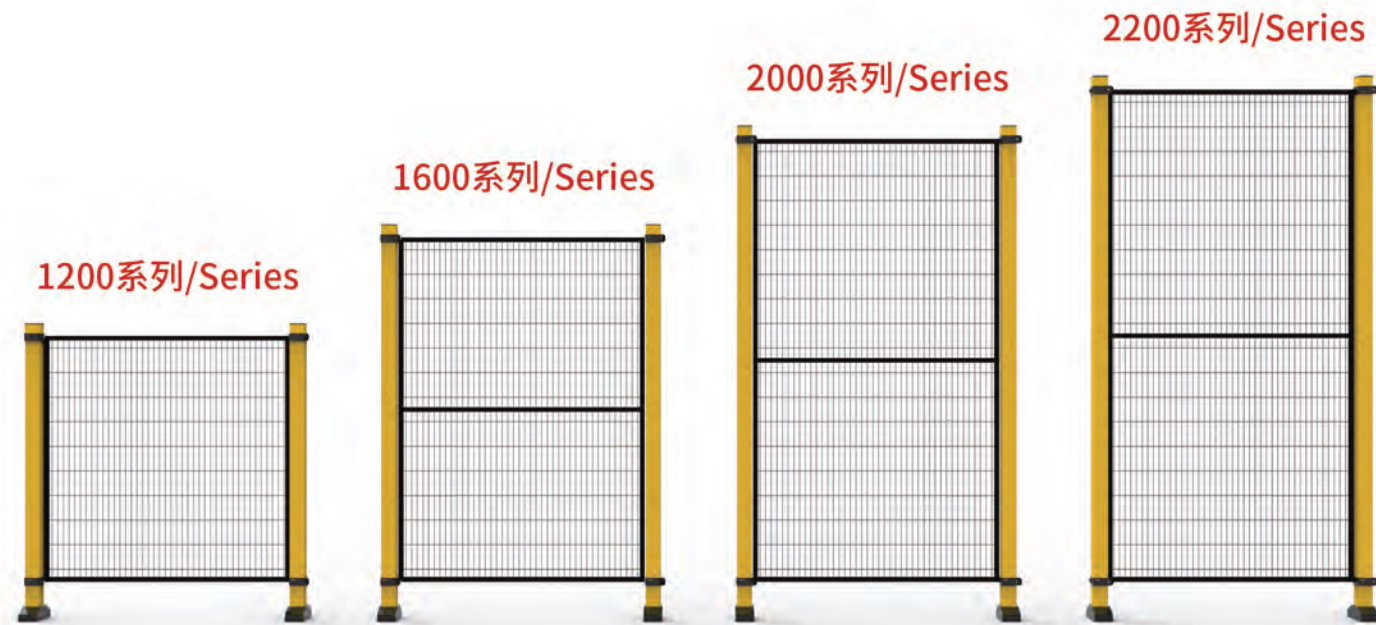
Features:

1. In the case of satisfying the rigidity of the overall fence, unnecessary installation holes are reduced, and the installation efficiency is high.
2. Using expansion bolts, the fixing is firmer and not easy to loosen.

钢制围网及立柱防护

STEEL FENCE AND COLUMN PROTECTION

3 交货期 3 个工作日 Delivery 3 working days
 非标产品交期请来电咨询
 Non-standard product delivery time please call consultation



适用于仓储物流、设备防护、汽车、机器人及新能源生产线等环境，采用焊接结构的同时表面喷塑处理，能承受 1600J 能量冲击测试，符合 GB、CE、ISO、GIS 及 OSHA 标准，安全与美观兼具。

The fence is suitable for storage and logistics, equipment protection, automobiles, robots and new energy production lines and other environments. It adopts welded structure and surface spray treatment. It can withstand 1600J energy impact test and meets GB, CE, ISO, GIS and OSHA standards. Safe and beautiful.

技术参数 Technical parameter

单位为毫米
Dimension in mm

围网高度 2000/1800/1400/1000
 围网宽度 1200/1100/1000/900/800/700/600/500
 网 格 20*100
 网片丝径 3
 网框方管 20*20*1.2
 立柱方管 60*60*1.5
 立柱高度 2200/2000/1600/1200

Panel Height 2000/1800/1400/1000
 Panel Width 1200/1100/1000/900/800/700/600/500
 Grid 20*100
 Wire Diameter 3
 Panel Square Tube 20*20*1.2
 Column Square Tube 60*60*1.5
 Column Height 2200/2000/1600/1200

钢制围网及立柱防护

STEEL FENCE AND COLUMN PROTECTION

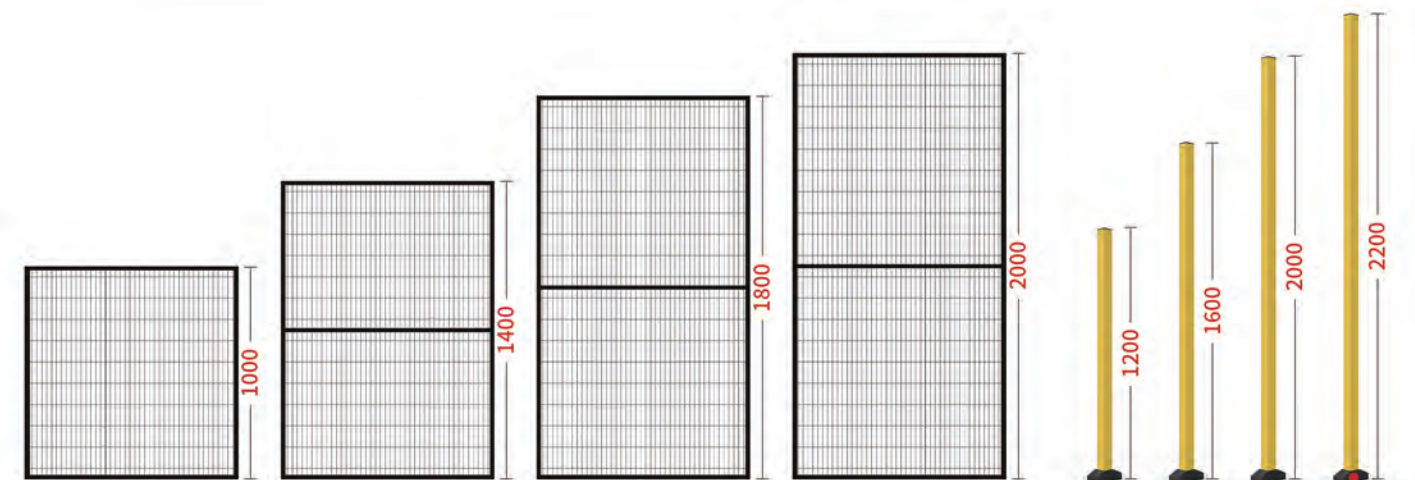
3 交货期 3 个工作日 Delivery 3 working days
 非标产品交期请来电咨询
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20系列标准围网 20 series standard panel

宽度W / Width (mm)	高度H / Height (mm)	重量KG / Kilogram(Kg)	宽度W / Width (mm)	高度H / Height (mm)	重量KG / Kilogram(Kg)
500	1000	3.47	500	1400	4.91
600		3.89	600		5.48
700		4.37	700		6.11
800		4.79	800		6.68
900		5.22	900		7.25
1000		5.69	1000		7.88
1100		6.12	1100		8.45
1200	6.84	1200	9.01		
宽度W / Width (mm)	高度H / Height (mm)	重量KG / Kilogram(Kg)	宽度W / Width (mm)	高度H / Height (mm)	重量KG / Kilogram(Kg)
500	1800	6.04	500	2000	6.59
600		6.70	600		7.30
700		7.46	700		8.12
800		8.12	800		8.84
900		8.79	900		9.55
1000		9.54	1000		10.37
1100		10.21	1100		11.08
1200	10.88	1200	11.80		

60系列标准立柱 60 series standard column

高度H / Height (mm)	重量KG / Kilogram(Kg)	高度H / Height (mm)	重量KG / Kilogram(Kg)
1200	4.03	2000	6.23
1600	5.13	2200	6.77



围网及立柱标准颜色
Standard colors
 RAL1018 RAL1023 RAL7035 RAL9005

立柱地脚示意图
Schematic diagram of column foundation



铰链门 单开/双开

HINGED DOOR SINGLE/DOUBLE

3 交货期 3 个工作日 Delivery 3 working days
非标产品交期请来电咨询
Non-standard product delivery time please call consultation



产品特点：模块化设计，安装便捷。

单开门标准配置：把手组件(单开)一套、脚轮一套。

双开门标准配置：把手组件(双开)两套、脚轮两套。

可选配置：地脚插销、高配机械锁、安全锁+机械插销(详见P13)。

Product features: Modular design, easy installation.

Standard configuration of single-door: 1 set of handle assembly (single open), 1 set of casters.

Standard configuration of double-door: 2 sets of handle components (double open), 2 sets of casters.

Optional configuration: ground pin, high-end mechanical lock, safety lock + mechanical pin (see P13 for details).

标准单开铰链门 Standard single hinged door

门开口宽度 (mm) Opening width (mm)	门整体宽度 (mm) Overall width (mm)	立柱高度 (mm) Column height (mm)			
700	850	1200	1600	2000	2200
800	950				
1000	1150				
1200	1350				
1500	1650				

标准双开铰链门 Standard double hinged door

门开口宽度 (mm) Opening width (mm)	门整体宽度 (mm) Overall width (mm)	立柱高度 (mm) Column height (mm)			
1400	1560	1200	1600	2000	2200
1600	1760				
2000	2160				
2400	2560				
3000	3160				

※ 可按客户需求提供定制化服务，1200/1600高度不配备门梁。
Customized services can be provided according to customer needs, 1200/1600 series without door beam.

悬浮门 单开/双开

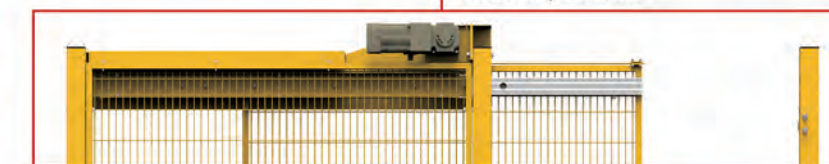
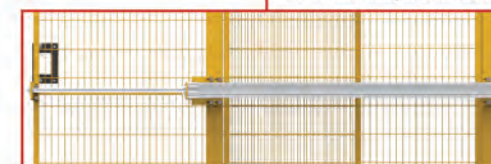
SUSPENSION DOOR SINGLE/DOUBLE

3 交货期 3 个工作日 Delivery 3 working days
非标产品交期请来电咨询
Non-standard product delivery time please call consultation



气动悬浮门
Pneumatic suspension door

电动悬浮门
Electric suspension door



产品特点：大开口不限高，模块化预装，安装便捷。

单开门标准配置：把手组件(双开)一套、三节滑轨模块两套、脚轮一套。

双开门标准配置：把手组件(双开)两套、三节滑轨模块四套、脚轮两套。

可选配置：地脚插销、安全锁+机械插销(详见P13)。

Product features: large opening, unlimited height, modular pre-installation, convenient installation.

Standard configuration of single-door: 1 set of handle assembly (double open), 2 sets of three-section slide rail modules, 1 set of casters.

Standard configuration of double-door: 2 sets of handle assemblies (double open), 4 sets of three-section slide rail modules, 2 sets of casters.

Optional configuration: ground pin, safety lock + mechanical pin (see P13 for details).

标准悬浮门 单开/双开 Standard suspension door Single/Double

单开门开口宽度 (mm) Single-door opening width (mm)	单开门整体宽度 (mm) Single-door overall width (mm)	双开门开口宽度 (mm) Double-door opening width (mm)	双开门整体宽度 (mm) Double-door overall width (mm)	立柱高度 (mm) Column height (mm)			
700	1640	1400	3130	1200	1600	2000	2200
800	1840	1600	3530				
900	2040	1800	3930				
1000	2240	2000	4330				
1200	2640	2400	5130				
1400	3040	2800	5930				
1500	3240	3000	6330				

※ 可按客户需求定制气动悬浮门、电动悬浮门、三级悬浮门等。
Pneumatic suspension doors, electric suspension doors, three-level suspension doors, etc. can be customized according to customer needs.

滑动门 单开/双开

SLIDING DOOR SINGLE/DOUBLE

3

交货期
个工作日
Delivery
3 working days
非标产品交期请来电咨询
Non-standard product delivery time please call consultation



产品特点：大开口，模块化设计，安装便捷。

单开门标准配置：把手组件（双开）一套、上滑轨一组、导轮支架一套、缓冲块组件两套。

对开门标准配置：把手组件（双开）两套、上滑轨两组、导轮支架两套、缓冲块组件两套。

可选配置：地脚插销、安全锁 + 机械插销（详见 P13）。

Product features : large opening, modular design, easy installation.

Standard configuration of single-door : one set of handle assembly (double open), one set of upper slide rail, one set of guide wheel bracket, and two sets of buffer block assembly.

The standard configuration of double-door : two sets of handle components (double opening), two sets of upper slide rails, two sets of guide wheel brackets, and two sets of buffer block components.

Optional configuration : ground pin, safety lock + mechanical pin (see P13 for details).

标准滑动门 双开/单开 Standard suspension door Single/Double

单开门开口宽度 (mm) Single-door opening width (mm)	单开门整体宽度 (mm) Single-door overall width (mm)	双开门开口宽度 (mm) Double-door opening width (mm)	双开门整体宽度 (mm) Double-door overall width (mm)	立柱高度 (mm) Column height (mm)	
700	1850	1400	3530	2000	2200
800	2050	1600	3930		
900	2250	1800	4330		
1000	2450	2000	4730		
1200	2850	2400	5530		
1400	3250	2800	6330		
1500	3450	3000	6730		

※ 可按客户需求定制双轨滑动门、地轨式滑动门等。

Double rail sliding doors, floor rail sliding doors, etc. can be customized according to customer needs.

其他类产品

OTHER PRODUCTS

钢柱PC板防护 Steel column PC board protection



采用无色透明PC板，高透光，外表美观大方，是您产品展示、生产线展览的不二之选。

Using colorless and transparent PC board, high light transmission, beautiful appearance, is the best choice for your product display, production line exhibition.

钢柱挡弧帘防护 Steel column arc curtain protection



在原有安全防护基础上增加挡弧帘，可有效防止弧光伤害，多种颜色选择，使您的焊接工作站与众不同；高颜值、强防护，为您的安全事业添砖加瓦。

Adding arc-blocking curtains on the basis of the original safety protection can effectively prevent arc damage, a variety of color options make your welding workstation unique, high-quality, strong protection, and contribute to your safety career.

重载平移门 Heavy-duty sliding door



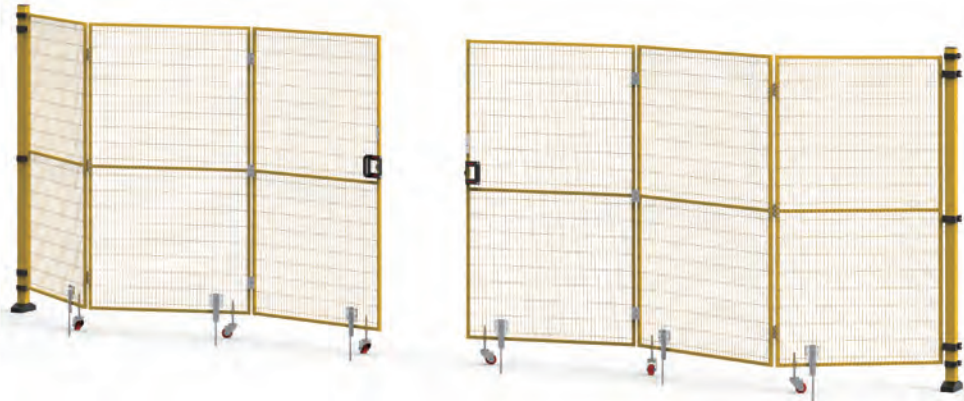
产品特点：超宽开口、结构稳固、按需定制。
 双开门标准配置：把手组件(双开)两套、脚轮两套。
 可选配置：地脚插销、安全锁+机械插销(详见P13)。

Product features: super wide opening, stable structure, customized on demand.
 Standard configuration of double doors: two sets of handle components (double doors) and two sets of casters.
 Optional configuration: ground pin, safety lock + mechanical pin (see P13 for details).

标准对开重载平移门 Standard double heavy-duty sliding door

门开口宽度 (mm) Opening width (mm)	门整体宽度 (mm) Overall width (mm)	立柱高度 (mm) Column height (mm)	
4000	11000	2000	2200
5000	13000		
6000	15000		

折叠门 单开/双开 Folding door Single/Double



产品特点：大开口、经济实惠、按需定制。
 单开门标准配置：把手组件(单开)一套、地脚插销、脚轮(套数根据开口变化)。
 双开门标准配置：把手组件(双开)两套、地脚插销、脚轮(套数根据开口变化)。
 可选配置：安全锁+机械插销(详见P13)。

Product features: large opening, economical, customized on demand.
 Standard configuration of single door: one set of handle assembly (single open), ground pin, caster (the number of sets varies according to the opening).
 Standard configuration of double doors: two sets of handle components (double doors), anchor pins, casters (the number of sets varies according to the opening).
 Optional configuration: safety lock + mechanical latch (see P13 for details).

标准折叠门 单开/双开 Standard folding door Single/Double

单开门开口宽度 (mm) Single-door opening width (mm)	单开门整体宽度 (mm) Single-door overall width (mm)	双开门开口宽度 (mm) Double-door opening width (mm)	双开门整体宽度 (mm) Double-door overall width (mm)	立柱高度 (mm) Column height (mm)			
3000	3175	6000	6205	1200	1600	2000	2200

门锁

LOCK

高配机械锁 High-end mechanical lock



外观高端大气，便于权限管理，广泛应用于仓储类场景。

The appearance is high-end and elegant, which is convenient for permission management, and is widely used in storage scenarios.

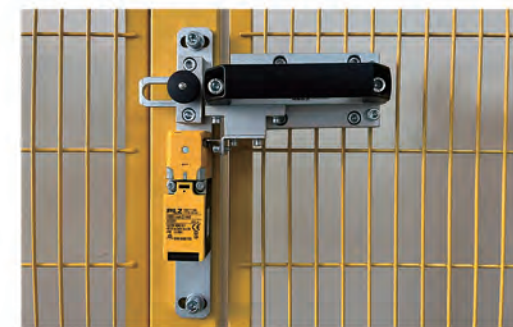
机械插销 Mechanical latch



机械插销，旋钮定位，可搭配多款安全锁组合应用。

Mechanical latch, knob positioning, can be used in combination with a variety of safety locks.

安全锁+机械插销应用案例 Cases



◀ 皮尔兹安全锁
Pilz security lock
型号 Model
me4.2/4AS



▶ 施耐德安全锁
Schneider safety lock
型号 Model
XCSEA702+XCSZ01



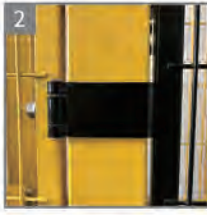
◀ 皮尔兹安全锁
Pilz security lock
型号 Model
me5s



▶ 施耐德安全锁
Schneider safety lock
型号 Model
XCSE7312+XCSZ01

配件

ACCESSORIES

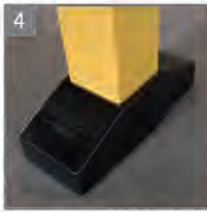


1 卡环
分为上/下卡环，使围网固定于立柱，可自由调整围网高度位置，单个卡环可安装四片不同方向的围网。

Snap ring: It is divided into upper/lower snap rings, so that the fence can be fixed on the column, and the height of the fence can be adjusted freely. A single clip can install four pieces of fence in different directions.

2 专用铰链 (门用)
专利产品，通过其铰链结构实现开门效果，安装更方便，强度更高。

Special hinge (for door): The patented product realizes the door opening effect through its hinge structure, which is more convenient to install and has higher strength.

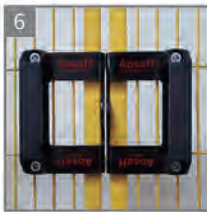


3 60*60立柱堵头
用于立柱顶端，起到防尘及保护作用。

60*60 Column plug: Used for the top of the column to play the role of dustproof and protection.

4 防尘盖
用于立柱底端，起到防尘及保护作用。

Dust cover: Used at the bottom of the column to play a role in dust prevention and protection.



5 单开门把手组件
用于单开门的开启及限位功能。

Single door handle assembly: Used for opening and limit function of single door.

6 双开门把手组件
用于双开门的开启及挂锁安装功能。

Double door handle assembly: Used for double door opening and padlock installation.



7 U型槽组件
用于围网的拼接固定。

U-groove assembly: Used for splicing and fixing of mesh.

8 立柱加高件
用于60系列立柱的加高固定。

Column heightening parts: Used for heightening and fixing of 60 series columns.



9 脚轮
用于安全门围网的支撑。

Casters: Used for the support of the security gate fence.

10 三节滑轨组件
用于悬浮门导向及支撑。

Three-section slide rail assembly: Used for guiding and supporting the suspension door.

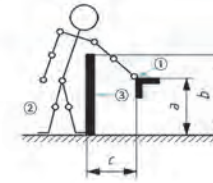
产品标准

PRODUCT STANDARDS

GB23821-2009 防止上下肢触及危险区的安全距离
GB23821-2009 Safety of machinery — Safety distances to prevent hazard zones being reached by upper and lower limbs

越过防护结构触及的安全距离——高风险

单位为毫米
Dimension in millimetres



a -- 危险区高度
b -- 防护结构高度
c -- 防护结构近一侧距危险区的水平距离

① -- 危险区 (最近点)
② -- 基准面
③ -- 防护结构

a -- height of hazard zone
b -- height of protective structure
c -- horizontal safety distance to hazard zone

① -- hazard zone (nearest point)
② -- reference plane
③ -- protective structure

危险区高度 a Height of hazard zone a	防护结构高度 b Height of protective structure b								
	1000	1200	1400	1600	1800	2000	2200	2400	2500
2600	900	800	700	600	600	500	400	300	100
2400	1100	1000	900	800	700	600	400	300	100
2200	1300	1200	1000	900	800	600	400	300	0
2000	1400	1300	1100	900	800	600	400	0	0
1800	1500	1400	1100	900	800	600	0	0	0
1600	1500	1400	1100	900	800	500	0	0	0
1400	1500	1400	1100	900	800	0	0	0	0
1200	1500	1400	1100	900	700	0	0	0	0
1000	1500	1400	1000	800	0	0	0	0	0
800	1500	1300	900	600	0	0	0	0	0
600	1400	1300	800	0	0	0	0	0	0
400	1400	1200	400	0	0	0	0	0	0
200	1200	900	0	0	0	0	0	0	0
0	1100	500	0	0	0	0	0	0	0

注: 1. 防护结构高度低于1000mm的不包括在内, 因其不能有效地限制身体运动。
2. 防护结构高度低于1400mm的, 如果没有另外安全措施, 不应采用。

Notes: 1. Protective structures less than 1 000 mm in height are not included because they do not sufficiently restrict movement of the body.
2. Protective structures lower than 1 400 mm should not be used without additional safety measures.

通过规则开口触及的安全距离——14岁及以上人员

Reaching through regular openings — Persons of 14 years of age and above

单位为毫米
Dimension in mm

身体部位 Part of body	图示 Illustration	开口 Opening	安全距离 S _r Safety distance S _r		
			槽形 Slot	方形 Square	圆形 Round
指尖 Fingertip		e ≤ 4	≥ 2	≥ 2	≥ 2
		4 < e ≤ 6	≥ 10	≥ 5	≥ 5
指至指关节 Finger up to knuckle joint		6 < e ≤ 8	≥ 20	≥ 15	≥ 5
		8 < e ≤ 10	≥ 80	≥ 25	≥ 20
手 Hand		10 < e ≤ 12	≥ 100	≥ 80	≥ 80
		12 < e ≤ 20	≥ 120	≥ 120	≥ 120
		20 < e ≤ 30	≥ 850 ^{注(Notes)}	≥ 120	≥ 120
臂至肩关节 Arm up to junction with shoulder		30 < e ≤ 40	≥ 850	≥ 200	≥ 120
		40 < e ≤ 120	≥ 850	≥ 850	≥ 850

表中的粗实线划分了开口尺寸限制的人体部分。
注: 如果槽形开口长度不大于65mm, 拇指将受到阻挡, 安全距离可减小到200mm。
The bold lines within the table delineate that part of the body restricted by the opening size.
Note: If the length of the slot opening is ≤ 65 mm, the thumb will act as a stop and the safety distance can be reduced to 200 mm.

质量测试

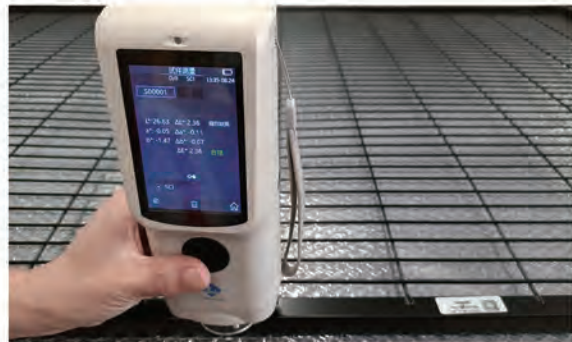
QUALITY TESTING



冲击测试 Impact test

按照ISO14120-2015机械安全标准进行测试，能够承受高能量冲击。

According to ISO 14120-2015 standard, Can withstand 1600J impact force.



色差测试 Color difference test

色差按照标准 GB/T 11186.2-1989、GB/T 11186.3-1989 规定采用仪器法测定,通过分光色差仪进行抽样检测。

The color difference is measured by the instrument method in accordance with the provisions of the standards GB/T 11186.2-1989 and GB/T 11186.3-1989, and the sampling test is carried out by a spectrophotometer.



喷塑层厚度测试 Spray layer thickness test

涂塑层厚度符合 GB/T 26941.1-2011 隔离栅涂塑层厚度标准，通过厚度仪进行抽样检测。

涂塑层按照标准 GB/T9286-2021 规定的方法进行划格实验检测。

Spray layer thickness conform to GB/T 26941.1-2011 standard. The sampling inspection is done by thickness meter.



盐雾测试 Salt mist

盐雾检测按照ISO9227进行盐雾试验。

According to ISO9227 standard to do the corrosion resistance test.

认证资质

CERTIFICATION QUALIFICATION

CE认证 CE authentication

已通过Intertek专业测试取得欧盟CE认证
Passed Intertek professional test and obtained EU CE certification.



部分专利证书 Partial patent certificate

生产研发实力强大
Powerful in production and R&D.



ISO质量管理体系认证 ISO quality management system certification

已取得ISO质量管理体系认证证书
ISO quality management system certification has been obtained.



项目案例 | 汽车行业安全防护

PROJECT CASE | AUTOMOTIVE INDUSTRY SAFETY PROTECTION



项目案例 | 新能源电池线安全防护

PROJECT CASE | NEW ENERGY BATTERY LINE SAFETY PROTECTION



项目案例 | 仓储物流安全防护

PROJECT CASE | WAREHOUSING AND LOGISTICS SECURITY PROTECTION



项目案例 | 机器人工作站安全防护

PROJECT CASE | ROBOT WORKSTATION SAFETY PROTECTION



我们和世界

WE & WORLD



Aosaff 安全防护围栏广泛应用于各行各业，更是在新能源、机器人、仓储物流、轻工、汽车等行业的安全防护中脱颖而出，并远销德国、日本、印度、法国、美国、韩国、新加坡等二十多个国家，在世界越来越小的现在，通过高质量的产品和服务，我们与客户也变得越来越亲密。

Aosaff safety fences are widely used in all walks of life, and stand out in the safety protection of new energy, robotics, warehousing and logistics, light industry, automobiles and other industries, and are exported to Germany, Japan, India, France, the United States, South Korea, Singapore In more than 20 countries, the world is getting smaller and smaller, and through high-quality products and services, we have become more and more intimate with our customers.

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