Profession Devotion Keep Improving

What's inside...
Assembly Technology

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

Try once, and you will never change!!!

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Modular Conveyor System 模块化输送系统

Modular Conveyor System (MCS) adopts advanced manufacturing concept, providing products made in mold, standardized and modularized. They are widely used in car component production, electronic, home appliance, mechanical, logistics, tobacco, packing, building material, cosmetic, food, pharmaceutical, photovoltaic and other industry.

模塊化輸送系統採用目前世界先進的製作理念，產品模塊化、模塊化、標準化，輸送產品主要分為托盤輸送系統和基礎輸送系統兩大部分；广泛地用于汽车零部件制造、电子产品、家电、机械、物流、烟草、包装、建材、化妆品、食品、医药、光伏等行业。

Refer to “Modular Conveyor System” catalogue 详情参见“模块化输送系统目录”

Conveyor Parameter

<table>
<thead>
<tr>
<th>Key Parameter</th>
<th>PTS1</th>
<th>PTS1/H</th>
<th>PTS2</th>
<th>PTS4</th>
<th>PTSS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conveying Medium</td>
<td>1kg/cm</td>
<td>2kg/cm</td>
<td>3kg/cm</td>
<td>200g for each pair of rollers</td>
<td>300g/cm</td>
</tr>
<tr>
<td>Max. Unit Load Capacity</td>
<td>1kg/cm</td>
<td>1.5kg/cm</td>
<td>2kg/cm</td>
<td>2000kg</td>
<td>4kg/cm</td>
</tr>
<tr>
<td>Max. Total Load Capacity</td>
<td>60kg</td>
<td>1000kg</td>
<td>2200kg</td>
<td>150kg</td>
<td>3000kg</td>
</tr>
</tbody>
</table>

Conveyor Typical Application

<table>
<thead>
<tr>
<th>Conveyor Type</th>
<th>PTS1</th>
<th>PTS1/H</th>
<th>PTS2</th>
<th>PTS4</th>
<th>PTSS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTS1</td>
<td>Lw=160~640mm</td>
<td>Lw=160~640mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTS1/H</td>
<td>Lw=240~1000mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTS2</td>
<td>Lw=400~1200mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTS4</td>
<td>Lw=600~1500mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTSS</td>
<td>Lw=1200~1600mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Gross Mass of each pallet and workpiece 每个托盘和工件的总质量(kg)

WP2/S Workpiece Pallet

Plastic structures, the positioning accuracy of pallet operating horizontally is ±0.1mm. 塑料结构，水平条件下定位精度为±0.1mm.

90º Round Belt Curve

90° curve conveying of the pallet one by one without accumulation. 90°曲线输送托盘一个接一个，不产生积压。

Pneumatic Damping Stop

To smoothly stop and separate the pallets and avoid pallet rebound due to rigid stop. 为了平稳停止和分离托盘，避免由于硬性止动引起的反弹。

30KG Lift Unit

Vertical transfer between upper and lower conveyor with changing pallet direction. 上下输送机之间垂直输送，改变托盘的方向。

http://www.moduasm.com
PTS4 Pallet Conveyor PTS4 托盘输送系列

Maximum length of conveyor is 20M, and maximum load capacity is 3000kg.

Requirements of pallet (PA) module
Min. 160mmx160mm  Max. 640mmx640mm  Not Available  Custom Made

PTS5 Pallet Conveyor  PTS5 托盘输送系列

Maximum length of conveyor is 6M, and Load capacity per meter is 800kg.

WP2/S Pallet

Max. Stop Capacity

Conveyor Length

Pallet Width

Max. Load Capacity

PTS5 Pallet Conveyor (Bevel Gear)

PTS5 Pallet Conveyor (Chain)

Conveyor Length

Pallet Width

Max. Load Capacity

PTS5 Pallet Conveyor (Belt Conveyor)

Conveyor Length

Pallet Width

Max. Load Capacity

WP2/S Pallet

Max. Stop Capacity

Conveyor Length

Pallet Width

Max. Load Capacity

Pneumatic double action damper

Pneumatic stop

Pneumatic double action damper

Pneumatic stop

http://www.moduasm.com

Modular Conveyor System 模块化输送系统
Modular Conveyor System 模块化输送系统

PTS1/H Pallet Conveyor Line

http://www.moduasm.com

Modular Assembly Technology

07/08

PTS2 Pallet Conveyor Line

PTS2 模块化输送线
Basic transfer system consist of varies type of conveyors to meet different production conditions. 基本输送系统由各种形式的输送设备组成，适用于不同生产条件。

Refer to “Modular Conveyor System” catalogue 详情参见“模块化输送系统”手册。
Profile Introduction 产品介绍

Modular Assembly System 模块化工业组装系统

Modular Assembly (MAS) is composed of industrial aluminum profiles and accessories. You can quickly find a solution for all tasks with the complete specification of profile and variety of accessories from MAT.

Extruded aluminum profile as per GB5237-2008, surface satin anodized, standard length of delivery profiles are: 6000mm for delivery inside China, 5800mm for international shipment.

Profiles are divided by use into strut profile, clamping profile, protective grille profile, angle profile and conduit profile; by slot width into 6.2, 8.2 and 10.2mm, by dimension into PG15, 20, 30, 40, 45, 50 and 60, six series with around one hundred of different profiles.

Refer to “Modular Assembly System” catalogue for more details.

http://www.moduasm.com
## Accessories Introduction

### Fastening Elements

<table>
<thead>
<tr>
<th>Component</th>
<th>Representation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pin set Nuts</td>
<td><img src="image" alt="Pin set Nuts" /></td>
</tr>
<tr>
<td>Square Nut</td>
<td><img src="image" alt="Square Nut" /></td>
</tr>
<tr>
<td>T Nut</td>
<td><img src="image" alt="T Nut" /></td>
</tr>
<tr>
<td>Subsequent Nut</td>
<td><img src="image" alt="Subsequent Nut" /></td>
</tr>
<tr>
<td>Horizontal Nut</td>
<td><img src="image" alt="Horizontal Nut" /></td>
</tr>
<tr>
<td>Subsequent Nut Follower</td>
<td><img src="image" alt="Subsequent Nut Follower" /></td>
</tr>
<tr>
<td>T Bolt Reduction Box</td>
<td><img src="image" alt="T Bolt Reduction Box" /></td>
</tr>
</tbody>
</table>

### Connecting Elements

<table>
<thead>
<tr>
<th>Component</th>
<th>Representation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchor Connector</td>
<td><img src="image" alt="Anchor Connector" /></td>
</tr>
<tr>
<td>Die Cast Bracket</td>
<td><img src="image" alt="Die Cast Bracket" /></td>
</tr>
<tr>
<td>Die Cast Bracket Cap</td>
<td><img src="image" alt="Die Cast Bracket Cap" /></td>
</tr>
<tr>
<td>Angle Profile Bracket</td>
<td><img src="image" alt="Angle Profile Bracket" /></td>
</tr>
<tr>
<td>Inner Bracket</td>
<td><img src="image" alt="Inner Bracket" /></td>
</tr>
<tr>
<td>Linear Bar Connector</td>
<td><img src="image" alt="Linear Bar Connector" /></td>
</tr>
<tr>
<td>Joining Plate</td>
<td><img src="image" alt="Joining Plate" /></td>
</tr>
</tbody>
</table>

### Door and Window Elements

<table>
<thead>
<tr>
<th>Component</th>
<th>Representation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handle</td>
<td><img src="image" alt="Handle" /></td>
</tr>
<tr>
<td>Handled Ring Handle</td>
<td><img src="image" alt="Handled Ring Handle" /></td>
</tr>
<tr>
<td>Aluminum Handle</td>
<td><img src="image" alt="Aluminum Handle" /></td>
</tr>
<tr>
<td>Angle</td>
<td><img src="image" alt="Angle" /></td>
</tr>
<tr>
<td>Steel Handle</td>
<td><img src="image" alt="Steel Handle" /></td>
</tr>
<tr>
<td>Stainless Steel Handle</td>
<td><img src="image" alt="Stainless Steel Handle" /></td>
</tr>
<tr>
<td>T Bolt Door</td>
<td><img src="image" alt="T Bolt Door" /></td>
</tr>
<tr>
<td>Door Stop</td>
<td><img src="image" alt="Door Stop" /></td>
</tr>
</tbody>
</table>

### Additional Accessories

<table>
<thead>
<tr>
<th>Component</th>
<th>Representation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suspension Glide</td>
<td><img src="image" alt="Suspension Glide" /></td>
</tr>
<tr>
<td>Swivel Angle Plate</td>
<td><img src="image" alt="Swivel Angle Plate" /></td>
</tr>
<tr>
<td>Parallel Equalizer Nut</td>
<td><img src="image" alt="Parallel Equalizer Nut" /></td>
</tr>
<tr>
<td>Joint</td>
<td><img src="image" alt="Joint" /></td>
</tr>
<tr>
<td>Frame Joint</td>
<td><img src="image" alt="Frame Joint" /></td>
</tr>
<tr>
<td>Mounting Support Trapeze</td>
<td><img src="image" alt="Mounting Support Trapeze" /></td>
</tr>
<tr>
<td>Telescope Unit</td>
<td><img src="image" alt="Telescope Unit" /></td>
</tr>
</tbody>
</table>

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**MAS Modular Assembly System**

http://www.moduasm.com
Machine Guard System is a protection unit composed of special clamping profile, connector, and net or panel, etc. It offers a simple and quick assembly. Compared with MAS, MGS provides the customer with a lower cost.

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

**Safe and protective**
MGS offers protection against parts that fly out, leaking liquid materials or similar things. The safety distances are dependent on the machine guard height. As indicated (safety area is marked in green shadow): The distance of 650 mm in the foot area cannot get sufficient safety protection. The height from the floor is 200 mm. As indicated (safety area is marked in green shadow): The distance of 650 mm in the foot area cannot get sufficient safety protection.

**Modular Assembly Technology**

Machine Guard System (MGS) is designed for customers with advanced guarding needs. The special design of guarding profiles offers more stable structure and better appearance and unique fastening elements to bring faster and safer connections. The guarding unit can be covered with mesh, PMMA panels, aluminum composite panels, or similar panel materials. Please refer to MGS catalogue for more detailed instructions.

Refer to "Machine Guard System" catalogue.

http://www.moduasm.com
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).

Protective Grille Profile 防护网架

Protective Grille Profile Inserting Panel 防护网架夹板

3-5mm transparent PMMA panel

Spring Clamping Nut: Recommended distance is 300mm

Machine Guard System 机械防护系统

Protective Grille Profile 插入网格

Protective Grille Profile Inserting Mesh 防护网架插入网格

40x40mm, QA woven mesh

40x40mm, QA编织网

Protective Grille Profile Inserting Panel 防护网架夹板

3-5mm transparent PMMA panel

Connecting Element 连接件

Door Shutter 门扇

Guide Block for Sliding Door 滑动门导轨

Pulley Block for Sliding Door 滑动门导轮

Protective Grille Unit 防护网架单元

Stout Elements 门框单元

Machine Guard Kick Plate 防护踢脚板

Machine Guard Kick Plate End Cap 防护踢脚板端帽

Die Cast Bracket 合金支架

Door Shutter 门扇

Pulley Block for Sliding Door 滑动门导轮

Bolt Connector 螺栓连接件

Bushing 连接器

Anti-rollback Subsequent Nut 防倒置螺帽

Strut Element 门框单元

Profile for strut elements 门框单元

Al Removable Hinge 铝可拆卸铰链

Profile Rail 门框导轨

Door Latch 门锁

Guide Block for Sliding Door 滑动门导轨

Lock for Sliding Door 滑动门锁

Profile Rail 门框导轨

Machine Guard Kick Plate 防护踢脚板

Machine Guard Kick Plate Profile Connector 防护踢脚板连接件

http://www.moduasm.com
**Product introduction 产品介绍**

**Loading capacity 承载性**

The platform floor is composed of step profile and aluminum clamp. The step profile is high strength aluminum which will form a compatible surface with the strut profile and the loading capacity will obviously improved.

**Safety and reliability 可靠性**

The guardrail is structured by 40mm aluminum tube. The design of closed frame forms the continuous guardrail. The flat surface at the connection part of tube and connectors avoid the potential danger to the operator.

**Unlimited possibilities 扩展性**

The combination of the step profile and strut profile increases the possibility of application. The system is compatible with most of MAS components which could expand system functionality.
Safety Requirement of Stair and Platform
踏步平台安全要求

- Depth of step t not less than 80mm.
  踏步深度t不小于80mm。
- Vertical distance between steps h not more than 250mm.
  踏步高度h不大于250mm。
- The distance between steps in the same section should be the same. The distance between the first step and the ground level can be max. 15% less than the min. 1100mm.
  同一阶段内的踏步间距应保持一致。起始踏步和第一级踏步之间不能低于同一高度的情况下，最多可以减少15%。
- The net width of the step should be not less than min. 900mm. The standard width is 800mm. The width should be increased to 1000mm where people come across on the step.
  踏步的净宽度不应小于最小900mm。标准宽度为800mm。同一阶段的踏步宽度应增加到1000mm。

Safety Requirement of Guardrail
护栏的安全要求

- The guardrail is required where the platform height is more than 500mm or the platform passes the dangerous area.
  当平台高度超过500mm或通过危险区域时，需安装护栏。
- The distance between two posts can`t be more than 1500mm.
  两根立柱之间的最大间距不超过1500mm。
- The vertical distance of two guardrails can`t be more than 500mm and the total height of the guardrail can`t be less than 1100mm.
  两道护栏之间的垂直距离不超过500mm，护栏总高度不得低于1100mm。
- The kick plate is optional to be installed at both sides of platform to avoid the falling of goods.
  为避免物体从平台滑落，可在平台两侧安装踢脚板。
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.

The TFS is widely used in factories, warehouses and especially assembling process of household, automobile, light industry and electronics industries. It is an essential tool for logistics integrations.

The TFS is composed of kinds of tube profile and standard components which can be put together easily at your need and can be improved and expanded at any time. Tubular Framing System is a modular system that is very versatile and can be adapted to a wide range of needs.

Economical and quick 经济快捷
TFS uses light weight aluminum profile and connector which adapt to the idea of lean production. Except for the loading capacity, not much exact data and construction rules need be considered. It gives a simple and quick assembly. Compared with MAS, it will provide the customer with a lower comprehensive cost of use.

Flexibility 灵活多样
TFS has exchange connector to allow the easy connection with MAS 10.2 slot strut profile. With this connector, TFS can be applied to more area and to satisfy the client for the requirement of versatility and diversity of lean production.

Unlimited possibilities 扩展性
TFS has exchange connector to allow the easy connection with MAS 10.2 slot strut profile. With this connector, TFS can be applied to more area and to satisfy the client for the requirement of versatility and diversity of lean production.

Refer to "Tubular Framing System" catalogue
详情参见“线棒柔性系统样品”

Modular Assembly Technology

http://www.moduasm.com
Installation Mode 安装方式

Connectors can be divided by the way of installation into outer connectors and inner connectors.

Installation for Outer Connector 外部安装方式

Installation for Inner Connector 内部安装方式

Bearing Capacity 承载力

Bearing capacity of connector: 承载连接器如下:

System Comparison 系统对比

Tubular Framing System (Profile Tube D28) 线管柔性系统 (管型材D28)

Modular Assembly System (PG30 30x30) 模块化组装系统 (30系列30x30)

<table>
<thead>
<tr>
<th>Description 系统描述</th>
<th>Mass 重量</th>
<th>Load Capacity 最大负载能力</th>
<th>Assembly time 安装时间</th>
<th>Price 价格</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tubular Framing System (Profile Tube D28) 线管柔性系统 (管型材D28)</td>
<td>9kg</td>
<td>1800kg</td>
<td>40min</td>
<td>$$$</td>
</tr>
<tr>
<td>Modular Assembly System (PG30 30x30) 模块化组装系统 (30系列30x30)</td>
<td>18kg</td>
<td>3200kg</td>
<td>60min</td>
<td>$$$</td>
</tr>
</tbody>
</table>

http://www.moduasm.com
Worldwide Sales Network
产品销售覆盖全中国
Our products have been exported to many countries such as America, Canada, Mexico, Australia, France, New Zealand, Spain, Chile, Uruguay, Argentina, South Africa etc.
并出口美国、加拿大、墨西哥、澳大利亚、新西兰、法国、西班牙、智利、乌拉圭、阿根廷、南非等众多国家。
We reserve the right to update our product specifications and improve the production process without any notice and obligations, please refer to the latest catalogues from our website or contact us at info@moduasm.com.

Modular Assembly Technology Co., Ltd.
大连美德乐工业组装技术有限公司

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