

# Machine Guard System



Machine Guard System  
机械防护系统

Version **5.4**



## 专业 专注 精益求精

*Profession Devotion Keep Improving*

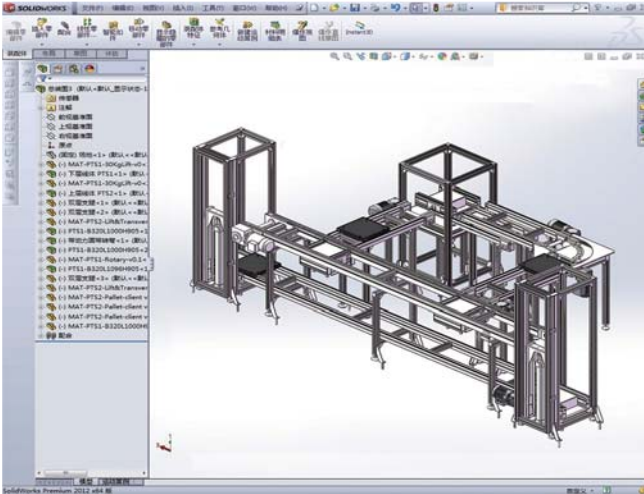
经验丰富的工程师队伍；  
专业的设备和多年的实践；  
标准化的操作流程；  
高素质的销售团队和以顾客为导向的服务宗旨；  
美德乐为您提供的不仅仅是产品，更是工业领域的最前沿理念；  
我们要您了解的不只是产品质量，更是一种服务态度。

Made in China;  
Higher quality at unbeatable price;  
Shipped directly pre-assembled to customers;  
Converting any original design to MAT design, free of charge.

**Try once, and you will never change!!!**

# *What's inside...*

**Assembly Technology**



## Planning Software 技术支持

- Complete product info
- CAD library
- Quick & Easy configurator
- Calculation of profile deflection
- Drawing conversion for profiles
- Layout Designer for fast, easy planning
- 完整的产品信息
- CAD图库
- 装配简单便捷
- 型材变形量的计算
- 图纸的转换
- 规划简单快速



## On-time, rapid delivery 准时，快速交货

- Availability of all components
- Pre-assembled modules, complete frames
- Prompt shipping and exemplary delivery reliability
- 配件充足
- 模块化组装
- 及时交付产品





Modular Assembly System (MAS) is composed of industrial aluminum profiles and accessories. You can quickly find a solution for all tasks with the complete specification and variety of accessories from MAT.  
模块化工业组装系统由工业铝型材及其配件组成，型材规格齐全，附件多样化，可以快速组装成任意的结构形式。



Machine Guard System (MGS) is designed for customers with advanced guarding need. The special design of guarding profiles offer better appearance and unique fastening elements bring faster and safer connections.  
机械防护系统是为了满足客户对防护的高级需求而独立设计的。防护型材的特殊设计令整体防护系统更加简洁美观，专用的紧固组件可实现快速和可靠的连接。



Stair and Platform System (SPS) is commonly used for overpass bridges over machinery and equipment. The assembly can be realized easily by simply fastening screws without any machine work. The system is very easy and convenient to use.  
工业踏步及走台系统常用于机械上下扶梯及设备的跨线桥，无需特殊加工即可实现组装，方便快捷，内藏式锁紧结构，美观整洁。



Tubular Framing System (TFS) is a flexible modular system composed of special profile tubes and accessories to build a diverse range of flow racks and material shuttles. TFS is simple and quick to use, also low cost.  
线棒柔性系统是由导管型材和其它附件组成的一种模块化柔性系统，可以组合成各种类型、规格、尺寸的工位器具和料架，制造简单迅速、低成本。



The Modular Conveyor System (MCS) includes belt conveyor, roller conveyor, chain belt conveyor, chain conveyor, pallet conveyor, rotary, lift unit and etc. They are widely used in car component production, pharmaceutical, electronics, tobacco, packing and other industries.  
模块化输送系统主要包括皮带式输送机，辊筒式输送机，网带输送机，链板和柔性链式输送机，托盘输送线，转台、提升机等。产品广泛地用于汽车零部件制造、医药、电子、烟草、包装等行业。





Machine Guard System 机械防护系统

Modular Assembly System  
模块化工业组装系统



Machine Guard System  
机械防护系统



Stair and Platform System  
工业踏步及走台系统



Tubular Framing System  
线棒柔性系统



Modular Conveyor System  
模块化输送系统



Modular Assembly System---  
safe, quick, reliable

Use our comprehensive range  
to effectively cut working hours and costs.

- Short planning times
- Faster construction
- Highly flexible conversion and extension options
- Reusable components
- Available worldwide

模块化组装系统特性---  
安全、快捷、可靠。

全方位有效地节省工时和成本。

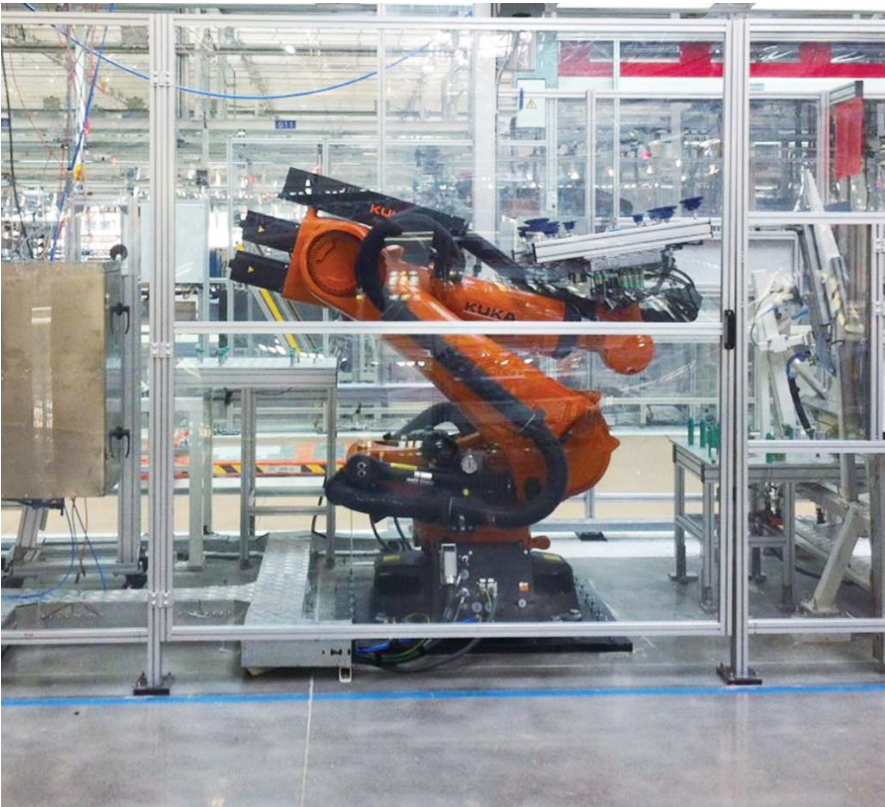
- 加工时间短
- 组装速度快
- 高度灵活性
- 可重复使用
- 全球销售



Protective barriers for machine 机器设备外围防护



Protective barriers for robot 机器人外围防护



Protective barriers for robot 机器人外围防护



Protective barriers for machine 机器设备外围防护



Protective barriers for car assembly line 汽车生产线外围防护

Machine Guard System  
机械防护系统

The machine guard system is a separate system which has been designed to meet the different kinds of demand from customers. The outside appearance gives the whole set a beautiful look. The adjustment of the fastening style increases the reliability of the products and allow the installation of meshes, PMMA panels, aluminum composite panels, different panel-like and so on. Installing net and panel uses different profiles, for more details please refer to the profile sections.

机械防护系统是为了满足客户各种不同需求而设计的独立系统，外侧平面设计使整体看起来更加美观，可调节的紧固形式使产品更加灵活方便，可安装格栅网，亚克力板，铝塑板等不同的板状物。安装网及板所使用的型材不同，具体使用方法请参照型材截面部份。

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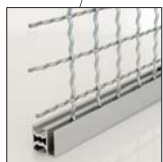
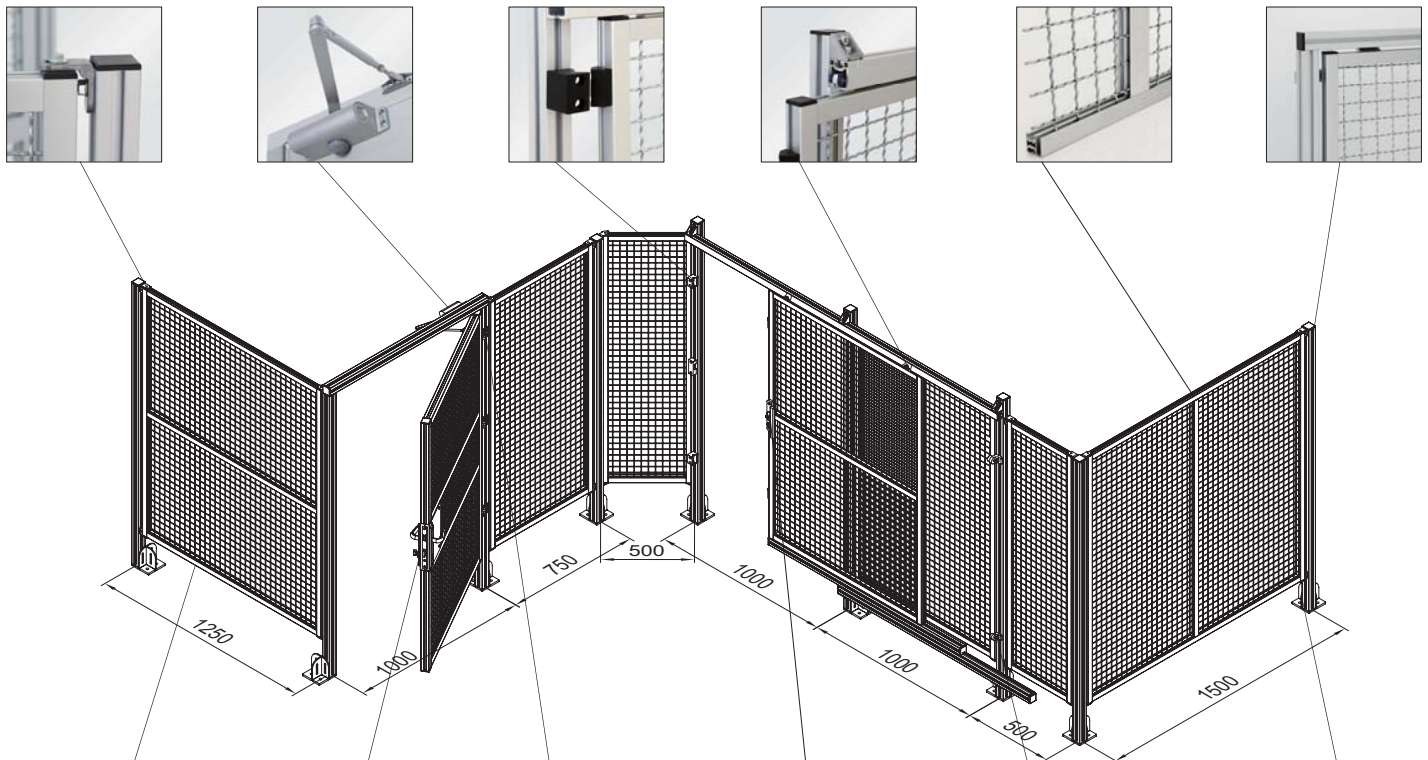
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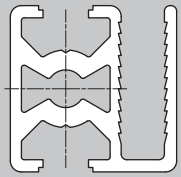

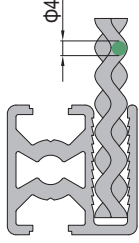
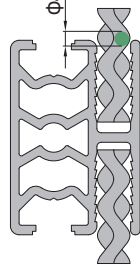
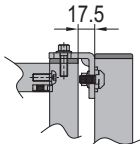

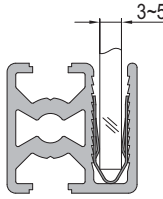
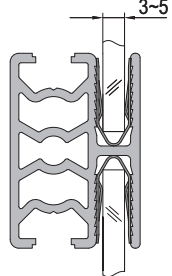
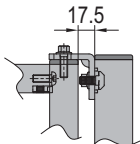
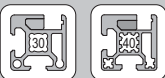
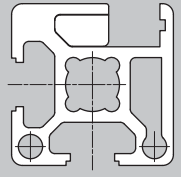

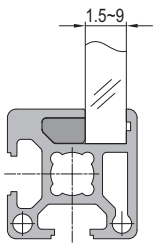
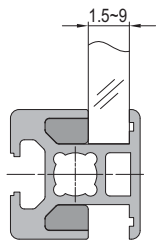
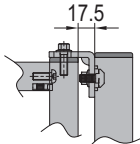

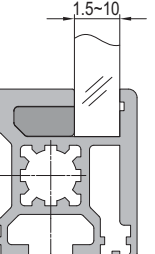
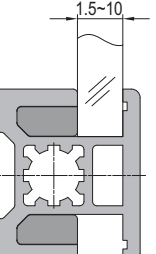
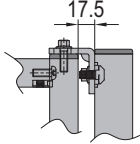

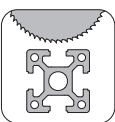
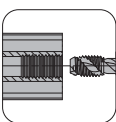
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Selection Reference of Standard Unit  
防护单元选型参考

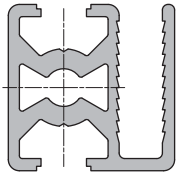
Standard unit is composed of either the protective grille profile or clamping profile. Protective grille profile could insert not only the meshes, but also the panels, and the spring clamping nut will be used if inserting panels (the recommended distance of nut is 300mm). Clamping profiles only could insert the panels, and machining will be needed on the profiles to fasten the panels in appropriate positions (the recommended distance of machining is 300mm). The specifications are compared as below.

防护单元以防护网型材和防护罩型材为框架型材。防护网型材既可安装编织网、焊接网又可安装有机玻璃、亚克力等板状物。安装板状物时需配合夹板弹片使用(建议间距为300mm)。防护罩型材只能安装有机玻璃、亚克力等板状物, 安装时需要在型材上加工顶丝孔(建议间距300mm)。

   Protective Grille Profile 防护网型材	 Protective Grille Profile Inserting Mesh 防护网型材夹网	  	
	 Protective Grille Profile Inserting Panel 防护网型材夹板	  	
   Clamping Profile 防护罩型材	 Clamping Profile PG30 防护罩型材30系列	  	
	 Clamping Profile PG40 防护罩型材40系列	  	
Machining Symbol 加工符号	 Drilling 需钻孔	 Angle cutting 需切割角度	 Thread tapping 需攻丝

Selection Reference of Standard Unit  
防护单元选型参考

Protective Grille Profile  
防护网型材



- Efficiency 安装指数: ★★★★★
- Cost 经济指数: ★★★★★
- leakproofness 密封指数: ★★★
- Flexibility 灵活指数: ★★★★★




Protective Grille Profile Inserting Mesh  
防护网型材夹网  
40x40mm, Φ4 woven mesh  
40x40mm, Φ4 编织网  
Eg: PN30.14000425.STA.01

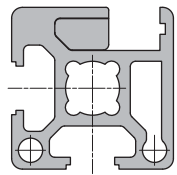
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Protective Grille Profile Inserting Panel  
防护网型材夹板  
3-5mm transparent PMMA panel  
板厚度范围3-5mm  
Spring Clamping Nut: Recommended distance is 300mm  
夹板弹片: 建议弹片间距300mm  
Eg: PN30.14000425.STA.02

02

Clamping Profile  
防护罩型材



- Efficiency 安装指数: ★★★
- Cost 经济指数: ★★★
- leakproofness 密封指数: ★★★★★
- Flexibility 灵活指数: ★★★




Clamping Profile Inserting Panel  
防护罩型材夹板  
1.5-9mm transparent PMMA panel  
板厚度范围1.5-9mm  
Top thread: Recommended distance is 300mm  
顶丝: 建议顶丝间距300mm  
Eg: PP30.14000425.STA

Item Number Reference/ 订购编号解析:



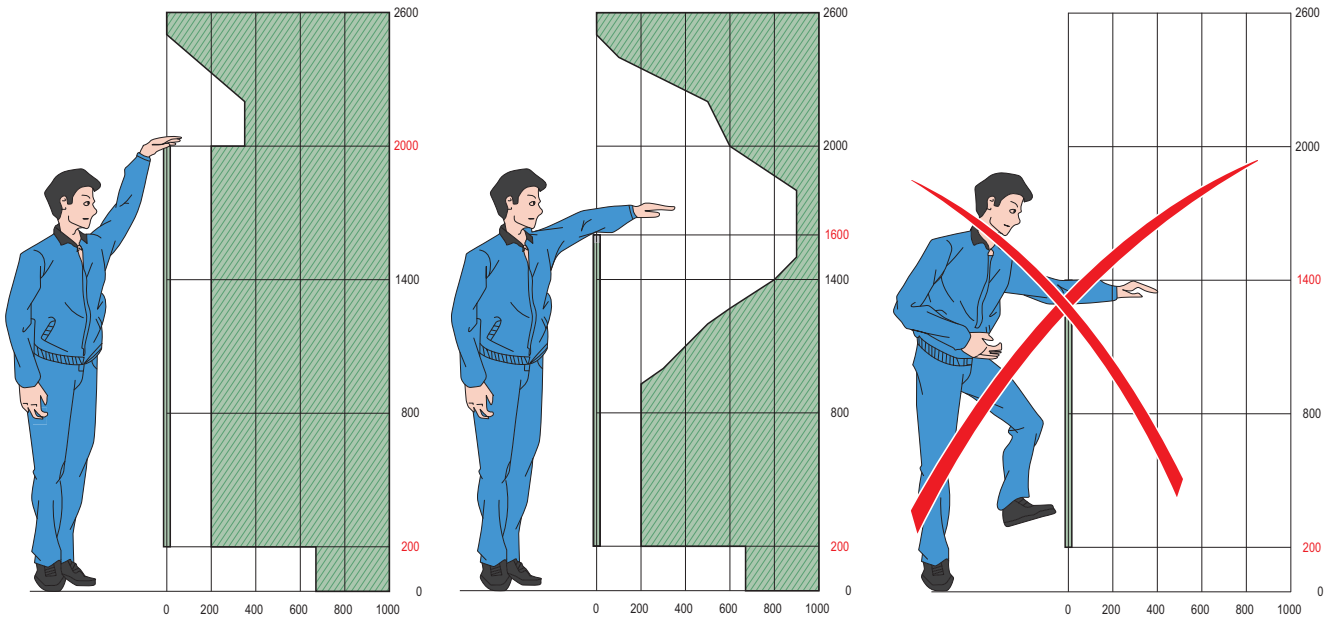
✘ Using protective grille profile insert panel is more economic and quick. However the leakproofness is not as good as the clamping profile, and the thickness of panel also limited to 3 to 5mm. The panel thickness of standard units are all 4mm, if there is no special request on panel thickness, the protective grille profile is recommended.

防护网型材夹板比防护罩型材更经济便捷，但密封性不如防护罩型材且板厚度可选范围受局限。标准防护单元板厚度均为4mm，如需要特殊板厚建议选用防护罩型材。

Safety Distance  
安全防护区域

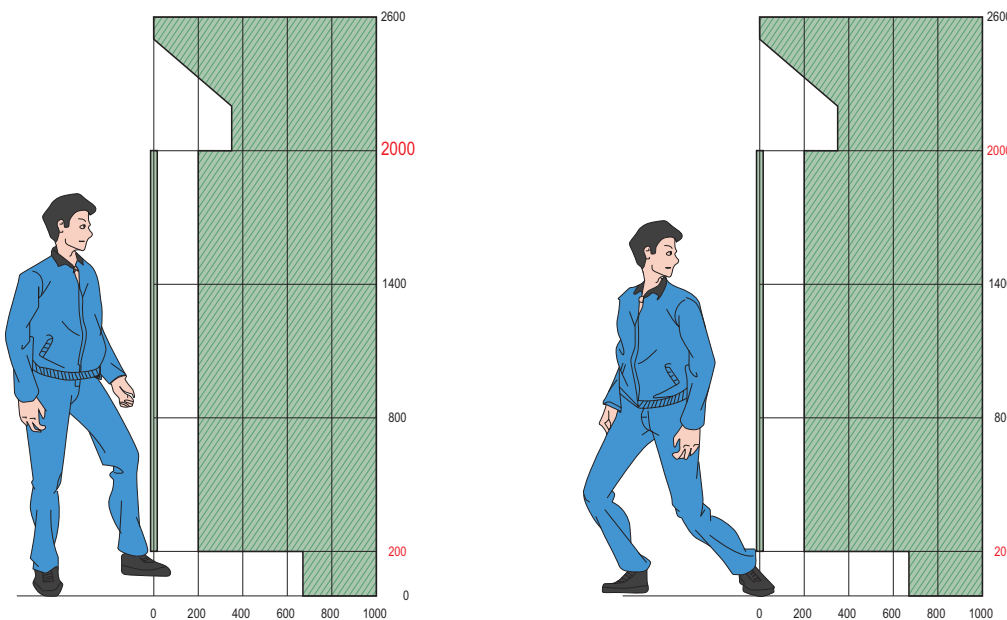
Machine guard system offers protection against parts that fly out, leaking liquid materials or similar things. The safety distances are dependent on the machine guard height. As figure indicated (safety area is marked in green shadow): Safety distance should be 200mm away from the machine guard. When the height of machine guard is 2000mm, there is still a small part of distance around 350mm from the top cannot get security protection, and it cannot guarantee sufficient safety if the height is less than 1400mm.

机械防护系统用于机械设备运行时对人员可能造成危害危险的有效保护。机械防护系统所能防护的区域取决于防护单元的高度。如图所示(绿色阴影部分为安全防护区域): 防护单元以外200mm为安全防护区域。当防护单元高度为2000mm时, 其顶端仍有一小部分距离约为350mm的区域无法得到安全防护。当防护单元高度小于1400mm时, 将无法起到安全防护的作用。



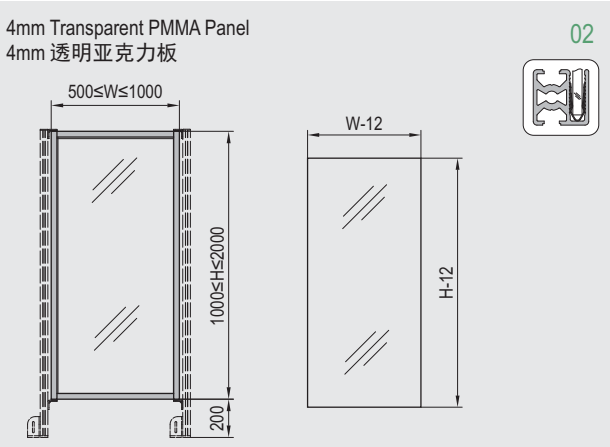
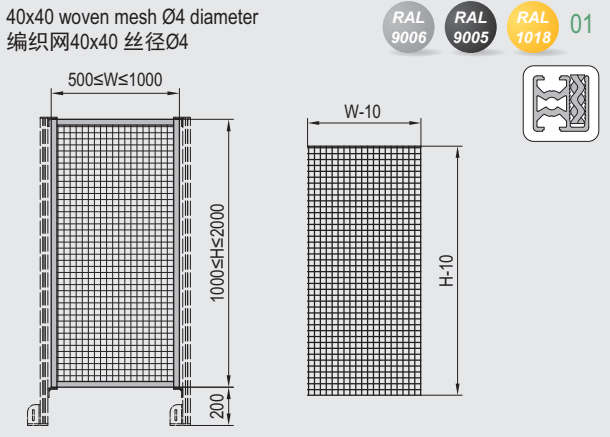
The height from the floor is 200mm. As figure indicated (safety area is marked in green shadow): The distance of 650mm in the foot area cannot get sufficient safety protection.

防护单元距离地面的高度为200mm。如图所示(绿色阴影部分为安全防护区域): 防护单元底部650mm的距离内无法得到安全防护。



Protective Grille Unit  
防护网单元

PG30 Type A  
30系列 A型

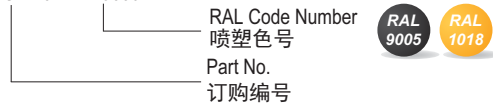


Description 描述	H (mm)	W (mm)	Mass 重量(kg)	Part No. 订购编号
PG30-Type A-01 30系列-A型-01	1400	425	6.5	PN30.14000425.STA.01
		675	8.8	PN30.14000675.STA.01
		925	11	PN30.14000925.STA.01
	1800	425	8.2	PN30.18000425.STA.01
		675	10.9	PN30.18000675.STA.01
		925	13.7	PN30.18000925.STA.01
PG30-Type A-02 30系列-A型-02	1400	425	6.5	PN30.14000425.STA.02
		675	8.7	PN30.14000675.STA.02
		925	10.8	PN30.14000925.STA.02
	1800	425	8.1	PN30.18000425.STA.02
		675	10.7	PN30.18000675.STA.02
		925	12.9	PN30.18000925.STA.02

Item Number Reference/ 订购编号解析:

The part number is for gray woven mesh in the default configuration, please specify with RAL code if other color is required, such as RAL9005 for black, RAL1018 for yellow.  
现订购编号默认编织网喷塑颜色为灰色(RAL9006), 如需黑色(RAL9005)或黄色(RAL1018)等其它颜色, 需在现订购编号后追加色标号。

ex: PN30.14000425.STA.01-RAL9005



Associated kits (To be ordered separately)  
配套组件(需单独订购)



Strut Elements ..... Page 19-24  
立柱单元



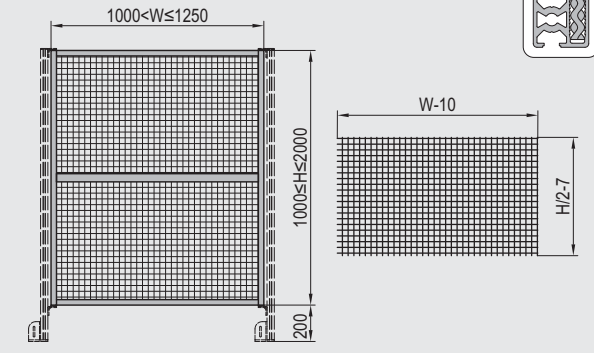
Connecting Element ..... Page 25  
连接组件

Protective Grille Unit  
防护网单元

PG30 Type B  
30系列 B型

40x40 woven mesh Ø4 diameter  
编织网40x40 丝径Ø4

RAL 9006 RAL 9005 RAL 1018 01



Description 描述	H (mm)	W (mm)	Mass 重量(kg)	Part No. 订购编号
PG30-Type B-01 30系列-B型-01	1400	1175	14.6	PN30.14001175.STB.01
	1800		17.8	PN30.18001175.STB.01
PG30-Type B-02 30系列-B型-02	1400		14.4	PN30.14001175.STB.02
	1800		17.5	PN30.18001175.STB.02

Item Number Reference/ 订购编号解析:

The part number is for gray woven mesh in the default configuration, please specify with RAL code if other color is required, such as RAL9005 for black, RAL1018 for yellow.

现订购编号默认编织网喷塑颜色为灰色(RAL9006), 如需黑色(RAL9005)或黄色(RAL1018)等其它颜色, 需在现订购编号后追加色标号。

ex: PN30.14001175.STB.01-RAL9005

RAL Code Number  
喷塑色号



Part No.  
订购编号

Associated kits (To be ordered separately)  
配套组件(需单独订购)



Strut Elements  
立柱单元

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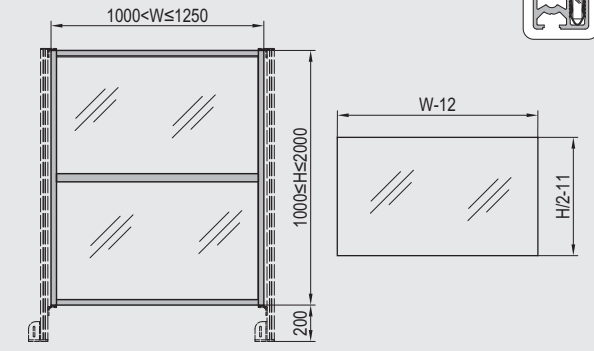


Connecting Element  
连接组件

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4mm Transparent PMMA Panel  
4mm 透明亚克力板

02

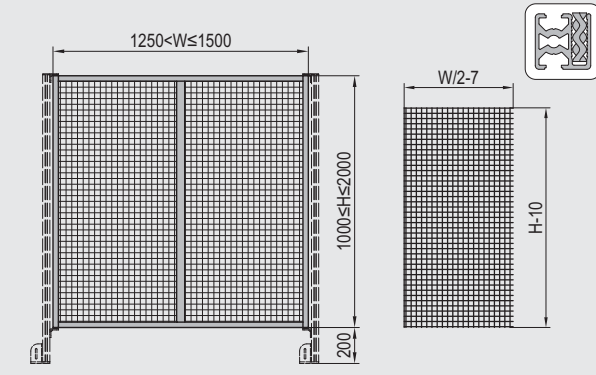


Protective Grille Unit  
防护网单元

PG30 Type C  
30系列 C型

40x40 woven mesh Ø4 diameter  
编织网40x40 丝径Ø4

RAL 9006 RAL 9005 RAL 1018 01



Description 描述	H (mm)	W (mm)	Mass 重量(kg)	Part No. 订购编号
PG30-Type C-01 30系列-C型-01	1400	1425	17.1	PN30.14001425.STC.01
	1800		21.3	PN30.18001425.STC.01
PG30-Type C-02 30系列-C型-02	1400		16.9	PN30.14001425.STC.02
	1800		20.9	PN30.18001425.STC.02

Item Number Reference/ 订购编号解析:

The part number is for gray woven mesh in the default configuration, please specify with RAL code if other color is required, such as RAL9005 for black, RAL1018 for yellow. 现订购编号默认编织网喷塑颜色为灰色(RAL9006), 如需黑色(RAL9005)或黄色(RAL1018)等其它颜色, 需在现订购编号后追加色标号。

ex: PN30.14001425.STC.01-RAL9005

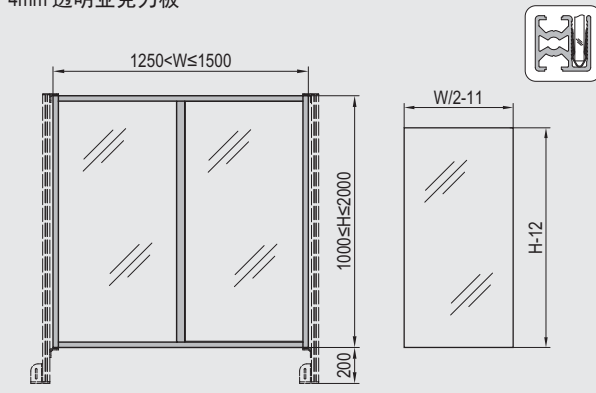
RAL Code Number  
喷塑色号



Part No.  
订购编号

4mm Transparent PMMA Panel  
4mm 透明亚克力板

02



Associated kits (To be ordered separately)  
配套组件(需单独订购)



Strut Elements  
立柱单元

Page 19-24

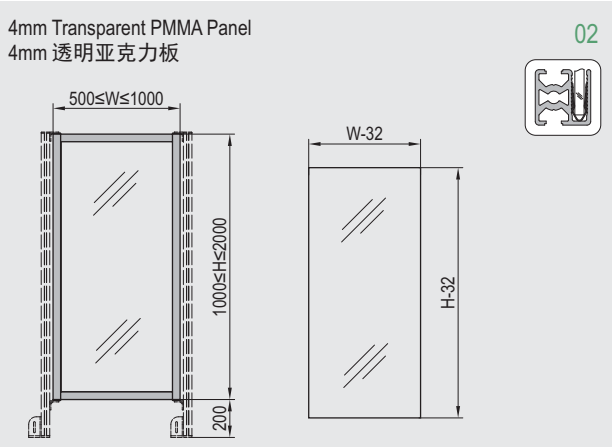
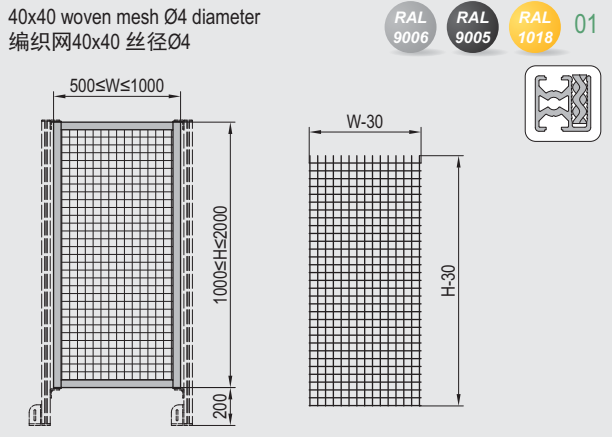


Connecting Element  
连接组件

Page 25

Protective Grille Unit  
防护网单元

PG40 Type A  
40系列 A型

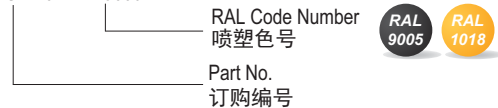


Description 描述	H (mm)	W (mm)	Mass 重量(kg)	Part No. 订购编号
PG40-Type A-01 40系列-A型-01	1400	420	8.3	PN40.14000420.STA.01
		670	10.8	PN40.14000670.STA.01
		920	13.4	PN40.14000920.STA.01
	1800	420	10.4	PN40.18000420.STA.01
		670	13.4	PN40.18000670.STA.01
		920	16.4	PN40.18000920.STA.01
PG40-Type A-02 40系列-A型-02	1400	420	8.3	PN40.14000420.STA.02
		670	10.7	PN40.14000670.STA.02
		920	13.2	PN40.14000920.STA.02
	1800	420	10.3	PN40.18000420.STA.02
		670	12.5	PN40.18000670.STA.02
		920	16.2	PN40.18000920.STA.02

Item Number Reference/ 订购编号解析:

The part number is for gray woven mesh in the default configuration, please specify with RAL code if other color is required, such as RAL9005 for black, RAL1018 for yellow.  
现订购编号默认编织网喷塑颜色为灰色(RAL9006), 如需黑色(RAL9005)或黄色(RAL1018)等其它颜色, 需在现订购编号后追加色标号。

ex: PN40.14000420.STA.01-RAL9005



Associated kits (To be ordered separately)  
配套组件(需单独订购)



Strut Elements ..... Page 19-24  
立柱单元

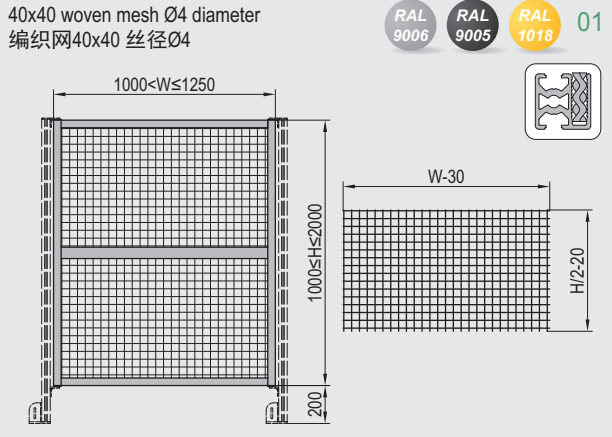


Connecting Element ..... Page 25  
连接组件



Protective Grille Unit  
防护网单元

PG40 Type B  
40系列 B型



Description 描述	H (mm)	W (mm)	Mass 重量(kg)	Part No. 订购编号
PG40-Type B-01 40系列-B型-01	1400	1170	18.1	PN40.14001170.STB.01
	1800		21.6	PN40.18001170.STB.01
PG40-Type B-02 40系列-B型-02	1400		17.9	PN40.14001170.STB.02
	1800		23.4	PN40.18001170.STB.02

Item Number Reference/ 订购编号解析:

The part number is for gray woven mesh in the default configuration, please specify with RAL code if other color is required, such as RAL9005 for black, RAL1018 for yellow.

现订购编号默认编织网喷塑颜色为灰色(RAL9006), 如需黑色(RAL9005)或黄色(RAL1018)等其它颜色, 需在现订购编号后追加色标号。

ex: PN40.14001170.STB.01-RAL9005

RAL Code Number  
喷塑色号



Part No.  
订购编号

Associated kits (To be ordered separately)  
配套组件(需单独订购)



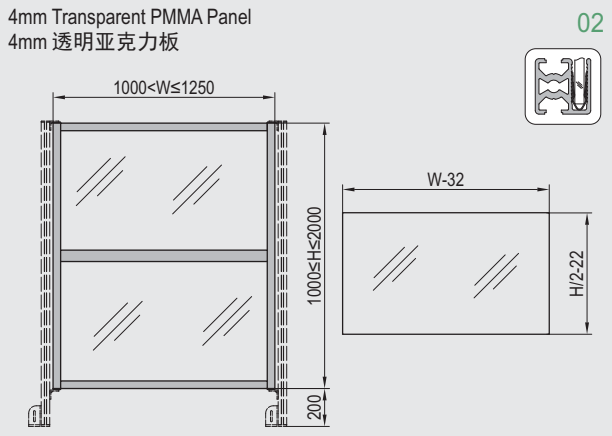
Strut Elements  
立柱单元

Page 19-24



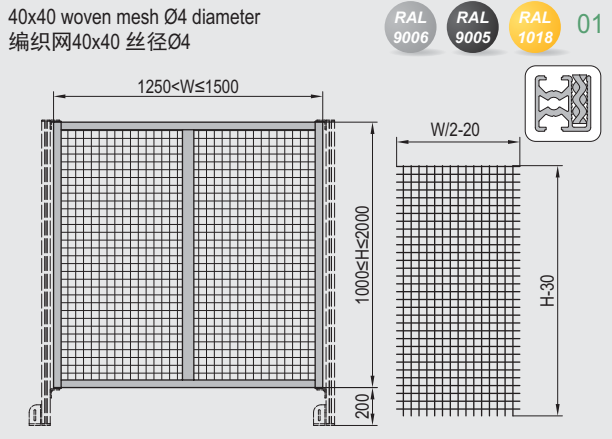
Connecting Element  
连接组件

Page 25



Protective Grille Unit  
防护网单元

PG40 Type C  
40系列 C型



Description 描述	H (mm)	W (mm)	Mass 重量(kg)	Part No. 订购编号
PG40-Type C-01 40系列-C型-01	1400	1420	21	PN40.14001420.STC.01
	1800		25.9	PN40.18001420.STC.01
PG40-Type C-02 40系列-C型-02	1400		20.8	PN40.14001420.STC.02
	1800		25.5	PN40.18001420.STC.02

Item Number Reference/ 订购编号解析:

The part number is for gray woven mesh in the default configuration, please specify with RAL code if other color is required, such as RAL9005 for black, RAL1018 for yellow.

现订购编号默认编织网喷塑颜色为灰色(RAL9006), 如需黑色(RAL9005)或黄色(RAL1018)等其它颜色, 需在现订购编号后追加色标号。

ex: PN40.14001420.STC.01-RAL9005

RAL Code Number  
喷塑色号



Part No.  
订购编号

Associated kits (To be ordered separately)  
配套组件(需单独订购)



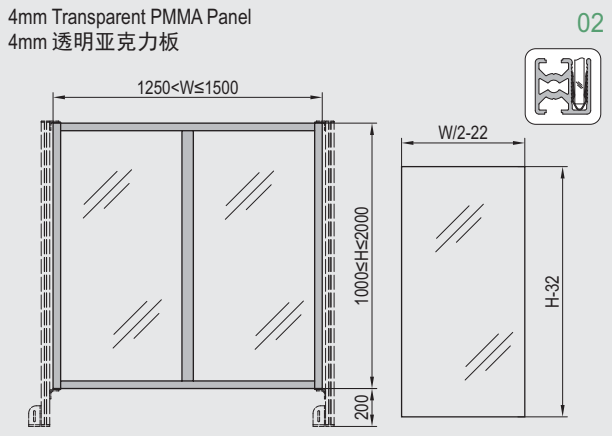
Strut Elements  
立柱单元

Page 19-24



Connecting Element  
连接组件

Page 25



Protective Grille Profile  
防护网型材



30x30 1 Grille slot  
30x30 1槽



30x45 2 Grille slots  
30x45 2槽



40x40 1 Grille slot  
40x40 1槽

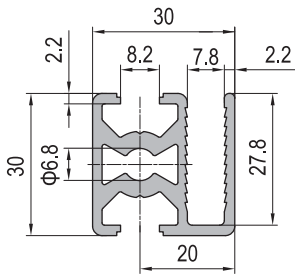


40x60 2 Grille slots  
40x60 2槽

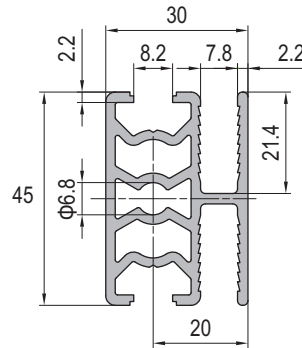
Protective grille profile could insert not only the meshes but also the panels, and the spring clamping nut will be used if inserting panels, the recommended distance of nut is 300mm (refer to Page 14).

防护网型材既可安装编织网、焊接网又可安装有机玻璃、亚克力等板状物。安装板状物时需配合夹板弹片使用，建议间距为300mm(参照 Page 14)。

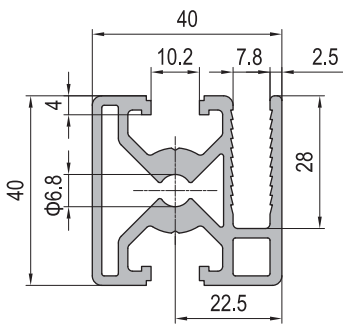
PG30 30x30 1 Grille slot  
30系列30x30 1槽



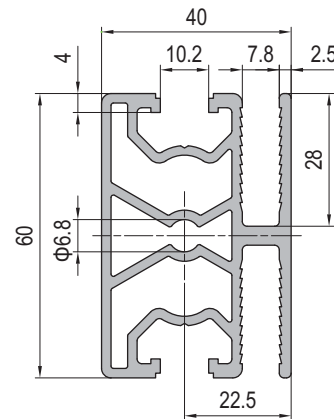
PG30 30x45 2 Grille slots  
30系列30x45 2槽



PG40 40x40 1 Grille slot  
40系列40x40 1槽



PG40 40x60 2 Grille slots  
40系列40x60 2槽

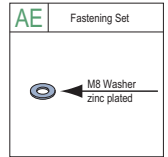
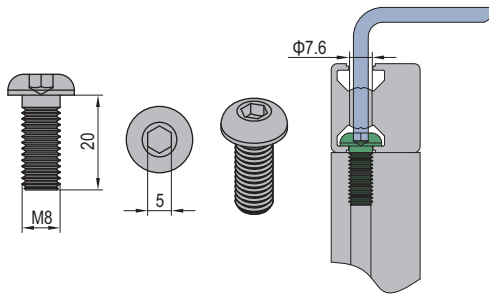
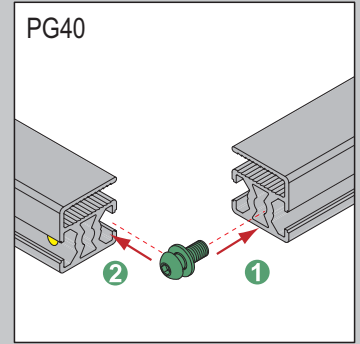
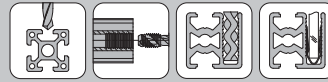


Description 描述	Moment of Inertia 惯性矩 Ix(cm <sup>4</sup> )	Moment of Inertia 惯性矩 Iy(cm <sup>4</sup> )	Moment of Resistance 弯矩 Wx(cm <sup>3</sup> )	Moment of Resistance 弯矩 Wy(cm <sup>3</sup> )	Mass 重量 (kg/m)	Part No. 订购编号
Protective Grille Profile PG30 30x30 1 Grille slot 防护网型材 30系列 30x30 1槽	3.37	2.47	2.2	1.6	0.94	1.22.30.030030.01
Protective Grille Profile PG30 30x45 2 Grille slots 防护网型材 30系列 30x45 2槽	7.22	4.67	4.81	2.08	1.24	1.22.30.030045.02
Protective Grille Profile PG40 40x40 1 Grille slot 防护网型材 40系列 40x40 1槽	9.85	8.05	4.93	4.03	1.6	1.22.40.040040.01
Protective Grille Profile PG40 40x60 2 Grille slots 防护网型材 40系列 40x60 2槽	23.25	13.57	11.63	4.52	2.0	1.22.40.040060.02



**Bolt Connector**  
螺栓连接件

A simple and economic way to replace end connector with more connection reliability.  
连接方式更简单便捷。  
Material: zinc plated steel  
材质: 碳钢镀锌

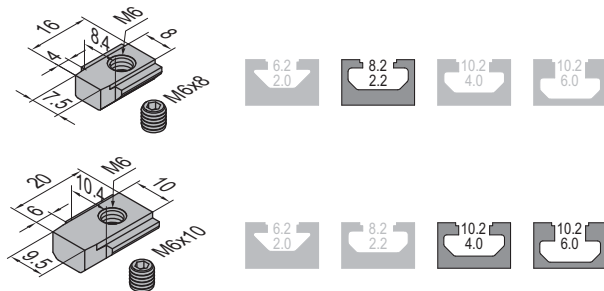
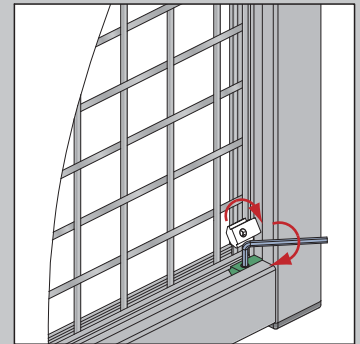


Description 描述	Fastening Set 紧固组件	Mass 重量(g)	Part No. 订购编号
Bolt Connector-PG30 螺栓连接件-30系列		10	3.81.M8.20
Bolt Connector-PG40 螺栓连接件-40系列	1xAE	12	3.81.M8.20.ST



**Anti-torsion Subsequent Nut**  
防扭后置螺母

Prevent torsion from connecting profiles with screw connectors.  
防扭后置螺母用于防止型材之间安装时或受外力时的扭转。  
Material: nickel plated steel  
材质: 碳钢镀镍

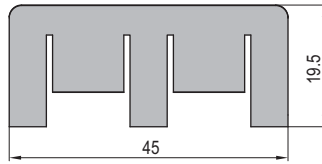
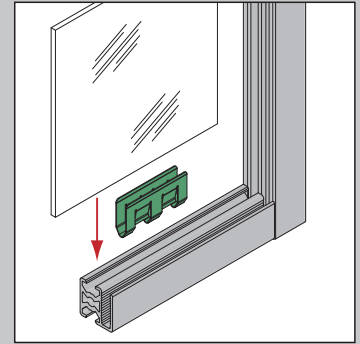


Description 描述	Mass 重量(g)	Part No. 订购编号
Anti-torsional Subsequent Nut-8 (with top thread) 8槽防扭后置螺母(含凹端顶丝)	10	2.32.08.M6
Anti-torsional Subsequent Nut-10 (with top thread) 10槽防扭后置螺母(含凹端顶丝)	15	2.32.10.M6



**Spring Clamping Nut**  
夹板弹片

Spring clamping nut has to be used when inserting panels and recommend installing distance is 300mm.  
安装板状物时需配合夹板弹片使用，建议夹板弹片安装距离为300mm。  
Material: spring steel  
材质：优质弹簧钢

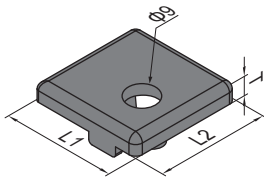
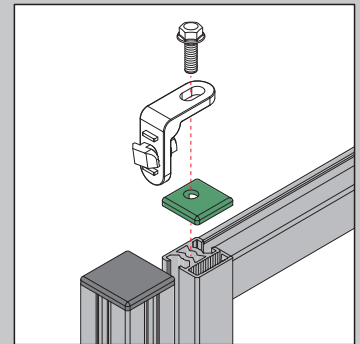


Description 描述	Mass 重量(g)	Part No. 订购编号
Spring Clamping Nut 夹板弹片	7	6.42.01



**End Cap for Protective Grille Profile**  
防护网型材端盖

To prevent injury and improve end appearance, the bore hole enables assembly of profile and connectors.  
端盖可以预防划伤,使型材更美观;中心孔用于实现型材与螺栓的连接。  
Material: Black ABS  
材质: ABS 颜色: 黑色



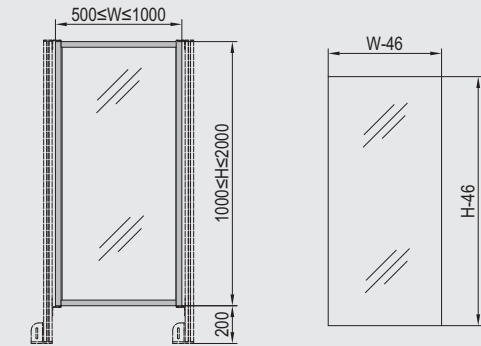
Description 描述	L1 (mm)	L2 (mm)	T (mm)	Mass 重量(g)	Part No. 订购编号
End Cap for Protective Grille Profile- PG30-3030 防护网型材端盖-30系列-3030	30	30	5	4	4.13.30.3030.SM
End Cap for Protective Grille Profile- PG40-4040 防护网型材端盖-40系列-4040	40	40		6	4.13.40.4040.SM

Clamping Profile Unit  
防护罩单元

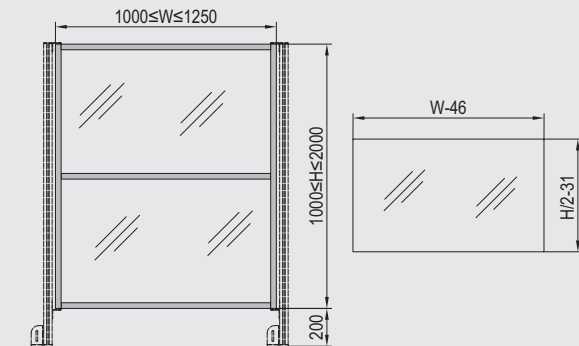
PG30  
30系列  
4mm Transparent PMMA Panel  
4mm 透明亚克力板



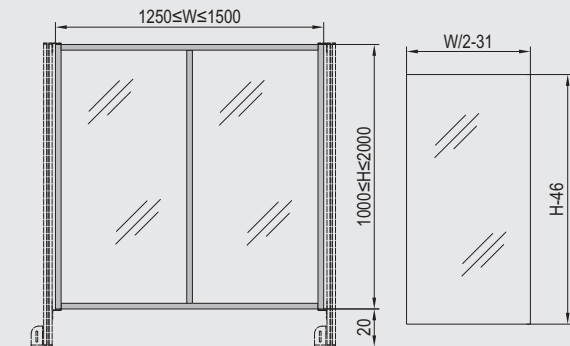
Type A  
A型



Type B  
B型



Type C  
C型



Description 描述	H (mm)	W (mm)	Mass 重量(kg)	Part No. 订购编号
PG30-Type A 30系列-A型	1400	425	6.4	PP30.14000425.STA
		675	8.6	PP30.14000675.STA
		925	10.8	PP30.14000925.STA
	1800	425	8	PP30.18000425.STA
		675	10.7	PP30.18000675.STA
		925	13.4	PP30.18000925.STA
PG30-Type B 30系列-B型	1400	1175	15.2	PP30.14001175.STB
	1800		18.2	PP30.18001175.STB
PG30-Type C 30系列-C型	1400	1425	17.8	PP30.14001425.STC
	1800		21.3	PP30.18001425.STC

Associated kits (To be ordered separately)  
配套组件(需单独订购)



Strut Elements  
立柱单元 ..... Page 19-24



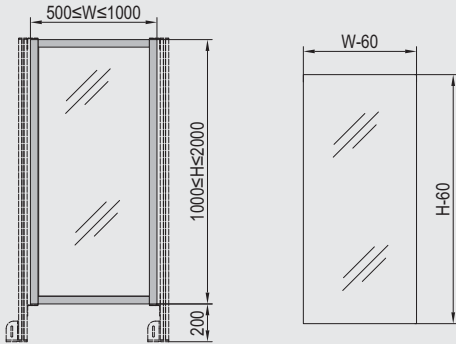
Connecting Element  
连接组件 ..... Page 25

Clamping Profile Unit  
防护罩单元

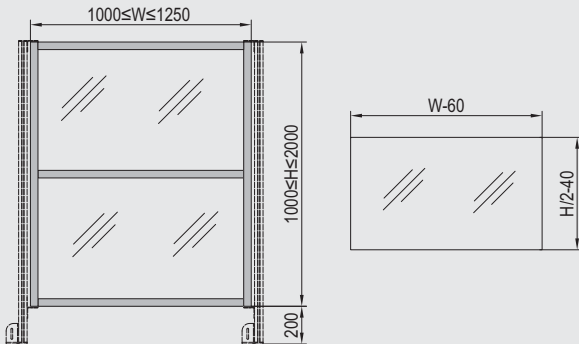
PG40  
40系列  
4mm Transparent PMMA Panel  
4mm 透明亚克力板



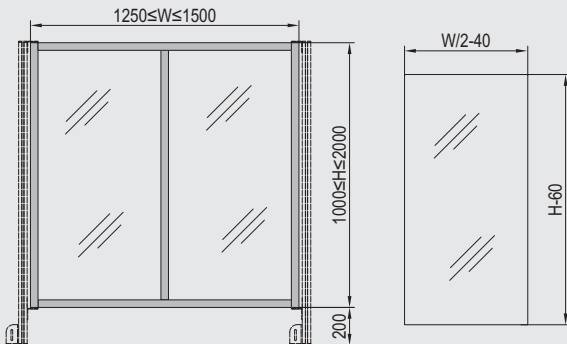
Type A  
A型



Type B  
B型



Type C  
C型



Description 描述	H (mm)	W (mm)	Mass 重量(kg)	Part No. 订购编号
PG40-Type A 40系列-A型	1400	420	10.2	PP40.14000420.STA
		670	12.9	PP40.14000670.STA
		920	15.6	PP40.14000920.STA
	1800	420	12.6	PP40.18000420.STA
		670	15.8	PP40.18000670.STA
		920	19	PP40.18000920.STA
PG40-Type B 40系列-B型	1400	1170	20.9	PP40.14001170.STB
	1800		24.8	PP40.18001170.STB
PG40-Type C 40系列-C型	1400	1420	24.2	PP40.14001420.STC
	1800		28.5	PP40.18001420.STC

Associated kits (To be ordered separately)  
配套组件(需单独订购)



Strut Elements  
立柱单元 ..... Page 19-24



Connecting Element  
连接组件 ..... Page 25

Clamping Profile  
 防护罩型材

 30x30 1 Clamping slot  
 30x30 1 镶槽

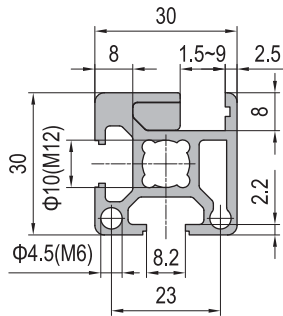
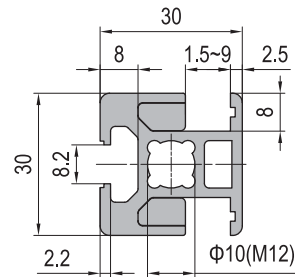
 30x30 2 Clamping slots Parallel  
 30x30 2 镶槽 P型

 40x40 1 Clamping slot  
 40x40 1 镶槽

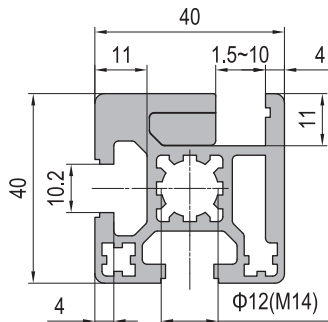
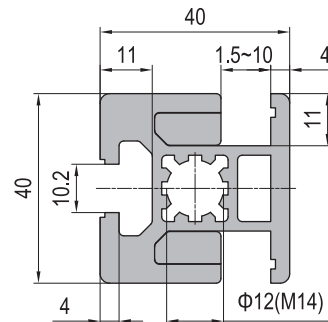
 40x40 2 Clamping slots Parallel  
 40x40 2 镶槽 P型

Clamping profiles only could insert the panels with thickness range of 1.5-9mm for PG30 and 1.5-10mm for PG40, and machining will be needed on the profiles to fasten the panels in appropriate positions, the recommended distance of machining is 300mm.

防护罩型材只能用于板状物的安装，板厚度范围：30系列为1.5-9mm，40系列为1.5-10mm，安装时需要在型材上加工顶丝孔，建议顶丝安装间距为300mm。

 PG30 30x30 1 Clamping slot  
 30系列30x30 1 镶槽

 PG30 30x30 2 Clamping slots Parallel  
 30系列30x30 2 镶槽 P型


※ M4x10mm top thread recommended for PG30 profile (panel thickness 3-5mm)  
 ※ 30系列, 顶丝建议选用M4x10 (适用3-5mm板)。

 PG40 40x40 1 Clamping slot  
 40系列40x40 1 镶槽

 PG40 40x40 2 Clamping slots Parallel  
 40系列40x40 2 镶槽 P型


※ M4x12mm top thread recommended for PG40 profile (panel thickness 3-5mm).  
 ※ 40系列, 顶丝建议选用M4x12 (适用3-5mm板)。

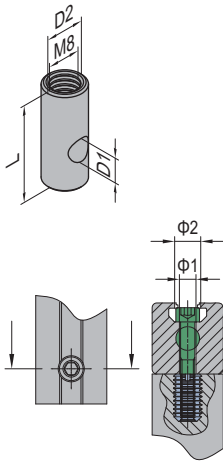
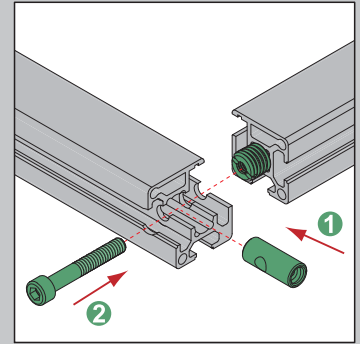
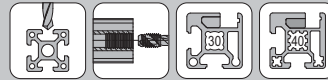
Description 描述	Moment of Inertia 惯性矩 Ix(cm <sup>4</sup> )	Moment of Inertia 惯性矩 Iy(cm <sup>4</sup> )	Moment of Resistance 弯矩 Wx(cm <sup>3</sup> )	Moment of Resistance 弯矩 Wy(cm <sup>3</sup> )	Mass 重量 (kg/m)	Part No. 订购编号
Clamping Profile PG30 30x30 1 Clamping slot 防护罩型材 30系列 30x30 1 镶槽	3.7	2.7	1.8	1.4	1.1	1.21.30.030030.01
Clamping Profile PG30 30x30 2 Clamping slots Parallel 防护罩型材 30系列 30x30 2 镶槽 P型	3.5	3.3	2.2	2.2	1.3	1.21.30.030030.02P
Clamping Profile PG40 40x40 1 Clamping slot 防护罩型材 40系列 40x40 1 镶槽	12.3	9.5	4.4	3.4	2.2	1.21.40.040040.01
Clamping Profile PG40 40x40 2 Clamping slots Parallel 防护罩型材 40系列 40x40 2 镶槽 P型	12.4	12.1	5.8	6.1	2.6	1.21.40.040040.02P





**Bushing**  
连接套

To realize quick installation of clamping profile unit with connecting elements.  
用于实现防护单元与连接组件的快速安装。  
Material : zinc plated steel  
材质：碳钢镀锌



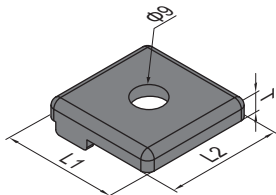
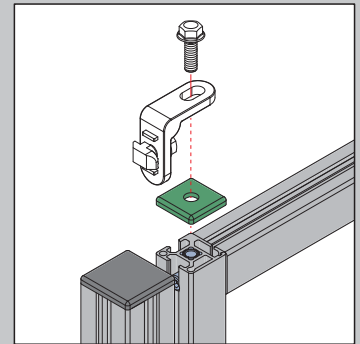
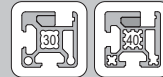
CI	Fastening Set	GD	Fastening Set
	M6x40 Bolt zinc plated		M8x45 Bolt zinc plated
	M12→M6 Hole Reducer Bolt nickel plated		M14→M8 Hole Reducer Bolt nickel plated

Description 描述	L	D1	D2	φ1	φ2	Fastening Set 紧固组件	Mass 重量(g)	Part No. 订购编号
Bushing-PG30 (set) 连接套-30系列 (成套供货)	25	6	10	7	11	1xCI	20	PPJ30.ST
Bushing-PG40 (set) 连接套-40系列 (成套供货)	30	8	12	9	14	1xGD	40	PPJ40.ST



**End Cap for Clamping Profile**  
防护罩型材端盖

To prevent injury and improve end appearance, the bore hole enables assembly of profile and connectors.  
端盖可以预防划伤,使型材更美观;中心孔用于实现型材与螺栓的连接。  
Material: Black ABS  
材质: ABS 颜色: 黑色



Description 描述	L1 (mm)	L2 (mm)	T (mm)	Mass 重量(g)	Part No. 订购编号
End Cap for Clamping Profile-PG30-3030 防护罩型材端盖-30系列-3030	30	30	5	4	4.12.30.3030.SM
End Cap for Clamping Profile-PG40-4040 防护罩型材端盖-40系列-4040	40	40		6	4.12.40.4040.SM

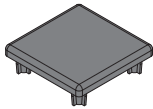


Strut Elements  
立柱单元

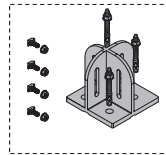
PG30 machine guard unit: H=1400mm, PG40 40x40 light strut profile recommended;  
H=1800mm, special PG40 40x80 profile for strut elements recommended  
PG40 machine guard unit: H=1400mm, PG45 45x45 light strut profile recommended;  
H=1800mm, special PG45 45x90 profile for strut elements recommended  
30系列防护单元: 当H=1400时, 建议选用40x40轻型立柱型材;  
当H=1800时, 建议选用40x80专用立柱型材;  
40系列防护单元: 当H=1400时, 建议选用45x45轻型立柱型材;  
当H=1800时, 建议选用45x90专用立柱型材;



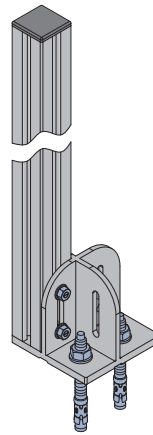
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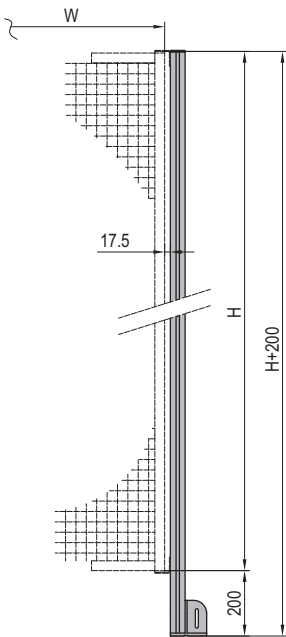
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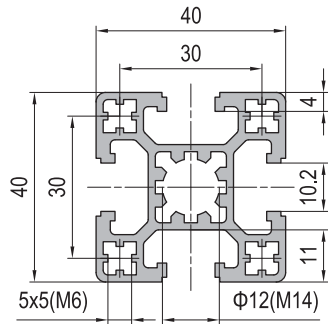


Description 描述	Strut Profile 立柱型材	H (mm)	Part No. 订购编号
Strut Elements H1400 立柱单元 H1400	40x40L	1400	PBH1400.4040.ST
	40x80		PBH1400.4080.SE.ST
	45x45L		PBH1400.4545.ST
	45x90		PBH1400.4590.SE.ST
Strut Elements H1800 立柱单元 H1800	40x40L	1800	PBH1800.4040.ST
	40x80		PBH1800.4080.SE.ST
	45x45L		PBH1800.4545.ST
	45x90		PBH1800.4590.SE.ST

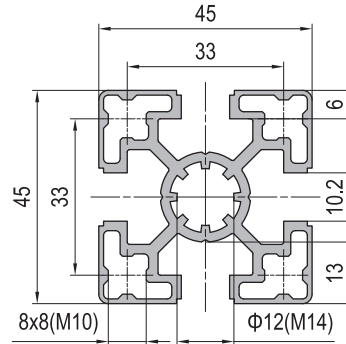
Components for Strut Elements  
立柱单元组件

Profile for strut elements  
防护立柱型材

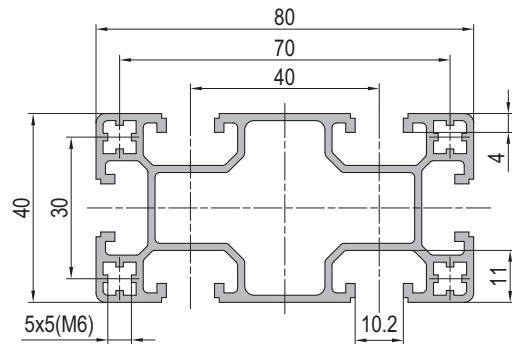
PG40 40x40 4 slots light  
40系列40x40 4槽 轻型



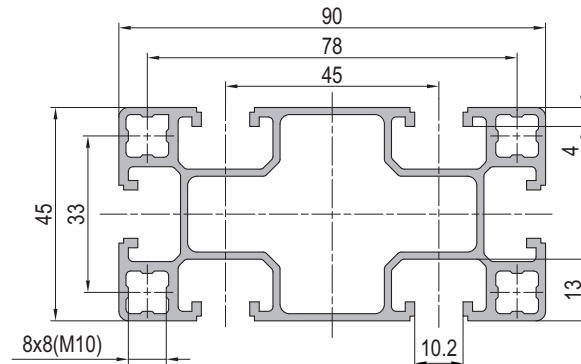
PG45 45x45 4 slots Light  
45系列45x45 4槽 轻型



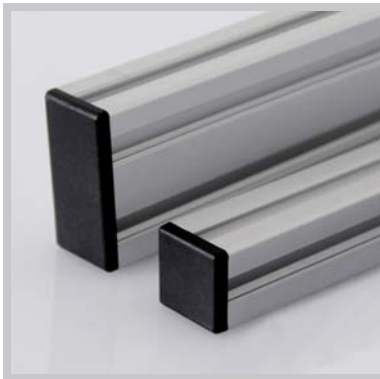
PG40 40x80 6 slots For strut elements  
40系列40x80 6槽 防护立柱专用



PG45 45x90 6 slots For strut elements  
45系列45x90 6槽 防护立柱专用



Description 描述	Moment of Inertia 惯性矩 $I_x(\text{cm}^4)$	Moment of Inertia 惯性矩 $I_y(\text{cm}^4)$	Moment of Resistance 弯矩 $W_x(\text{cm}^3)$	Moment of Resistance 弯矩 $W_y(\text{cm}^3)$	Mass 重量 (kg/m)	Part No. 订购编号
Strut Profile PG40 40x40 4 slots Light 基础框架型材 40系列 40x40 4槽 轻型	8.6	8.6	4.3	4.3	1.5	1.11.40.040040.04L
PG40 40x80 6 slots For strut elements 40系列 40x80 6槽 防护立柱专用	13.6	50.7	6.8	12.7	1.83	1.42.40.040080.06.SE
Strut Profile PG45 45x45 4 slots Light 基础框架型材 45系列 45x45 4槽 轻型	10.5	10.5	4.7	4.7	1.6	1.11.45.045045.04L
PG45 45x90 6 slots For strut elements 45系列 45x90 6槽 防护立柱专用	20.1	77.2	8.9	17.2	2.2	1.42.45.045090.06.SE



End Cap  
端盖

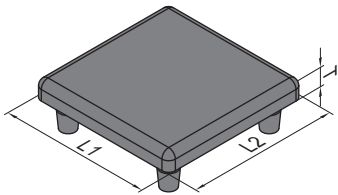
To prevent staff from any injury and improve profile end appearance.

端盖可以预防划伤,使型材更美观。

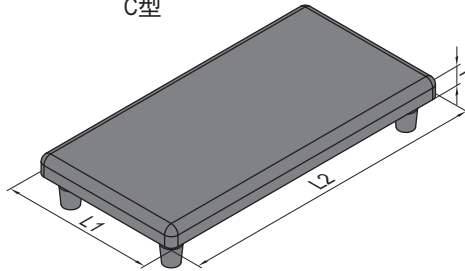
Material and Color: black ABS

材质: ABS 颜色: 黑色

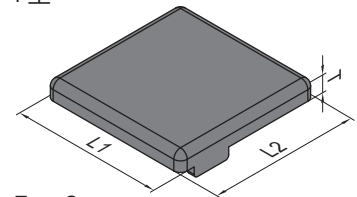
Type B  
B型



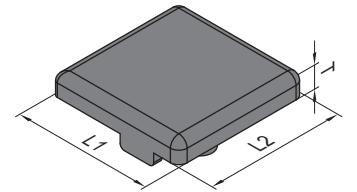
Type C  
C型



Type F  
F型



Type G  
G型

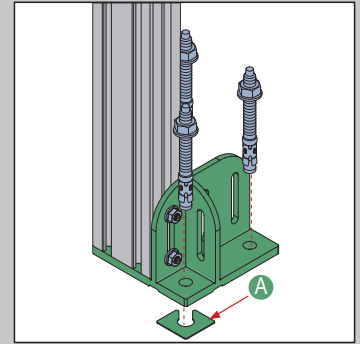


	Description 描述	L1 (mm)	L2 (mm)	T (mm)	Mass 重量(g)	Part No. 订购编号
Type B B型	End Cap-PG40-4040 端盖-40系列-4040	40	40	5	6	4.11.40.4040
	End Cap-PG45-4545 端盖-45系列-4545	45	45		8	4.11.45.4545
Type C C型	End Cap-PG40-4080 端盖-40系列-4080	40	80	5	13	4.11.40.4080
	End Cap-PG45-4590 端盖-45系列-4590	45	90		16	4.11.45.4590
Type F F型	End Cap-Clamping Profile PG30-3030 端盖-30防护罩系列-3030	30	30	5	4	4.12.30.3030
	End Cap-Clamping Profile PG40-4040 端盖-40防护罩系列-4040	40	40		6	4.12.40.4040
Type G G型	End Cap-Protective Grille Profile PG30-3030 端盖-30防护网系列-3030	30	30	5	4	4.13.30.3030
	End Cap-Protective Grille Profile PG40-4040 端盖-40防护网系列-4040	40	40		6	4.13.40.4040

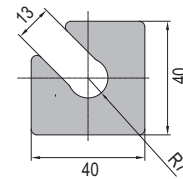
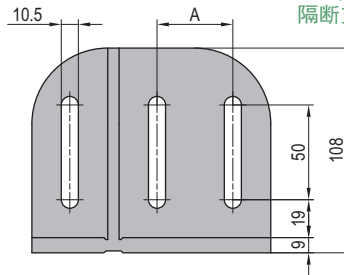
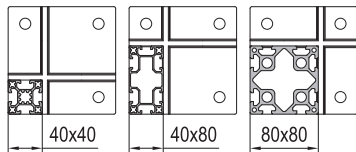
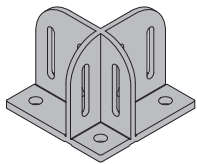


**Base Plate**  
隔断支脚

To support strut profile at the bottom. Expansion bolts chocked into floor can offer a high stability.  
隔断支脚用于防护单元之间型材的底部支撑, 使用膨胀螺栓置于地下更能提高稳定性。  
Material and surface treatment: cast steel, black electrophoresis  
材质: 铸钢 表面处理: 黑色电泳



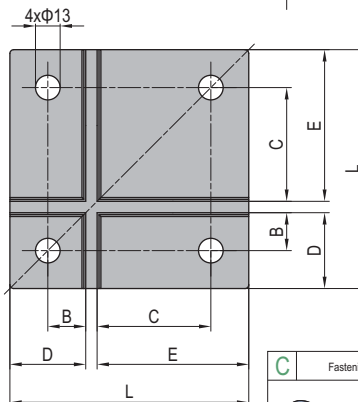
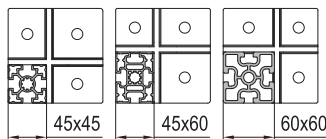
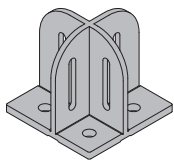
Base Plate 4080  
隔断支脚 4080



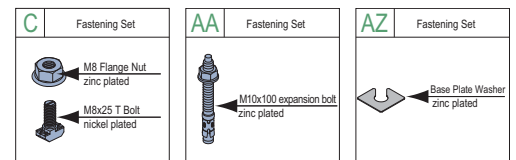
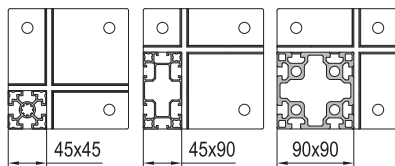
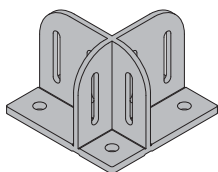
**A** Base Plate Gasket  
隔断支脚垫片

To adjust the degree of vertical profile and uneven ground.  
隔断支脚垫片用于地面不平, 调整型材与地面垂直度。

Base Plate 4560  
隔断支脚 4560



Base Plate 4590  
隔断支脚 4590



Description 产品描述	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Fastening Set 紧固组件	Mass 重量 (g)	Part No. 订购编号
Base Plate-4080 (pcs)/隔断支脚-4080 (单个供货)	126	40	20	60	40	80	2xAZ	1930	5.11.4080
Base Plate-4080 (set A)/隔断支脚-4080 (成套供货A)							4xC+3xAA+2xAZ	2240	5.11.4080.STA
Base Plate-4080 (set B)/隔断支脚-4080 (成套供货B)							6xC+3xAA+2xAZ	2290	5.11.4080.STB
Base Plate-4080 (set C)/隔断支脚-4080 (成套供货C)							8xC+3xAA+2xAZ	2340	5.11.4080.STC
Base Plate-4560 (pcs)/隔断支脚-4560 (单个供货)	111		22.5	30	45	60	2xAZ	1600	5.11.4560
Base Plate-4560 (set)/隔断支脚-4560 (成套供货)							4xC+3xAA+2xAZ	1910	5.11.4560.ST
Base Plate-4590 (pcs)/隔断支脚-4590 (单个供货)	141	45	22.5	67.5	45	90	2xAZ	2330	5.11.4590
Base Plate-4590 (set A)/隔断支脚-4590 (成套供货A)							4xC+3xAA+2xAZ	2640	5.11.4590.STA
Base Plate-4590 (set B)/隔断支脚-4590 (成套供货B)							6xC+3xAA+2xAZ	2690	5.11.4590.STB
Base Plate-4590 (set C)/隔断支脚-4590 (成套供货C)							8xC+3xAA+2xAZ	2740	5.11.4590.STC
Base Plate Gasket/隔断支脚垫片 <b>A</b>								9	5.11.01

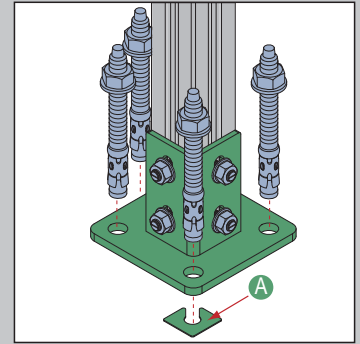




**Base Plate**  
隔断支脚



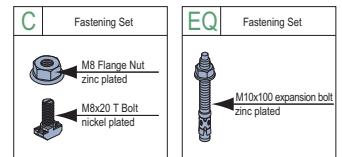
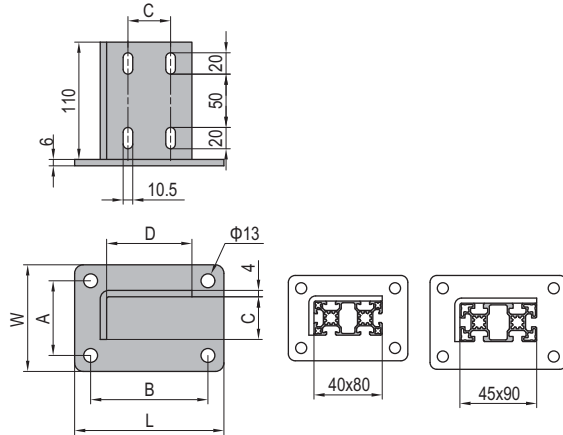
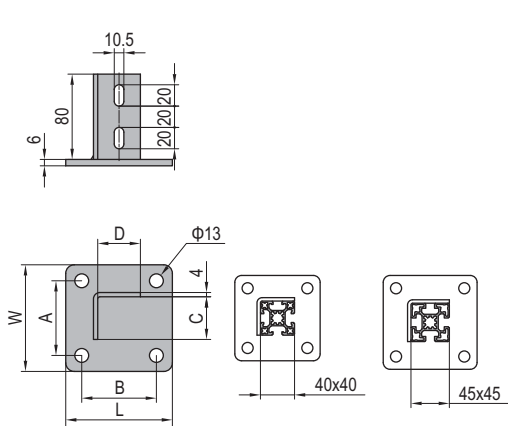
To support strut profile mounted between sections of machine guard system, Expansion bolts chocked into floor can offer very high stability.  
隔断支脚用于防护单元之间型材的底部支撑, 使用膨胀螺栓置于地下更能提高稳定性。  
Material and Color: carbon steel, black electrophoresis  
材质: 碳钢 表面处理: 黑色电泳



Base Plate 40x40/45x45  
隔断支脚 40x40/45x45

Base Plate 40x80/45x90  
隔断支脚 40x80/45x90

**A** Base Plate Gasket  
隔断支脚垫片  
To adjust the degree of vertical profile and uneven ground.  
隔断支脚垫片用于地面不平, 调整型材与地面垂直度。



Description 描述	L (mm)	W (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Fastening Set 紧固组件	Mass 重量(g)	Part No. 订购编号
Base Plate-4040 (pcs) 隔断支脚-4040 (单个供货)	100	100	70	70	40	40		629	5.13.4040
Base Plate-4040 (set) 隔断支脚-4040 (成套供货)							4xC+4xEQ	1053	5.13.4040.ST
Base Plate-4545 (pcs) 隔断支脚-4545 (单个供货)	110	110	80	80	45	45		1022	5.13.4545
Base Plate-4545 (set) 隔断支脚-4545 (成套供货)							4xC+4xEQ	1446	5.13.4545.ST
Base Plate-4080 (pcs) 隔断支脚-4080 (单个供货)	140	100	70	110	40	80		753	5.13.4080
Base Plate-4080 (set) 隔断支脚-4080 (成套供货)							6xC+4xEQ	1227	5.13.4080.ST
Base Plate-4590 (pcs) 隔断支脚-4590 (单个供货)	160	110	80	130	45	90		1243	5.13.4590
Base Plate-4590 (set) 隔断支脚-4590 (成套供货)							6xC+4xEQ	1717	5.13.4590.ST





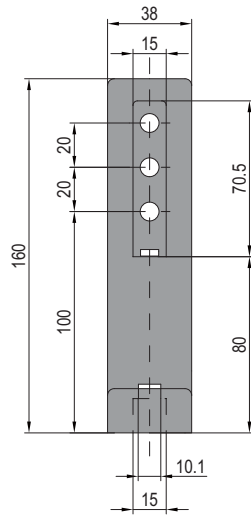
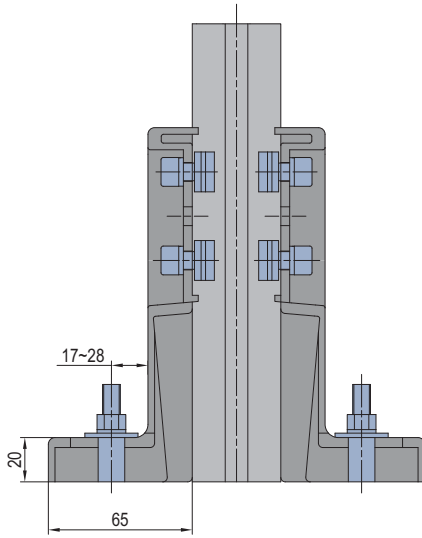
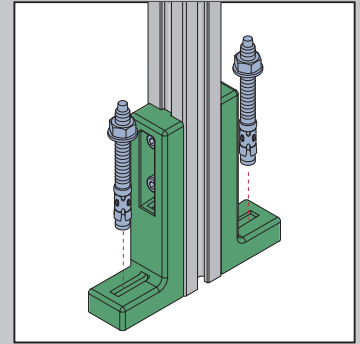
L Base  
L 形支脚



L base is to fix the profile on the floor and adjust the height of the profile to the floor.

L 形支脚可将型材紧固于地面上，并可调节型材距离地面的高度。

Material: diecast aluminum, black electrophoresis  
材质: 压铸铝合金 表面处理: 黑色电泳



DI	Fastening Set	DM	Fastening Set	DN	Fastening Set
	M8x16 Bolt zinc plated		M8x20 Bolt zinc plated		M10x100 expansion bolt zinc plated
	M8 Spring Washer zinc plated		M8 Spring Washer zinc plated		
	M8 Pre-set Nut nickel plated		M8 Pre-set Nut nickel plated		

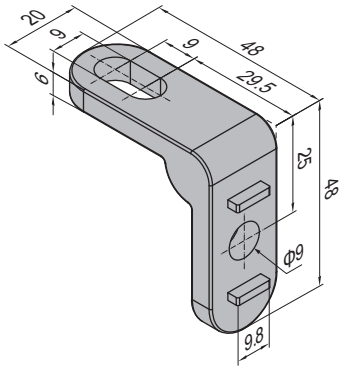
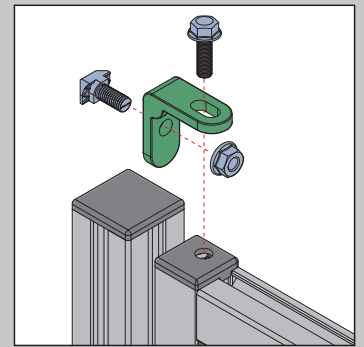
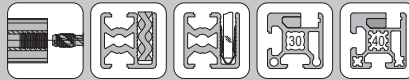
Description 描述	Fastening Set 紧固组件	Mass 重量(g)	Part No. 订购编号
L Base (pcs) L 形支脚 (单个供货)		236	5.52.10.P
L Base-PG40 (set) L 形支脚-40系列 (成套供货)	2xDI+1xDN	303	5.52.10.04.ST.P
L Base-PG45 (set) L 形支脚-45系列 (成套供货)	2xDM+1xDN	306	5.52.10.06.ST.P



Connecting Element  
连接组件

To connect protective fences with strut element.  
用于防护单元与立柱单元的连接。

Material: Die cast zinc  
材质: 压铸锌



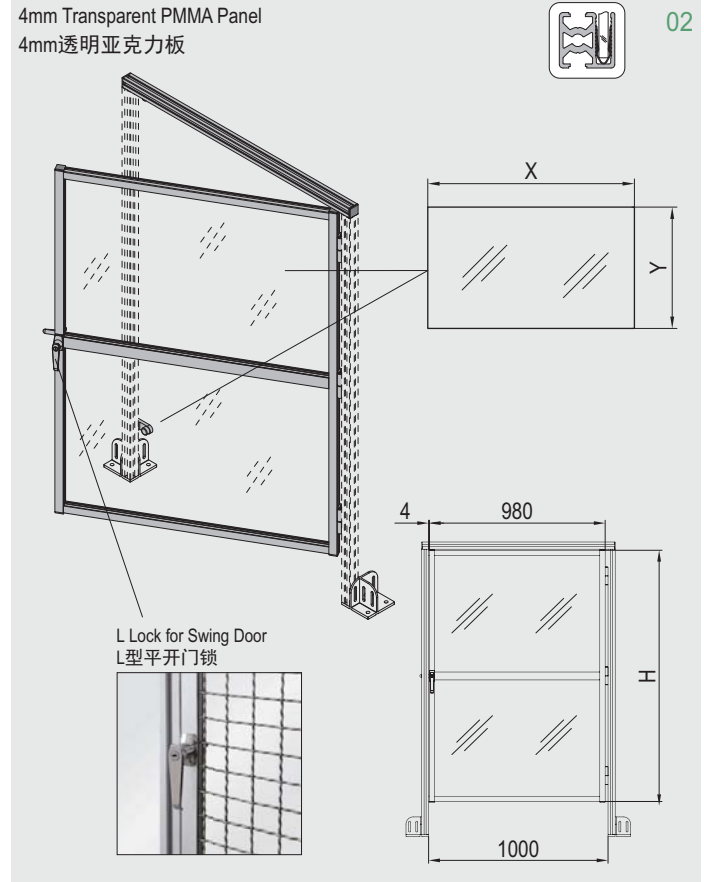
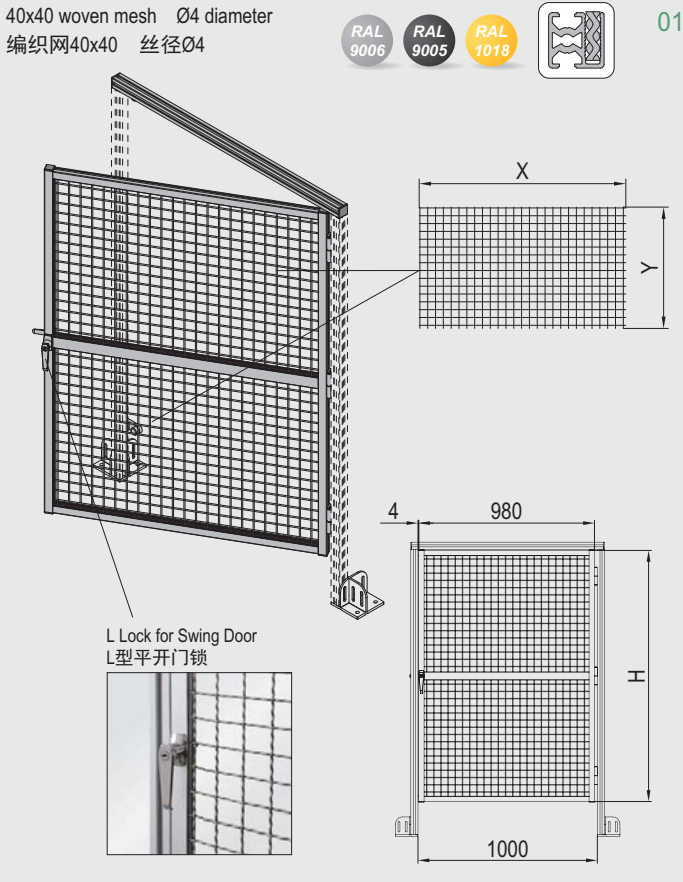
HA	Fastening Set	HB	Fastening Set
	M8x25 Bolt zinc plated		M8x20 Bolt zinc plated
	M8 Flange Nut zinc plated		M8 Flange Nut zinc plated
	M8x20 T Bolt nickel plated		M8x20 T Bolt nickel plated

Description 描述	Fastening Set 紧固组件	Mass 重量(g)	Part No. 订购编号
Connecting Element for Protective Grille Unit 连接组件-防护网单元	1×HA	96g	PNC.ST
Connecting Element for Clamping Profile Unit 连接组件-防护罩单元	1×HB	94g	PPC.ST



Swing Door  
平开门

Swing Door for Protective Grille Unit-Economical  
防护网单元平开门-经济型



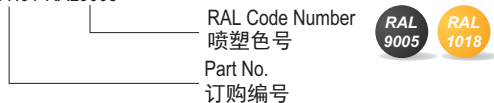
Description 描述	H (mm)	X (mm)	Y (mm)	Mass 重量(kg)	Part No.(R) 订购编号(右开)	Part No.(L) 订购编号(左开)
Protective Grille Unit-Economical-PG30-01 防护网单元-经济型-30系列-01	1400	970	693	16.2	PNDH.30.1400.ST.01.E	PNDH.30.1400.ST.01.L.E
	1800		893	17.5	PNDH.30.1800.ST.01.E	PNDH.30.1800.ST.01.L.E
Protective Grille Unit-Economical-PG30-02 防护网单元-经济型-30系列-02	1400	968	689	16	PNDH.30.1400.ST.02.E	PNDH.30.1400.ST.02.L.E
	1800		889	17.3	PNDH.30.1800.ST.02.E	PNDH.30.1800.ST.02.L.E
Protective Grille Unit-Economical-PG40-01 防护网单元-经济型-40系列-01	1400	950	680	18.4	PNDH.40.1400.ST.01.E	PNDH.40.1400.ST.01.L.E
	1800		880	21.5	PNDH.40.1800.ST.01.E	PNDH.40.1800.ST.01.L.E
Protective Grille Unit-Economical-PG40-02 防护网单元-经济型-40系列-02	1400	948	678	18.3	PNDH.40.1400.ST.02.E	PNDH.40.1400.ST.02.L.E
	1800		878	21.3	PNDH.40.1800.ST.02.E	PNDH.40.1800.ST.02.L.E

Item Number Reference/ 订购编号解析:

The part number is for gray woven mesh in the default configuration, please specify with RAL code if other color is required, such as RAL9005 for black, RAL1018 for yellow.

现订购编号默认编织网喷塑颜色为灰色(RAL9006), 如需黑色(RAL9005)或黄色(RAL1018)等其它颜色, 需在现订购编号后追加色标号。

ex: PNDH.30.1400.ST.01-RAL9005



Associated kits (To be ordered separately)

配套组件(需单独订购)



Strut Elements (One end of strut profile need to be tapping M14x30 screw)  
立柱单元 (两侧的立柱型材需一端攻丝M14x30)

..... Page 19-24

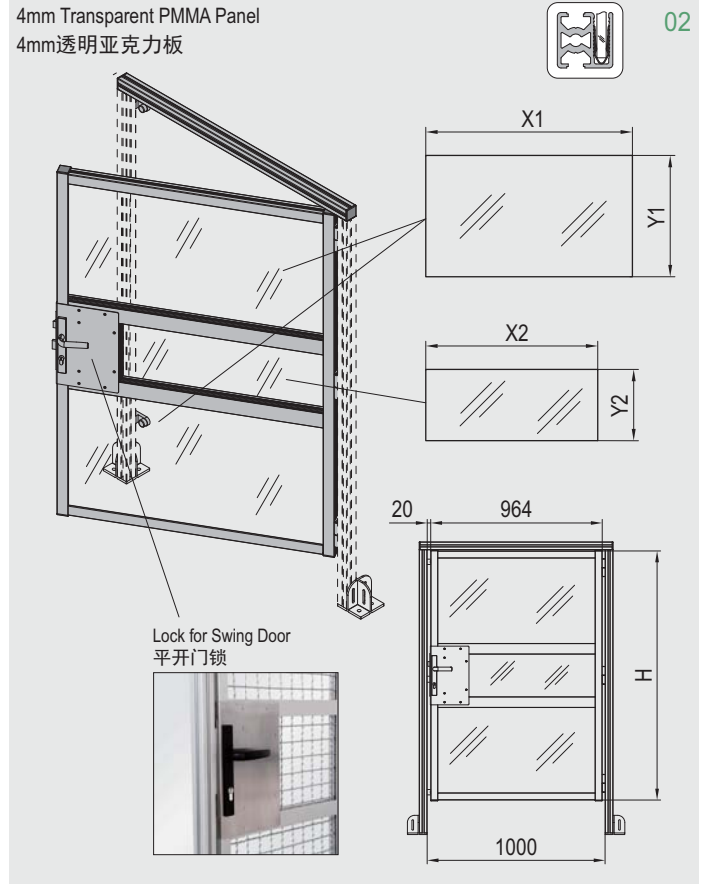
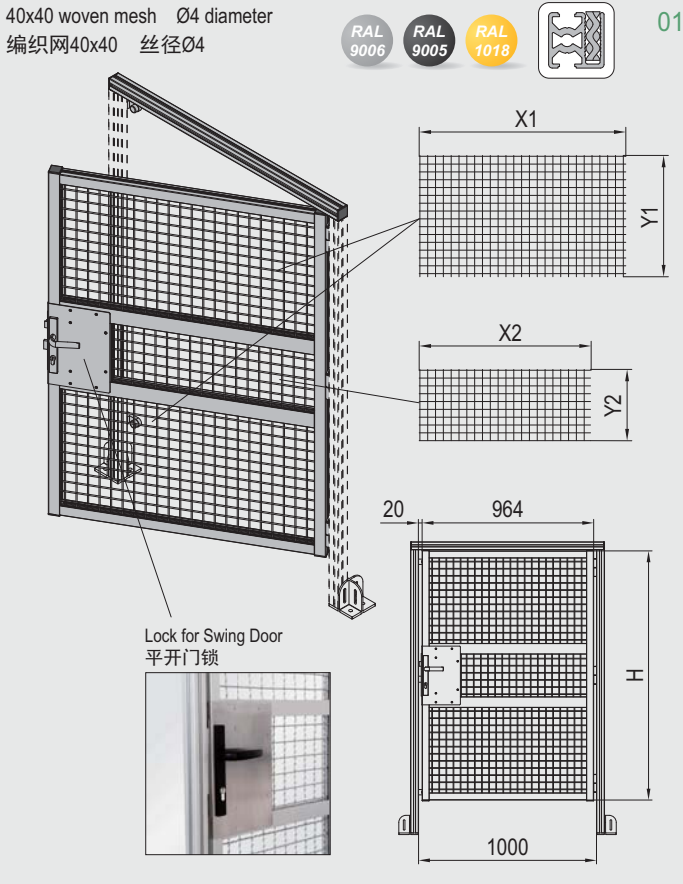


Door Shutter (One end of strut profile need to be tapping M14x30 screw)  
闭门器 (如需实现自动关闭功能, 可选用闭门器)

..... Page 42



Swing Door  
 平开门

 Swing Door for Protective Grille Unit  
 防护网单元平开门


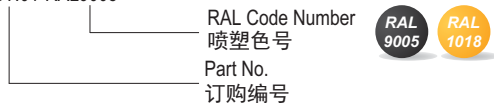
Description 描述	H (mm)	X1 (mm)	Y1 (mm)	X2 (mm)	Y2 (mm)	Mass 重量(kg)	Part No.(R) 订购编号(右开)	Part No.(L) 订购编号(左开)
Protective Grille Unit-PG30-01 防护网单元-30系列-01	1400	954	543	769	295	22.5	PNDH.30.1400.ST.01	PNDH.30.1400.ST.01.L
	1800		743					
Protective Grille Unit-PG30-02 防护网单元-30系列-02	1400	952	539	767	290	22.4	PNDH.30.1400.ST.02	PNDH.30.1400.ST.02.L
	1800		739					
Protective Grille Unit-PG40-01 防护网单元-40系列-01	1400	934	530	754	290	24.7	PNDH.40.1400.ST.01	PNDH.40.1400.ST.01.L
	1800		730					
Protective Grille Unit-PG40-02 防护网单元-40系列-02	1400	932	528	752	288	24.6	PNDH.40.1400.ST.02	PNDH.40.1400.ST.02.L
	1800		728					

## Item Number Reference/ 订购编号解析:

The part number is for gray woven mesh in the default configuration, please specify with RAL code if other color is required, such as RAL9005 for black, RAL1018 for yellow.

现订购编号默认编织网喷塑颜色为灰色(RAL9006), 如需黑色(RAL9005)或黄色(RAL1018)等其它颜色, 需在现订购编号后追加色标号。

ex: PNDH.30.1400.ST.01-RAL9005



## Associated kits (To be ordered separately)

## 配套组件(需单独订购)



Strut Elements (One end of strut profile need to be tapping M14x30 screw)  
 立柱单元 (两侧的立柱型材需一端攻丝M14x30)

..... Page 19-24

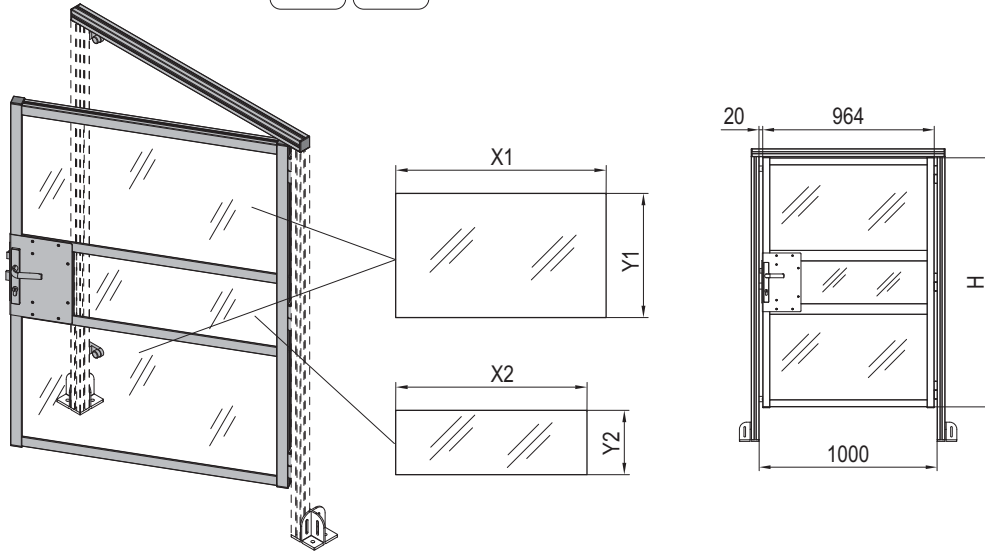
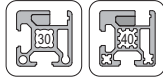


Door Shutter (One end of strut profile need to be tapping M14x30 screw)  
 闭门器 (如需实现自动关闭功能, 可选用闭门器)

..... Page 42

Swing Door  
 平开门

 Swing Door for Clamping Profile Unit  
 防护罩单元平开门

 4mm Transparent PMMA Panel  
 4mm透明亚克力板


Description 描述	H (mm)	X1 (mm)	Y1 (mm)	X2 (mm)	Y2 (mm)	Mass 重量(kg)	Part No.(R) 订购编号(右开)	Part No.(L) 订购编号(左开)
Clamping Profile Unit-PG30 防护罩单元-30系列	1400	918	519	733	284	18.9	PPDH.30.1400.ST	PPDH.30.1400.ST.L
	1800		719					
Clamping Profile Unit-PG40 防护罩单元-40系列	1400	904	510	724	280	27.8	PPDH.40.1400.ST	PPDH.40.1400.ST.L
	1800		710					

 Associated kits (To be ordered separately)  
 配套组件(需单独订购)

 Strut Elements (One end of strut profile need to be tapping M14x30 screw)  
 立柱单元 (两侧的立柱型材需一端攻丝M14x30)

..... Page 19-24


 Door Shutter (One end of strut profile need to be tapping M14x30 screw)  
 闭门器 (如需实现自动关闭功能, 可选用闭门器)

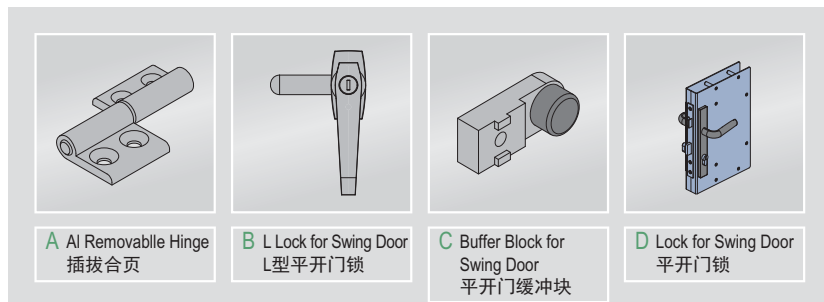
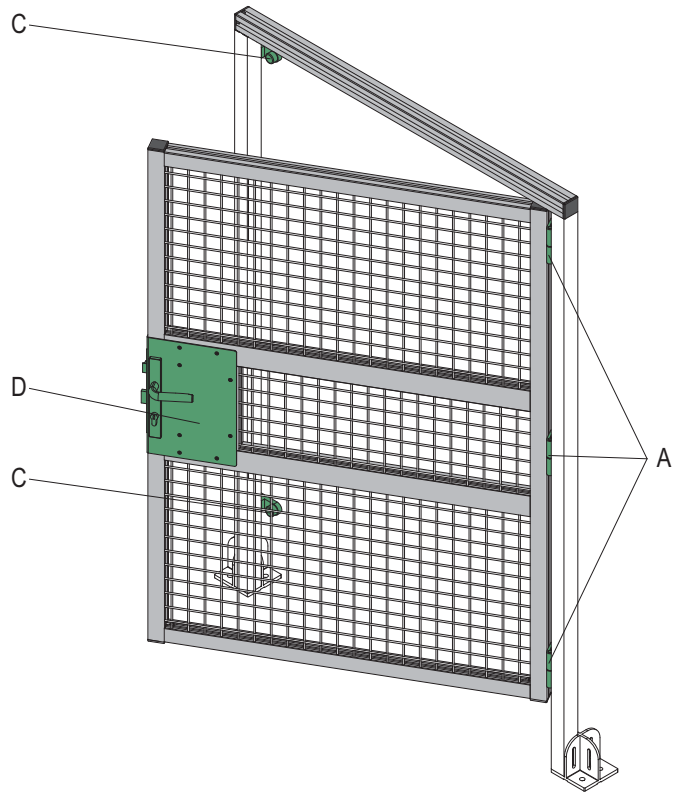
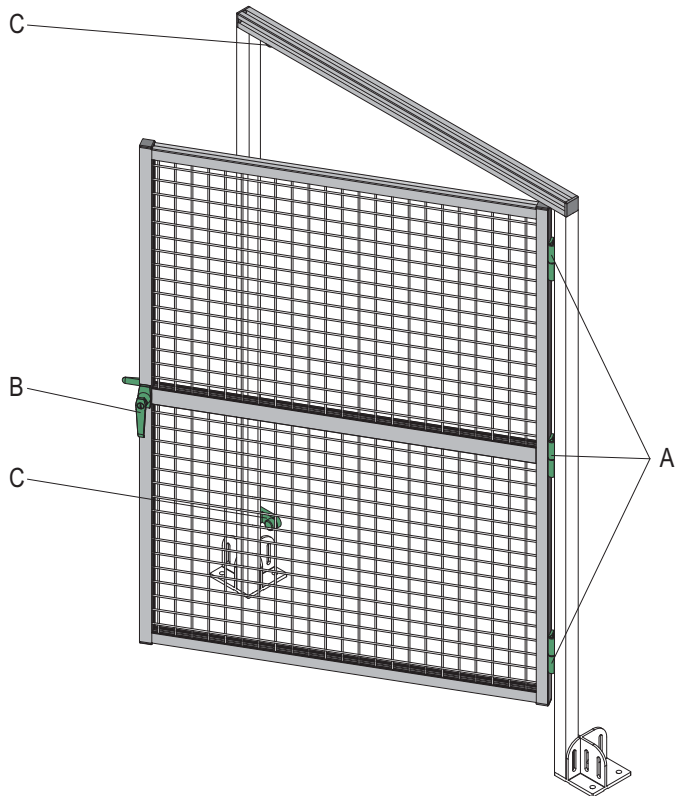
..... Page 42

Components for Swing Door  
平开门组件

Swing Door are normally composed of A,B and C as shown in the below figure.  
平开门组件一般是由 (如图所示) A、B、C三部分组成。

Swing Door for Protective Grille Unit-Economical  
防护网单元平开门-经济型

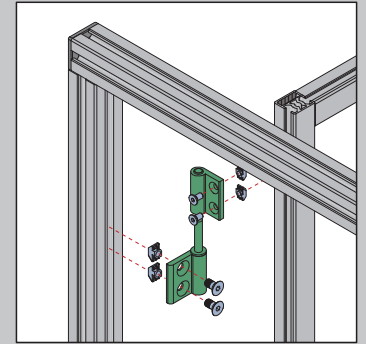
Swing Door for Protective Grille Unit  
防护网单元平开门





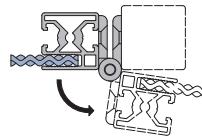
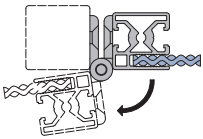
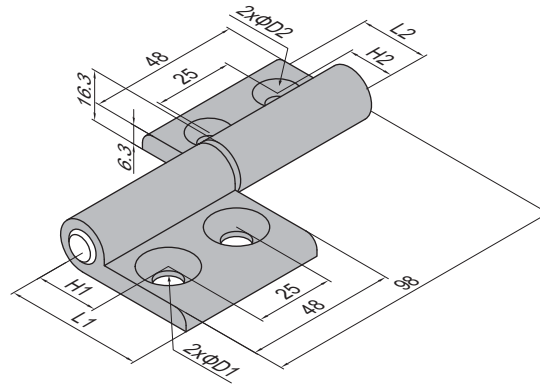
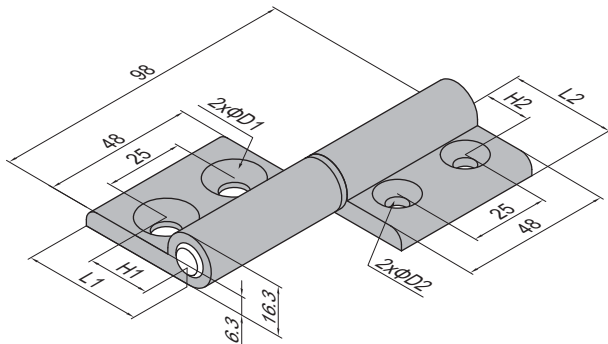
Al Removable Hinge  
插拔合页





Material and Color: aluminum alloy, nature anodized  
材质: 铝合金 表面处理: 光亮氧化



Al Removable Hinge-L  
插拔合页-左开

Al Removable Hinge-R  
插拔合页-右开



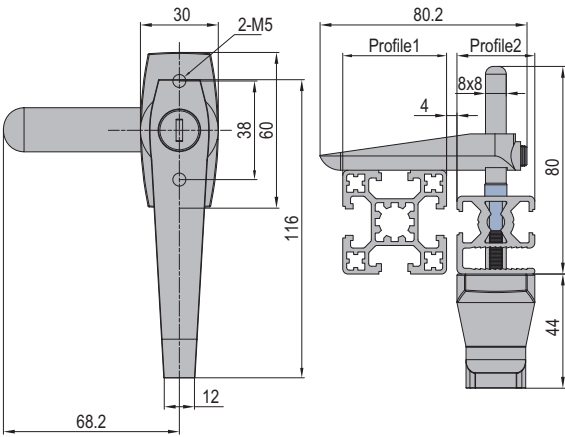
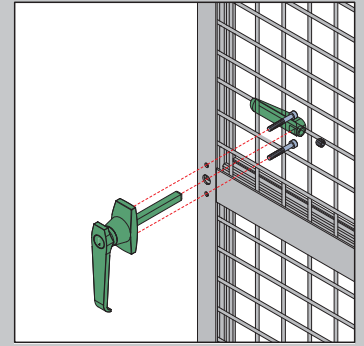
FF	Fastening Set	FG	Fastening Set
	M6x12 Bolt zinc plated		M8x16 Bolt zinc plated
	M6 T Nut nickel plated		M8 T Nut nickel plated

Description 描述	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	Fastening Set 紧固组件	Mass 重量(g)	Part No.(L) 订购编号(左)	Part No.(R) 订购编号(右)
Protective Grille Unit-30/40 (set) 防护网单元-30/40 (成套供货)	20	20	28	38	6.5	8.5	2xFF+2xFG	158	7.26.30.40.ST.SM	7.27.30.40.ST.SM
Protective Grille Unit-45/45 (set) 防护网单元-45/45 (成套供货)	22.5	22.5	38	38	8.5	8.5	4xFG	186	7.26.45.45.ST	7.27.45.45.ST
Clamping Profile Unit-30/40 (set) 防护罩单元-30/40 (成套供货)	20	15	38	28	8.5	6.5	2xFF+2xFG	158	7.26.30.40.ST	7.27.30.40.ST
Clamping Profile Unit-40/45 (set) 防护罩单元-40/45 (成套供货)	22.5	20	38	38	8.5	8.5	4xFG	186	7.26.40.45.ST	7.27.40.45.ST



L Lock for Swing Door  
L型平开门锁

Material and Color: zinc alloy, polish finish  
材质: 锌合金 表面处理: 光面



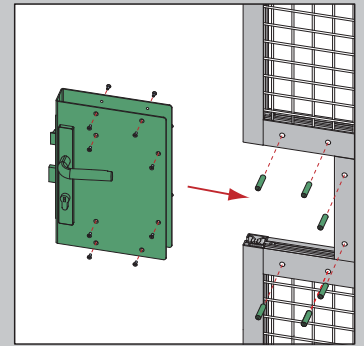
ED	Fastening Set	EE	Fastening Set	DH	Fastening Set
	M5x35 Bolt zinc plated		M5x45 Bolt zinc plated		M6x8 Set Screw stainless steel

Description 描述	Profile 1 型材 1	Profile 2 型材 2	Fastening Set 紧固组件	Mass 重量(g)	Part No. 订购编号
L Lock for Swing Door-PG30 L型平开门锁-30系列	40x40L	30X30	1xDH+2xED	294	7.32.30.30.P
L Lock for Swing Door-PG40 L型平开门锁-40系列	45x45L	40X40	1xDH+2xEE	297	7.32.40.40.P

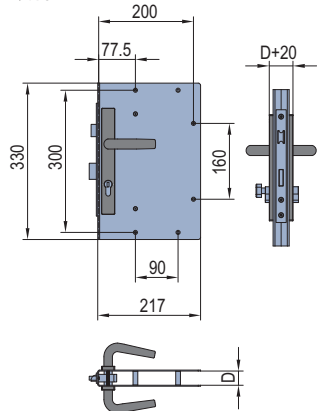


Lock for Swing Door  
平开门锁

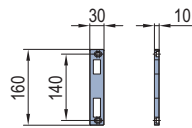
Material and Color: Lock Body: stainless steel  
Lock Slot: aluminum  
材质: 锁体-不锈钢 锁卡槽-铝合金



Lock Body  
锁体



Lock Slot  
锁卡槽



CP	Fastening Set
	M6x12 Bolt zinc plated
	M6 T Nut nickel plated

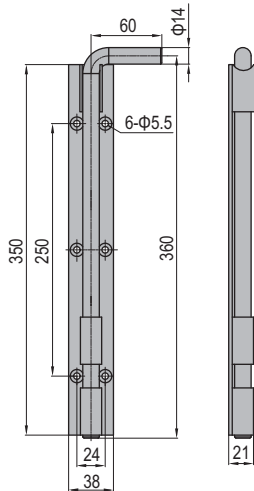
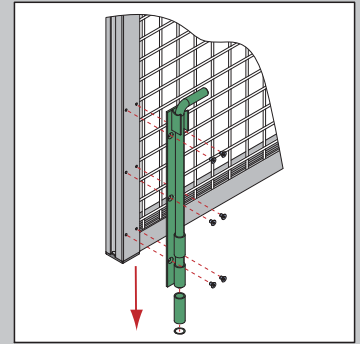
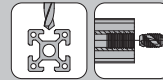
Description 描述	D (mm)	Fastening Set 紧固组件	Mass 重量(g)	Part No. 订购编号
Lock for Swing Door-PG30 平开门锁-30系列	30	2xCP	4100	PNDH30.LK
Lock for Swing Door-PG40 平开门锁-40系列	40		4800	PNDH40.LK



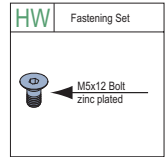
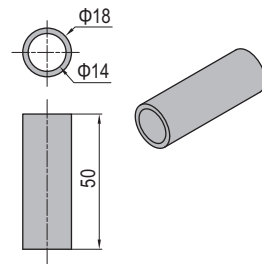


**Ground Latch**  
地插销

Ground Latch is used to lock the door on the ground and make the door not opened optionally.  
地插销用于将门固定在地上，使门不会随意开关。  
Material: zinc plated steel  
材质：碳钢镀锌



**Bushing**  
地插销套

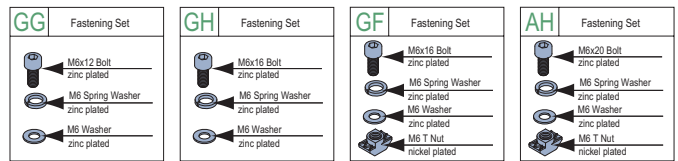
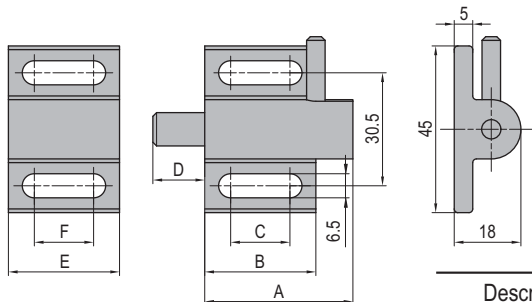
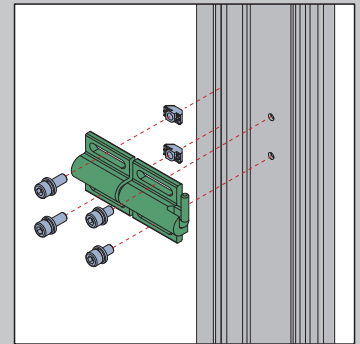
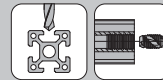


Description 描述	Fastening Set 紧固组件	Mass 重量(g)	Part No. 订购编号
Ground Latch-PG40 (set) 地插销-40系列 (成套供货)	6xHW	930	PNDH40.LG.ST



**Door Latch**  
门插销

Door Latch is used to fix and lock the door to make sure the door cannot opened optionally.  
门插销用于将门固定，使门不会随意开关。  
Material: Door Latch: aluminum Latch Rod: stainless steel  
材质：插销座-铝合金 插销杆-不锈钢



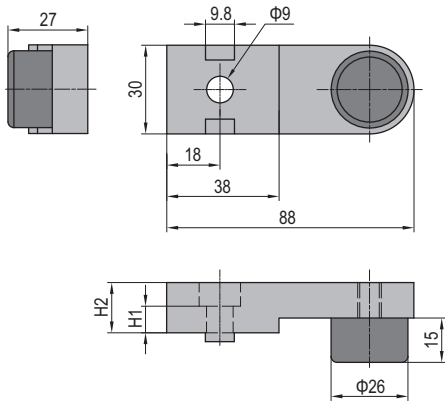
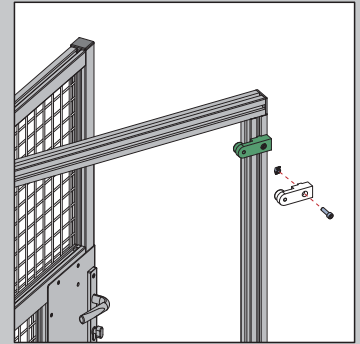
Description 描述	Fastening Set 紧固组件	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Mass 重量(g)	Part No. 订购编号
Door Latch-PG30 门插销-30系列	2xGG+2xGF	40	30	16	14	30	16	97	PNDH30.LD.ST
Door Latch-PG40 门插销-40系列	2xGH+2xAH	50	40	26	17	40	26	129	PNDH40.LD.ST





Buffer Block for Swing Door  
平开门缓冲块

Material: aluminum alloy  
材质: 铝合金



CC	Fastening Set	CD	Fastening Set
	M8x20 Bolt zinc plated		M8x25 Bolt zinc plated
	M8 T Nut nickel plated		M8 T Nut nickel plated

Description 描述	H1 (mm)	H2 (mm)	Fastening Set 紧固组件	Mass 重量 (g)	Part No. 订购编号
Buffer Block for Swing Door-PG30 平开门缓冲块-30系列	9	17	1xCC	112	PNDH30.BB
Buffer Block for Swing Door-PG40 平开门缓冲块-40系列	14	22	1xCD	121	PNDH40.BB





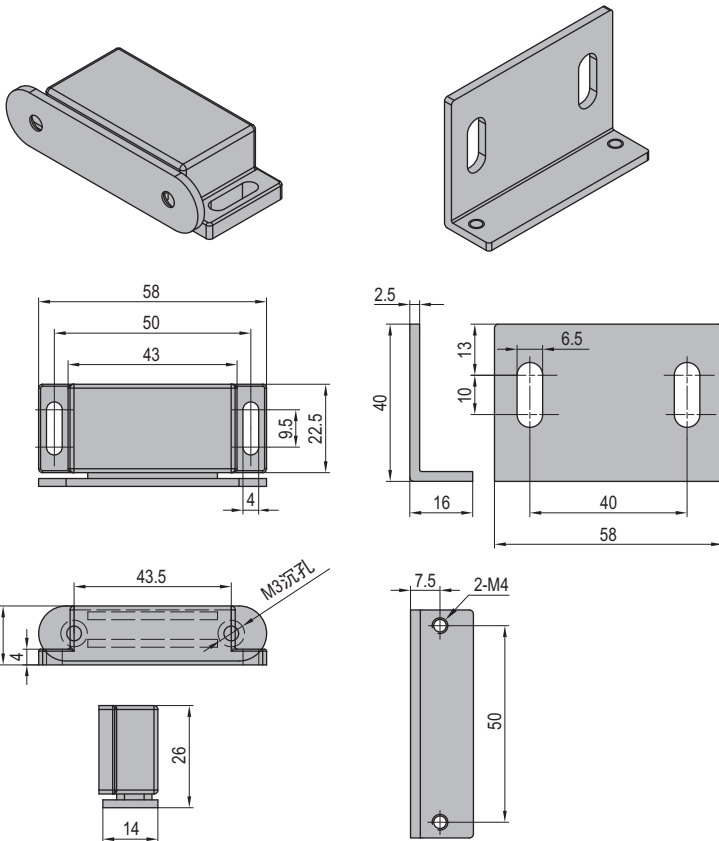
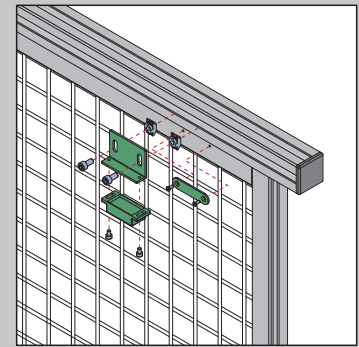
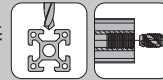
**Doormagnet**  
门吸

Doormagnet has the function of absorption and fixation which cannot make the door opened optionally.  
门吸在门关闭时起固定功能, 并有吸附作用, 使门不会随意开关。

Material: Doormagnet-stainless steel

Connector-zinc plated steel

材质: 门吸-不锈钢 连接件-碳钢镀锌



HX	Fastening Set	HY	Fastening Set	CP	Fastening Set
	M4x6 Bolt zinc plated		M3x8 Bolt zinc plated		M6x12 Bolt zinc plated M6 T Nut nickel plated

Description 描述	Fastening Set 紧固组件	Mass 重量(g)	Part No. 订购编号
Doormagnet (pcs) 门吸 (单个供货)		61	PNDH.DM
Doormagnet (set) 门吸 (成套供货)	2xHX+2xHY+2xCP	133	PNDH.DM.ST

Sliding Door  
推拉门

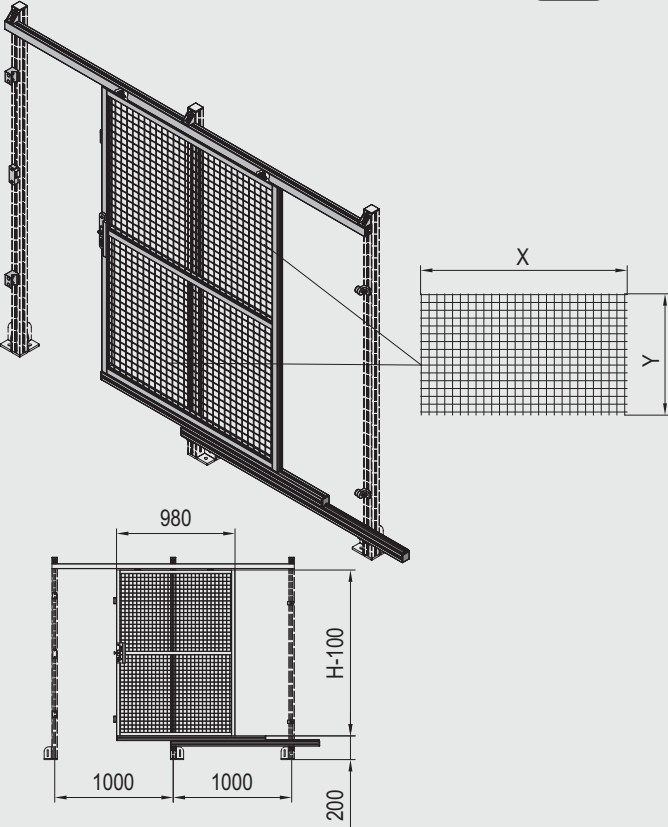
Sliding Door for Protective Grille Unit  
防护网单元推拉门

40x40 woven mesh Ø4 diameter  
编织网40x40 丝径Ø4

RAL 9006 RAL 9005 RAL 1018



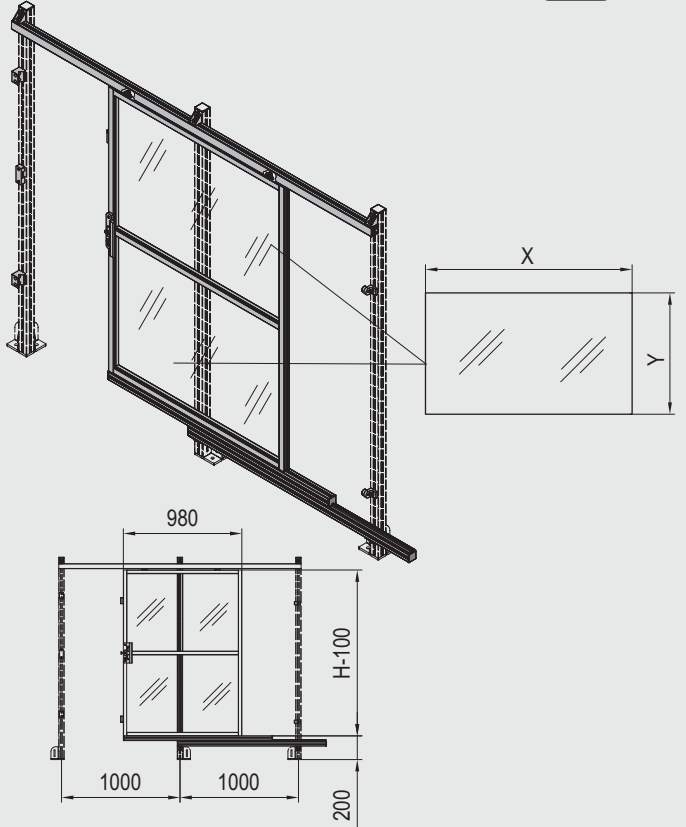
01



4mm Transparent PMMA Panel  
4mm 透明亚克力板



02



Description 描述	H(mm)	X(mm)	Y(mm)	Mass 重量(kg)	Part No.(R) 订购编号(右开)	Part No.(L) 订购编号(左开)
Protective Grille Unit-PG30-01 防护网单元-30系列-01	1400	970	643	21.2	PNDS.30.1400.ST.01	PNDS.30.1400.ST.01.L
	1800		843	24	PNDS.30.1800.ST.01	PNDS.30.1800.ST.01.L
Protective Grille Unit-PG30-02 防护网单元-30系列-02	1400	968	639	21.6	PNDS.30.1400.ST.02	PNDS.30.1400.ST.02.L
	1800		839	23.8	PNDS.30.1800.ST.02	PNDS.30.1800.ST.02.L
Protective Grille Unit-PG40-01 防护网单元-40系列-01	1400	950	630	24.7	PNDS.40.1400.ST.01	PNDS.40.1400.ST.01.L
	1800		830	27.8	PNDS.40.1800.ST.01	PNDS.40.1800.ST.01.L
Protective Grille Unit-PG40-02 防护网单元-40系列-02	1400	948	628	23	PNDS.40.1400.ST.02	PNDS.40.1400.ST.02.L
	1800		828	27.7	PNDS.40.1800.ST.02	PNDS.40.1800.ST.02.L

Item Number Reference/ 订购编号解析:

The part number is for gray woven mesh in the default configuration, please specify with RAL code if other color is required, such as RAL9005 for black, RAL1018 for yellow.

现订购编号默认编织网喷塑颜色为灰色(RAL9006), 如需黑色(RAL9005)或黄色(RAL1018)等其它颜色, 需在现订购编号后追加色标号。

ex: PNDS.30.1400.ST.01-RAL9005

RAL Code Number  
喷塑色号  
Part No.  
订购编号



Associated kits(To be ordered separately )  
配套组件(需单独订购)



Strut Elements  
立柱单元

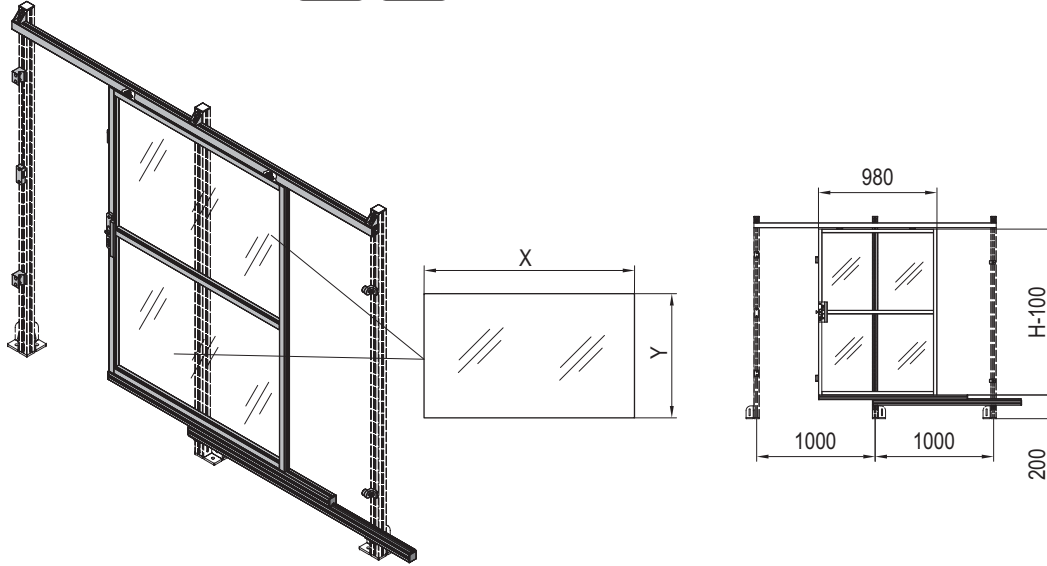
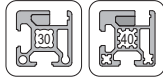
Page 19-24



Sliding Door  
推拉门

Sliding Door for Clamping Profile Unit  
防护罩单元推拉门

4mm Transparent PMMA Panel  
4mm 透明亚克力板



Description 描述	H(mm)	X(mm)	Y(mm)	Mass 重量(kg)	Part No.(R) 订购编号(右开)	Part No.(L) 订购编号(左开)
Clamping Profile Unit-PG30 防护罩单元-30系列	1400	934	619	21.1	PPDS.30.1400.ST	PPDS.30.1400.ST.L
	1800		819	23.8	PPDS.30.1800.ST	PPDS.30.1800.ST.L
Clamping Profile Unit-PG40 防护罩单元-40系列	1400	920	610	27	PPDS.40.1400.ST	PPDS.40.1400.ST.L
	1800		810	30.5	PPDS.40.1800.ST	PPDS.40.1800.ST.L

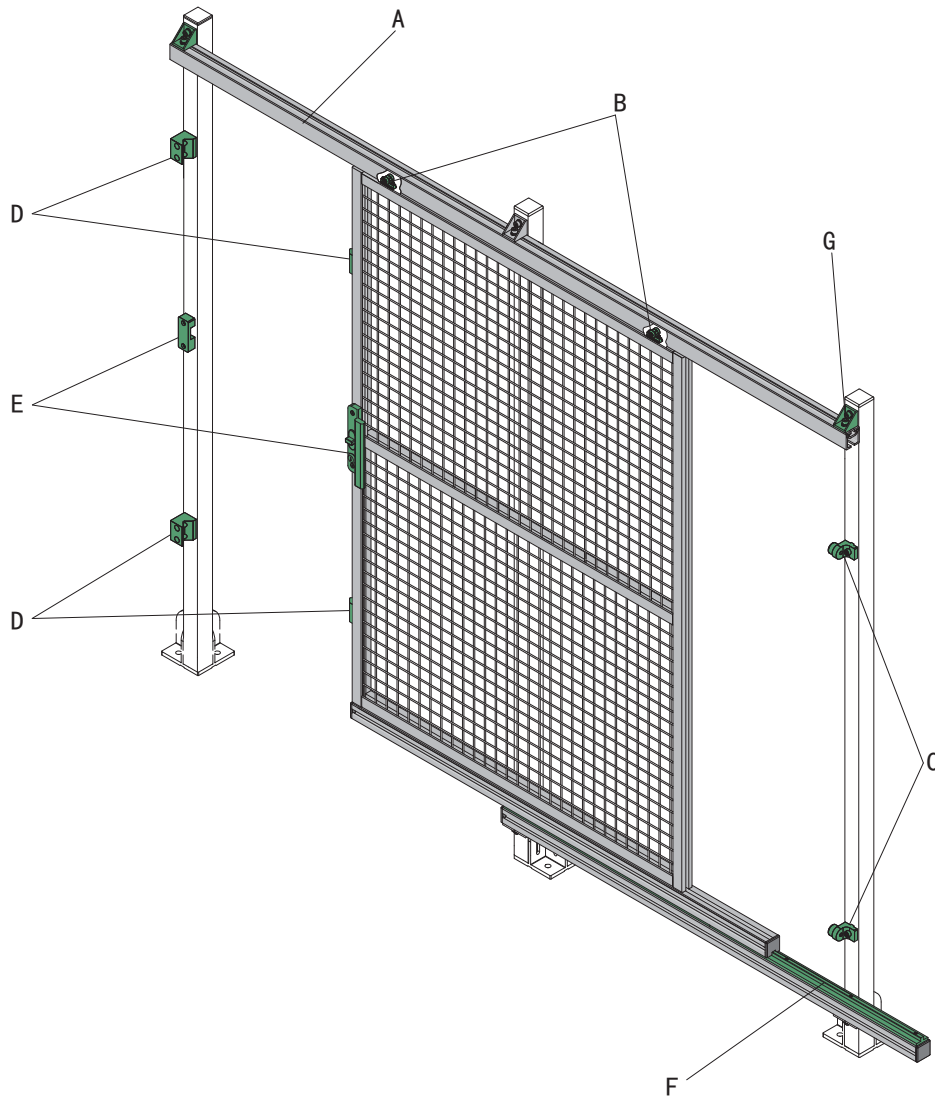
Associated kits(To be ordered separately )  
配套组件 (需单独订购)

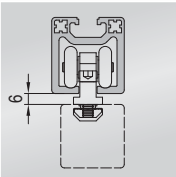
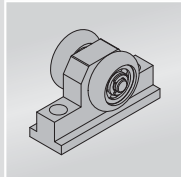
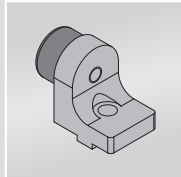
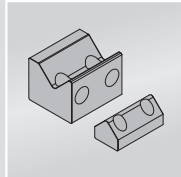
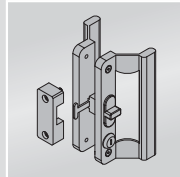
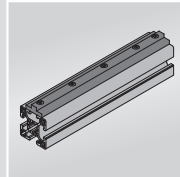
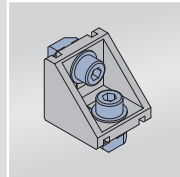


Strut Elements  
立柱单元 ..... Page 19-24

Components for Sliding Door  
推拉门组件

Sliding door are normally composed of A,B,C,D,E,F and G as shown in the below figure.  
推拉门组件一般是由 (如图所示) A、 B、 C、 D、 E、 F、 G 七部分组成。

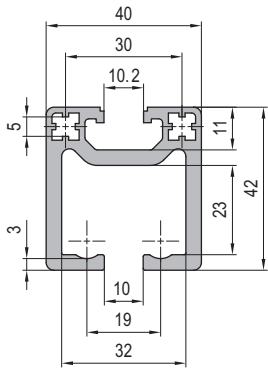
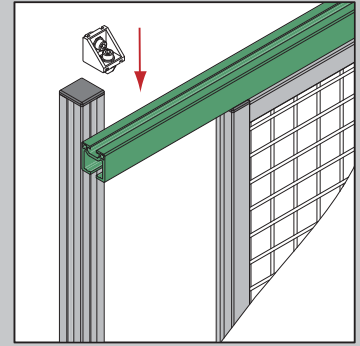


						
<b>A</b> Profile Rails 滑道型材	<b>B</b> Carriage 滑轮组	<b>C</b> Buffer Block 缓冲块	<b>D</b> Guide Block 导向块	<b>E</b> Lock for Sliding door 推拉门锁	<b>F</b> Friction Strip Component 摩擦条组	<b>G</b> Die Cast Bracket 压铸角铝



Profile Rail  
滑道型材

Material: 6063-T5  
材质: 6063-T5

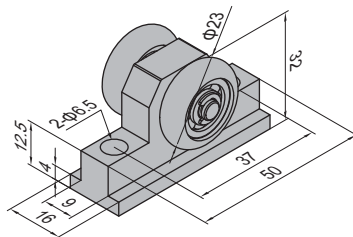
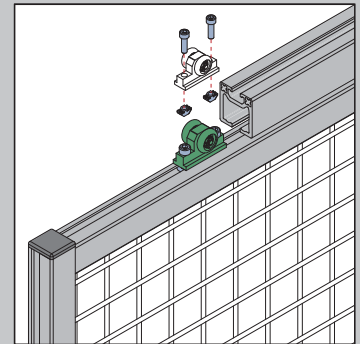




Description 描述	Moment of Inertia 惯性矩Ix(cm <sup>4</sup> )	Moment of Inertia 惯性矩Iy(cm <sup>4</sup> )	Moment of Resistance 弯矩Wx(cm <sup>3</sup> )	Moment of Resistance 弯矩Wy(cm <sup>3</sup> )	Mass 重量(kg/m)	Part No. 订购编号
Profile Rail 滑道型材	12.7	10.6	6.4	5.1	1.6	1.42.40.4040.01



Pulley Block for Sliding Door  
推拉门滑轮组

Material: aluminum alloy  
材质: 铝合金



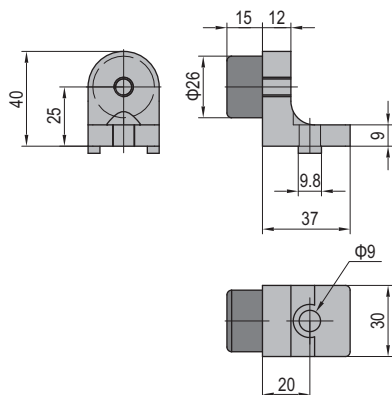
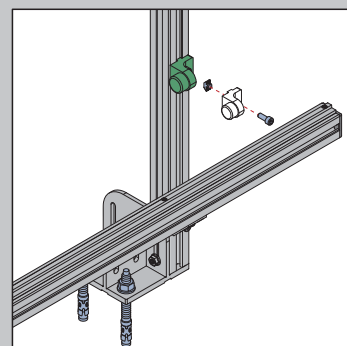
HC	Fastening Set
	M6x20 Bolt zinc plated
	M8 T Nut nickel plated

Description 描述	Fastening Set 紧固组件	Mass 重量(g)	Part No. 订购编号
Pulley Block for Sliding Door-PG30 推拉门滑轮组-30系列	2xHC	64	PBDS30.PB
Pulley Block for Sliding Door-PG40 推拉门滑轮组-40系列	2xHC	70	PBDS40.PB



**Buffer Block for Sliding Door**  
推拉门缓冲块

Material: aluminum alloy  
材质: 铝合金



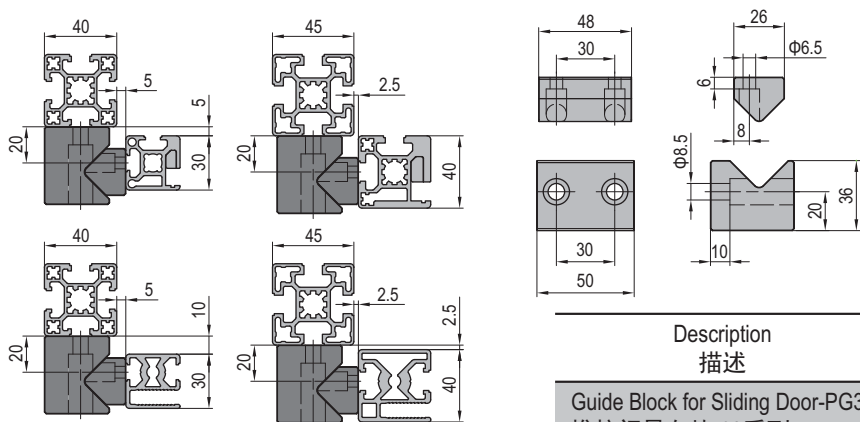
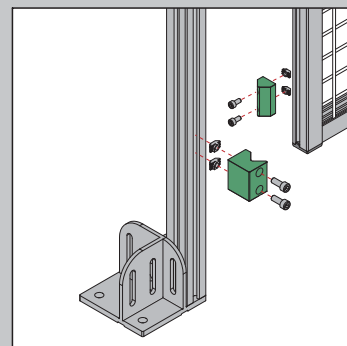
CC	Fastening Set
	M8x20 Bolt zinc plated
	M8 T Nut nickel plated

Description 描述	Fastening Set 紧固组件	Mass 重量(g)	Part No. 订购编号
Buffer Block for Sliding Door 推拉门缓冲块	1xCC	64	PBDS.BB



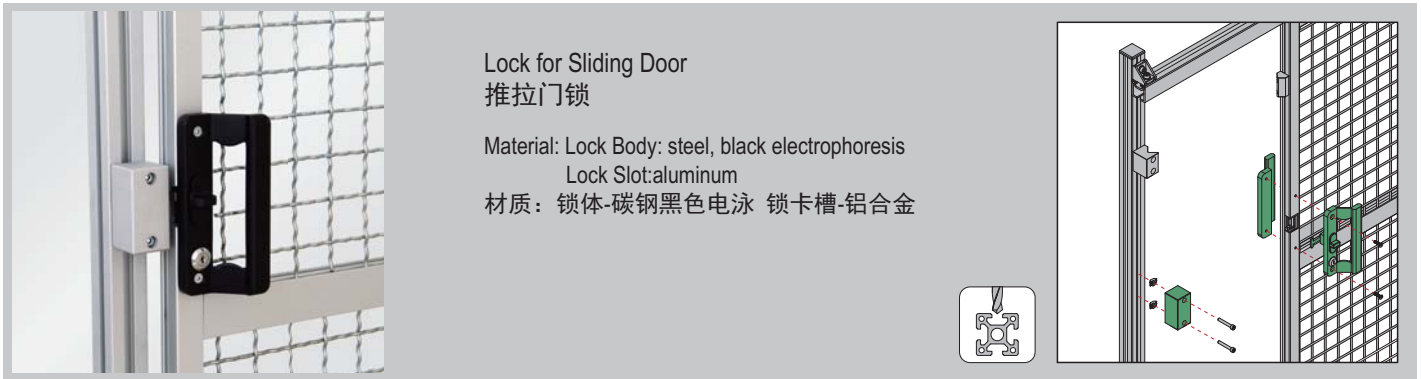
**Guide Block for Sliding Door**  
推拉门导向块

Material: POM  
材质: POM



HD	Fastening Set	HE	Fastening Set	HF	Fastening Set
	M8x20 Bolt zinc plated		M6x12 Bolt zinc plated		M6x16 Bolt zinc plated
	M8 T Nut nickel plated		M6 T Nut nickel plated		M6 T Nut nickel plated

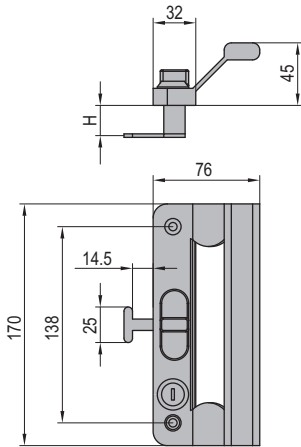
Description 描述	Fastening Set 紧固组件	Mass 重量(g)	Part No. 订购编号
Guide Block for Sliding Door-PG30 推拉门导向块-30系列	2xHD+2xHE	151	PBDS30.DS
Guide Block for Sliding Door-PG40 推拉门导向块-40系列	2xHD+2xHF	157	PBDS40.DS



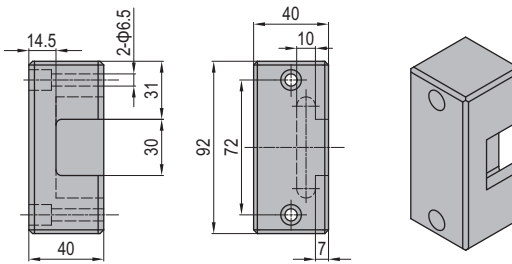
Lock for Sliding Door  
推拉门锁

Material: Lock Body: steel, black electrophoresis  
Lock Slot:aluminum  
材质: 锁体-碳钢黑色电泳 锁卡槽-铝合金

Lock Body  
锁体



Lock Slot  
锁卡槽



HZ	Fastening Set	HG	Fastening Set
	M6x40 Bolt zinc plated		M6x40 Bolt zinc plated
	M6x55 Bolt zinc plated		M6x45 Bolt zinc plated
	M6 T Nut nickel plated		M6 T Nut nickel plated

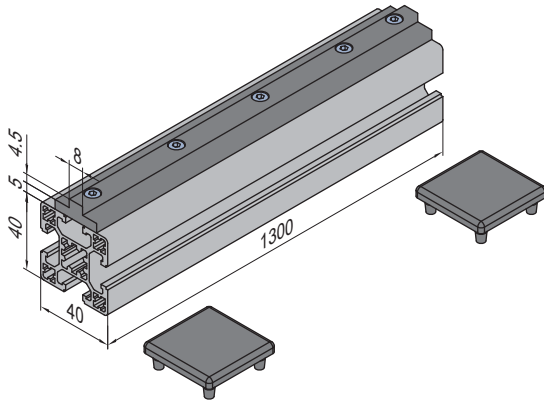
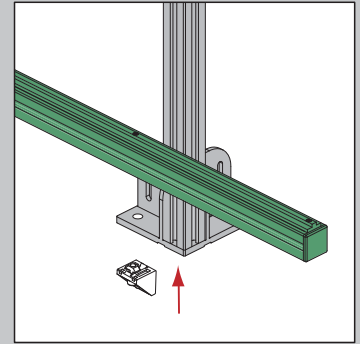
Description 描述	H (mm)	Fastening Set 紧固组件	Mass 重量(g)	Part No. 订购编号
Lock for Sliding Door of Protective Grille Unit-PG30 推拉门锁-防护网单元-30系列	18	2xHG	956	PNDS30.LK
Lock for Sliding Door of Protective Grille Unit-PG40 推拉门锁-防护网单元-40系列	20	2xHZ	960	PNDS40.LK
Lock for Sliding Door of Clamping Profile Unit-PG30 推拉门锁-防护罩单元-30系列	12	2xHG	956	PPDS30.LK
Lock for Sliding Door of Clamping Profile Unit-PG40 推拉门锁-防护罩单元-40系列	18	2xHZ	960	PPDS40.LK

※ The lock shown above is used on right open door, please specify if the lock is to be used on left open door.  
标注锁为右开门用, 如需左开门, 请在订货时注明。



**Friction Strip Components**  
摩擦条组

The friction strip enable economical and low wear guides for manual sliding doors.  
摩擦条组用于推拉门下侧导向,使推拉门滑动更顺滑。  
Material: UHMW PE  
材质: 高分子聚乙烯



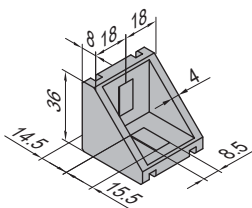
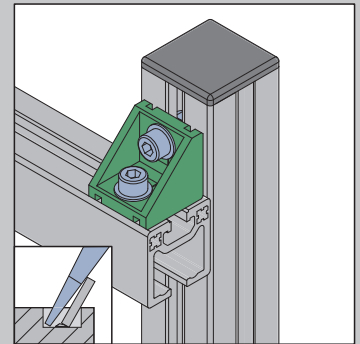
GE	Fastening Set
	M4x14 Bolt zinc plated
	M4 T Nut nickel plated

Description 描述	Fastening Set 紧固组件	Mass 重量(kg)	Part No. 订购编号
Friction Strip Components (set) 摩擦条组 (成套供货)	5xGE	2.1	PPDS.FS.ST



**Die Cast Bracket**  
压铸角铝

Diecast used to connect profile rail with friction strip.  
压铸角铝用于连接滑道型材及摩擦条组时,需一面去槽牙。  
Material: Die cast aluminium  
材质: 压铸铝合金



D	Fastening Set
	M8x20 Bolt zinc plated
	M8 Washer zinc plated
	M8 T Nut nickel plated

Description 描述	Fastening Set 紧固组件	Mass 重量(g)	Part No. 订购编号
Die cast bracket-PG40-40x40 (set D) 压铸角铝-40系列-40x40 (成套供货D)	2xD	92	3.21.40.4040.STD

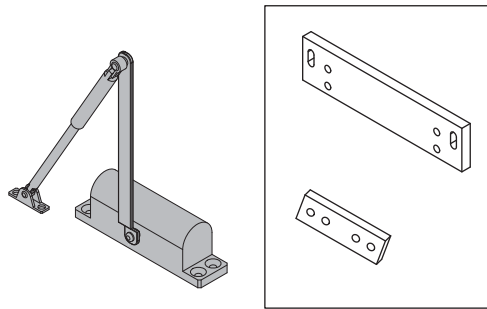
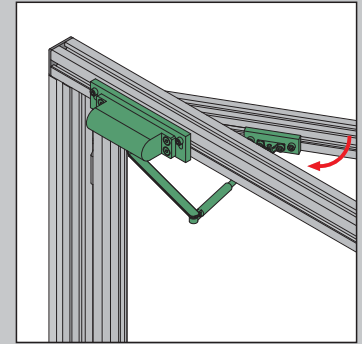













**Door Shutter**  
闭门器

Door shutter is used on swing door and it makes door closed automatically.  
闭门器用于平开门上,可实现自动关门。



HH	Fastening Set	HJ	Fastening Set	HK	Fastening Set	HL	Fastening Set
	M6x20 Bolt zinc plated		M6x14 Bolt zinc plated		M6x10 Bolt zinc plated		M6x20 Bolt zinc plated
	M6 Washer zinc plated						M6 Washer zinc plated
	M6 T Nut nickel plated						

Description 描述	Fastening Set 紧固组件	Part No. 订购编号
Door Shutter for Protective Grille Unit 闭门器组-防护网单元	2xHH+4xHJ+2xHK+2xHL	PNDH.DS.ST
Door Shutter for Clamping Profile Unit 闭门器组-防护罩单元	4xHH+4xHJ+2xHK	PPDH.DS.ST

✘ Strut profile used on swing door constructed with meshes need to be tapped with 2 pcs of M6X15 screw when using door shutter.  
防护网单元平开门使用闭门器时门上型材需加工M6X15螺纹孔2个。

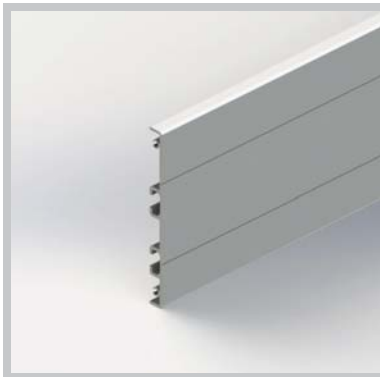


**Safety Lock**  
安全锁

The integrated EUCHNER and OMRON lock ensure the safety and stability of the whole machine guard system.  
集成的安士能、欧姆龙安全锁，使整个机械防护系统更安全，更可靠。

Description 描述	Part No. 订购编号
Safety Lock 安全锁	PBDH.SL

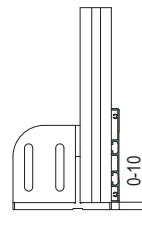
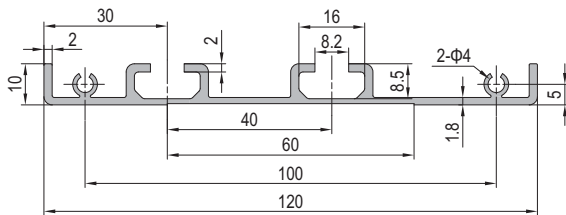
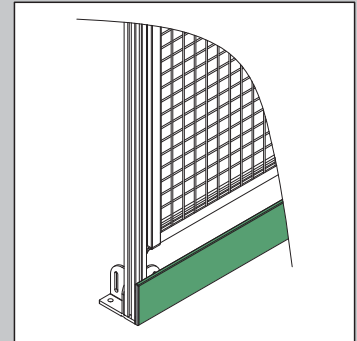
✘ The EUCHNER or OMRON lock is suggested, please refer to EUCHNER or OMRON catalogue for detail specification number or please contact with us for detail.  
推荐选用安士能、欧姆龙电子锁，具体型号请参照安士能、欧姆龙选型目录，或来电咨询。



**Guard rail kick plate profile**  
防护踢脚板型材

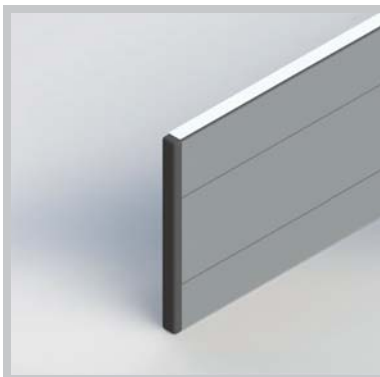
The kick plate profile is installed at the lower part of the machine guard unit to keep the small component or other objects outside and ensure the stability and good appearance of the unit.  
防护踢脚板型材安装于防护单元底部，可以防止小型零件或其他物体进入防护单元内部，使整体防护单元更加可靠，美观。

Material: 6063-T5 Surface treatment: satin anodized  
材质：6063-T5 表面处理：本色磨砂阳极氧化。



\* The machine guard kick plate can be adjusted up and down in 10mm range.  
防护踢脚板型材与地面调整距离为10mm。

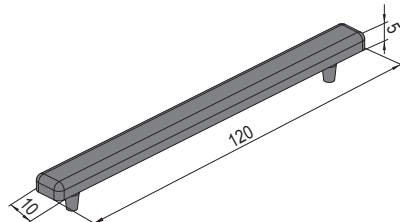
Description 描述	Moment of Inertia 惯性矩 $I_x(\text{cm}^4)$	Moment of Inertia 惯性矩 $I_y(\text{cm}^4)$	Moment of Resistance 弯矩 $W_x(\text{cm}^3)$	Moment of Resistance 弯矩 $W_y(\text{cm}^3)$	Mass 重量(kg/m)	Part No. 订购编号
Guard rail kick plate profile 防护踢脚板型材	0.33	48.3	0.66	8.1	0.95	1.42.10.010120.01



**Machine guard kick plate end cap**  
防护踢脚板端盖

To prevent staff from any injury and improve profile end appearance.  
端盖可以预防划伤,使型材更美观。

Material and Color: black ABS  
材质：ABS 颜色：黑色

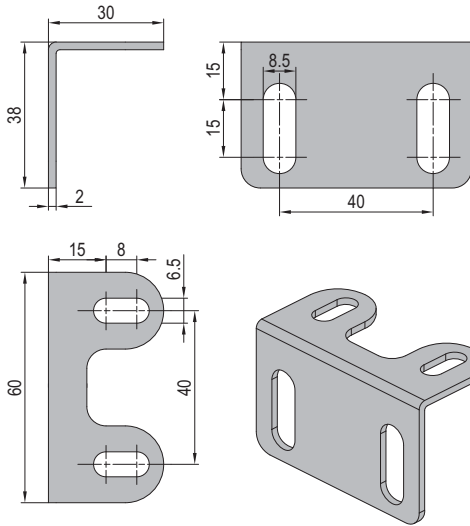
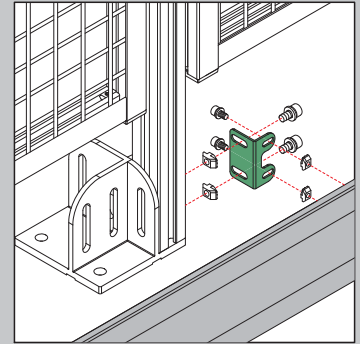


Description 描述	Mass 重量(g)	Part No. 订购编号
Machine guard kick plate end cap 防护踢脚板端盖	5	4.12.30.10.010120



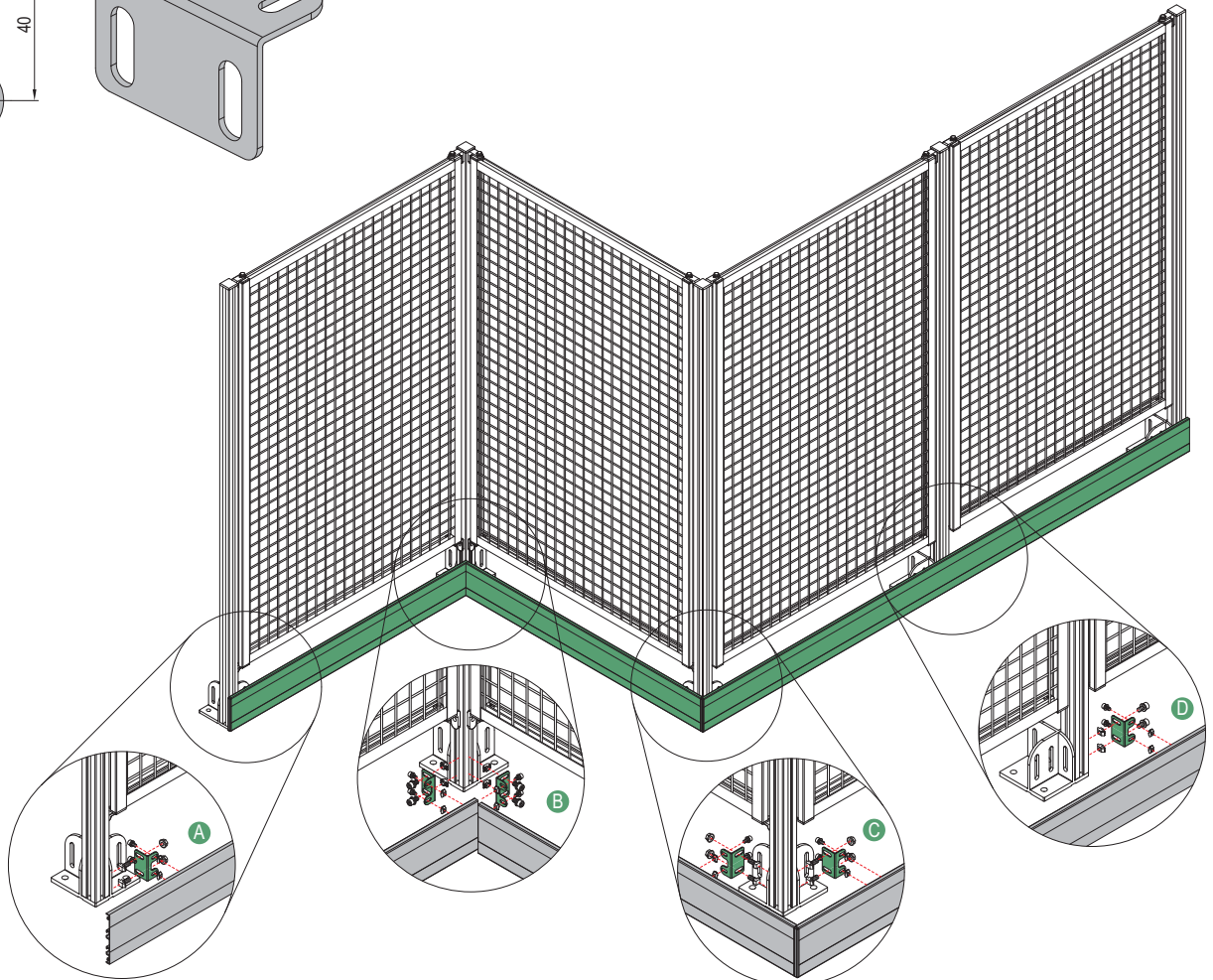
Machine guard kick plate profile  
防护踢脚板连接件

The kick plate connector is for connection between kick plate profile and the machine guard unit. Only one set of fastening set is needed at the location A and C and can be used both on kick plate connector and base plate.  
踢脚板连接件用于踢脚板型材与防护单元之间的连接，在图示A处与C处使用踢脚板连接件时，可共用隔断支脚的紧固组件进行连接。



EA	Fastening Set	EB	Fastening Set
	M6x12 Bolt zinc plated		M8x16 Bolt zinc plated
	M6 Spring Washer zinc plated		M8 Spring Washer zinc plated
	M6 Washer zinc plated		M8 Washer zinc plated
	M6 T Nut-8.2 nickel plated		M8 T Nut-10.2 nickel plated

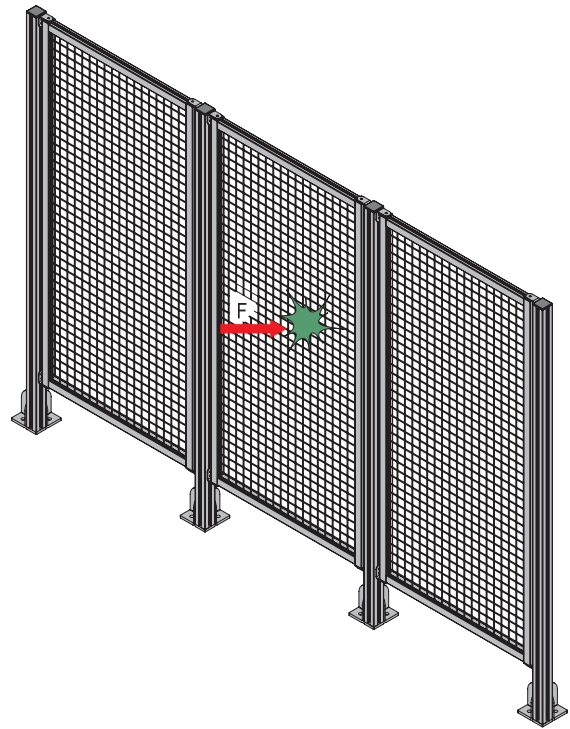
Description 描述	Fastening Set 紧固组件	Mass (g) 重量 (g)	Part No. 订购编号
Machine guard kick plate profile (pcs) 防护踢脚板连接件 (单个供货)		46	PNDH40.MGKPP
Machine guard kick plate profile (set) 防护踢脚板连接件 (成套供货)	2xEA+2xEB	78	PNDH40.MGKPP.ST



### Load Capacity of Machine Guard (PG40) 机械防护的负载能力 (40 系列)

The special fastening structure design gives the machine guard system a higher capacity of load. An excess load will generate a temporary deformation. When the excess load is removed, it will come back to its initial state. Here after is the value of F-the maximal excess load.

防护型材的特殊夹紧结构设计使整个防护围栏具有更高的负载能力.在承受一定的负载时防护网会产生变形,当撤掉负载后防护网会自动弹到初始状态,以下数据为实际测试得出,F max为防护围栏可承受的最大载荷。

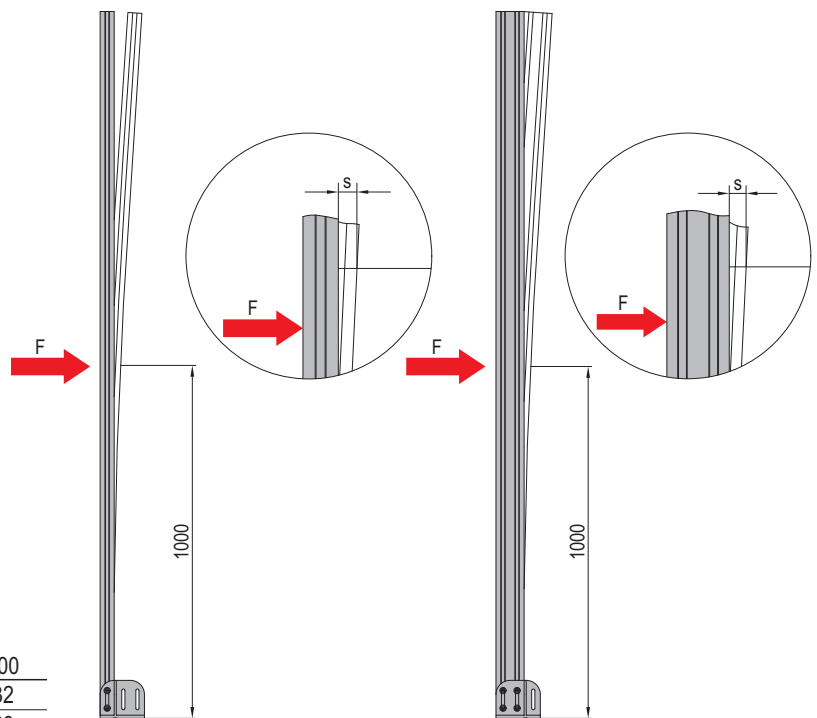


P.M-09	H(mm)	W(mm)	F(N)
PN40.18000420.STA.01	1800	420	1500
PN40.18000670.STA.01	1800	670	1000
PN40.18000920.STA.01	1800	920	800

### Load Capacity of Strut Element (PG40) 立柱单元的负载能力 (40 系列)

The force needed to excuse the machine guard system strut elements, was determined in a series of tests as following.

当外力作用于紧固在地面上的机械防护系统立柱单元时,型材将产生变形,测试后变形量如下:



F[N]	100	150	300	450	600
s [mm] 45x45	6	10	14	23	32
45x90	3	4.5	7.5	13.5	20

## Assembly of Protective Grille Unit 防护网单元安装

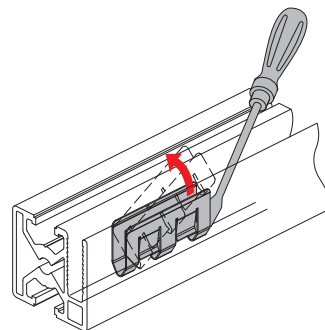
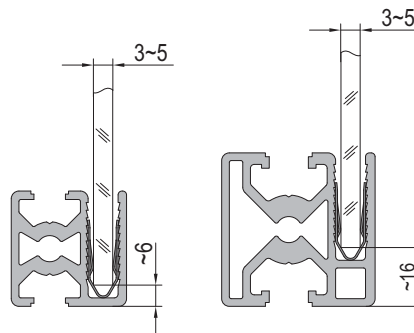
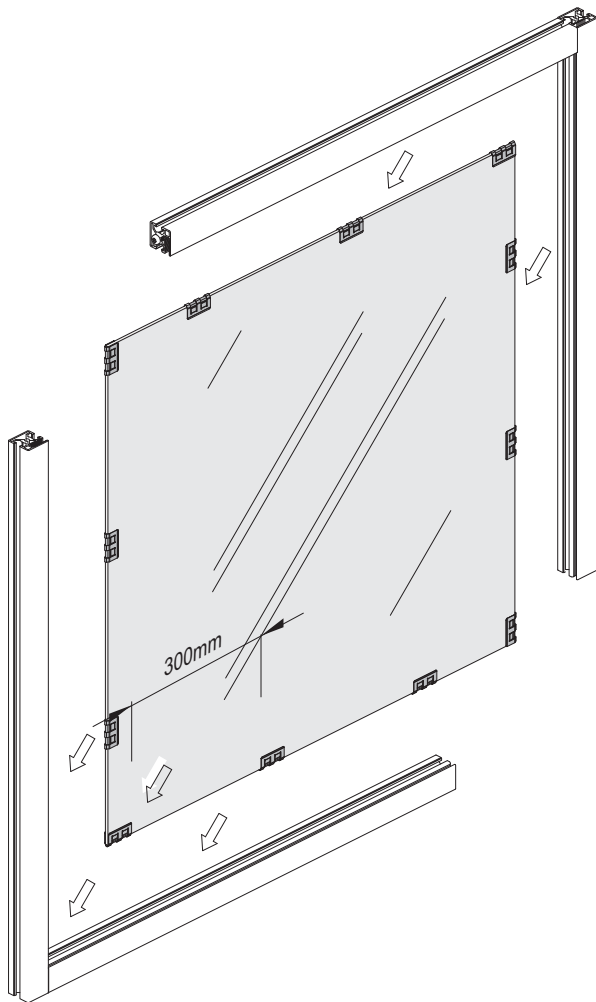
### Assembly of spring clamping nut 夹板弹片安装

#### Assembly: 安装方法:

1. Preassemble the frame.
  2. Place spring clamping nut on panel. One element in each corner prevents the panels from rattling.
  3. Insert panel in the preassembled frame.
  4. Mount the frame.
1. 预装框架
  2. 将夹板弹片安装在板材上，在每个角安装一个夹板弹片，以防止板材的串动。
  3. 将安装过夹板弹片的板材安装在预装好的框架上。
  4. 紧固框架。

#### Disassembly: 拆卸方法:

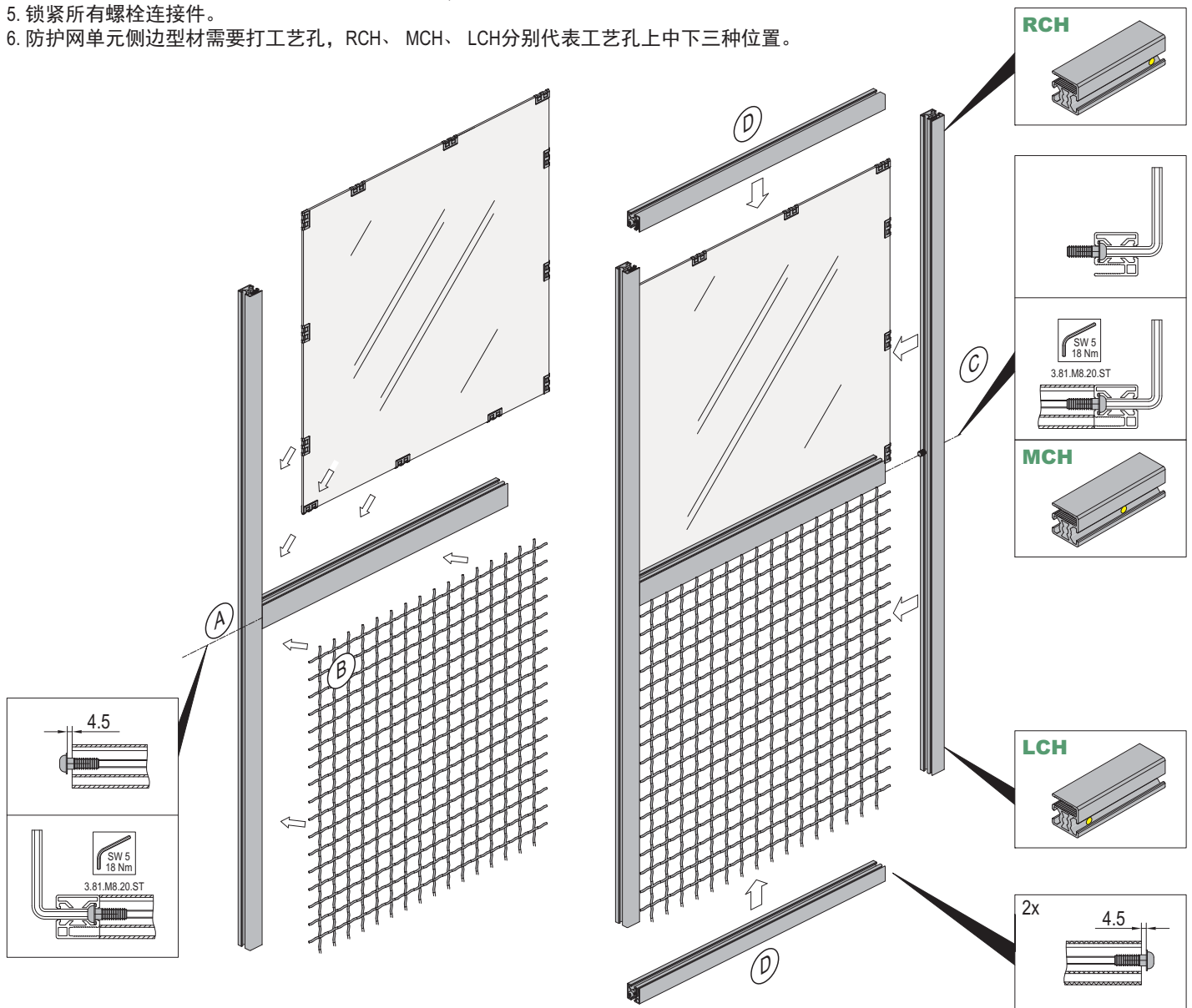
1. Disassemble the frame.
  2. Remove panel.
  3. Remove the spring clamping nuts in the groove using a screwdriver.
1. 拆卸框架。
  2. 移除板材。
  3. 使用螺丝刀移除留在型材中的夹板弹片。



Assembly of Protective Grille Unit  
防护网单元安装

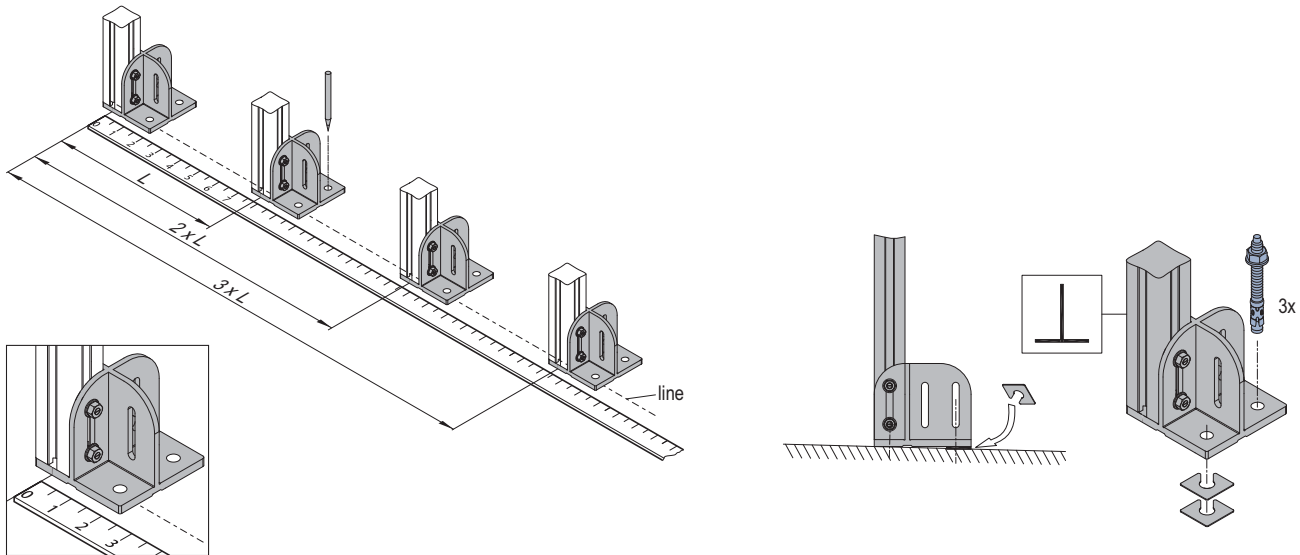
Assembly of Protective Frames  
防护网单元框架安装

1. Make a "T" out of protective grille profile (take 40x40 protective grille profile as example), then preassemble screw connector (3.81.M8.20.ST) as figure A indicated.
  2. Insert woven wire mesh or panel into the corner as figure B indicated.
  3. Slide the screw connectors into the profile groove and tighten loosely as figure C indicated.
  4. Insert outer profiles as figure D indicated.
  5. Tighten all screws.
  6. The side profile of protective grille unit should be drilled. RCH/MCH/LCH shows the position of the hole.
1. 使用防护网型材搭接成“T型”(以4040防护网型材为例)依图示尺寸预装螺栓连接件(3.81.M8.20.ST), 如图A。  
2. 将编织网或预装过夹板弹片的板材装入框架, 如图B。  
3. 将螺栓连接件滑入侧面防护网型材槽口中, 将螺栓连接件装入T型框架上, 但不锁紧, 如图C。  
4. 将预装过螺栓连接件的上下两侧型材装入框架中, 如图D。  
5. 锁紧所有螺栓连接件。  
6. 防护网单元侧边型材需要打工艺孔, RCH、MCH、LCH分别代表工艺孔上中下三种位置。



Assembly of Strut Element  
立柱单元安装

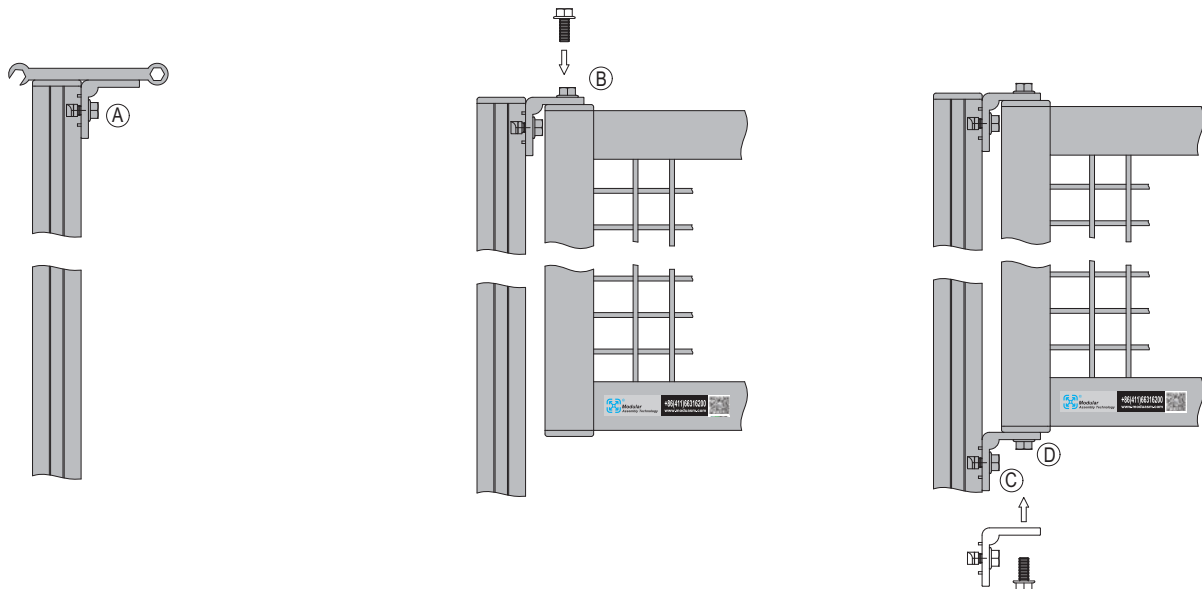
For constructing machine guard strut elements. Enables you to draw straight lines on the floor for aligning and positioning supports quickly and easily.  
在安装机械防护系统立柱单元时，使用工具在地面上画出一条直线后，按照间距要求画出立柱单元的定位位置，再进行定位固定安装。



A gasket will be needed to adjust vertical alignment on uneven floor.  
如果安装地面不是水平面时，可以通过增加垫片调整立柱单元垂直。

Assembly of Protective Grille Unit  
防护网单元安装

1. Mount the connecting elements by positioning tool, and then fasten the screw A.
  2. Attach the connecting elements to protective grille unit, mount the screw B.
  3. Attach the lower connecting elements to protective grille unit, and then fasten screw C.
  4. Mount the screw D on the protective grille unit, and then fasten the screw to finish assembly work.
1. 使用工具定位安装连接组件，并锁紧螺栓A。
  2. 将防护单元安装到连接组件上，安装螺栓B并锁紧。
  3. 如图所示安装防护单元下方的连接组件，并锁紧螺栓C。
  4. 将螺栓D安装到防护单元上，并锁紧，完成安装。



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