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

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.

Machine Guard System (MGS) is designed for customers with advanced guarding needs. The special design of guarding profiles offer better appearance and unique fastening elements bring faster and safer connections.

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.

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 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.

Module systems are mainly used for conveying belts, roller conveyors, chain conveyors, pallet conveyors, rotary, lift unit, etc. They are widely used in automotive component production, pharmaceutical, electronics, tobacco, packaging and other industries.
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

Modular Conveyor System---
模块化输送系统

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
<table>
<thead>
<tr>
<th>Pallet Transfer System</th>
<th>Basic Conveyor System</th>
</tr>
</thead>
<tbody>
<tr>
<td>WP2/S Pallet</td>
<td>Free Roller Conveyor</td>
</tr>
<tr>
<td>WP2/C Pallet</td>
<td>Powered Roller Conveyor</td>
</tr>
<tr>
<td>PTS1 Pallet Conveyor</td>
<td>Top Chain Conveyor</td>
</tr>
<tr>
<td>PTS1/H Pallet Conveyor</td>
<td>Flexible Chain Conveyor</td>
</tr>
<tr>
<td>PTS2 Pallet Conveyor</td>
<td>Straight Chain Belt Conveyor</td>
</tr>
<tr>
<td>90° Round Belt Curve</td>
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<td>180° Round Belt Curve</td>
<td>Belt Conveyor</td>
</tr>
<tr>
<td>90° Forced Round Belt Curve</td>
<td>Guardrail</td>
</tr>
<tr>
<td>30kg Lift and Transverse Unit</td>
<td>Support Stand</td>
</tr>
<tr>
<td>30kg Lift and Positioning Unit</td>
<td>Toothed Belt Conveyor</td>
</tr>
<tr>
<td>30kg Rotate Unit</td>
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</tr>
<tr>
<td>30kg Lift Unit</td>
<td>Belt/Motor</td>
</tr>
<tr>
<td>Conveying Control Device</td>
<td></td>
</tr>
</tbody>
</table>
Pallet Transfer System (PTS) are composed of PTS1/PTS1/H/PTS2/PTS4 and PTS5 differ in size and permissible load. The pallet transfer system consists of standardized components which can be flexibly combined with other units to suit specific production conditions.

托盘输送系统 (PTS) 是根据单个托盘最大满载总重量不同而分类，分别为 PTS1/PTS1/H/PTS2/PTS4/PTS5系列，在每个系列中，使用标准线体和高度模块化的配套机构，可以应对多种场合进行便捷的组合使用，以满足各种自动化生产的需求。
PTS Pallet Transfer System Overview
PTS 托盘输送系统分类

Permissible loading weight for pallet
按照单个托盘满载总重量分类

600 kg
PTS 5

200 kg
PTS 4

60 kg
PTS 2

30 kg
PTS1/H

15 kg
PTS1
The control device is an essential part of pallet transfer system. It is used to stop, transfer and distribute the pallet to realize automatic flexible control of the pallet transfer system.

Transportation control 能输送控制装置

When the stop is used with WP2/S and WP2/C, it will be mounted in rear right or front left position in the direction of transport.

Installation position of pallet stop 托盘挡停器安装位置

在使用WP2/S或WP2/C托盘时，挡停装置在托盘输送方向的左前侧、右后方进行挡停
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST.PN.01/A-180</td>
<td>Pneumatic stop</td>
<td>56</td>
</tr>
<tr>
<td>ST.PN.01/A-180气动挡停器</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ST.PN.02/A-60</td>
<td>Pneumatic damper stop</td>
<td>59</td>
</tr>
<tr>
<td>ST.PN.02/A-60气动缓冲挡停器</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ST.PN.02/...-150</td>
<td>Pneumatic damper stop</td>
<td>62</td>
</tr>
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<td>ST.PN.02/...-150气动缓冲挡停器</td>
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<td></td>
</tr>
<tr>
<td>BU.PN.01/...-60</td>
<td>Pneumatic damper</td>
<td>67</td>
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<tr>
<td>BU.PN.01/...-60气动缓冲器</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BU.PN.01/...-120</td>
<td>Pneumatic damper</td>
<td>72</td>
</tr>
<tr>
<td>BU.PN.01/...-120气动缓冲器</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BU.PN.02/...-60</td>
<td>Pneumatic double action damper</td>
<td>77</td>
</tr>
<tr>
<td>BU.PN.02/...-60气动双作用缓冲器</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BU.PN.02/...-120</td>
<td>Pneumatic double action damper</td>
<td>82</td>
</tr>
<tr>
<td>BU.PN.02/...-120气动双作用缓冲器</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BU.PN.02/...-220</td>
<td>Pneumatic double action damper</td>
<td>87</td>
</tr>
<tr>
<td>BU.PN.02/...-220气动双作用缓冲器</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RS.01</td>
<td>Return stop</td>
<td>92</td>
</tr>
<tr>
<td>RS.01止回器</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ST.PN.01/A-180 Pneumatic stop
ST.PN.01/A-180气动挡停器

Features/Benefits 特征

1. No inverse operation allowed and to be installed directly on the conveyor line.
   不允许反向操作，直接安装在输送线体上。

2. Operation noise less than 60dB. The adjustment valve can be used if lower noise is expected.
   运行噪音小于60dB，如需进一步降低工作产生的噪音，可以使用调速阀。

3. Stop and release height is 9mm.
   阻挡、放行高度为9mm。

4. It can be used on PTS1, PTS2 or PTS1/H conveyor to control WP2/S or WP2/C pallet.
   可与WP2/S、WP2/C 拖盘组合，配合PTS1、PTS2和PTS1/H拖盘输送机使用。

5. It stops or releases the pallet at the defined position and realize the accumulation or distribution of multi-pallets.
   可实现托盘在预定位置的停止和放行，并可实现多个托盘的堆放和分盘。

6. When the pressure is released, the stop is closed by a spring and the workpiece pallet is stopped.
   当压力释放时，弹簧将挡停器关闭，从而挡住托盘。

Supply mode 供货方式

1. Scope of delivery
   供货范围
   Including all positioning and fastening sets (2xHT+1xGM) to mount on pallet conveyor.
   包括所有用于托盘输送机上安装的挡停器定位件及紧固件 (2xHT+1xGM)

   ![](image)

2. Delivery condition
   供货状态
   Equipped
   已装配
## Specifications

<table>
<thead>
<tr>
<th>Part No.</th>
<th>50801100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pallet max. mass</td>
<td>180</td>
</tr>
<tr>
<td>Mass</td>
<td>560</td>
</tr>
<tr>
<td>ESD</td>
<td>Yes</td>
</tr>
<tr>
<td>Material</td>
<td>Case: aluminum alloy (black) 主壳体：铝合金(黑色) Stop rod: nickel plated carbon steel 止动杆：硬钢镀镍</td>
</tr>
<tr>
<td>Working temperature (°C)</td>
<td>0...60</td>
</tr>
<tr>
<td>Quick connector</td>
<td>Hose, outer diameter Φ6 外径为Φ6的通气软管</td>
</tr>
<tr>
<td>Pressure range</td>
<td>0.4<del>0.8 clean compressed air 0.4</del>0.8的净化压缩空气</td>
</tr>
</tbody>
</table>

## Ordering reference

ST.PN.01/A-180

Max. load 180kg 最大负荷180kg
Stopper type 挡板类型
Without damping 无缓冲
Pneumatic 气动
Stop 挡停

## Installation position

ST.PN.01/A-180 Pneumatic stop气动挡停器
ST.PN.02A-60 Pneumatic damping stop
ST.PN.02A-60气动缓冲挡停器

Features/Benefits 特征

1. No inverse operation allowed and to be installed directly on the conveyor line.
   不允许反向操作，直接安装在输送线上。

2. Operation noise less than 60dB. Stop and release height is 9mm, buffer stroke is 19mm.
   运行噪音小于60dB，阻挡、放行高度为9mm，缓冲行程为19mm。

3. It can be used on PTS1, PTS2 or PTS1/H conveyor to control WP2/S or WP2/C pallet.
   可与WP2/S、WP2/C托盘组合，配合PTS1、PTS2和PTS1/H托盘输送线使用。

4. Damped stopping of the first accumulating pallet. It stops one or more accumulating pallets at the defined position.
   缓冲挡停第一个托盘。该挡停器将一个或多个堆积的托盘挡停在指定的位置上。当压力释放时，
   弹簧将挡停器关闭，从而停住托盘。

5. It is mounted inside the tracks directly on the conveyor line.
   在轨道之内直接安装在输送线上。

Supply mode 供货方式

1. Scope of delivery
   供货范围
   Including all positioning and fastening sets (2xDZ+1xGM) to mount on pallet conveyor.
   包括所有用于托盘输送机上安装的挡停器定位件及紧固件 (2xDZ+1xGM)

2. Delivery condition
   供货状态
   Equipped
   已装配
**Specifications**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>50802100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pallet max. mass</td>
<td>60</td>
</tr>
<tr>
<td>Pallet min. mass</td>
<td>1</td>
</tr>
<tr>
<td>Mass</td>
<td>550</td>
</tr>
<tr>
<td>ESD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Material**

- Case: aluminum alloy (black)
- Stopper: nickel plated carbon steel

**Working temperature**

- 0 to 60°C

**Quick connector**

- Hose, outer diameter 16

**Pressure range**

- 0.4-0.8 clean compressed air
- 0.4-0.8的净化压缩空气

---

**Ordering reference**

ST.PN.02/A-60

- Max. load 60kg 最大负载60kg
- Stopper type 挡板类型
- With damping 带缓冲
- Pneumatic 气动
- Stop 挡停

**Installation position**

[Diagram of installation position]

**Image**

![Image of Pallet Transfer System]
ST.PN.02/-.150 Pneumatic damping stop

1. All-metal design with double piston damper.
   金属结构，带双活塞缓冲器。
2. No inverse operation allowed and to be installed directly on the conveyor line or on the cross bracing of conveyor line.
   不允许反向操作，直接安装在输送线上或安装于线体内横向支架上。
3. Operation noise less than 60dB. Stop and release height is 8.5mm, buffer stroke is 20mm.
   运行噪声小于60dB，阻尼、放行高度为8.5mm，缓冲行程为20mm。
4. It can be used on PTS1, PTS2, PTS1/H and PTS4 conveyor to control WP2/S or WP2/C pallet. When the pallet width is more than 640mm, and installed on PTS4 conveyor, please choose ST.PN.02/B-150 pneumatic damping stop. The pallet is custom made pallet.
   可与WP2/S、WP2/C 托盘组合，配合PTS1、PTS2、PTS1/H或PTS4等托盘输送机使用。托盘宽度大于640mm时配备PT4托盘输送机使用时，请选用ST.PN.02/B-150气动缓冲挡停器，非标准托盘。
5. Damped stopping of the first accumulating pallet. It stops one or more accumulating pallets at the defined position.
   运行时，带有缓冲和加速功能的前一个托盘。该挡停器将一个或多个积存的工件托盘挡停在指定的位置上。

Supply mode 供货方式

1. Scope of delivery
   供货范围
   Stop with different stoppers
   两种不同档板的挡停器
   Fittings
   配件
   ST.PN.02/A-150 is installed on the inside of main conveyor section without support, including all positioning and fastening sets (2xZN) to mount on the conveyor.
   ST.PN.02/A-150安装于主线体内侧，无需支架，包括所有用于输送机上安装的紧固件(2xZN)
   ST.PN.02/B-150 Pneumatic damping stop is installed on the inside of main conveyor section with support. The support need to be ordered separately including fasteners 6xLG+4xDH+8xSG (see PG 66)
   ST.PN.02/B-150气动缓冲挡停器安装于主线体内侧，需单独订购支架(含紧固件 6xLG+4xDH+8xSG) (详见PG 66)

2. Delivery condition
   供货状态
   Equipped
   已装配
### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST.PN.02/A-150</td>
<td>50804191</td>
</tr>
<tr>
<td>ST.PN.02/B-150</td>
<td>50804192</td>
</tr>
<tr>
<td>Pallet max. mass</td>
<td>80kg</td>
</tr>
<tr>
<td>Pallet min. mass</td>
<td>5kg</td>
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<tr>
<td>ST.PN.02/A-150 Mass</td>
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<td>1583g</td>
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<td>ESD</td>
<td>Yes</td>
</tr>
<tr>
<td>Material</td>
<td>Case: aluminum alloy (black)</td>
</tr>
<tr>
<td>Working temperature</td>
<td>0…60°C</td>
</tr>
<tr>
<td>Quick connector</td>
<td>Hose, outer diameter Ø6</td>
</tr>
<tr>
<td>Pressure range</td>
<td>0.4-0.8 clean compressed air</td>
</tr>
</tbody>
</table>

### Ordering reference

- GT.PN.02/A-150
- Max. load 150kg
- Stopper type (A/B)
- With damping
- Pneumatic
- Stop

### Installation position

![Installation position](image1)

![Installation position](image2)

![Installation position](image3)
ST.PN.02/A-150 Pneumatic damping stop/气动缓冲挡停器

ST.PN.02/B-150 Pneumatic damping stop/气动缓冲挡停器
Circuit diagram
线路图

Stop capacity diagram
挡停能力图

Stop capacity 挡停能力(kg)
Rate speed 额定速度(m/min)
Support
支架

- Material: aluminum, steel, Diecast aluminum
- Used with ST-PN.028-150 pneumatic damper.
- Support length L is subject to the pallet width. The installation position of stop is subject to the corresponding location of the slot on the pallet.

Ordering reference
订购说明

<table>
<thead>
<tr>
<th>Product description</th>
<th>Delivery unit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support</td>
<td>1</td>
<td>50804103</td>
</tr>
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</table>

Dimension
尺寸
Pallet Transfer System 托盘输送系统

BU.PN.01/...-60 Pneumatic damper
BU.PN.01/...-60气动缓冲器

Features/Benefits 特征

1. No inverse operation allowed and to be installed at the end of the conveyor line or lift and transverse unit.
   不允许反向操作，直接安装在输送线体末端或顶升横移上。

2. Operation noise less than 60dB. Buffer stroke is 21.5mm. To work with WP2/S or WP2/C pallet.
   运行噪声小于60dB，缓冲行程为21.5mm。可与WP2/S或WP2/C托盘配合。

3. BU.PN.01A-60 pneumatic damper is suitable to be used on PTS1, PTS2 or PTS1/H conveyor.BU.PN.01/6-60 pneumatic damper is suitable to be used on lift and transverse unit.(Only for lift and transverse unit bigger than 320x320mm)
   BU.PN.01A-60气动缓冲器适合PTS1、PTS2或PTS1/H输送机使用。BU.PN.01/6-60气动缓冲器适合顶升横移使用。(仅适用于超过320x320mm的顶升横移单元)

4. The damper cushions the impact of pallets when they are moved from a lift and transverse unit onto a main conveyor section and vice versa.When the stop is open and the pallet moves to the damper, the damper reseats at the same time.
   在托盘移入或移出主线体时，缓冲器用于减少其冲击力。当挡停器打开，将托盘移到缓冲器时，缓冲器同时气动复位。

Supply mode 供货方式

1. Scope of delivery
   供货范围
   Damper with different stoppers
   两档不同挡板的挡停器

Fittings
   配件
   BU.PN.01A-60 is installed at the end of the main conveyor section with support. The support need to be ordered separately (including fasteners 2xHT+4xGT)(see PG 71).
   BU.PN.01A-60气动缓冲器需配合支架安装于主线体末端，请单独订购支架(含紧固件 2xHT+4xGT)(见PG 71)
   BU.PN.02/6-60 pneumatic damper is directly installed on the side plate of lift and transverse unit including fastening set (4xGT) installed on the lift and transverse unit.
   BU.PN.02/6-60气动缓冲器直接安装在顶升横移侧板上无需支架，包括所有用于顶升横移上安装的紧固件 (4xGT)。

2. Delivery condition
   供货状态
   Equipped
   已装配
Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
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<td>BU.PN.01/B-60 Part No.</td>
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<td>Pallet min. mass</td>
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<td>BU.PN.01/A-60 Mass</td>
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<tr>
<td>BU.PN.01/B-60 Mass</td>
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<tr>
<td>ESD</td>
<td>Yes</td>
</tr>
<tr>
<td>Material</td>
<td>Case: aluminum alloy (black) Stopper: nickel plated carbon steel Flange: stainless steel</td>
</tr>
<tr>
<td>Working temperature</td>
<td>0-60°C</td>
</tr>
<tr>
<td>Quick connector</td>
<td>Hose, outer diameter φ6</td>
</tr>
<tr>
<td>Pressure range</td>
<td>0.4-0.8BAR clean compressed air</td>
</tr>
</tbody>
</table>

Ordering reference

BU.PN.01/A-60

Max. load 60kg 最大负重60kg
Stopper type A/B 挡板类型A/B
Single action 单作用
Pneumatic 气动
Damper 缓冲

Installation position

BU.PN.01/A-60 Installed at the end of the main conveyor section, for feeding use BU.PN.01/B-60 Installed at the T-crossing, for feeding use
Circuit diagram
线路图

Stop capacity diagram
挡荷能力图
Support
支架

- Material: steel, black electrophoresis
- Materials: 钢，黑色电泳
- Used with BU.PN.01/A-60 pneumatic damper
  与BU.PN.01/A-60气动缓冲器配合使用。

Ordering reference
订购说明

<table>
<thead>
<tr>
<th>Product description</th>
<th>Delivery unit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support</td>
<td>1</td>
<td>50806103</td>
</tr>
</tbody>
</table>

Dimension
尺寸

![Dimension Diagram]

- 55mm
- 45mm
- 40mm
- 35.5mm
- 24mm
- 27.3mm
- 20mm
- 9.85mm
Pallet Transfer System 托盘输送系统

BU.PN.01/-...-120 Pneumatic damper
BU.PN.01/-...-120气动缓冲器

Features/Benefits 特征

1. No inverse operation allowed and to be installed at the end of the conveyor line or lift and transverse unit.
   不允许反向操作，应安装在输送线体末端或顶升横移上。

2. Operation noise less than 60dB. Buffer stroke is 34.5mm. To work with WP2/S or WP2/C pallet.
   运行噪声小于60dB，缓冲行程为34.5mm，可与WP2/S或WP2/C托盘组合。

3. BU.PN.01/A-120 pneumatic damper suitable for use on PTS1, PTS2 or PTS1/H conveyor.
   BU.PN.01/A-120气动缓冲器适合于PTS1、PTS2或PTS1/H输送机使用。

4. BU.PN.01/A-120 pneumatic damper is suitable for use on lift and transverse unit. (Only for lift and transverse unit bigger than 320x320mm)
   BU.PN.01/B-120气动缓冲器适合于顶升横移单元。 (仅适合320x320mm以上顶升横移使用)

5. The damper cushions the impact of workpiece pallets when they are moved from a lift and transverse unit onto a main conveyor section and vice versa.
   该缓冲器缓冲工作件托盘从顶升横移单元移动到主输送线体或反方向的冲击。

6. The adjustment screw at the back side of the damper is used to adjust the buffering force.
   通过缓冲器后方的调节螺钉调节缓冲的力度。

Supply mode 供货方式

1. Scope of delivery 供货范围
   Damper with different stoppers 两种不同挡板的挡停器

Fittings 配件
BU.PN.01/A-120 is installed at the end of the main conveyor section with support. The support need to be ordered separately (including fasteners 2xHT+4xGT) (see PG 76).
BU.PN.01/A-120气动缓冲器需配合支架安装于主输送线端，支架需单独订购（含紧固件 2xHT+4xGT）（参见PG 76）。
BU.PN.02/B-120 pneumatic damper is directly installed on the side plate of lift and transverse unit. Including fastening set (4xGT) installed on the lift and transverse unit.
BU.PN.01/B-120气动缓冲器直接安装于顶升横移外侧板上无需支架，包括所有用于顶升横移上安装的紧固件(4xGT)。

2. Delivery condition 供货状态
   Equipped 已装配
Specifications 规格配置

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>BU.PN.01/ A-120 Part No.</td>
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<tr>
<td>BU.PN.01/ B-120 Part No.</td>
<td>50805102</td>
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<tr>
<td>Pallet max. mass</td>
<td>20</td>
</tr>
<tr>
<td>Pallet min. mass</td>
<td>5</td>
</tr>
<tr>
<td>BU.PN.01A-120 Mass</td>
<td>880</td>
</tr>
<tr>
<td>BU.PN.01B-120 Mass</td>
<td>920</td>
</tr>
<tr>
<td>ESD</td>
<td>Yes</td>
</tr>
<tr>
<td>Material</td>
<td>Case: aluminum alloy(black) 主壳体：铝合金(黑色)</td>
</tr>
<tr>
<td></td>
<td>Stopper: nickel plated carbon steel 挡板：镀镍碳钢</td>
</tr>
<tr>
<td>Working temperature</td>
<td>0...60</td>
</tr>
<tr>
<td>Quick connector</td>
<td>hose, outer diameter Ø6</td>
</tr>
<tr>
<td>Pressure range</td>
<td>0.4-0.8 clean compressed air, 0.4-0.8的净化压缩空气</td>
</tr>
</tbody>
</table>

Ordering reference 型号说明

BU.PN.01/ A-120

Max. load 120kg 最大负载120kg
Stopper type (A/B) 挡板类型(A/B)
Single action 单作用
Pneumatic 气动
Damper 缓冲

Installation position 安装位置

BU.PN.01/ A-120 Installed at the end of the main conveyor section, for infeeding use
BU.PN.01/ A-120 安装于主线体末端，在投入主体时使用
BU.PN.01/ A-120 Installed at T crossing, for outfeeding use
BU.PN.01/ A-120 安装于T字路口处,在移出主体时使用
Pallet Transfer System 托盘输送系统

Dimension
尺寸
BU.PN.01/A-120 Pneumatic damper/气动缓冲器

BU.PN.01/B-120 Pneumatic damper/气动缓冲器
Support
支架

- Material: steel, black electrophoresis
- Used with BU.PN.01A-120 pneumatic damper

Ordering reference
订购说明

<table>
<thead>
<tr>
<th>Product description</th>
<th>Delivery unit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support</td>
<td>1</td>
<td>58800103</td>
</tr>
</tbody>
</table>

Dimension
尺寸

![Diagram of Support][1]
Pneumatic double action damper

**Features/Benefits 特征**

1. No inverse operation allowed and to be easily and directly installed on the conveyor line or lift and transverse unit.
   不允许反向安装，直接安装在输送线体或顶升移位上。安装方便快捷。
2. Operation noise less than 60dB. Buffer stroke is 21.5mm.
   运行噪音小于60dB，缓冲行程为21.5mm。
3. To be used on PTS1, PTS2, PTS1H conveyor or lift and transverse unit to control WP2/S or WP2/S.
   可与WP2/S、WP2/C托盘组合，配合PTS1、PTS2和PTS1H托盘输送机或顶升横移使用。
4. BU.PN 02/A-60 damper cushions the impact of workpiece pallets when they are moving onto a main conveyor section.
   BU.PN 02/A-60气动双作用缓冲器在托盘移入主线体时，用于减少冲击力。当挡停器打开，将托盘释放到缓冲时，缓冲器同时缓冲复位，托盘至主线体输送时，缓冲器挡板收回，托盘正常通过。
5. BU.PN 02/B-60 pneumatic double action damper is suitable to be used on lift and transverse unit. BU.PN 02/A-60 and BU.PN 02/B-60 damper are used when the transition between main conveyor section and branch section is required. (Only for lift and transverse unit bigger than 320mmx320mm)
   BU.PN 02/B-60气动双作用缓冲器安装在顶升横移上，配合BU.PN 02/A-60气动双作用缓冲器在主线体与支线体往复运动时使用。（注：只适合320mmx320mm以上的顶升横移使用）
6. The adjusting screw at the back side of the damper is used to adjust the buffering force.
   通过缓冲器后方的调节螺钉调节缓冲的力度。

**Supply mode 供货方式**

1. Scope of delivery
   供货范围
   
   Damper with different stoppers
   含两种不同挡板的气动双作用缓冲器

   **Fittings 配件**

   BU.PN 02/A-60 is installed on the side of the main conveyor section with support. The support need to be ordered separately (including fasteners 2x(H+4xGT)).
   BU.PN 02/A-60气动缓冲器需配套支架安装于主线体外侧，需单独订购支架（含紧固件2x(H+4xGT)）。
   BU.PN 02/B-60 pneumatic damper is directly installed on the side plate of lift and transverse unit without support, including Fastening set (4xGT) installed on the lift and transverse unit.
   BU.PN 02/B-60气动缓冲器直接安装于顶升横移侧板上，无需支架，包括用于顶升横移上安装的紧固件 (4xGT)。

2. Delivery condition
   供货条件
   
   Equipped
   已装配
## Specifications 规格配置

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>BU.PN.02/A-60 Part No.</td>
<td>50809101</td>
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<tr>
<td>BU.PN.02B-60 Part No.</td>
<td>50809102</td>
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<tr>
<td>Pallet max. mass</td>
<td>60</td>
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<tr>
<td>Pallet min. mass</td>
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<td>BU.PN.02/A-60 Mass</td>
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<td>BU.PN.02B-60 Mass</td>
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<tr>
<td>ESD</td>
<td>Yes (Yes)</td>
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<tr>
<td>Material</td>
<td>Case: aluminum alloy(black) 主壳体：铝合金(黑色)</td>
</tr>
<tr>
<td></td>
<td>Stopper: nickel plated carbon steel 挡板：镀镍碳钢</td>
</tr>
<tr>
<td>Working temperature</td>
<td>0...60</td>
</tr>
<tr>
<td>Quick connector</td>
<td>Hose, outer diameter Ø6 外径为Ø6的通气软管</td>
</tr>
<tr>
<td>Pressure range</td>
<td>0.4-0.8 clean compressed air 0.4-0.8的净化压缩空气</td>
</tr>
</tbody>
</table>

## Ordering reference 型号说明

| BU.PN.02/A-60                  |

- Max. load 60kg 最大负载60kg
- Stopper type 挡板类型
- Double acting 双作用
- Pneumatic 气动
- Damper 缓冲

## Installation position 安装位置

BU.PN.02A-60 安装于T字路口在移入主线体时使用
BU.PN.02B-60 安装于T字路口在移出主线体时使用
BU.PN.02B-60 安装于T字路口，供出料使用
Circuit diagram

Stop capacity diagram

Stop capacity (kg)

Rate speed (m/min)
Material: steel, black electrophoresis

Used with BU.PN.02/A-60 pneumatic double action damper

與BU.PN.02/A-60氣動雙作用緩沖器配合使用。
BU.PN.02/-120 Pneumatic double action damper
BU.PN.02/-120气动双作用缓冲器

Features/Benefits 特征

1. No inverse operation allowed and to be easily and directly installed on the conveyor line or lift and transverse unit.
   不允许反向操作，可以直接安装在输送线或顶升横移单元。

2. Operation noise less than 60dB. Stroke is 24mm.
   运行噪音小于60dB，缓冲行程为24mm。

3. Used on PTS1, PTS1H, PTS2, PTS4 conveyor or lift and transverse unit to control WP2/S or WP2/C pallet.
   可与WP2/S、WP2/C托盘组合，配合PTS1、PTS1H、PTS2和PTS4托盘输送机或顶升横移单元。

4. BU.PN.02/A-120 pneumatic double action damper cushions the impact of workpiece pallets when they are moved onto a main conveyor section.
   BU.PN.02/A-120气动双作用缓冲器对工件托盘在主输送线时，用于减少其冲击力。

5. BU.PN.02/B-120 pneumatic double action damper is suitable to be used on lift and transverse unit.
   BU.PN.02/B-120气动双作用缓冲器适合用于顶升横移单元。此缓冲器用于主输送线与次输送线连接使用。

Supply mode 供货方式

1. Scope of delivery
   供货范围
   Damper with different stoppers
   含不同挡板的气动双作用缓冲器

   Fittings
   配件
   BU.PN.02/A-120 is installed at the end of the main conveyor section with support. The support need to be ordered separately.
   (Including fastenings 2xHT+4xGT) (see PG 88).
   BU.PN.02/A-120气动缓冲器需配支架安装于主输送线外侧，单独订购支架(含紧固件2xHT+4xGT) (详见PG 88)。
   BU.PN.02/B-120 pneumatic damper is directly installed on the side plate of lift and transverse unit without support. Including fastening set (4xGT) installed on the lift and transverse unit.
   BU.PN.02/B-120气动缓冲器直接安装于顶升横移外侧板上，无需支架，包括用于顶升横移安装的紧固件 (4xGT)。

2. Delivery condition
   供货条件
   Equipped
   已装配
**Specifications** 规格配置

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>BU.PN.02A-120 Part No./订购编号</td>
<td>50908101</td>
</tr>
<tr>
<td>BU.PN.02B-120 Part No./订购编号</td>
<td>50908102</td>
</tr>
<tr>
<td>Pallet max. mass 托盘最大总质量 (Mg)</td>
<td>20</td>
</tr>
<tr>
<td>Pallet min. mass 托盘最小质量 (Mg)</td>
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<tr>
<td>BU.PN.02A-120 Mass/质量 (Mg)</td>
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<td>BU.PN.02B-120 Mass/质量 (Mg)</td>
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<tr>
<td>ESD 防静电</td>
<td>是</td>
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<td>Material Case: Aluminum alloy (black) 主要材料: 铝合金 (黑色)</td>
<td></td>
</tr>
<tr>
<td>Stopper: nickel plated carbon steel 挡板: 碳钢镀镍</td>
<td></td>
</tr>
<tr>
<td>Working temperature 工作温度 (°C)</td>
<td>0...120</td>
</tr>
<tr>
<td>Quick connector 软管连接件</td>
<td>hose, outer diameter Ø6 外径为 Ø6 的通用软管</td>
</tr>
<tr>
<td>Pressure range 压力范围 (Mpa)</td>
<td>0.4-0.8 clean compressed air 0.4-0.8的净化压缩空气</td>
</tr>
</tbody>
</table>

**Ordering reference** 型号说明

BU.PN.02A-120

- Max. load 120kg 最大负载 120kg
- Stopper type (A/B) 挡板类型 (A/B)
- Double acting 双作用
- Pneumatic 气动
- Damper 缓冲

**Installation position** 安装位置

BU.PN.02A-120 安装于 T 型路口，用于放入托盘
BU.PN.02B-120 安装于 T 型路口，用于取出托盘

BU.PN.02A-120 安装于 T 型路口
BU.PN.02B-120 安装于 T 型路口
Dimension

BU.PN.02/A-120 Pneumatic double action damper

BU.PN.02/B-120 Pneumatic double action damper
Support

- Material: steel, black electrophoresis
- Used with BU.PN.02/A-120 Pneumatic double action damper.

### Ordering reference

<table>
<thead>
<tr>
<th>Product description</th>
<th>Delivery unit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support</td>
<td>1</td>
<td>50808103</td>
</tr>
</tbody>
</table>

### Dimension

![Dimension Diagram]
BU.PN.02/-220 Pneumatic double action damper
BU.PN.02/-220气动双作用缓冲器

Features/Benefits 特征

1. No inverse operation allowed and to be easily and directly installed on the conveyor line or lift and transverse unit.

不允许反向操作，直接安装在输送线体或顶升横移上。安装方便简捷。

2. Operation noise less than 60dB. Buffer stroke is 29mm.

运行噪音小于60dB，缓冲行程为29mm。

3. Used on PTS2, PTS4 conveyor or lift and transverse unit to control WP2/S or WP2/C pallet.

可与WP2/S、WP2/C托盘组合，配合PTS2、PTS4托盘输送机或顶升横移使用。

4. BU.PN.02/A-220 pneumatic double action damper cushions the impact of workpiece pallets when they are moved onto a main conveyor section.

BU.PN.02/A-220气动双作用缓冲器在托盘移入主线体时，用于减少其冲击力。当推臂打开，将托盘放置到缓冲器时，缓冲器同时气动复位。托盘沿主线体输送时，缓冲器挡板收回，托盘正常通过。

5. BU.PN.02/B-220 pneumatic double action damper is suitable to be used on lift and transverse unit, BU.PN.02/B-220 and BU.PN.02/A-220 damper are used when the transition between main conveyor section and branch section is required. (Only for lift and transverse unit bigger than 320x320mm)

BU.PN.02/B-220气动双作用缓冲器安装在顶升横移上，配合BU.PN.02/A-220气动双作用缓冲器在主线体与支线体往复运动时使用。

6. Operation noise less than 60dB. Buffer stroke is 21.5mm. To work with WP2/S or WP2/C pallet.

通过缓冲器后方的调节螺钉调节缓冲的力度。

Supply mode 供货方式

1. Scope of delivery

供货范围

含两种不同挡板的气动双作用缓冲器

Fittings

配件

BU.PN.02/A-220 is installed at the end of the main conveyor section with support. The support need to be ordered separately (including fasteners 2xHT4xGT) (see PG 91).

BU.PN.02/A-220气动缓冲器需配合支架安装于主线体外侧，请单独订购支架(含紧固件 2xHT4xGT)(详见PG 91).

BU.PN.02/B-220 pneumatic damper is directly installed on the side plate of lift and transverse unit without support. Including fastening set (4xGT) installed on the lift and transverse unit.

BU.PN.02/B-220气动缓冲器直接安装于顶升横移外侧板上，无需支架。包括用于顶升横移上安装的紧固件 (4xGT)。

2. Delivery condition

供货状态

Equipped

已装配