

# Modular Conveyor System



Modular Conveyor System

Version **5.7**



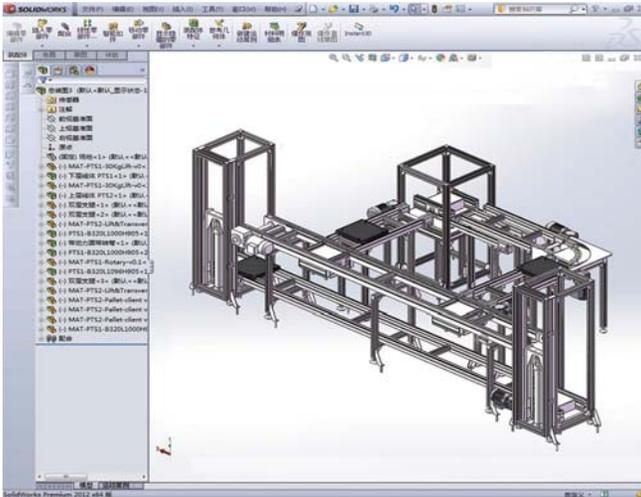
*Profession Devotion Keep Improving*

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

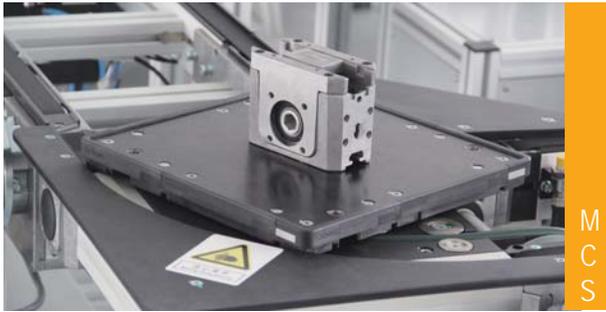
- Complete product info
- CAD library
- Quick & Easy configurator
- Calculation of profile deflection
- Drawing conversion for profiles
- Layout Designer for fast, easy planning



## On-time, rapid delivery

- Availability of all components
- Pre-assembled modules, complete frames
- Prompt shipping and exemplary delivery reliability





Modular Conveyor System(MCS) is mainly for pallet conveyor system. This system is widely used in new energy, car component production, pharmaceutical, electronics, tobacco, packing and other industries.



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 need. The special design of guarding profiles offer better appearance and unique fastening elements brings faster and safer connections.

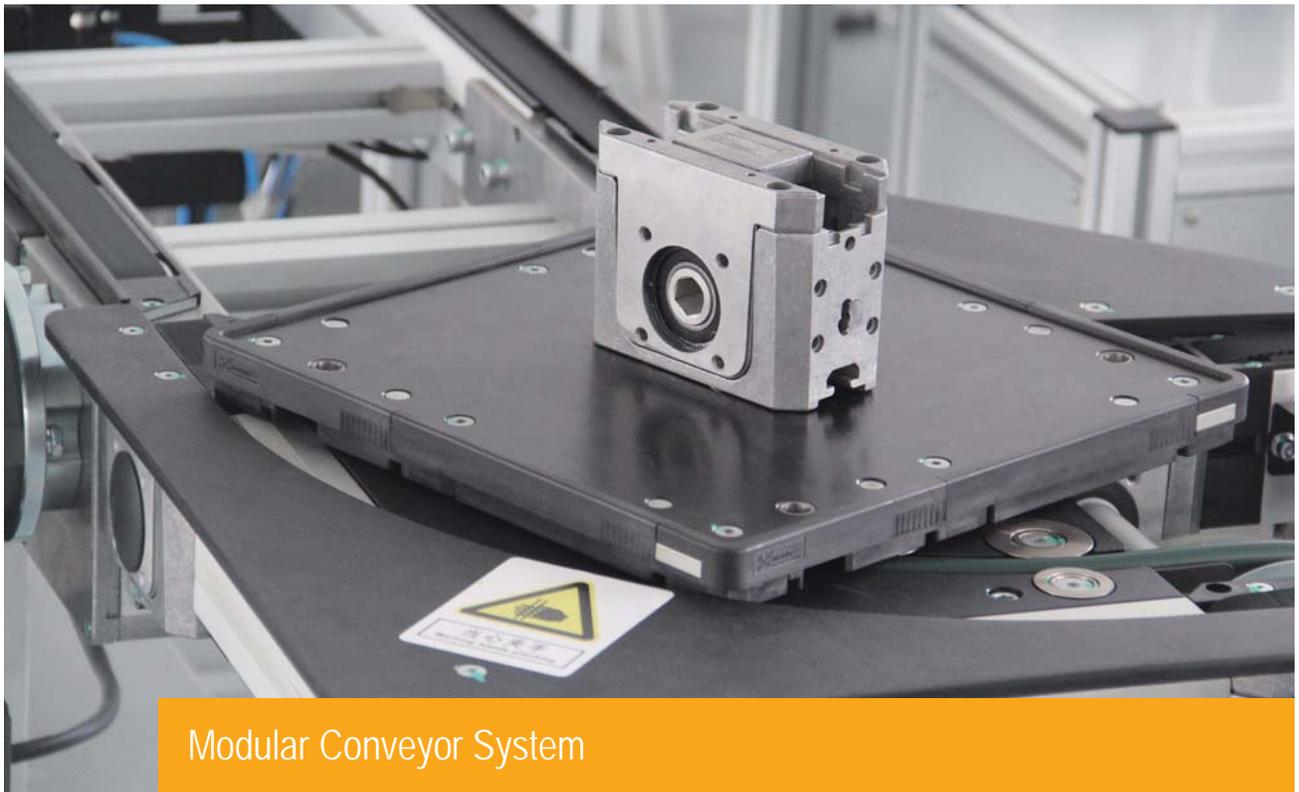


Stair and Platform System (SPS) is commonly used for overpass bridges over machinery and equipment. The assembly can be realized easily by simply fastening screws without any machine work. The system is very easy and convenient to use.

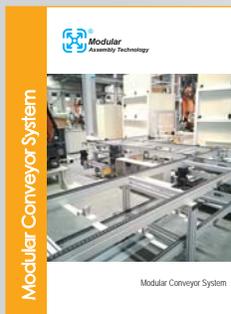


Tubular Framing System (TFS) is a flexible modular system composed of special profile tubes and accessories to build a diverse range of flow racks and material shuttles. TFS is simple and quick to use, also low cost.





Modular Conveyor System



Modular Assembly System



Machine Guard System



Stair and Platform System



Tubular Framing System



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



▲ PTS1 Pallet Conveyor Line



▲ PTS2 Pallet Conveyor Line



▲ PTS2 Pallet Conveyor Line





▲ PTS2 Pallet Conveyor Line



▲ PTS2 Pallet Conveyor Line

◀ PTS2 Pallet Conveyor Line





▲ PTS1 Pallet Conveyor Line



▲ PTS1 & PTS1/H Pallet Conveyor Line



▲ PTS1/H Pallet Conveyor Line





▶ PTS5 Pallet Conveyor Line



▶ PTS5 Pallet Conveyor Line

◀ PTS4 Pallet Conveyor Line



# Index

|                                    |  |          |
|------------------------------------|--|----------|
| Pallet Transfer System             |  |          |
| <hr/>                              |  |          |
| WP2/S Pallet                       |  | Page 13  |
| WP2/E Pallet                       |  | Page 28  |
| WP2/C Pallet                       |  | Page 43  |
| PTS1 Pallet Conveyor               |  | Page 50  |
| PTS1/H Pallet Conveyor             |  | Page 52  |
| PTS2 Pallet Conveyor               |  | Page 54  |
| PTS2/D 2.5BS Chain Pallet Conveyor |  | Page 56  |
| 90° Flat Chain Curve Conveyor      |  | Page 58  |
| AL Automatic Lubrication System    |  | Page 60  |
| 90° Round Belt Curve               |  | Page 62  |
| 180° Round Belt Curve              |  | Page 65  |
| 90° Forced Round Belt Curve        |  | Page 68  |
| 30kg Lift and Transverse Unit      |  | Page 70  |
| 30kg Lift and Positioning Unit     |  | Page 72  |
| 30kg Rotate Unit                   |  | Page 74  |
| 30kg Lift Unit                     |  | Page 76  |
| Conveying Control Device           |  | Page 78  |
| <hr/>                              |  |          |
| PTS4 Pallet Conveyor               |  | Page 148 |
| 200kg Lift and Transverse Unit     |  | Page 152 |
| 200kg Lift Unit                    |  | Page 153 |
| <hr/>                              |  |          |
| PTS5 Pallet Conveyor               |  | Page 154 |
| 600kg Rotate Unit                  |  | Page 164 |
| 600kg Lift and Transverse Unit     |  | Page 165 |
| Basic Conveyor System              |  |          |
| <hr/>                              |  |          |
| Free Roller Conveyor               |  | Page 168 |
| Powered Roller Conveyor            |  | Page 170 |
| <hr/>                              |  |          |
| Flexible Chain Conveyor            |  | Page 172 |
| <hr/>                              |  |          |
| Belt Conveyor                      |  | Page 174 |
| Guardrail                          |  | Page 183 |
| Support Stand                      |  | Page 184 |
| Toothed Belt Conveyor              |  | Page 185 |
| Incline Belt Conveyor              |  | Page 186 |
| Belt                               |  | Page 188 |
| Motor                              |  | Page 189 |
| <hr/>                              |  |          |





- PTS1 Pallet Conveyor
- PTS1/H Pallet Conveyor
- PTS2 Pallet Conveyor
- PTS4 Pallet Conveyor
- PTS5 Pallet Conveyor

# 1

## Pallet Transfer System

Pallet Transfer System (PTS) are composed of PTS1 , PTS1/H , PTS2 , PTS4 and PTS5 differ in size and permissible load. The pallet transfer system consist of standardized components which could freely combined with other units to suit for specific production conditions.

Environment condition - Climate

Working temperature

- ▶ +5°C ~ +40°C
- ▶ The load capacity will be affected if the temperature is more than + 40°C or less than +5°C

Relative humidity

- ▶ 5-85%, non-condensing
- ▶ 1-2%, according to customers' requirements

Storage temperature

- ▶ More than +40°C, please contact us
- ▶ 0°C ~ +35°C



Environment condition - Chemical environment

- ▶ Do not locate beside industrial system with chemicals emission



Environment condition - Physical environment

- ▶ Do not locate near the area with much debris, sand-dust. Do not locate within the area which is impacted often, such as punching machine, heavy machinery etc.



PTS Pallet Transfer System Overview



PTS1

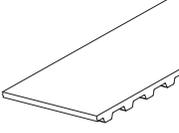
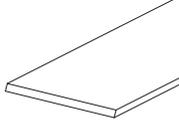
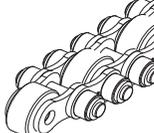
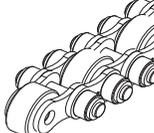
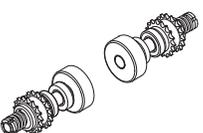
PTS1/H

PTS2

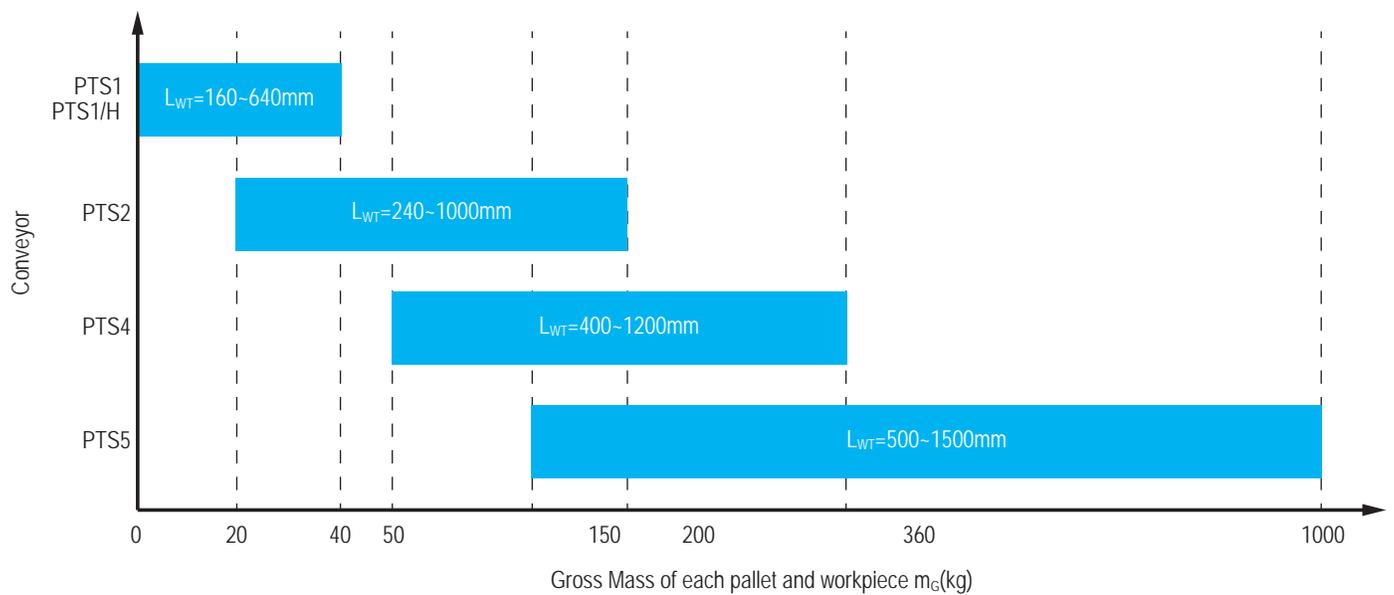
PTS4

PTS5

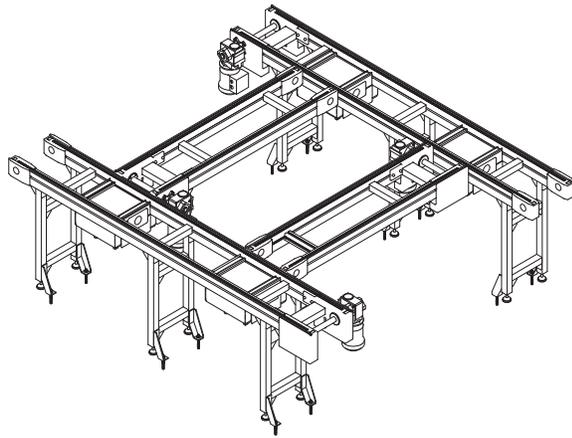
Conveyor Parameter

| Conveyor Type<br>Key Parameter | PTS1   | PTS1/H   | PTS2  | PTS4   | PTS5   |
|--------------------------------|--|--|---|--|--|
| Conveying Medium               |  |  | 08BS<br> | 12BS<br> |  |
| Max. Unit Load Capacity        | 1kg/cm   | 1kg/cm   | 1.5kg/cm<br>2.0kg/cm  | 3.0kg/cm   | 200kg for each pair of rollers   |
| Max. Total Load Capacity       | 60kg   | 150kg  | 1200kg<br>2200kg  | 3000kg   | 4500kg   |

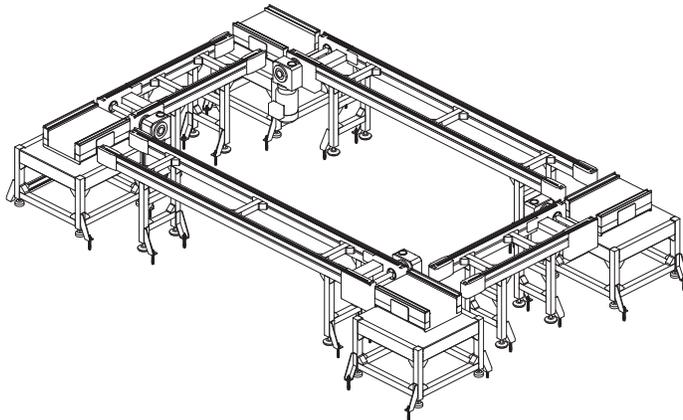
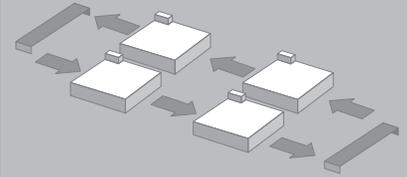
Conveyor Typical Application



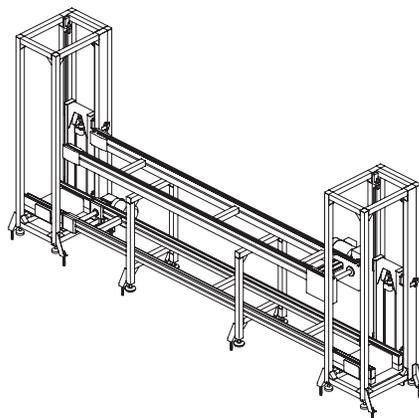
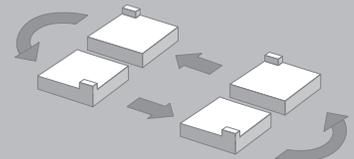
Layout Planning



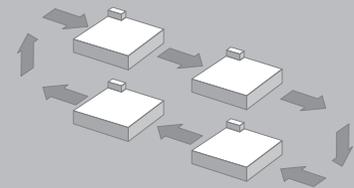
Horizontal Circuit A



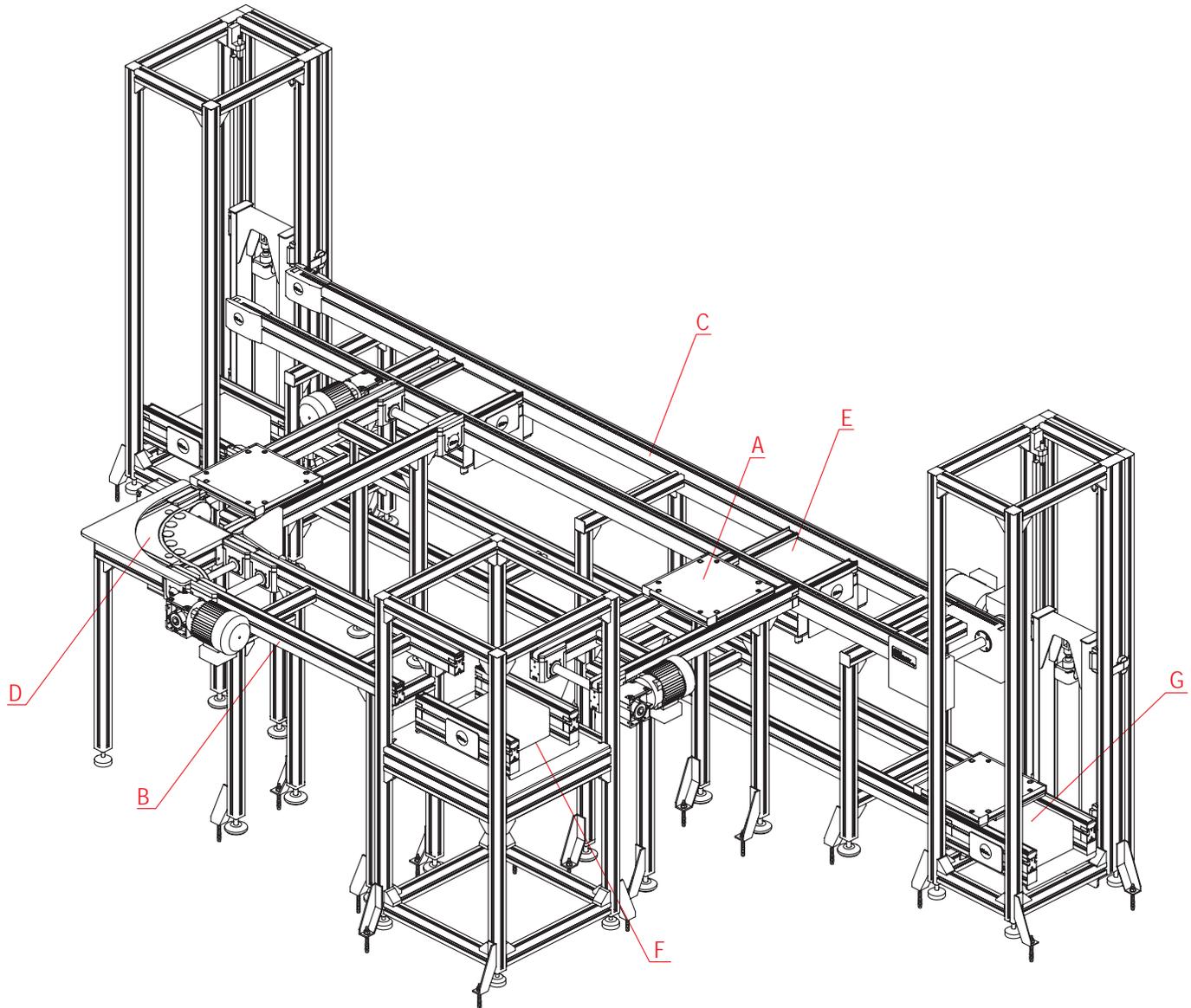
Horizontal Circuit B



Vertical Circuit



PTS1&PTS1/H&PTS2 Pallet System



Total load capacity of PTS1 pallet conveyor is within 60kg.  
 Total load capacity of PTS1/H pallet conveyor is within 150kg.  
 Total load capacity of PTS2 pallet conveyor is within 2200kg.  
 In conjunction with other units to suit for automatic transfer requirements.

- A Pallet

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- B PTS1&PTS1/H Pallet Conveyor

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- C PTS2 Pallet Conveyor

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- D 90° Round Belt Curve

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- E 30kg Lift and Transverse Unit

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- F 30kg Rotate Unit

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- G 30kg Lift Unit

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## Pallet

### Pallet working principle

The pallet is as the transferring tool to convey the workpiece to each work station. The pallet will be stopped by the Stop when it arrives at the work station. The conveying medium will continuously operate.

Application: Plastic frame pallet(WP2/S, WP2/E) and aluminum profile frame pallet(WP2/C), with steel or aluminum support plate, are both applicable for small load and medium load.

For WP2/S, WP2/E pallet, the modules can be assembled together to meet different requirements. Different frame modules and support plates can be chosen.

For WP2/C pallet, the full dimension range meets customers requirements on dimensions and configurations.

⚠ In order to have customer choosing Modular pallet quickly and exactly, our pallets are supplied in full set or in parts(see PG 12 for details).

The customer provides the ordering reference number just according to requirements on pallet models, dimensions, features and mass estimation etc.

Please contact us for non-standard pallet or special requirements.



Pallet

Selection range



WP2/S pallet

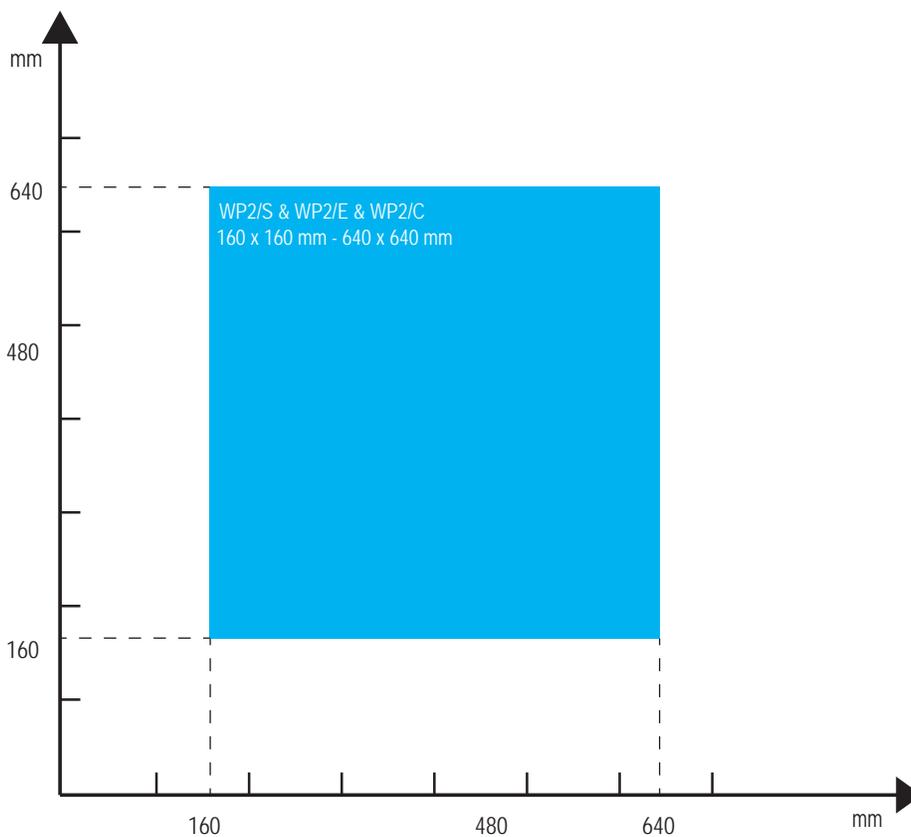


WP2/E pallet



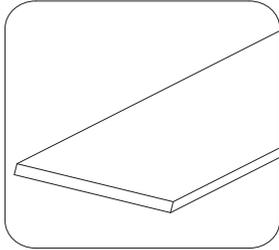
WP2/C pallet

The pallet can be selected for standard pallet ranging from 160x160mm - 640x640mm(WP2/S, WP2/E) or non standard pallet with sizes ranging from 160x160mm - 640x640mm(WP2/C) according to request. If necessary, more than one workpiece can be put on one pallet.

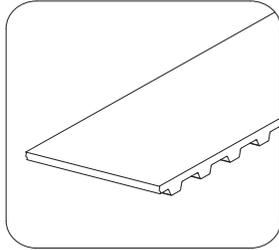


Pallet

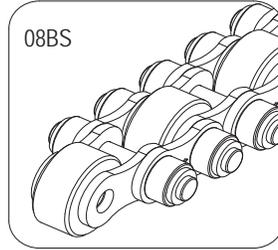
Conveyor medium



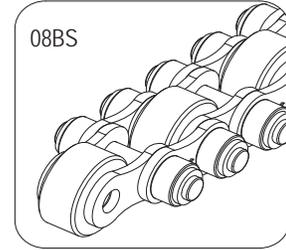
Belt



Toothed belt



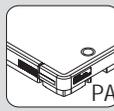
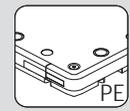
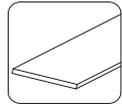
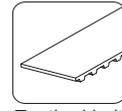
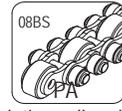
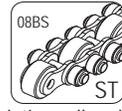
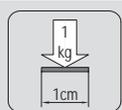
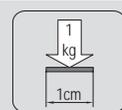
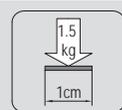
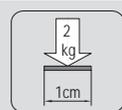
08BS  
Accumulation roller chain (PA)



08BS  
Accumulation roller chain (ST)

Unit loading capacity (f) of conveyor medium refers to the following estimation:

- ▶ Unit loading capacity of belt and toothed belt: WP2/E pallet (PA material), allowable load on the surface up to 1kg/cm.
- ▶ Unit loading capacity of Accumulation roller chain: WP2/S and WP2/C pallet with PE friction strip, allowable load on the surface up to 2kg/cm;

|  |   |   |  |   |
|--|---|---|--|---|
| WP2/S pallet<br>WP2/E pallet<br>WP2/C pallet |          |   |                                   |   |
| Conveyor medium                              | <br>Belt | <br>Toothed belt | <br>Accumulation roller chain (PA) | <br>Accumulation roller chain (ST) |
| Unit loading capacity                        |          |                  |                                    |                                    |

## Pallet

### Pallet application environment and examples

- ▶ The high quality material is chosen to ensure the continuous working condition. The pallet is protected from corrosion of the common lubricants or cleaners in industrial area, but not corrosion of testing liquid, gas or solvent. The customer need to inform the working condition on site before pallet selection to avoid unnecessary loss.  
Please contact us for any questions.

### Applicable for area sensitive to static

- ▶ ESD, applicable for area sensitive to static



## Pallet Selection

## Features/Benefits

1. WP2/S pallet, with PA frame and replaceable friction strip on the bottom, suitable to be transferred on conveying medium such as roller chain, speed chain etc.
2. WP2/E pallet, with economical PA frame, suitable to be transferred on conveying medium such as belt, toothed belt, plastic flat chain etc.
3. WP2/C pallet, with aluminum frame and replaceable friction strip, any dimension as requested, suitable to be transferred on conveying medium such as roller chain, speed chain etc.

## Classification

| Pallet Type                             | Frame Feature                     | Specification                        | Weight   | Custom Made   |
|---|-----------------------------------|--------------------------------------|--|---|
| WP2/S Pallet<br>(See Pg-13 for details) | (PA) module                       | Min. 160mmx160mm<br>Max. 640mmx640mm | 20%-35% lighter than WP2/C<br>for same specification | Not Available   |
| WP2/E Pallet<br>(See Pg-28 for details) | (PA) module                       | Min. 160mmx160mm<br>Max. 640mmx640mm | 25%-45% lighter than WP2/C<br>for same specification | Not Available   |
| WP2/C Pallet<br>(See Pg-43 for details) | High strength<br>aluminum profile | Min. 160mmx160mm<br>Max. 640mmx640mm |  | Available<br>Any dimension within<br>range of 160mm-800mm |

## Estimation of pallet gross mass

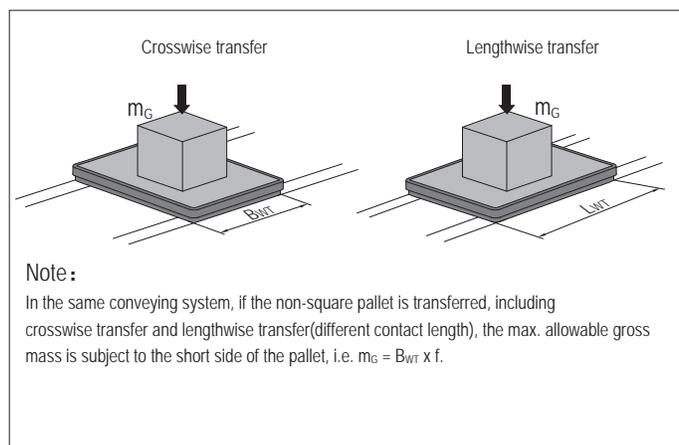
Allowable pallet and workpiece gross mass  $m_G$  is subject to the following aspects:

- ▶ Conveying medium: belt, toothed belt, accumulation roller chain
  - ▶ Contact length  $L_{WT}$  or  $B_{WT}$  between pallet and conveying medium
- Estimation of allowable pallet and workpiece gross mass:

$$m_G = L_{WT} \times f$$

$$m_G = B_{WT} \times f$$

- ▶  $m_G$ : weight of pallet+weight of workpiece, unit: kg
- ▶  $L_{WT}$ : long side of the pallet, unit: cm
- ▶  $B_{WT}$ : short side of the pallet, unit: cm
- ▶  $f$ : Unit loading capacity of the conveying medium, unit: kg/cm (See Pg-08 for conveying medium)

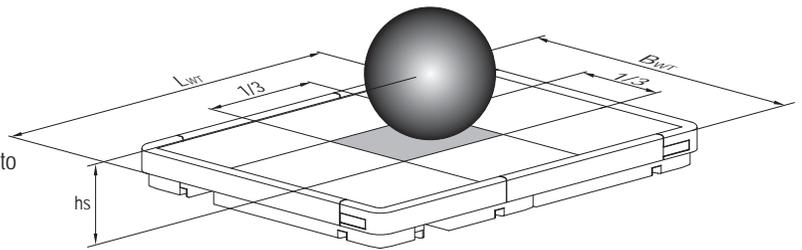


## Pallet Selection

### Allowable center of gravity for the pallet

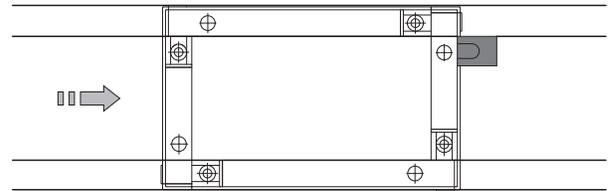
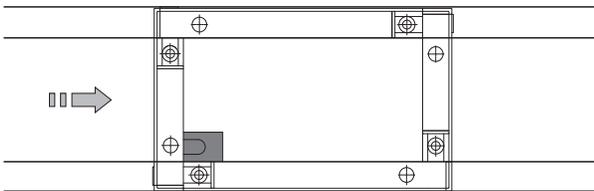
The gravity center of the load on the pallet is crucial for the stability of the pallet when the pallet is stopped or direction changed. The service life of the equipment and pallet will be affected due to high gravity center or offset gravity center. It is suggested:

- ▶ The load shall be at the center of the pallet
- ▶ Height of load gravity  $h_s$  not more than  $1/2 B_{WT}$  ( $B_{WT} < L_{WT}$ )
- ▶ In order to keep the load at the center of the pallet, it is suggested to choose bigger pallet for big load or uneven load

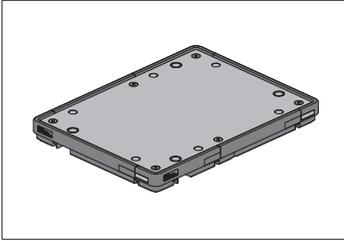


### Installation position of pallet stop

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

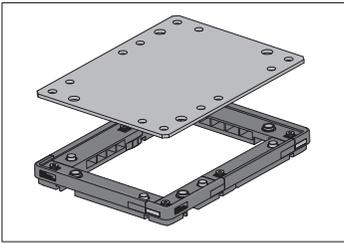


Pallet Selection



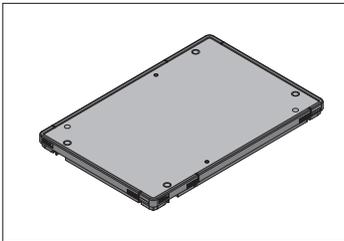
WP2/S Pallet

PG -13



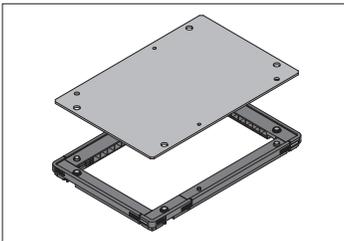
WP2/S Pallet components

PG -16



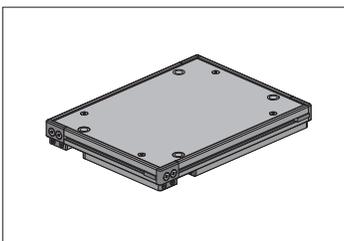
WP2/E Pallet  
WP2/E 托盘

PG -28



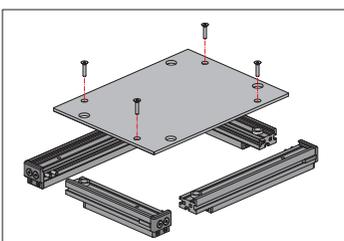
WP2/E Pallet components

PG -31



WP2/C Pallet

PG -43



WP2/C Pallet components

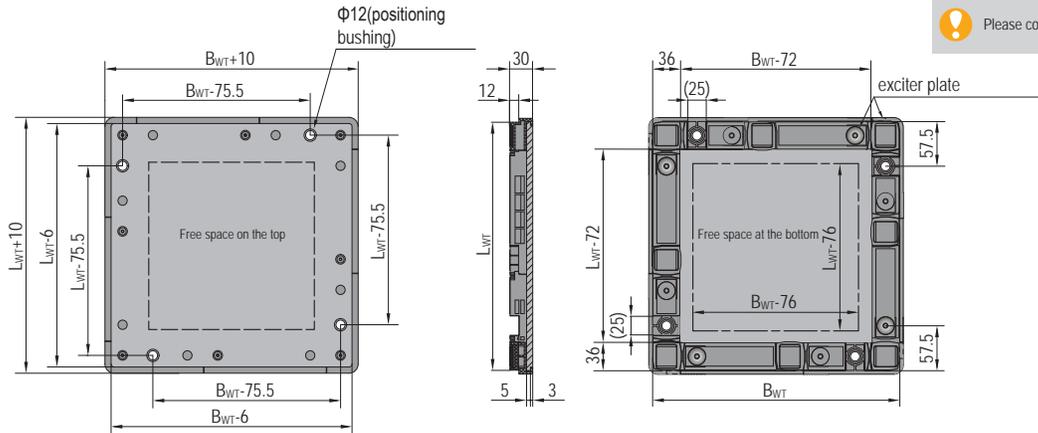
PG -47



WP2/S Pallet

 Delivery 10-15 Workday

 Please contact us for non-standard products



- ▶ Use together with pallet conveyor with belt, toothed belt and accumulation roller chain etc.

Features/Benefits

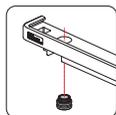
1. Plastic(PA) frame module, with aluminum or steel support plate.
2. With positioning bushings for a positioning accuracy of  $\pm 0.1$ mm.
3. The standard exciter plate is to match with the proximity switch to detect the position of the pallet.
4. The support plate is 5mm, 8mm, 12mm thickness aluminum plate or 5mm steel plate.
5. ESD
6. 71 kinds of pallets are classified by pallet size and material of support plate.

Supply mode

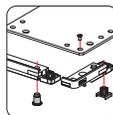
1. Supply in set(Equipped).
2. Supply in pcs(Please contact for more information).



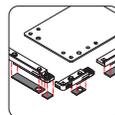
Frame module



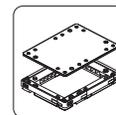
Positioning bushing



Connector



Friction strip



Support plate

3. Accessories

Press-fit mandrel(To be ordered separately when the customer assembles the pallet)



## WP2/S Pallet

Ordering reference for supply in set

| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | Thickness of support<br>plate T (mm) | Flatness P<br>(mm) | Material of support plate | Surface treatment<br>of support plate | Pallet weight<br>(kg) | Part No. |          |
|-------------------------|-------------------------|--------------------------------------|--------------------|---------------------------|---------------------------------------|-----------------------|----------|----------|
| 160                     | 160                     | 5                                    | 0.3                | Aluminum alloy            | Black anodized                        | 0.89                  | 50702512 |          |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 0.89                  | 50702514 |          |
|                         |                         |                                      |                    | Carbon steel              | Black electrophoresis                 | 1.52                  | 50702513 |          |
|                         | 240                     | 240                                  | 5                  | 0.3                       | Aluminum alloy                        | Black anodized        | 1.14     | 50702515 |
|                         |                         |                                      |                    |                           | Aluminum alloy                        | Nature anodized       | 1.14     | 50702517 |
|                         |                         |                                      |                    |                           | Carbon steel                          | Black electrophoresis | 2.10     | 50702516 |
|                         |                         | 320                                  | 5                  | 0.3                       | Aluminum alloy                        | Black anodized        | 1.51     | 50702563 |
|                         |                         |                                      |                    |                           | Aluminum alloy                        | Nature anodized       | 1.51     | 50702565 |
|                         |                         |                                      |                    |                           | Carbon steel                          | Black electrophoresis | 2.80     | 50702564 |
| 240                     | 240                     | 5                                    | 0.3                | Aluminum alloy            | Black anodized                        | 1.48                  | 50702521 |          |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 1.48                  | 50702523 |          |
|                         |                         |                                      |                    | Carbon steel              | Black electrophoresis                 | 2.94                  | 50702522 |          |
|                         | 320                     | 5                                    | 0.5                | Aluminum alloy            | Black anodized                        | 1.94                  | 50702566 |          |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 1.94                  | 50702568 |          |
|                         |                         |                                      |                    | Carbon steel              | Black electrophoresis                 | 3.89                  | 50702567 |          |
|                         |                         | 400                                  | 5                  | 0.6                       | Aluminum alloy                        | Black anodized        | 2.28     | 50702527 |
|                         |                         |                                      |                    |                           | Aluminum alloy                        | Nature anodized       | 2.28     | 50702529 |
|                         |                         |                                      |                    |                           | Carbon steel                          | Black electrophoresis | 4.73     | 50702528 |
|                         | 480                     |                                      | 8                  | 0.6                       | Aluminum alloy                        | Nature anodized       | 3.03     | 50702530 |
|                         |                         |                                      |                    |                           | Aluminum alloy                        | Black anodized        | 2.74     | 50702569 |
|                         |                         |                                      |                    |                           | Aluminum alloy                        | Nature anodized       | 2.74     | 50702571 |
|                         |                         | 8                                    | 0.6                | Carbon steel              | Black electrophoresis                 | 5.68                  | 50702570 |          |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 3.64                  | 50702572 |          |
|                         |                         |                                      |                    | Aluminum alloy            | Black anodized                        | 2.48                  | 50702573 |          |
| 320                     | 320                     | 5                                    | 0.5                | Aluminum alloy            | Nature anodized                       | 2.48                  | 50702575 |          |
|                         |                         |                                      |                    | Carbon steel              | Black electrophoresis                 | 5.09                  | 50702574 |          |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 3.29                  | 50702576 |          |
|                         |                         | 8                                    | 0.5                | Aluminum alloy            | Black anodized                        | 2.91                  | 50702577 |          |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 2.91                  | 50702579 |          |
|                         |                         |                                      |                    | Carbon steel              | Black electrophoresis                 | 6.18                  | 50702578 |          |
|                         | 400                     | 5                                    | 0.6                | Aluminum alloy            | Nature anodized                       | 3.92                  | 50702580 |          |
|                         |                         |                                      |                    | Aluminum alloy            | Black anodized/                       | 3.45                  | 50702581 |          |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 3.45                  | 50702583 |          |
|                         |                         | 8                                    | 0.6                | Carbon steel              | Black electrophoresis                 | 7.38                  | 50702582 |          |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 4.61                  | 50702584 |          |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 6.27                  | 50702585 |          |
|                         | 480                     | 5                                    | 0.6                | Aluminum alloy            | Black anodized                        | 4.29                  | 50702596 |          |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 4.29                  | 50702598 |          |
|                         |                         |                                      |                    | Carbon steel              | Black electrophoresis                 | 9.51                  | 50702597 |          |
|                         |                         | 8                                    | 0.8                | Aluminum alloy            | Nature anodized                       | 5.87                  | 50702599 |          |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 8.05                  | 50702604 |          |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 8.05                  | 50702604 |          |

 No machining drawing is to be provided.


## WP2/S Pallet

Ordering reference for supply in set 整套供货订购编号

| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | Thickness of support<br>plate T (mm) | Flatness P<br>(mm) | Material of support plate | Surface treatment<br>of support plate | Pallet weight<br>(kg) | Part No.              |       |                 |
|-------------------------|-------------------------|--------------------------------------|--------------------|---------------------------|---------------------------------------|-----------------------|-----------------------|-------|-----------------|
| 400                     | 400                     | 5                                    | 0.6                | Aluminum alloy            | Black anodized                        | 3.42                  | <b>50702548</b>       |       |                 |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 3.42                  | <b>50702550</b>       |       |                 |
|                         |                         |                                      |                    | Carbon steel              | Black electrophoresis                 | 7.52                  | <b>50702549</b>       |       |                 |
|                         |                         | 8                                    | 0.6                | Aluminum alloy            | Nature anodized                       | 4.66                  | <b>50702551</b>       |       |                 |
|                         |                         |                                      |                    | 12                        | 0.6                                   | Aluminum alloy        | Nature anodized       | 6.33  | <b>50702552</b> |
|                         |                         |                                      |                    |                           |                                       | Aluminum alloy        | Black anodized        | 4.05  | <b>50702586</b> |
|                         | 480                     | 5                                    | 0.6                | Aluminum alloy            | Nature anodized                       | 4.05                  | <b>50702588</b>       |       |                 |
|                         |                         |                                      |                    | Carbon steel              | Black electrophoresis                 | 8.97                  | <b>50702587</b>       |       |                 |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 5.59                  | <b>50702589</b>       |       |                 |
|                         |                         | 8                                    | 0.6                | Aluminum alloy            | Nature anodized                       | 7.55                  | <b>50702590</b>       |       |                 |
|                         |                         |                                      |                    | 12                        | 0.6                                   | Aluminum alloy        | Black anodized        | 5.29  | <b>50702605</b> |
|                         |                         |                                      |                    |                           |                                       | Aluminum alloy        | Nature anodized       | 5.29  | <b>50702607</b> |
|                         | 640                     | 5                                    | 0.8                | Carbon steel              | Black electrophoresis                 | 11.82                 | <b>50702606</b>       |       |                 |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 7.27                  | <b>50702608</b>       |       |                 |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 10.01                 | <b>50702609</b>       |       |                 |
|                         |                         | 8                                    | 0.8                | Aluminum alloy            | Black anodized                        | 4.76                  | <b>50702591</b>       |       |                 |
|                         |                         |                                      |                    | 12                        | 0.8                                   | Aluminum alloy        | Nature anodized       | 4.76  | <b>50702593</b> |
|                         |                         |                                      |                    |                           |                                       | Carbon steel          | Black electrophoresis | 10.67 | <b>50702592</b> |
| 480                     | 480                     | 8                                    | 0.8                | Aluminum alloy            | Nature anodized                       | 6.59                  | <b>50702594</b>       |       |                 |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 9.01                  | <b>50702595</b>       |       |                 |
|                         |                         |                                      |                    | Aluminum alloy            | Black anodized                        | 6.07                  | <b>50702610</b>       |       |                 |
|                         | 640                     | 5                                    | 1.0                | Aluminum alloy            | Nature anodized                       | 6.07                  | <b>50702612</b>       |       |                 |
|                         |                         |                                      |                    | Carbon steel              | Black electrophoresis                 | 13.89                 | <b>50702611</b>       |       |                 |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 8.44                  | <b>50702613</b>       |       |                 |
| 640                     | 640                     | 8                                    | 1.0                | Aluminum alloy            | Nature anodized                       | 11.72                 | <b>50702614</b>       |       |                 |
|                         |                         |                                      |                    | 12                        | 1.0                                   | Aluminum alloy        | Black anodized        | 7.75  | <b>50702615</b> |
|                         |                         |                                      |                    |                           |                                       | Aluminum alloy        | Nature anodized       | 7.75  | <b>50702617</b> |
|                         | 640                     | 5                                    | 1.0                | Carbon steel              | Black electrophoresis                 | 18.21                 | <b>50702616</b>       |       |                 |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 10.94                 | <b>50702618</b>       |       |                 |
|                         |                         |                                      |                    | Aluminum alloy            | Nature anodized                       | 15.32                 | <b>50702619</b>       |       |                 |

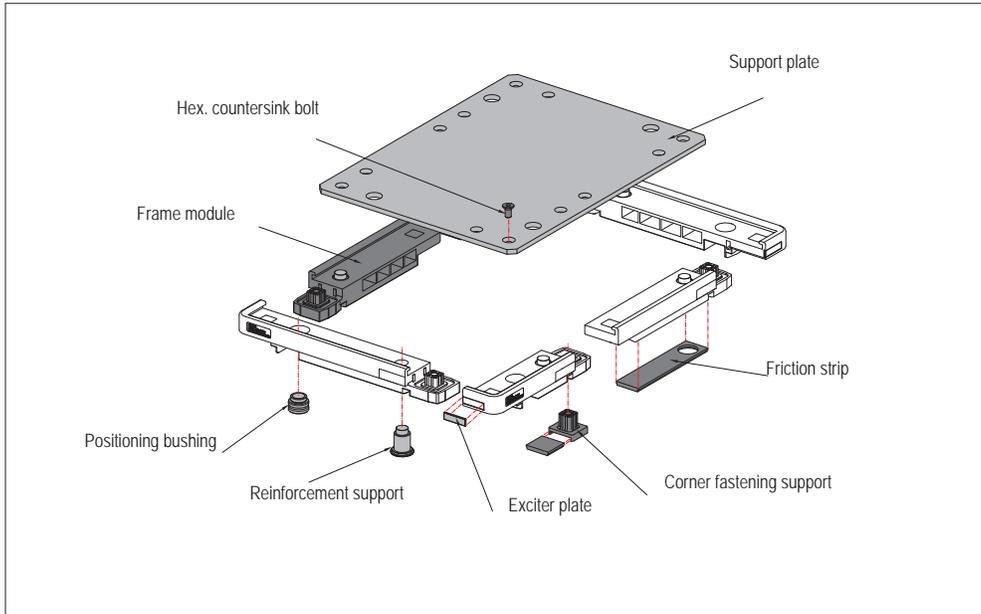
 No machining drawing is to be provided.

WP2/S

Pallet

WP2/S Pallet components

Except for frame module, we also supply support plates and other components according to actual situations.



Exciter plate

- ▶ Used with corner part 160, 240 or 320
- ▶ The sensor detects the location of the pallet through Exciter plate

Friction strip

- ▶ Used with corner part 160, 240 or 320 , linear part 160 or corner fastening support

Hex. countersink bolt

- ▶ To fix the support plate and frame modules

Support plate

- ▶ To connect the frame module parts together
- ▶ Easy installation of custom made workpiece on the pallet

Frame module

- ▶ Including corner part 160, 240, 320 and linear part 160
- ▶ To form different sizes of pallet with other parts

Reinforcement support

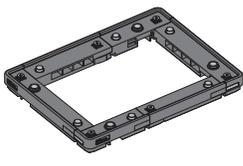
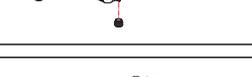
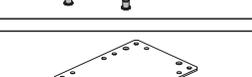
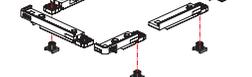
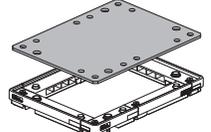
- ▶ For pallet detect, to absorb the stop force from the stop

Positioning bushing

- ▶ To have the positioning unit locate the pallet in exact position

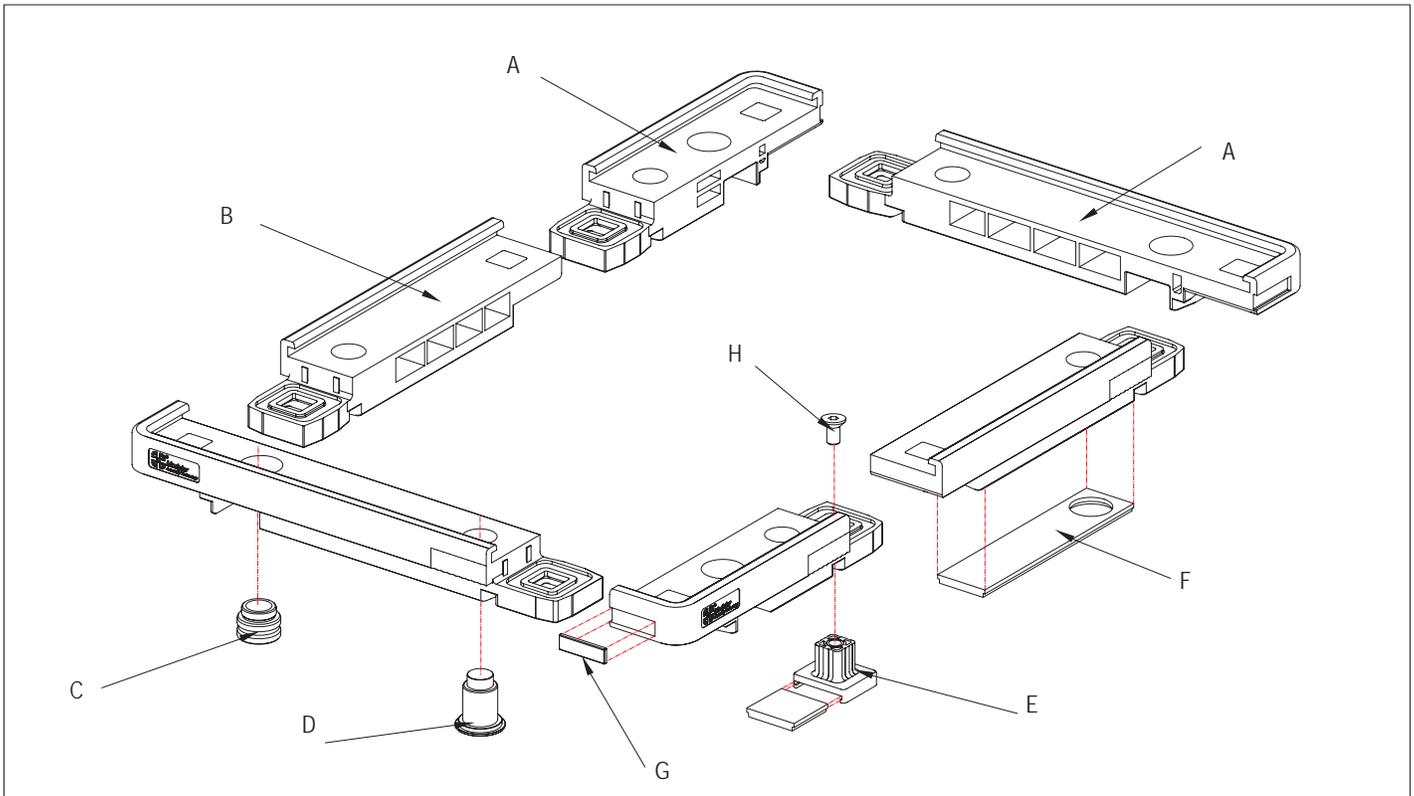
Corner fastening support

- ▶ To connect the frame module parts

|   |   |                                  |
|---|---|----------------------------------|
|    | Pallet frame  | Pg -18                           |
|   |    | Frame module Pg -20              |
|   |    | Positioning bushing Pg -21       |
|   |    | Reinforcement support Pg - 22    |
|   |    | Corner fastening support Pg - 22 |
|   |    | Friction strip Pg - 23           |
|   |  | Exciter plate Pg - 24            |
|   |  | Hex. countersink bolt Pg - 24    |
|   |   |                                  |
|   |   |                                  |
|   |   |                                  |
|   |   |                                  |
|   |   |                                  |
|   |   |                                  |
|  | Support plate   | Pg - 25                          |



## WP2/S Pallet frame



- ⚠ Positioning bushing T5, Reinforcement support T5, M6x12 bolt for 5mm thickness support plate.
- ⚠ Positioning bushing T8, Reinforcement support T8, M6x16 bolt for 8mm thickness support plate.
- ⚠ Positioning bushing T12, Reinforcement support T12, M6x20 bolt for 12mm thickness support plate.

| No. | Description                                 | Part No. |
|-----|---|----------|
| A   | Corner part 160                             | 50702105 |
|     | Corner part 240                             | 50702201 |
|     | Corner part 320                             | 50702203 |
| B   | Linear part 160                             | 50702301 |
| C   | Positioning bushing (T5)                    | 50702101 |
|     | Positioning bushing (T8)                    | 50702108 |
|     | Positioning bushing (T12)                   | 50702110 |
| D   | Reinforcement support (T5)                  | 50702103 |
|     | Reinforcement support (T8)                  | 50702109 |
|     | Reinforcement support(T12)                  | 50702111 |
| E   | Corner fastening support                    | 50702102 |
| F   | Friction strip for corner part 160          | 50702106 |
|     | Friction strip for corner part 240          | 50702202 |
|     | Friction strip for corner part 320          | 50702204 |
|     | Friction strip for linear part 160          | 50702302 |
|     | Friction strip for corner fastening support | 50702107 |
| G   | Exciter plate                               | 50703107 |
| H   | Hex. countersink bolt (T5)                  | M6x12    |
|     | Hex. countersink bolt(T8)                   | M6x16    |
|     | Hex. countersink bolt T12                   | M6x20    |

## WP2/S Pallet frame

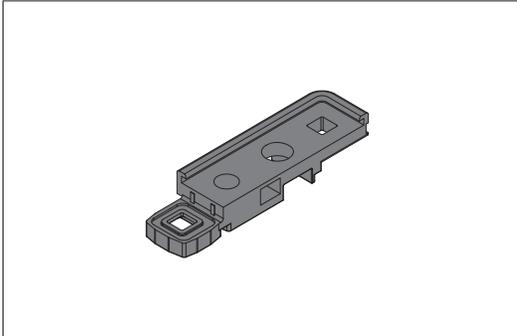
## Ordering reference

| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | T<br>(mm) | A |   |   | B |   |   | C |    |    | D  |    |    | E  |   |   | F  |    |    | G  |    |      | M6x12<br>(T5) | M6x16<br>(T8) | M6x20<br>(T12) | Weight<br>(kg) | Part No. |
|-------------------------|-------------------------|-----------|---|---|---|---|---|---|---|----|----|----|----|----|----|---|---|----|----|----|----|----|------|---------------|---------------|----------------|----------------|----------|
|                         |                         |           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5  | 5  | 5  | 5  | 5  | 5  | 5 | 5 | 5  | 5  | 5  | 5  | 5  | 5    |               |               |                |                |          |
| 160                     | 160                     | 5         | 4 |   |   | 4 |   |   |   | 4  |    |    | 4  | 4  |    |   |   |    | 4  | 4  |    |    |      | 0.72          | 50702411      |                |                |          |
|                         | 240                     | 5         | 2 | 2 |   |   | 4 |   |   |    | 4  |    |    | 4  | 2  | 2 |   |    |    | 4  | 4  |    |      |               | 0.78          | 50702412       |                |          |
|                         | 320                     | 5         | 2 |   | 2 |   |   | 4 |   |    |    | 4  |    |    | 4  | 2 |   | 2  |    | 4  | 4  |    |      |               | 0.86          | 50702451       |                |          |
| 240                     | 240                     | 5         | 4 |   |   |   | 4 |   |   |    | 4  |    |    | 4  |    |   |   |    | 4  | 4  |    |    |      | 0.84          | 50702414      |                |                |          |
|                         | 320                     | 5         | 2 | 2 |   |   |   | 4 |   |    |    | 4  |    |    | 4  | 2 | 2 |    |    | 4  | 4  |    |      |               | 0.92          | 50702452       |                |          |
|                         | 400                     | 5         | 4 |   | 2 | 4 |   |   |   |    | 6  |    |    | 6  | 4  |   |   |    | 2  | 6  | 4  |    |      | 6             | 1.16          | 50702416       |                |          |
|                         |                         | 8         | 4 |   | 2 |   | 4 |   |   |    |    | 6  |    |    | 6  | 4 |   |    | 2  | 6  | 4  |    |      | 6             | 1.16          | 50702424       |                |          |
|                         | 480                     | 5         | 2 | 2 | 2 | 4 |   |   |   |    | 6  |    |    | 6  | 2  | 2 | 2 |    | 2  | 6  | 4  |    |      | 6             | 1.24          | 50702453       |                |          |
|                         |                         | 8         | 2 | 2 | 2 |   |   | 4 |   |    |    | 6  |    |    | 6  | 2 | 2 | 2  |    | 2  | 6  | 4  |      | 6             | 1.24          | 50702459       |                |          |
| 320                     | 320                     | 5         |   | 4 |   |   |   | 4 |   |    |    | 4  |    |    | 4  |   |   |    | 4  | 4  |    |    | 4    | 1.00          | 50702454      |                |                |          |
|                         |                         | 8         |   | 4 |   |   |   | 4 |   |    |    | 4  |    |    | 4  |   |   |    | 4  | 4  |    |    | 4    | 1.00          | 50702460      |                |                |          |
|                         | 400                     | 5         | 2 | 2 | 2 | 4 |   |   |   |    | 6  |    |    | 6  | 2  | 2 | 2 |    | 2  | 6  | 4  |    | 6    | 1.24          | 50702455      |                |                |          |
|                         |                         | 8         | 2 | 2 | 2 |   |   | 4 |   |    |    | 6  |    |    | 6  | 2 | 2 | 2  |    | 2  | 6  | 4  |      | 6             | 1.24          | 50702461       |                |          |
|                         | 480                     | 5         |   | 4 | 2 | 4 |   |   |   |    | 6  |    |    | 6  |    |   |   |    | 4  | 2  | 6  | 4  |      | 6             | 1.32          | 50702456       |                |          |
|                         |                         | 8         |   | 4 | 2 |   |   | 4 |   |    |    | 6  |    |    | 6  |   |   |    | 4  | 2  | 6  | 4  |      | 6             | 1.32          | 50702462       |                |          |
|                         |                         | 12        | 4 | 2 |   |   |   | 4 |   |    |    | 6  |    |    | 6  | 6 |   |    | 4  | 2  | 6  | 4  |      | 6             | 1.38          | 50702465       |                |          |
|                         |                         | 12        | 4 | 2 |   |   |   | 4 |   |    |    | 6  |    |    | 6  | 6 |   |    | 4  | 2  | 6  | 4  |      | 6             | 1.38          | 50702465       |                |          |
|                         | 640                     | 5         | 4 | 4 | 4 |   |   |   |   |    | 8  |    |    | 8  |    |   |   |    | 4  | 4  | 8  | 4  |      | 8             | 1.56          | 50702468       |                |          |
|                         |                         | 8         | 4 | 4 |   |   |   | 4 |   |    |    | 8  |    |    | 8  |   |   |    | 4  | 4  | 8  | 4  |      | 8             | 1.56          | 50702469       |                |          |
|                         |                         | 12        |   | 4 | 4 |   |   |   | 4 |    |    |    |    | 8  | 8  |   |   |    | 4  | 4  | 8  | 4  |      | 8             | 1.64          | 50702470       |                |          |
|                         | 400                     | 400       | 5 | 4 |   | 4 | 4 |   |   |    |    | 8  |    |    | 8  | 4 |   |    | 4  | 4  | 8  | 4  |      | 8             | 1.48          | 50702421       |                |          |
| 8                       |                         |           | 4 |   | 4 |   |   | 4 |   |    |    | 8  |    |    | 8  | 4 |   |    | 4  | 4  | 8  | 4  |      | 8             | 1.48          | 50702429       |                |          |
| 12                      |                         |           | 4 |   | 4 |   |   | 4 |   |    |    | 8  |    |    | 8  | 4 |   |    | 4  | 4  | 8  | 4  |      | 8             | 1.56          | 50702433       |                |          |
| 480                     |                         | 5         | 2 | 2 | 4 | 4 |   |   |   |    | 8  |    |    | 8  | 2  | 2 | 4 |    | 4  | 8  | 4  |    | 8    | 1.56          | 50702457      |                |                |          |
|                         |                         | 8         | 2 | 2 | 4 |   |   | 4 |   |    |    | 8  |    |    | 8  | 2 | 2 | 4  |    | 4  | 8  | 4  |      | 8             | 1.56          | 50702463       |                |          |
|                         |                         | 12        | 2 | 2 | 4 |   |   | 4 |   |    |    | 8  |    |    | 8  | 2 | 2 | 4  |    | 4  | 8  | 4  |      | 8             | 1.64          | 50702466       |                |          |
| 640                     |                         | 5         | 2 | 2 | 6 | 4 |   |   |   |    | 10 |    |    | 10 | 2  | 2 | 6 | 10 |    | 4  | 10 | 4  |      | 10            | 1.88          | 50702471       |                |          |
|                         |                         | 8         | 2 | 2 | 6 |   |   | 4 |   |    |    | 10 |    |    | 10 | 2 | 2 | 6  | 10 |    | 4  | 10 |      | 10            | 1.88          | 50702472       |                |          |
|                         |                         | 12        | 2 | 2 | 6 |   |   | 4 |   |    |    | 10 |    |    | 10 | 2 | 2 | 6  | 10 |    | 4  | 10 |      | 10            | 1.98          | 50702473       |                |          |
| 480                     | 480                     | 5         |   | 4 | 4 | 4 |   |   |   |    | 8  |    |    | 8  |    |   |   | 4  | 4  | 8  | 4  |    | 8    | 1.64          | 50702458      |                |                |          |
|                         |                         | 8         |   | 4 | 4 |   |   | 4 |   |    |    | 8  |    |    | 8  |   |   |    | 4  | 4  | 8  | 4  |      | 8             | 1.64          | 50702464       |                |          |
|                         |                         | 12        | 4 | 4 |   |   |   | 4 |   |    |    | 8  |    |    | 8  |   |   |    | 4  | 4  | 8  | 4  |      | 8             | 1.72          | 50702467       |                |          |
|                         | 640                     | 5         | 4 | 6 | 4 |   |   |   |   |    | 10 |    |    | 10 |    |   |   | 4  | 6  | 10 | 4  |    | 10   | 1.96          | 50702474      |                |                |          |
|                         |                         | 8         | 4 | 6 |   |   | 4 |   |   |    | 10 |    |    | 10 |    |   |   | 4  | 6  | 10 | 4  |    | 10   | 1.96          | 50702475      |                |                |          |
|                         |                         | 12        | 4 | 6 |   |   | 4 |   |   |    | 10 |    |    | 10 |    |   |   | 4  | 6  | 10 | 4  |    | 10   | 2.06          | 50702476      |                |                |          |
| 640                     | 640                     | 5         | 4 | 8 | 4 |   |   |   |   | 12 |    |    | 12 |    |    |   | 4 | 8  | 12 | 4  |    | 12 | 2.28 | 50702477      |               |                |                |          |
|                         |                         | 8         | 4 | 8 |   |   | 4 |   |   |    | 12 |    |    | 12 |    |   |   | 4  | 8  | 12 | 4  |    | 12   | 2.28          | 50702478      |                |                |          |
|                         |                         | 12        | 4 | 8 |   |   | 4 |   |   |    | 12 |    |    | 12 |    |   |   | 4  | 8  | 12 | 4  |    | 12   | 2.40          | 50702479      |                |                |          |

⚠ T is thickness of support plate. T=5 is for 5mm carbon steel plate or aluminum plate, T=8 is for 8mm aluminum plate, T=12 is for 12mm aluminum plate.

Frame module

Corner part 160

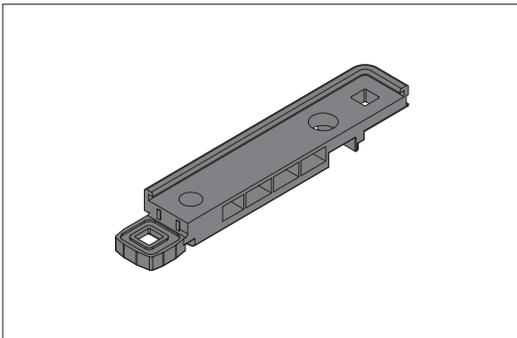


- ▶ Material: PA, black
- ▶ Connected with other corner part, linear part

Ordering reference

| Product name    | Delivery unit | Weight<br>kg | Part No. |
|-----------------|---------------|--------------|----------|
| Corner part 160 | 1             | 0.07         | 50702105 |

Corner part 240

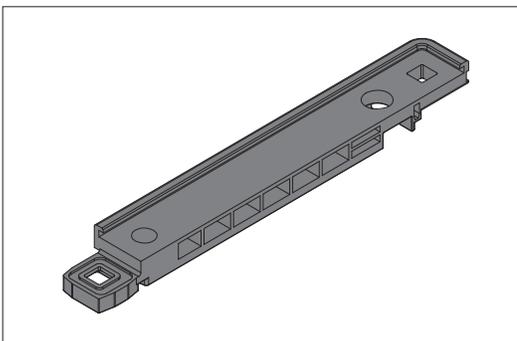


- ▶ Material: PA, black
- ▶ Connected with other corner part, linear part

Ordering reference

| Product name    | Delivery unit | Weight<br>(kg) | Part No. |
|-----------------|---------------|----------------|----------|
| Corner part 240 | 1             | 0.10           | 50702201 |

Corner part 320

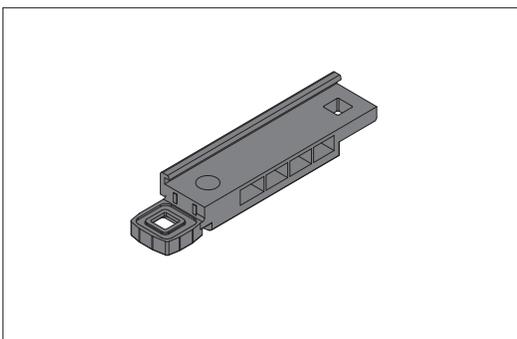


- ▶ Material: PA, black
- ▶ Connected with other corner part, linear part

Ordering reference

| Product name    | Delivery unit | Weight<br>(kg) | Part No. |
|-----------------|---------------|----------------|----------|
| Corner part 320 | 1             | 0.14           | 50702203 |

Linear part 160



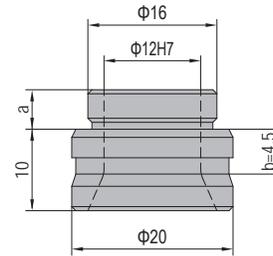
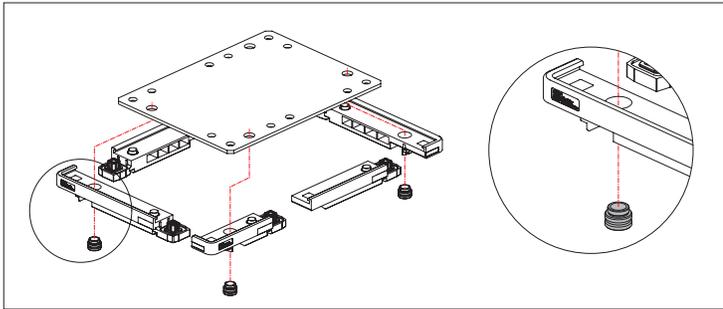
- ▶ Material: PA, black
- ▶ Connected with other corner part, linear part

Ordering reference 订购说明

| Product name   | Delivery unit | Weight<br>(kg) | Part No. |
|----------------|---------------|----------------|----------|
| Linear part160 | 1             | 0.08           | 50702301 |

## Positioning bushing

## Dimension



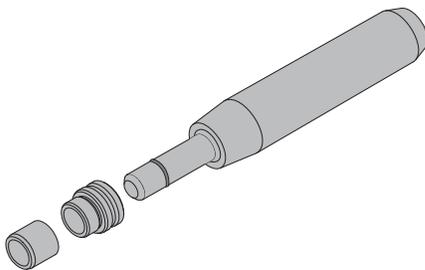
- ▶ Material: Steel, hardened
  - ▶ Combined with frame modules of WP2/S pallet
  - ▶ Accurate positioning
  - ▶ Fix frame module and support plate
- ▶ Accessories
  - ▶ Press-fit mandrel (To be ordered separately)

⚠ The dimension 12H7 refers to the state before press-fitting. After press-fitting with the mandrel, the dimension 12H7 is guaranteed to be in the "b" range.

## Ordering reference

| Product name             | Dimension for a (mm) | Upper dimension for a (mm) | Lower dimension for a (mm) | Thickness of support plate T (mm) | Delivery unit | Weight (kg) | Part No. |
|--------------------------|----------------------|----------------------------|----------------------------|-----------------------------------|---------------|-------------|----------|
| Positioning bushing(T5)  | 4.8                  | 0                          | -0.15                      | 5                                 | 1             | 0.016       | 50702101 |
| Positioning bushing(T8)  | 7.8                  | 0                          | -0.15                      | 8                                 | 1             | 0.018       | 50702108 |
| Positioning bushing(T12) | 11.8                 | 0                          | -0.15                      | 12                                | 1             | 0.021       | 50702110 |

## Press-fit mandrel



- ▶ Material: steel, hardened
- ▶ Can be combined with positioning bushing of the WP2/S pallet

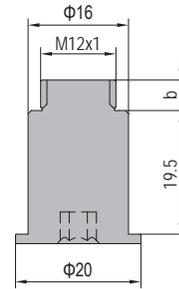
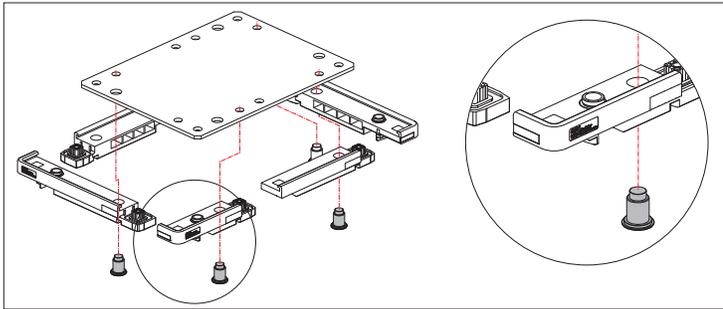
- ▶ The press-fit mandrel is used when mounting the pallet for pressing the positioning bushings into the support plate.

## Ordering reference

| Product name      | Delivery unit | Part No. |
|-------------------|---------------|----------|
| Press-fit mandrel | 1             | 50702600 |

## Reinforcement support

## Dimension



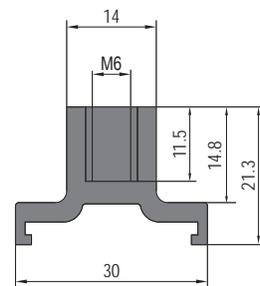
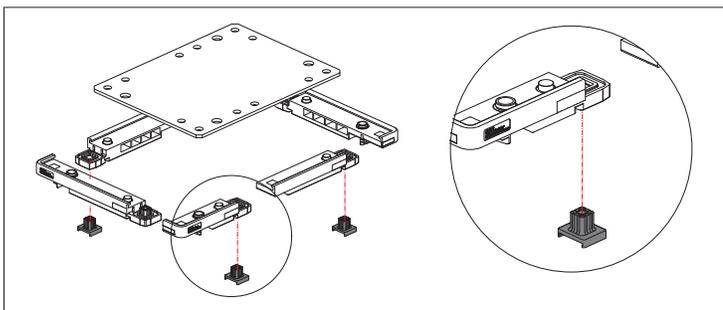
- ▶ Material: steel, zinc plate
- ▶ Combined with frame modules of WP2/S pallet
- ▶ For pallet detection
- ▶ For absorbing the stop forces on the stop

## Ordering reference

| Product name              | Dimension for b (mm) | Upper dimension for b (mm) | Lower dimension for b (mm) | Thickness for support plate T (mm) | Allowable max. torque (N.M) | Delivery unit | Weight (kg) | Part No. |
|---------------------------|----------------------|----------------------------|----------------------------|------------------------------------|-----------------------------|---------------|-------------|----------|
| Reinforcement support T5  | 4.8                  | 0                          | -0.15                      | 5                                  | 14                          | 1             | 0.04        | 50702103 |
| Reinforcement support T8  | 7.8                  | 0                          | -0.15                      | 8                                  | 14                          | 1             | 0.041       | 50702109 |
| Reinforcement support T12 | 11.8                 | 0                          | -0.15                      | 12                                 | 14                          | 1             | 0.045       | 50702111 |

## Corner fastening support

## Dimension

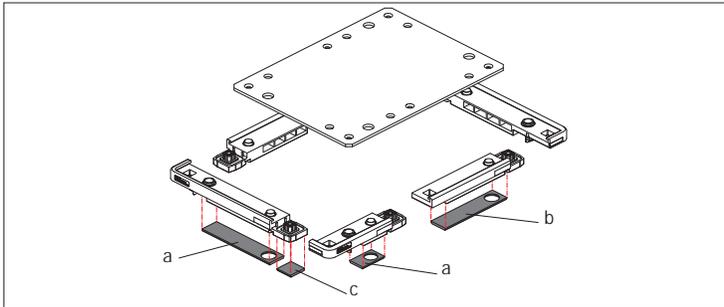


- ▶ Material: PA
- ▶ Combined with frame modules of WP2/S pallet
- ▶ Connection between frame modules

## Ordering reference

| Product name             | Delivery unit | Weight (kg) | Part No. |
|--------------------------|---------------|-------------|----------|
| Corner fastening support | 1             | 0.005       | 50702102 |

Friction strip



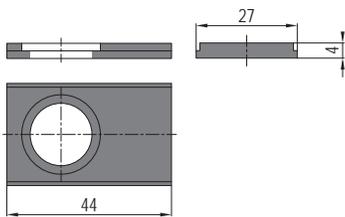
- a: Friction strip for corner part 160, 240, 320
- b: Friction strip for linear part 160
- c: Friction strip for corner fastening support

Ordering reference

| Product name                                | Delivery unit | Weight (kg) | Part No. |
|---|---------------|-------------|----------|
| Friction strip for corner part 160          | 1             | 0.003       | 50702106 |
| Friction strip for corner part 240          | 1             | 0.011       | 50702202 |
| Friction strip for corner part 320          | 1             | 0.019       | 50702204 |
| Friction strip for linear part 160          | 1             | 0.010       | 50702302 |
| Friction strip for corner fastening support | 1             | 0.003       | 50702107 |

Friction strip for corner part 160

- ▶ Material: PE, black ▶ Combined with corner part 160 for WP2/S pallet



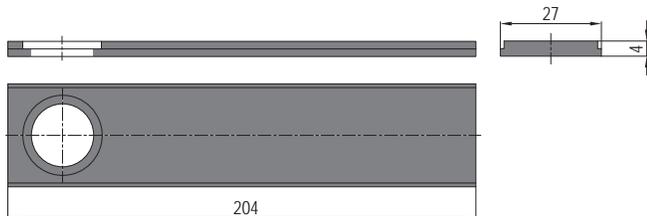
Friction strip for corner part 240

- ▶ Material: PE, black ▶ Combined with corner part 240 for WP2/S pallet



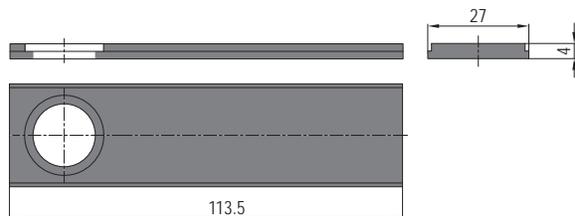
Friction strip for corner part 320

- ▶ Material: PE, black ▶ Combined with corner part 320 for WP2/S pallet



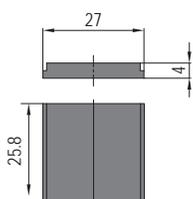
Friction strip for linear part 160

- ▶ Material: PE, black ▶ Combined with linear part 160 for WP2/S pallet



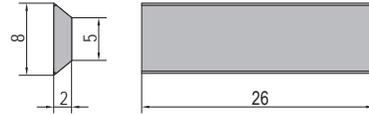
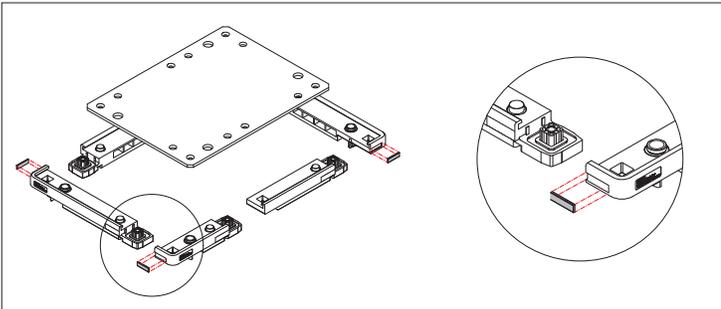
Friction strip for corner fastening support

- ▶ Material: PE, black ▶ Combined with corner fastening support



## Exciter plate

## Dimension



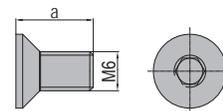
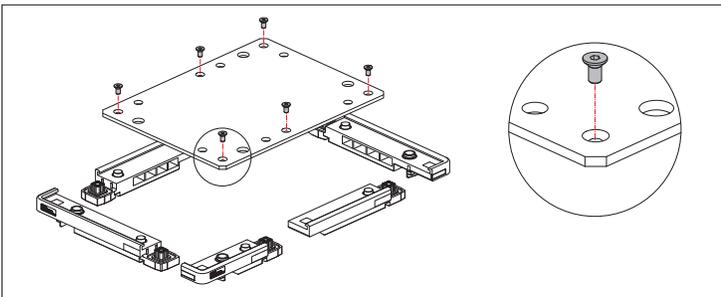
- ▶ Material: steel, zinc plate
- ▶ Combined with corner part 160, 240, 320 for WP2/S pallet
- ▶ The sensor detects the location of the pallet through exciter plate

## Ordering reference

| Product name  | Delivery unit | Weight (kg) | Part No. |
|---------------|---------------|-------------|----------|
| Exciter plate | 1             | 0.003       | 50703107 |

## Hex. countersink bolt

## Dimension



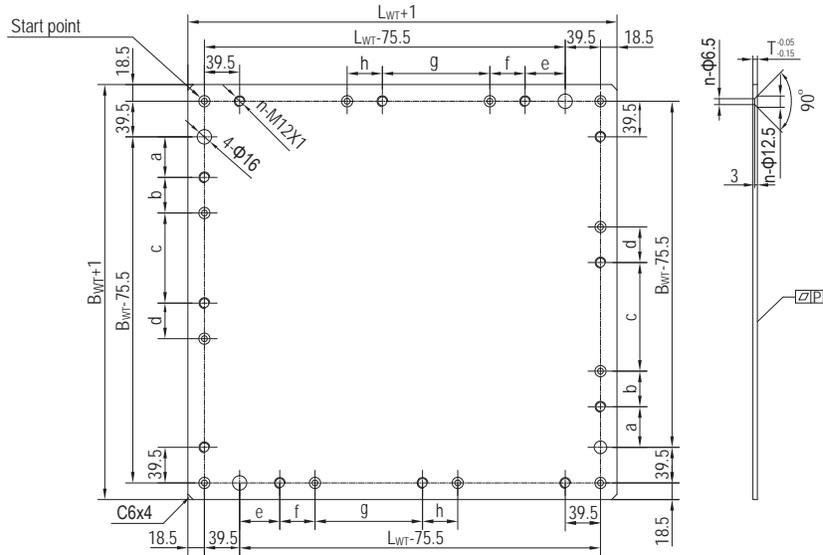
- ▶ GB/T70.3-2000
- ▶ Material: steel, zinc plated
- ▶ To fix the support plate and frame modules

## Ordering reference 订购说明

| Product name          | Dimension for a (mm) | Thickness of support plate T (mm) | Allowable max. torque (N.M) | Delivery unit | Weight (kg) |
|-----------------------|----------------------|-----------------------------------|-----------------------------|---------------|-------------|
| Hex. countersink bolt | 12                   | 5                                 | 9                           | 1             | 0.004       |
| Hex. countersink bolt | 16                   | 8                                 | 9                           | 1             | 0.005       |
| Hex. countersink bolt | 20                   | 12                                | 9                           | 1             | 0.006       |

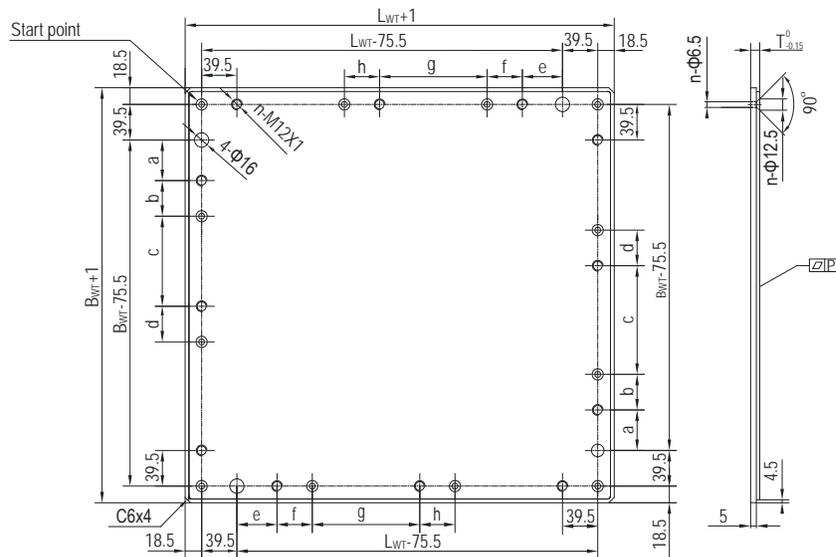
Support plate

5mm steel or aluminum support plate



 No production drawings

8mm、12mm aluminum support plate



 No production drawings



## Support plate

## Ordering reference

| Pallet dimension<br>(mm)<br>B <sub>WT</sub> X L <sub>WT</sub> |     | Thickness of<br>support plate<br>T(mm) | Material of<br>support plate | Surface treatment<br>of support plate | a               | b | c | d   | e    | f     | g     | h    | n | P   | Weight<br>(kg) | Ordering<br>reference No. |          |
|---|-----|--|------------------------------|---------------------------------------|-----------------|---|---|-----|------|-------|-------|------|---|-----|----------------|---------------------------|----------|
| 160   | 160 | 5                                      | Aluminum alloy               | Black anodized                        |                 |   |   |     |      |       |       |      | 4 | 0.3 | 0.33           | 50702112                  |          |
|   |     |  | Aluminum alloy               | Nature anodized                       |                 |   |   |     |      |       |       |      |   | 4   | 0.3            | 0.33                      | 50702114 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |                 |   |   |     |      |       |       |      |   | 4   | 0.3            | 0.95                      | 50702113 |
|   | 240 | 5                                      | Aluminum alloy               | Black anodized                        |                 |   |   |     |      |       |       |      |   | 4   | 0.3            | 0.51                      | 50702115 |
|   |     |  | Aluminum alloy               | Nature anodized                       |                 |   |   |     |      |       |       |      |   | 4   | 0.3            | 0.51                      | 50702117 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |                 |   |   |     |      |       |       |      |   | 4   | 0.3            | 1.45                      | 50702116 |
|   | 320 | 5                                      | Aluminum alloy               | Black anodized                        |                 |   |   |     |      |       |       |      |   | 4   | 0.3            | 0.67                      | 50702801 |
|   |     |  | Aluminum alloy               | Nature anodized                       |                 |   |   |     |      |       |       |      |   | 4   | 0.3            | 0.67                      | 50702803 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |                 |   |   |     |      |       |       |      |   | 4   | 0.3            | 1.94                      | 50702802 |
| 240   | 240 | 5                                      | Aluminum alloy               | Black anodized                        |                 |   |   |     |      |       |       |      | 4 | 0.3 | 0.76           | 50702121                  |          |
|   |     |  | Aluminum alloy               | Nature anodized                       |                 |   |   |     |      |       |       |      |   | 4   | 0.3            | 0.76                      | 50702123 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |                 |   |   |     |      |       |       |      |   | 4   | 0.3            | 2.21                      | 50702122 |
|   | 320 | 5                                      | Aluminum alloy               | Black anodized                        |                 |   |   |     |      |       |       |      |   | 4   | 0.5            | 1.01                      | 50702804 |
|   |     |  | Aluminum alloy               | Nature anodized                       |                 |   |   |     |      |       |       |      |   | 4   | 0.5            | 1.01                      | 50702806 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |                 |   |   |     |      |       |       |      |   | 4   | 0.5            | 2.94                      | 50702805 |
|   | 400 | 5                                      | Aluminum alloy               | Black anodized                        |                 |   |   |     | 125  | 39.5  |       |      |   | 6   | 0.6            | 1.27                      | 50702127 |
|   |     |  | Aluminum alloy               | Nature anodized                       |                 |   |   |     | 125  | 39.5  |       |      |   | 6   | 0.6            | 1.27                      | 50702129 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |                 |   |   |     | 125  | 39.5  |       |      |   | 6   | 0.6            | 3.69                      | 50702128 |
|   |     | 8                                      | Aluminum alloy               | Nature anodized                       |                 |   |   |     | 125  | 39.5  |       |      |   | 6   | 0.6            | 1.99                      | 50702130 |
|   |     |  | Aluminum alloy               | Black anodized                        |                 |   |   |     | 205  | 39.5  |       |      |   | 6   | 0.6            | 1.52                      | 50702807 |
|   |     |  | Aluminum alloy               | Nature anodized                       |                 |   |   |     | 205  | 39.5  |       |      |   | 6   | 0.6            | 1.52                      | 50702809 |
|   | 480 | 5                                      | Carbon steel                 | Black electrophoresis                 |                 |   |   |     | 205  | 39.5  |       |      |   | 6   | 0.6            | 4.43                      | 50702808 |
|   |     |  | Aluminum alloy               | Nature anodized                       |                 |   |   |     | 205  | 39.5  |       |      |   | 6   | 0.6            | 2.39                      | 50702810 |
|   |     |  | Aluminum alloy               | Black anodized                        |                 |   |   |     | 205  | 39.5  |       |      |   | 6   | 0.6            | 2.39                      | 50702810 |
| 320   | 320 | 5                                      | Aluminum alloy               | Black anodized                        |                 |   |   |     |      |       |       |      | 4 | 0.5 | 1.35           | 50702811                  |          |
|   |     |  | Aluminum alloy               | Nature anodized                       |                 |   |   |     |      |       |       |      |   | 4   | 0.5            | 1.35                      | 50702813 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |                 |   |   |     |      |       |       |      |   | 4   | 0.5            | 3.93                      | 50702812 |
|   |     | 8                                      | Aluminum alloy               | Nature anodized                       |                 |   |   |     |      |       |       |      |   | 4   | 0.5            | 2.12                      | 50702814 |
|   | 400 | 5                                      | Aluminum alloy               | Black anodized                        |                 |   |   |     | 125  | 39.5  |       |      |   | 6   | 0.6            | 1.71                      | 50702815 |
|   |     |  | Aluminum alloy               | Nature anodized                       |                 |   |   |     | 125  | 39.5  |       |      |   | 6   | 0.6            | 1.71                      | 50702817 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |                 |   |   |     | 125  | 39.5  |       |      |   | 6   | 0.6            | 4.93                      | 50702816 |
|   |     | 8                                      | Aluminum alloy               | Nature anodized                       |                 |   |   |     | 125  | 39.5  |       |      |   | 6   | 0.6            | 2.66                      | 50702818 |
|   | 480 | 5                                      | Aluminum alloy               | Black anodized                        |                 |   |   |     | 205  | 39.5  |       |      |   | 6   | 0.6            | 2.03                      | 50702819 |
|   |     |  | Aluminum alloy               | Nature anodized                       |                 |   |   |     | 205  | 39.5  |       |      |   | 6   | 0.6            | 2.03                      | 50702821 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |                 |   |   |     | 205  | 39.5  |       |      |   | 6   | 0.6            | 5.92                      | 50702820 |
|   |     | 8                                      | Aluminum alloy               | Nature anodized                       |                 |   |   |     | 205  | 39.5  |       |      |   | 6   | 0.6            | 3.21                      | 50702822 |
|   |     |  | Aluminum alloy               | Nature anodized                       |                 |   |   |     | 205  | 39.5  |       |      |   | 6   | 0.6            | 4.75                      | 50702823 |
|   |     |  | 12                           | Aluminum alloy                        | Nature anodized |   |   |     |      | 205   | 39.5  |      |   |     | 6              | 0.6                       | 4.75     |
|   | 640 | 5                                      | Aluminum alloy               | Black anodized                        |                 |   |   |     | 205  | 39.5  | 120.5 | 39.5 |   | 8   | 0.8            | 2.73                      | 50702834 |
|   |     |  | Aluminum alloy               | Nature anodized                       |                 |   |   |     | 205  | 39.5  | 120.5 | 39.5 |   | 8   | 0.8            | 2.73                      | 50702836 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |                 |   |   |     | 205  | 39.5  | 120.5 | 39.5 |   | 8   | 0.8            | 7.95                      | 50702835 |
|   |     | 8                                      | Aluminum alloy               | Nature anodized                       |                 |   |   |     | 205  | 39.5  | 120.5 | 39.5 |   | 8   | 0.8            | 4.31                      | 50702837 |
| Aluminum alloy  |     |  | Nature anodized              |                                       |                 |   |   | 205 | 39.5 | 120.5 | 39.5  |      | 8 | 0.8 | 4.31           | 50702837                  |          |
| 12  |     |  | Aluminum alloy               | Nature anodized                       |                 |   |   |     | 205  | 39.5  | 120.5 | 39.5 |   | 8   | 0.8            | 6.41                      | 50702838 |



## Support plate

## Ordering reference

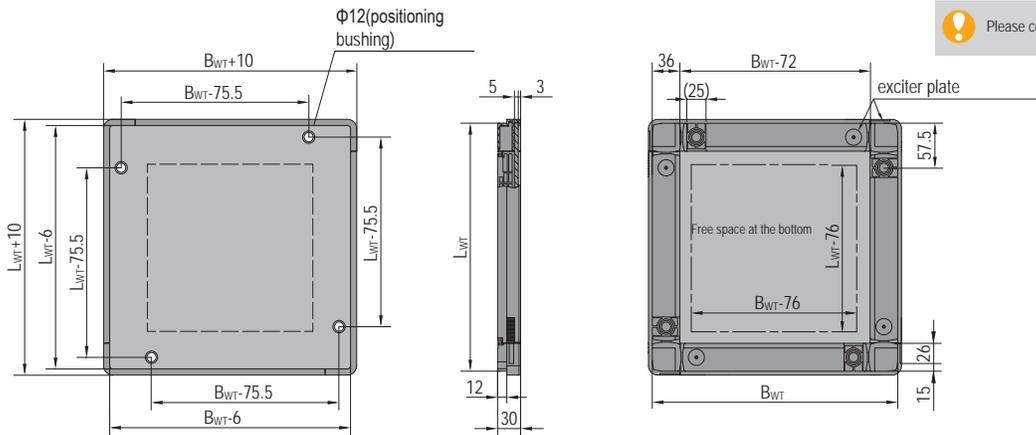
| Pallet dimension<br>(mm)<br>B <sub>WT</sub> X L <sub>WT</sub> |     | Thickness of<br>support plate<br>T(mm) | Material of<br>support plate | Surface treatment<br>of support plate | a                     | b    | c     | d    | e   | f    | g     | h    | n  | P   | Weight<br>(kg) | Ordering<br>reference No. |          |
|---|-----|--|------------------------------|---------------------------------------|-----------------------|------|-------|------|-----|------|-------|------|----|-----|----------------|---------------------------|----------|
| 400   | 400 | 5                                      | Aluminum alloy               | Black anodized                        | 125                   | 39.5 |       |      | 125 | 39.5 |       |      | 8  | 0.6 | 2.13           | 50702148                  |          |
|   |     |  | Aluminum alloy               | Nature anodized                       | 125                   | 39.5 |       |      | 125 | 39.5 |       |      | 8  | 0.6 | 2.13           | 50702150                  |          |
|   |     |  | Carbon steel                 | Black electrophoresis                 | 125                   | 39.5 |       |      | 125 | 39.5 |       |      | 8  | 0.6 | 6.19           | 50702149                  |          |
|   |     | 8                                      | Aluminum alloy               | Nature anodized                       | 125                   | 39.5 |       |      | 125 | 39.5 |       |      | 8  | 0.6 | 3.35           | 50702151                  |          |
|   |     | 12                                     | Aluminum alloy               | Nature anodized                       | 125                   | 39.5 |       |      | 125 | 39.5 |       |      | 8  | 0.6 | 4.98           | 50702152                  |          |
|   | 480 | 5                                      | Aluminum alloy               | Black anodized                        | 125                   | 39.5 |       |      | 205 | 39.5 |       |      | 8  | 0.6 | 2.56           | 50702824                  |          |
|   |     |  | Aluminum alloy               | Nature anodized                       | 125                   | 39.5 |       |      | 205 | 39.5 |       |      | 8  | 0.6 | 2.56           | 50702826                  |          |
|   |     |  | Carbon steel                 | Black electrophoresis                 | 125                   | 39.5 |       |      | 205 | 39.5 |       |      | 8  | 0.6 | 7.44           | 50702825                  |          |
|   |     | 8                                      | Aluminum alloy               | Nature anodized                       | 125                   | 39.5 |       |      | 205 | 39.5 |       |      | 8  | 0.6 | 4.03           | 50702827                  |          |
|   |     | 12                                     | Aluminum alloy               | Nature anodized                       | 125                   | 39.5 |       |      | 205 | 39.5 |       |      | 8  | 0.6 | 6.01           | 50702828                  |          |
|   | 640 | 5                                      | Aluminum alloy               | Black anodized                        | 125                   | 39.5 |       |      | 205 | 39.5 | 120.5 | 39.5 | 10 | 0.8 | 3.41           | 50702839                  |          |
|   |     |  | Aluminum alloy               | Nature anodized                       | 125                   | 39.5 |       |      | 205 | 39.5 | 120.5 | 39.5 | 10 | 0.8 | 3.41           | 50702841                  |          |
|   |     |  | Carbon steel                 | Black electrophoresis                 | 125                   | 39.5 |       |      | 205 | 39.5 | 120.5 | 39.5 | 10 | 0.8 | 9.94           | 50702840                  |          |
|   |     | 8                                      | Aluminum alloy               | Nature anodized                       | 125                   | 39.5 |       |      | 205 | 39.5 | 120.5 | 39.5 | 10 | 0.8 | 5.39           | 50702842                  |          |
|   |     | 12                                     | Aluminum alloy               | Nature anodized                       | 125                   | 39.5 |       |      | 205 | 39.5 | 120.5 | 39.5 | 10 | 0.8 | 8.02           | 50702843                  |          |
|   | 480 | 480                                    | 5                            | Aluminum alloy                        | Black anodized        | 205  | 39.5  |      |     | 205  | 39.5  |      |    | 8   | 0.8            | 3.06                      | 50702829 |
|   |     |  |                              | Aluminum alloy                        | Nature anodized       | 205  | 39.5  |      |     | 205  | 39.5  |      |    | 8   | 0.8            | 3.06                      | 50702831 |
|   |     |  |                              | Carbon steel                          | Black electrophoresis | 205  | 39.5  |      |     | 205  | 39.5  |      |    | 8   | 0.8            | 8.91                      | 50702830 |
|   |     |  | 8                            | Aluminum alloy                        | Nature anodized       | 205  | 39.5  |      |     | 205  | 39.5  |      |    | 8   | 0.8            | 4.83                      | 50702832 |
|   |     |  | 12                           | Aluminum alloy                        | Nature anodized       | 205  | 39.5  |      |     | 205  | 39.5  |      |    | 8   | 0.8            | 7.21                      | 50702833 |
| 640   |     | 5                                      | Aluminum alloy               | Black anodized                        | 205                   | 39.5 |       |      | 205 | 39.5 | 120.5 | 39.5 | 10 | 1.0 | 4.11           | 50702844                  |          |
|   |     |  | Aluminum alloy               | Nature anodized                       | 205                   | 39.5 |       |      | 205 | 39.5 | 120.5 | 39.5 | 10 | 1.0 | 4.11           | 50702846                  |          |
|   |     |  | Carbon steel                 | Black electrophoresis                 | 205                   | 39.5 |       |      | 205 | 39.5 | 120.5 | 39.5 | 10 | 1.0 | 11.93          | 50702845                  |          |
|   |     | 8                                      | Aluminum alloy               | Nature anodized                       | 205                   | 39.5 |       |      | 205 | 39.5 | 120.5 | 39.5 | 10 | 1.0 | 6.48           | 50702847                  |          |
|   |     | 12                                     | Aluminum alloy               | Nature anodized                       | 205                   | 39.5 |       |      | 205 | 39.5 | 120.5 | 39.5 | 10 | 1.0 | 9.66           | 50702848                  |          |
| 640   | 640 | 5                                      | Aluminum alloy               | Black anodized                        | 205                   | 39.5 | 120.5 | 39.5 | 205 | 39.5 | 120.5 | 39.5 | 12 | 1.0 | 5.47           | 50702849                  |          |
|   |     |  | Aluminum alloy               | Nature anodized                       | 205                   | 39.5 | 120.5 | 39.5 | 205 | 39.5 | 120.5 | 39.5 | 12 | 1.0 | 5.47           | 50702851                  |          |
|   |     |  | Carbon steel                 | Black electrophoresis                 | 205                   | 39.5 | 120.5 | 39.5 | 205 | 39.5 | 120.5 | 39.5 | 12 | 1.0 | 15.92          | 50702850                  |          |
|   |     | 8                                      | Aluminum alloy               | Nature anodized                       | 205                   | 39.5 | 120.5 | 39.5 | 205 | 39.5 | 120.5 | 39.5 | 12 | 1.0 | 8.66           | 50702852                  |          |
|   |     | 12                                     | Aluminum alloy               | Nature anodized                       | 205                   | 39.5 | 120.5 | 39.5 | 205 | 39.5 | 120.5 | 39.5 | 12 | 1.0 | 12.92          | 50702853                  |          |



WP2/E Pallet

 Delivery 10-15 Workday

 Please contact us for non-standard products



► Use together with pallet conveyor with belt, toothed belt and plastic flat chain etc.

Features/Benefits

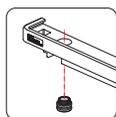
1. Plastic(PA) frame module, with aluminum or steel support plate.
2. With positioning bushings for a positioning accuracy of  $\pm 0.1$ mm.
3. The standard exciter plate is to match with the proximity switch to detect the position of the pallet.
4. The support plate is 5mm, 8mm, 12mm thickness aluminum plate or 5mm steel plate.
5. ESD
6. 71 kinds of pallets are classified by pallet size and material of support plate.

Supply mode

1. Supply in set(Equipped).
2. Supply in pcs(Not equipped).



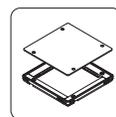
Frame module



Positioning bushing



Connector



Support plate

3. Accessories

Press-fit mandrel(To be ordered separately when the customer assembles the pallet)



## WP2/E Pallet

Ordering reference for supply in set

| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | Thickness of support<br>plate T (mm) | Flatness P<br>P(mm) | Material of support plate | Surface treatment<br>of support plate | Pallet weight<br>(kg) | Part No. |          |
|-------------------------|-------------------------|--------------------------------------|---------------------|---------------------------|---------------------------------------|-----------------------|----------|----------|
| 160                     | 160                     | 5                                    | 0.3                 | Aluminum alloy            | Black anodized                        | 0.77                  | 50703201 |          |
|                         |                         |                                      |                     | Aluminum alloy            | Nature anodized                       | 0.77                  | 50703202 |          |
|                         |                         |                                      |                     | Carbon steel              | Black electrophoresis                 | 1.41                  | 50703203 |          |
|                         | 240                     | 240                                  | 5                   | 0.3                       | Aluminum alloy                        | Black anodized        | 1.02     | 50703204 |
|                         |                         |                                      |                     |                           | Aluminum alloy                        | Nature anodized       | 1.02     | 50703205 |
|                         |                         |                                      |                     |                           | Carbon steel                          | Black electrophoresis | 1.99     | 50703206 |
|                         |                         | 320                                  | 5                   | 0.3                       | Aluminum alloy                        | Black anodized        | 1.27     | 50703207 |
|                         |                         |                                      |                     |                           | Aluminum alloy                        | Nature anodized       | 1.27     | 50703208 |
|                         |                         |                                      |                     |                           | Carbon steel                          | Black electrophoresis | 2.58     | 50703209 |
| 240                     | 240                     | 5                                    | 0.3                 | Aluminum alloy            | Black anodized                        | 1.36                  | 50703210 |          |
|                         |                         |                                      |                     | Aluminum alloy            | Nature anodized                       | 1.36                  | 50703211 |          |
|                         |                         |                                      |                     | Carbon steel              | Black electrophoresis                 | 2.83                  | 50703212 |          |
|                         | 320                     | 5                                    | 0.5                 | Aluminum alloy            | Black anodized                        | 1.70                  | 50703213 |          |
|                         |                         |                                      |                     | Aluminum alloy            | Nature anodized                       | 1.70                  | 50703214 |          |
|                         |                         |                                      |                     | Carbon steel              | Black electrophoresis                 | 3.66                  | 50703215 |          |
|                         | 400                     | 5                                    | 0.6                 | Aluminum alloy            | Black anodized                        | 2.03                  | 50703216 |          |
|                         |                         |                                      |                     | Aluminum alloy            | Nature anodized                       | 2.03                  | 50703217 |          |
|                         |                         |                                      |                     | Carbon steel              | Black electrophoresis                 | 4.49                  | 50703218 |          |
|                         |                         | 8                                    | 0.6                 | Aluminum alloy            | Nature anodized                       | 2.77                  | 50703219 |          |
|                         |                         |                                      |                     | Aluminum alloy            | Black anodized                        | 2.49                  | 50703220 |          |
|                         |                         |                                      |                     | Aluminum alloy            | Nature anodized                       | 2.49                  | 50703221 |          |
|                         | 480                     | 5                                    | 0.6                 | Carbon steel              | Black electrophoresis                 | 5.45                  | 50703222 |          |
|                         |                         |                                      |                     | Aluminum alloy            | Nature anodized                       | 3.38                  | 50703223 |          |
|                         |                         |                                      |                     | Aluminum alloy            | Black anodized                        | 2.13                  | 50703224 |          |
| 320                     | 320                     | 5                                    | 0.5                 | Aluminum alloy            | Nature anodized                       | 2.13                  | 50703225 |          |
|                         |                         |                                      |                     | Carbon steel              | Black electrophoresis                 | 4.76                  | 50703226 |          |
|                         |                         |                                      |                     | Aluminum alloy            | Nature anodized                       | 2.91                  | 50703227 |          |
|                         | 400                     | 5                                    | 0.6                 | Aluminum alloy            | Black anodized                        | 2.55                  | 50703228 |          |
|                         |                         |                                      |                     | Aluminum alloy            | Nature anodized                       | 2.55                  | 50703229 |          |
|                         |                         |                                      |                     | Carbon steel              | Black electrophoresis                 | 5.83                  | 50703230 |          |
|                         | 8                       | 0.6                                  | Aluminum alloy      | Nature anodized           | 3.55                                  | 50703231              |          |          |
|                         |                         |                                      | Aluminum alloy      | Black anodized            | 3.10                                  | 50703232              |          |          |
|                         |                         |                                      | Aluminum alloy      | Nature anodized           | 3.10                                  | 50703233              |          |          |
|                         | 480                     | 5                                    | 0.6                 | Carbon steel              | Black electrophoresis                 | 7.04                  | 50703234 |          |
|                         |                         |                                      |                     | Aluminum alloy            | Nature anodized                       | 4.30                  | 50703235 |          |
|                         |                         |                                      |                     | Aluminum alloy            | Nature anodized                       | 5.91                  | 50703236 |          |
|                         |                         | 12                                   | 0.6                 | Aluminum alloy            | Black anodized                        | 3.97                  | 50703237 |          |
|                         |                         |                                      |                     | Aluminum alloy            | Nature anodized                       | 3.97                  | 50703238 |          |
|                         |                         |                                      |                     | Carbon steel              | Black electrophoresis                 | 9.25                  | 50703239 |          |
| 640                     | 5                       | 0.8                                  | Aluminum alloy      | Nature anodized           | 5.57                                  | 50703240              |          |          |
|                         |                         |                                      | Aluminum alloy      | Nature anodized           | 7.71                                  | 50703241              |          |          |
|                         |                         |                                      | Aluminum alloy      | Nature anodized           | 7.71                                  | 50703241              |          |          |

 No machining drawing is to be provided.

## WP2/E Pallet

Ordering reference for supply in set

| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | Thickness of support<br>plate T<br>T(mm) | Flatness P<br>P(mm) | Material of support plate | Surface treatment<br>of support plate | Pallet weight<br>(kg) | Part No.        |                 |
|-------------------------|-------------------------|--|---------------------|---------------------------|---------------------------------------|-----------------------|-----------------|-----------------|
| 400                     | 400                     | 5  | 0.6                 | Aluminum alloy            | Black anodized                        | 3.05                  | <b>50703242</b> |                 |
|                         |                         |  |                     | Aluminum alloy            | Nature anodized                       | 3.05                  | <b>50703243</b> |                 |
|                         |                         |  |                     | Carbon steel              | Black electrophoresis                 | 7.16                  | <b>50703244</b> |                 |
|                         |                         | 8  | 0.6                 | Aluminum alloy            | Nature anodized                       | 4.30                  | <b>50703245</b> |                 |
|                         |                         |  |                     | Aluminum alloy            | Nature anodized                       | 5.96                  | <b>50703246</b> |                 |
|                         | 480                     | 5  | 0.6                 | Aluminum alloy            | Black anodized                        | 3.69                  | <b>50703247</b> |                 |
|                         |                         |  |                     | Aluminum alloy            | Nature anodized                       | 3.69                  | <b>50703248</b> |                 |
|                         |                         |  |                     | Carbon steel              | Black electrophoresis                 | 8.62                  | <b>50703249</b> |                 |
|                         |                         | 8  | 0.6                 | Aluminum alloy            | Nature anodized                       | 5.19                  | <b>50703250</b> |                 |
|                         |                         |  |                     | Aluminum alloy            | Nature anodized                       | 7.20                  | <b>50703251</b> |                 |
|                         | 640                     | 5  | 0.8                 | Aluminum alloy            | Black anodized                        | 4.72                  | <b>50703252</b> |                 |
|                         |                         |  |                     | Aluminum alloy            | Nature anodized                       | 4.72                  | <b>50703253</b> |                 |
|                         |                         |  |                     | Carbon steel              | Black electrophoresis                 | 11.30                 | <b>50703254</b> |                 |
|                         |                         | 8  | 0.8                 | Aluminum alloy            | Nature anodized                       | 6.73                  | <b>50703255</b> |                 |
|                         |                         |  |                     | Aluminum alloy            | Nature anodized                       | 9.42                  | <b>50703256</b> |                 |
| 480                     | 480                     | 5  | 0.8                 | Aluminum alloy            | Black anodized                        | 4.41                  | <b>50703257</b> |                 |
|                         |                         |  |                     | Aluminum alloy            | Nature anodized                       | 4.41                  | <b>50703258</b> |                 |
|                         |                         |  |                     | Carbon steel              | Black electrophoresis                 | 10.33                 | <b>50703259</b> |                 |
|                         |                         | 8  | 0.8                 | Aluminum alloy            | Nature anodized                       | 6.22                  | <b>50703260</b> |                 |
|                         |                         |  |                     | Aluminum alloy            | Nature anodized                       | 8.65                  | <b>50703261</b> |                 |
|                         | 640                     | 5  | 1.0                 | Aluminum alloy            | Black anodized                        | 5.62                  | <b>50703262</b> |                 |
|                         |                         |  |                     | Aluminum alloy            | Nature anodized                       | 5.62                  | <b>50703263</b> |                 |
|                         |                         |  |                     | Carbon steel              | Black electrophoresis                 | 13.52                 | <b>50703264</b> |                 |
|                         |                         | 8  | 1.0                 | Aluminum alloy            | Nature anodized                       | 8.04                  | <b>50703265</b> |                 |
|                         |                         |  |                     | Aluminum alloy            | Nature anodized                       | 11.26                 | <b>50703266</b> |                 |
|                         | 640                     | 640                                      | 5                   | 1.0                       | Aluminum alloy                        | Black anodized        | 7.16            | <b>50703267</b> |
|                         |                         |  |                     |                           | Aluminum alloy                        | Nature anodized       | 7.16            | <b>50703268</b> |
| Carbon steel            |                         |  |                     |                           | Black electrophoresis                 | 17.70                 | <b>50703269</b> |                 |
| 8                       |                         |  | 1.0                 | Aluminum alloy            | Nature anodized                       | 10.37                 | <b>50703270</b> |                 |
|                         |                         |  |                     | Aluminum alloy            | Nature anodized                       | 14.70                 | <b>50703271</b> |                 |

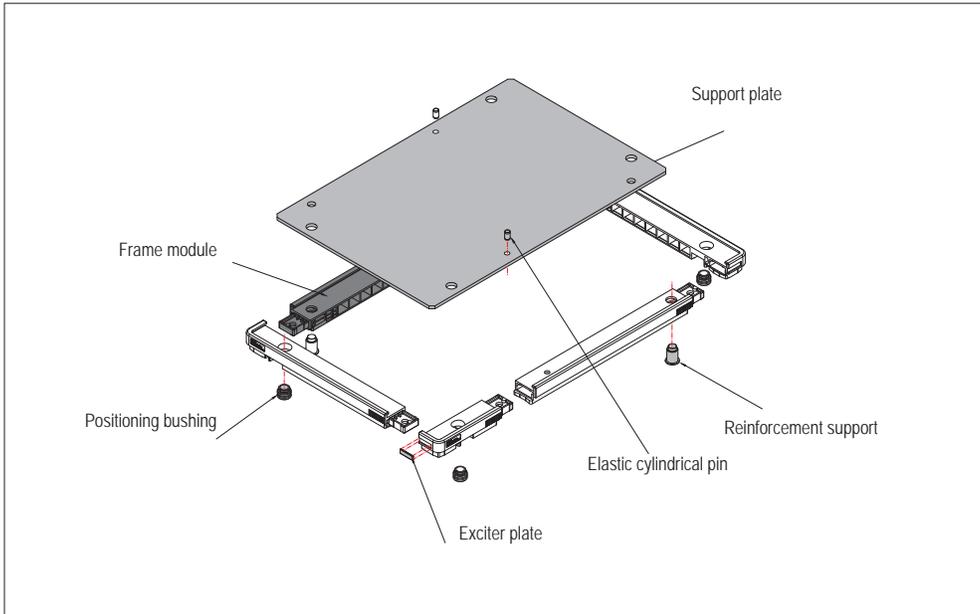
 No machining drawing is to be provided.

WP2/E

Pallet

WP2/E Pallet components

Except for frame module, we also supply support plates and other components according to actual situations.



Exciter plate

- ▶ Used with corner part 160, 240, 320 or 400
- ▶ The sensor detects the location of the pallet through Exciter plate

Elastic cylindrical pin

- ▶ To connect support plate and linear parts

Support plate

- ▶ To connect the frame module parts together
- ▶ Easy installation of custom made workpiece on the pallet

Frame module

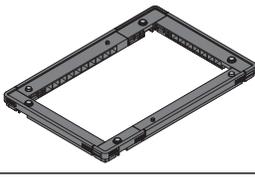
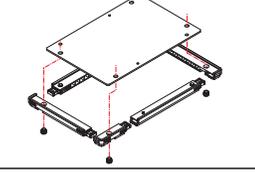
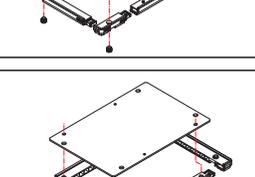
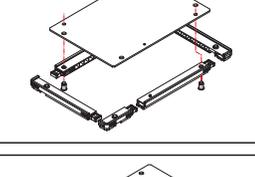
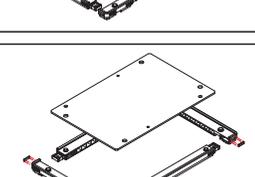
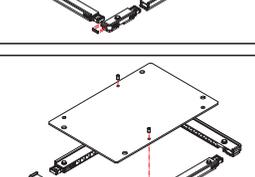
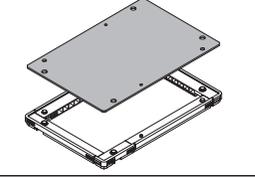
- ▶ Including corner part 160, 240, 320, 400 and linear part 320
- ▶ To form different sizes of pallet with other parts

Reinforcement support

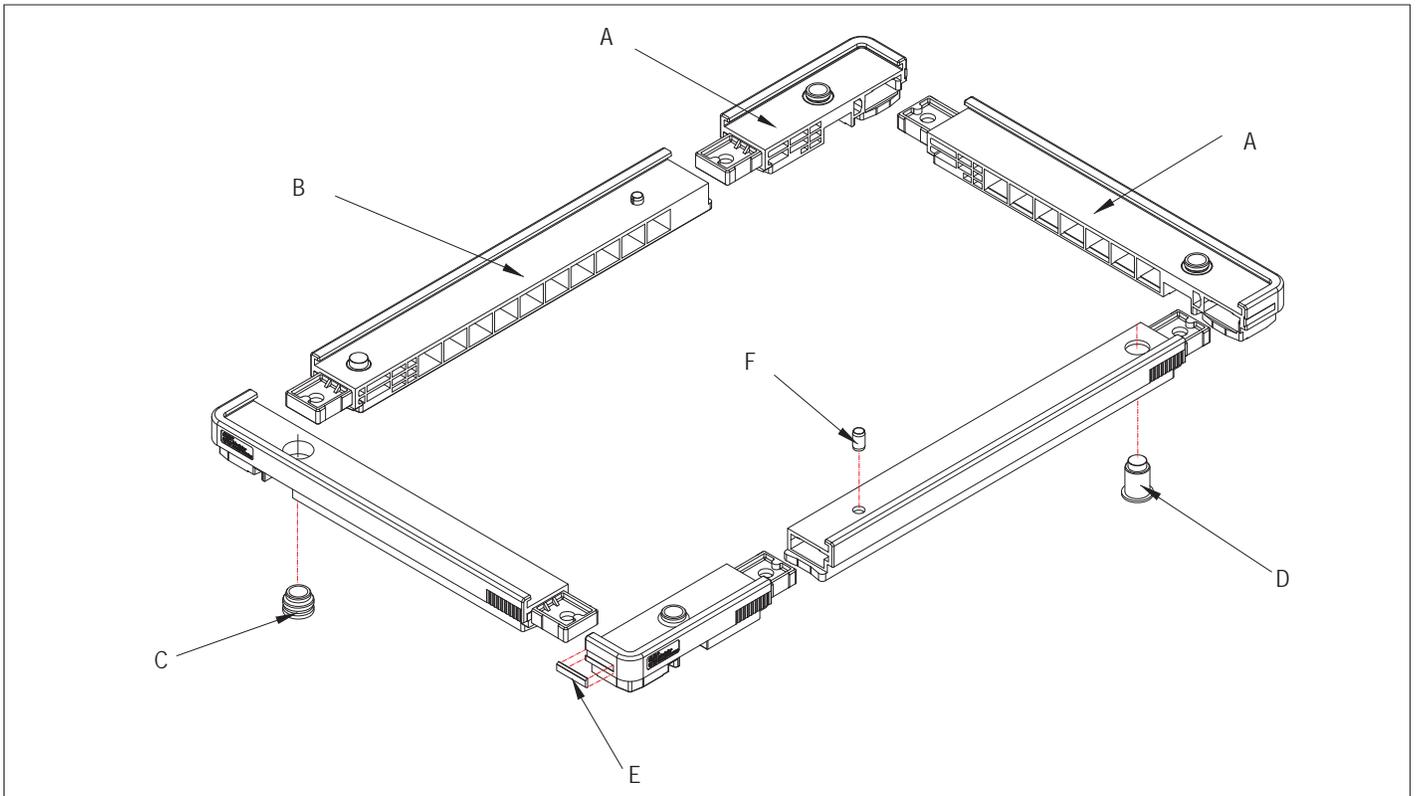
- ▶ For pallet detect, to absorb the stop force from the stop

Positioning bushing

- ▶ To have the positioning unit locate the pallet in exact position

|   |   |                         |         |
|---|---|-------------------------|---------|
|    | Pallet frame  | Pg -33                  |         |
|   |    | Frame module            | Pg -35  |
|   |    | Positioning bushing     | Pg -37  |
|   |    | Reinforcement support   | Pg - 38 |
|   |   | Exciter plate           | Pg - 38 |
|   |  | Elastic cylindrical pin | Pg - 39 |
|   |  | Elastic cylindrical pin | Pg - 39 |
|  | Support plate   | Pg - 40                 |         |

## WP2/E Pallet frame



- ⚠ Positioning bushing T5, Reinforcement support T5 for 5mm thickness support plate.
- ⚠ Positioning bushing T8, Reinforcement support T8 for 8mm thickness support plate.
- ⚠ Positioning bushing T12, Reinforcement support T12 for 12mm thickness support plate.

| No. | Description                | Part No. |
|-----|----------------------------|----------|
| A   | Corner part 160            | 50703101 |
|     | Corner part 240            | 50703102 |
|     | Corner part 320            | 50703103 |
|     | Corner part 400            | 50703105 |
| B   | Linear part 320            | 50703104 |
| C   | Positioning bushing (T5)   | 50702101 |
|     | Positioning bushing (T8)   | 50702108 |
|     | Positioning bushing (T12)  | 50702110 |
| D   | Reinforcement support (T5) | 50703108 |
|     | Reinforcement support (T8) | 50703109 |
|     | Reinforcement support(T12) | 50703110 |
| E   | Exciter plate              | 50703107 |
| F   | Elastic cylindrical pin    | Φ8x20    |



## WP2/E Pallet frame

## Ordering reference

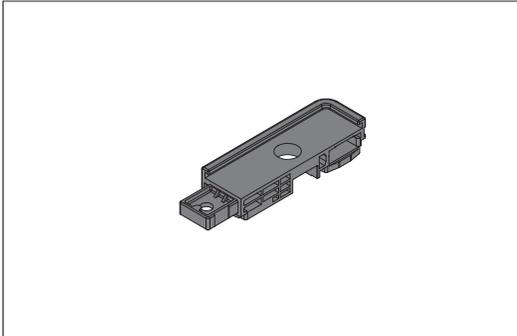
| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | T<br>(mm) | A |   |   |   | B | C |   |   | D |   |   | E | F     | Weight<br>(kg) | Part No. |          |
|-------------------------|-------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|-------|----------------|----------|----------|
|                         |                         |           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | φ8×20 |                |          |          |
| 160                     | 160                     | 5         | 4 |   |   |   | 4 |   |   |   |   |   |   | 4 |       | 0.43           | 50703301 |          |
|                         | 240                     | 5         | 2 | 2 |   |   | 4 |   |   |   |   |   |   | 4 |       | 0.51           | 50703302 |          |
|                         | 320                     | 5         | 2 |   | 2 |   | 4 |   |   |   |   |   |   | 4 |       | 0.59           | 50703303 |          |
| 240                     | 240                     | 5         |   | 4 |   |   | 4 |   |   |   |   |   |   | 4 |       | 0.58           | 50703304 |          |
|                         | 320                     | 5         |   | 2 | 2 |   | 4 |   |   |   |   |   |   | 4 |       | 0.67           | 50703305 |          |
|                         | 400                     | 5         |   | 2 |   | 2 |   | 4 |   |   |   |   |   |   | 4     |                | 0.74     | 50703306 |
|                         |                         | 8         |   | 2 |   | 2 |   | 4 |   | 4 |   |   |   |   | 4     |                | 0.75     | 50703307 |
|                         | 480                     | 5         | 2 | 2 |   |   | 2 | 4 |   |   | 2 |   |   |   | 4     | 2              | 0.95     | 50703308 |
|                         |                         | 8         | 2 | 2 |   |   | 2 | 4 |   | 4 |   |   | 2 |   | 4     | 2              | 0.97     | 50703309 |
| 320                     | 320                     | 5         |   |   | 4 |   | 4 |   |   |   |   |   |   | 4 |       | 0.76           | 50703310 |          |
|                         |                         | 8         |   |   | 4 |   | 4 |   |   | 4 |   |   |   | 4 |       | 0.77           | 50703311 |          |
|                         | 400                     | 5         |   |   | 2 | 2 |   | 4 |   |   |   |   |   |   | 4     |                | 0.83     | 50703312 |
|                         |                         | 8         |   |   | 2 | 2 |   | 4 |   |   | 4 |   |   |   | 4     |                | 0.84     | 50703313 |
|                         | 480                     | 5         | 2 | 2 |   |   | 2 | 4 |   |   | 2 |   |   |   | 4     | 2              | 1.03     | 50703314 |
|                         |                         | 8         | 2 | 2 |   |   | 2 | 4 |   |   | 4 |   | 2 |   | 4     | 2              | 1.04     | 50703315 |
|                         |                         | 12        | 2 | 2 | 2 | 2 | 2 | 4 |   |   | 4 |   | 2 | 2 | 4     | 2              | 1.06     | 50703316 |
|                         | 640                     | 5         |   |   | 4 |   | 2 | 4 |   |   | 2 |   |   |   | 4     | 2              | 1.20     | 50703317 |
|                         |                         | 8         |   |   | 4 |   | 2 | 4 |   |   | 2 |   |   |   | 4     | 2              | 1.21     | 50703318 |
| 12                      |                         |           |   | 4 |   | 2 | 4 |   |   | 4 |   | 2 | 2 | 4 | 2     | 1.23           | 50703319 |          |
| 400                     | 400                     | 5         |   |   |   | 4 | 4 |   |   |   |   |   |   | 4 |       | 0.90           | 50703320 |          |
|                         |                         | 8         |   |   |   | 4 | 4 |   |   | 4 |   |   |   | 4 |       | 0.91           | 50703321 |          |
|                         |                         | 12        |   |   |   | 4 | 4 |   |   | 4 |   |   |   | 4 |       | 0.92           | 50703322 |          |
|                         | 480                     | 5         | 2 |   |   | 2 | 2 | 4 |   |   | 2 |   |   |   | 4     | 2              | 1.11     | 50703323 |
|                         |                         | 8         | 2 |   |   | 2 | 2 | 4 |   |   | 4 |   | 2 |   | 4     | 2              | 1.12     | 50703324 |
|                         |                         | 12        | 2 |   |   | 2 | 2 | 4 |   |   | 4 |   | 2 | 2 | 4     | 2              | 1.14     | 50703325 |
|                         | 640                     | 5         |   |   | 2 | 2 | 2 | 4 |   |   | 2 |   |   |   | 4     | 2              | 1.27     | 50703326 |
|                         |                         | 8         |   |   | 2 | 2 | 2 | 4 |   |   | 4 |   | 2 |   | 4     | 2              | 1.28     | 50703327 |
|                         |                         | 12        |   |   | 2 | 2 | 2 | 4 |   |   | 4 |   | 2 | 2 | 4     | 2              | 1.30     | 50703328 |
| 480                     | 480                     | 5         | 4 |   |   |   | 4 | 4 |   | 4 |   |   |   | 4 | 4     | 1.31           | 50703329 |          |
|                         |                         | 8         | 4 |   |   |   | 4 | 4 |   | 4 |   |   |   | 4 | 4     | 1.32           | 50703330 |          |
|                         |                         | 12        | 4 |   |   |   | 4 | 4 |   | 4 |   |   |   | 4 | 4     | 1.35           | 50703331 |          |
|                         | 640                     | 5         | 2 |   | 2 |   | 4 | 4 |   | 4 |   |   |   | 4 | 4     | 1.48           | 50703332 |          |
|                         |                         | 8         | 2 |   | 2 |   | 4 | 4 |   | 4 |   |   |   | 4 | 4     | 1.49           | 50703333 |          |
|                         |                         | 12        | 2 |   | 2 |   | 4 | 4 |   | 4 |   |   |   | 4 | 4     | 1.52           | 50703334 |          |
| 640                     | 640                     | 5         |   |   | 4 |   | 4 | 4 |   | 4 |   |   |   | 4 | 4     | 1.64           | 50703335 |          |
|                         |                         | 8         |   |   | 4 |   | 4 | 4 |   | 4 |   |   |   | 4 | 4     | 1.65           | 50703336 |          |
|                         |                         | 12        |   |   | 4 |   | 4 | 4 |   | 4 |   |   |   | 4 | 4     | 1.68           | 50703337 |          |

⚠ T is thickness of support plate. T=5 is for 5mm carbon steel plate or aluminum plate, T=8 is for 8mm aluminum plate, T=12 is for 12mm aluminum plate.



Frame module

Corner part 160

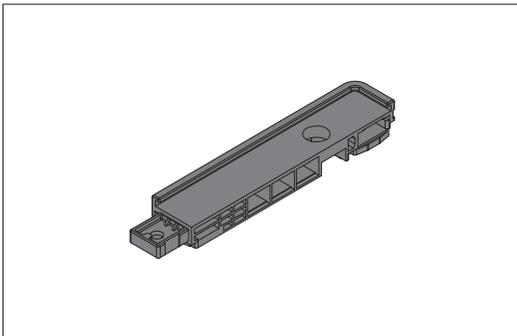


- ▶ Material: PA, black
- ▶ Connected with other corner part, linear part

Ordering reference

| Product name    | Delivery unit | Weight (kg) | Part No. |
|-----------------|---------------|-------------|----------|
| Corner part 160 | 1             | 0.08        | 50703101 |

Corner part 240

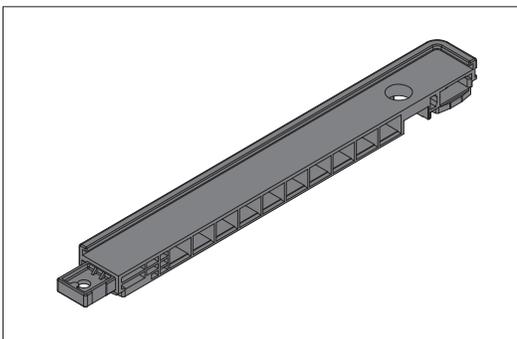


- ▶ Material: PA, black
- ▶ Connected with other corner part, linear part

Ordering reference

| Product name    | Delivery unit | Weight (kg) | Part No. |
|-----------------|---------------|-------------|----------|
| Corner part 240 | 1             | 0.12        | 50703102 |

Corner part 320

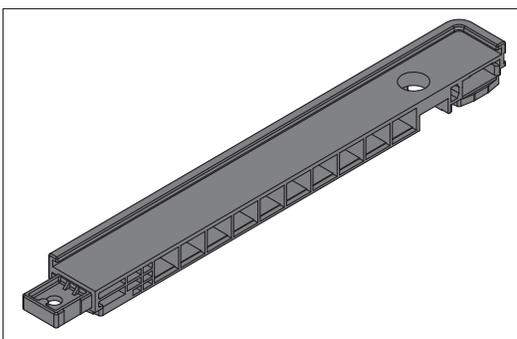


- ▶ Material: PA, black
- ▶ Connected with other corner part, linear part

Ordering reference

| Product name    | Delivery unit | Weight (kg) | Part No. |
|-----------------|---------------|-------------|----------|
| Corner part 320 | 1             | 0.16        | 50703103 |

Corner part 400



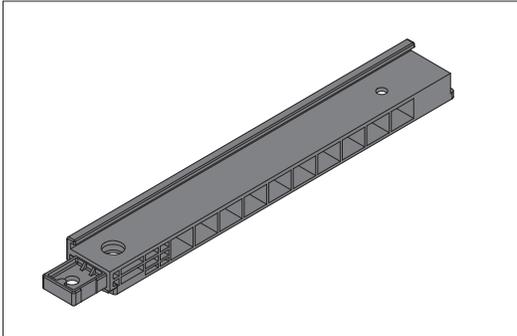
- ▶ Material: PA, black
- ▶ Connected with other corner part, linear part

Ordering reference 订购说明

| Product name    | Delivery unit | Weight (kg) | Part No. |
|-----------------|---------------|-------------|----------|
| Corner part 400 | 1             | 0.20        | 50703105 |

Frame module

Linear part 320



- ▶ Material: PA, black
- ▶ Connected with other corner part, linear part

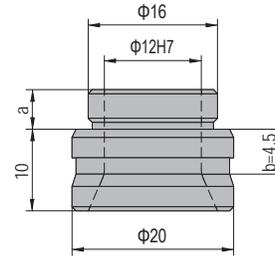
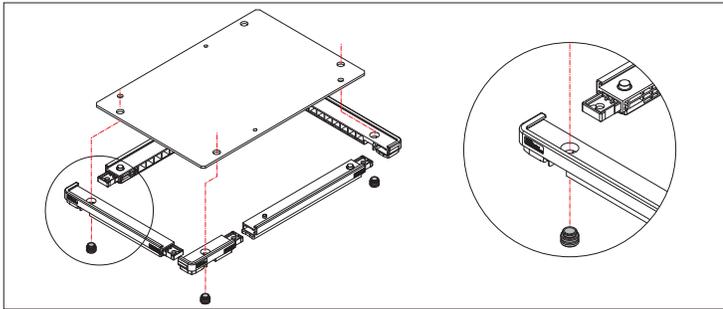
Ordering reference

| Product name   | Delivery unit | Weight (kg) | Part No. |
|----------------|---------------|-------------|----------|
| Linear part320 | 1             | 0.17        | 50703104 |



## Positioning bushing

## Dimension



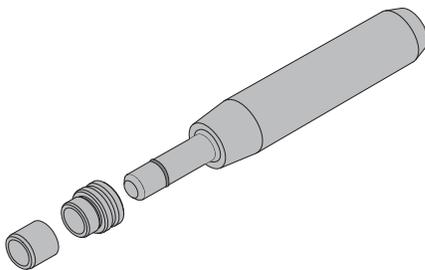
- ▶ Material: Steel, hardened
  - ▶ Combined with frame modules of WP2/E pallet
  - ▶ Accurate positioning
  - ▶ Fix frame module and support plate
- ▶ Accessories
  - ▶ Press-fit mandrel (To be ordered separately)

⚠ The dimension 12H7 refers to the state before press-fitting. After press-fitting with the mandrel, the dimension 12H7 is guaranteed to be in the "b" range.

## Ordering reference

| Product name             | Dimension for a (mm) | Upper dimension for a (mm) | Lower dimension for a (mm) | Thickness of support plate T (mm) | Delivery unit | Weight (kg) | Part No. |
|--------------------------|----------------------|----------------------------|----------------------------|-----------------------------------|---------------|-------------|----------|
| Positioning bushing(T5)  | 4.8                  | 0                          | -0.15                      | 5                                 | 1             | 0.016       | 50702101 |
| Positioning bushing(T8)  | 7.8                  | 0                          | -0.15                      | 8                                 | 1             | 0.018       | 50702108 |
| Positioning bushing(T12) | 11.8                 | 0                          | -0.15                      | 12                                | 1             | 0.021       | 50702110 |

## Press-fit mandrel



- ▶ Material: steel, hardened
- ▶ Can be combined with positioning bushing of the WP2/E pallet

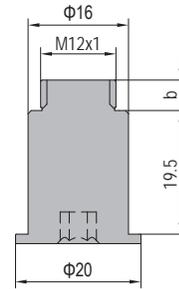
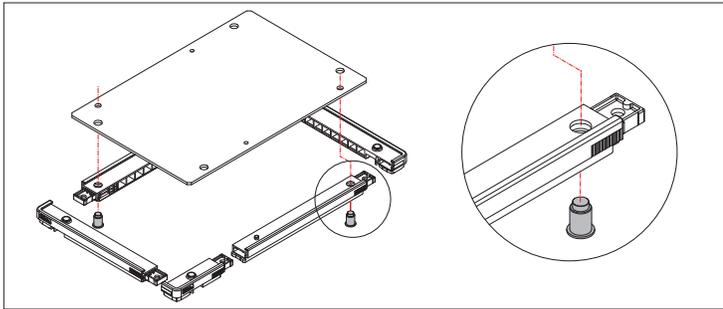
▶ The press-fit mandrel is used when mounting the pallet for pressing the positioning bushings into the support plate.

## Ordering reference

| Product name      | Delivery unit | Part No. |
|-------------------|---------------|----------|
| Press-fit mandrel | 1             | 50702600 |

## Reinforcement support

## Dimension



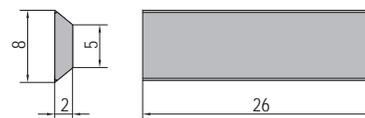
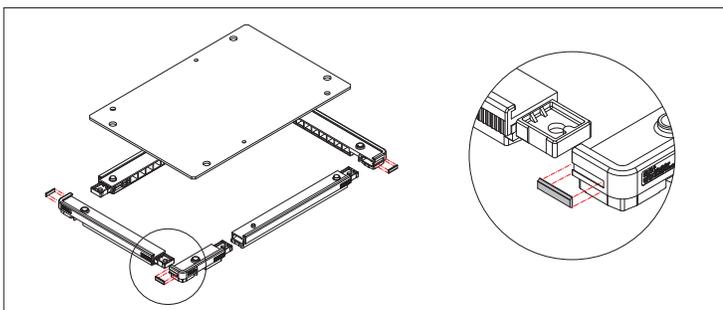
- ▶ Material: steel, zinc plate
- ▶ Combined with frame modules of WP2/E pallet
- ▶ For pallet detection
- ▶ For absorbing the stop forces on the stop

## Ordering reference 订购说明

| Product name              | Dimension for b (mm) | Upper dimension for b (mm) | Lower dimension for b (mm) | Thickness for support plate T (mm) | Allowable max. torque (N.M) | Delivery unit | Weight (kg) | Part No. |
|---------------------------|----------------------|----------------------------|----------------------------|------------------------------------|-----------------------------|---------------|-------------|----------|
| Reinforcement support T5  | 4.8                  | 0                          | -0.15                      | 5                                  | 14                          | 1             | 0.04        | 50702103 |
| Reinforcement support T8  | 7.8                  | 0                          | -0.15                      | 8                                  | 14                          | 1             | 0.041       | 50702109 |
| Reinforcement support T12 | 11.8                 | 0                          | -0.15                      | 12                                 | 14                          | 1             | 0.045       | 50702111 |

## Exciter plate

## Dimension



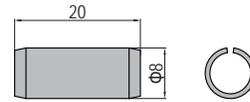
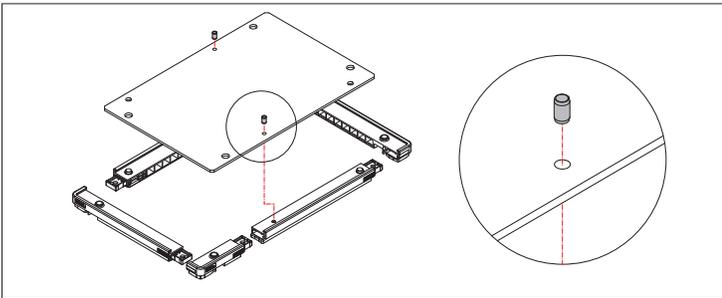
- ▶ Material: steel, zinc plate
- ▶ Combined with corner part 160, 240, 320, 400 for WP2/E pallet
- ▶ The sensor detects the location of the pallet through exciter plate

## Ordering reference

| Product name  | Delivery unit | Weight (kg) | Part No. |
|---------------|---------------|-------------|----------|
| Exciter plate | 1             | 0.003       | 50703107 |

Elastic cylindrical pin

Dimension



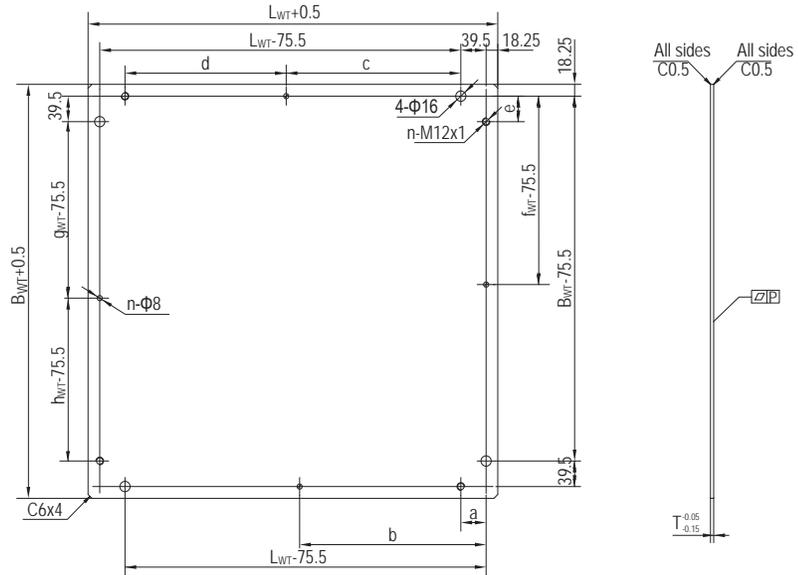
- ▶ GB/T879.2-2000
- ▶ Material: steel, zinc plated
- ▶ To connect support plate and linear parts of WP2/E pallet

Ordering reference

| Product name          | Delivery unit | Weight (kg) |
|-----------------------|---------------|-------------|
| Hex. countersink bolt | 1             | 0.006       |

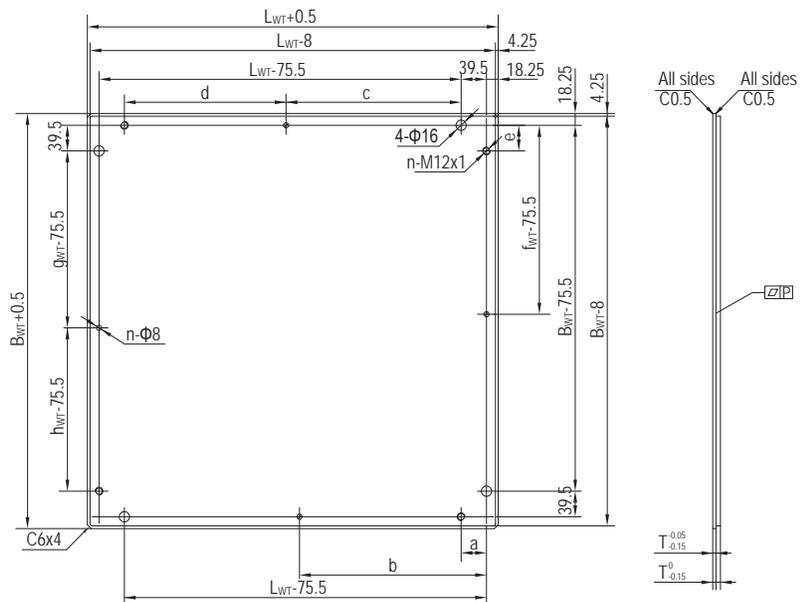
Support plate

5mm steel or aluminum support plate



! No production drawings

8mm、12mm aluminum support plate



! No production drawings

## Support plate

## Ordering reference

| Pallet dimension<br>(mm)<br>B <sub>WT</sub> X L <sub>WT</sub> |     | Thickness of<br>support plate<br>T(mm) | Material of<br>support plate | Surface treatment<br>of support plate | a     | b     | c   | d   | e | f | g | h | n   | P    | Weight<br>(kg) | Ordering<br>reference No. |          |          |
|---|-----|--|------------------------------|---------------------------------------|-------|-------|-----|-----|---|---|---|---|-----|------|----------------|---------------------------|----------|----------|
| 160   | 160 | 5                                      | Aluminum alloy               | Black anodized                        |       |       |     |     |   |   |   |   |     |      | 0.3            | 0.34                      | 50703111 |          |
|   |     |  | Aluminum alloy               | Nature anodized                       |       |       |     |     |   |   |   |   |     |      |                | 0.3                       | 0.34     | 50703113 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |       |       |     |     |   |   |   |   |     |      |                | 0.3                       | 0.98     | 50703112 |
|   | 240 | 5                                      | Aluminum alloy               | Black anodized                        |       |       |     |     |   |   |   |   |     |      |                | 0.3                       | 0.51     | 50703114 |
|   |     |  | Aluminum alloy               | Nature anodized                       |       |       |     |     |   |   |   |   |     |      |                | 0.3                       | 0.51     | 50703116 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |       |       |     |     |   |   |   |   |     |      |                | 0.3                       | 1.48     | 50703115 |
|   | 320 | 5                                      | Aluminum alloy               | Black anodized                        |       |       |     |     |   |   |   |   |     |      |                | 0.3                       | 0.68     | 50703117 |
|   |     |  | Aluminum alloy               | Nature anodized                       |       |       |     |     |   |   |   |   |     |      |                | 0.3                       | 0.68     | 50703119 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |       |       |     |     |   |   |   |   |     |      |                | 0.3                       | 1.99     | 50703118 |
| 240   | 240 | 5                                      | Aluminum alloy               | Black anodized                        |       |       |     |     |   |   |   |   |     |      | 0.3            | 0.77                      | 50703120 |          |
|   |     |  | Aluminum alloy               | Nature anodized                       |       |       |     |     |   |   |   |   |     |      |                | 0.3                       | 0.77     | 50703122 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |       |       |     |     |   |   |   |   |     |      |                | 0.3                       | 2.24     | 50703121 |
|   | 320 | 5                                      | Aluminum alloy               | Black anodized                        |       |       |     |     |   |   |   |   |     |      | 0.5            | 1.03                      | 50703123 |          |
|   |     |  | Aluminum alloy               | Nature anodized                       |       |       |     |     |   |   |   |   |     |      |                | 0.5                       | 1.03     | 50703125 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |       |       |     |     |   |   |   |   |     |      |                | 0.5                       | 2.99     | 50703124 |
|   | 400 | 5                                      | Aluminum alloy               | Black anodized                        |       |       |     |     |   |   |   |   |     |      | 0.6            | 1.29                      | 50703126 |          |
|   |     |  | Aluminum alloy               | Nature anodized                       |       |       |     |     |   |   |   |   |     |      |                | 0.6                       | 1.29     | 50703128 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |       |       |     |     |   |   |   |   |     |      |                | 0.6                       | 3.75     | 50703127 |
|   | 8   | 5                                      | Aluminum alloy               | Nature anodized                       |       |       |     |     |   |   |   |   |     |      | 0.6            | 2.02                      | 50703129 |          |
|   |     |  | Aluminum alloy               | Black anodized                        | 39.5  | 291.5 | 113 | 252 |   |   |   |   | 2   | 0.6  | 1.54           | 50703130                  |          |          |
|   |     |  | Aluminum alloy               | Nature anodized                       | 39.5  | 291.5 | 113 | 252 |   |   |   |   | 2   | 0.6  | 1.54           | 50703132                  |          |          |
|   | 8   | 5                                      | Carbon steel                 | Black electrophoresis                 | 39.5  | 291.5 | 113 | 252 |   |   |   |   | 2   | 0.6  | 4.50           | 50703131                  |          |          |
|   |     |  | Aluminum alloy               | Nature anodized                       | 39.5  | 291.5 | 113 | 252 |   |   |   |   | 2   | 0.6  | 2.42           | 50703133                  |          |          |
|   |     |  | Aluminum alloy               | Black anodized                        |       |       |     |     |   |   |   |   |     |      |                | 0.5                       | 1.37     | 50703134 |
| 320   | 320 | 5                                      | Aluminum alloy               | Nature anodized                       |       |       |     |     |   |   |   |   |     |      | 0.5            | 1.37                      | 50703136 |          |
|   |     |  | Aluminum alloy               | Black anodized                        |       |       |     |     |   |   |   |   |     |      |                | 0.5                       | 4.00     | 50703135 |
|   |     |  | Carbon steel                 | Black electrophoresis                 |       |       |     |     |   |   |   |   |     |      |                | 0.5                       | 4.00     | 50703135 |
|   | 8   | 5                                      | Aluminum alloy               | Nature anodized                       |       |       |     |     |   |   |   |   |     |      | 0.5            | 2.15                      | 50703137 |          |
|   |     |  | Aluminum alloy               | Black anodized                        |       |       |     |     |   |   |   |   |     |      |                | 0.6                       | 1.72     | 50703138 |
|   |     |  | Aluminum alloy               | Nature anodized                       |       |       |     |     |   |   |   |   |     |      |                | 0.6                       | 1.72     | 50703140 |
|   | 8   | 5                                      | Carbon steel                 | Black electrophoresis                 |       |       |     |     |   |   |   |   |     |      | 0.6            | 5.00                      | 50703139 |          |
|   |     |  | Aluminum alloy               | Nature anodized                       |       |       |     |     |   |   |   |   |     |      | 0.6            | 2.71                      | 50703141 |          |
|   |     |  | Aluminum alloy               | Black anodized                        | 39.5  | 291.5 | 113 | 252 |   |   |   |   | 2   | 0.6  | 2.07           | 50703142                  |          |          |
|   | 8   | 5                                      | Aluminum alloy               | Nature anodized                       | 39.5  | 291.5 | 113 | 252 |   |   |   |   | 2   | 0.6  | 2.07           | 50703144                  |          |          |
|   |     |  | Carbon steel                 | Black electrophoresis                 | 39.5  | 291.5 | 113 | 252 |   |   |   |   | 2   | 0.6  | 6.01           | 50703143                  |          |          |
|   |     |  | Aluminum alloy               | Nature anodized                       | 39.5  | 291.5 | 113 | 252 |   |   |   |   | 2   | 0.6  | 3.26           | 50703145                  |          |          |
|   | 12  | 5                                      | Aluminum alloy               | Nature anodized                       | 39.5  | 291.5 | 113 | 252 |   |   |   |   | 2   | 0.6  | 4.85           | 50703146                  |          |          |
|   |     |  | Aluminum alloy               | Black anodized                        | 39.5  | 291.5 | 273 | 252 |   |   |   |   | 2   | 0.8  | 2.77           | 50703147                  |          |          |
|   |     |  | Aluminum alloy               | Nature anodized                       | 39.5  | 291.5 | 273 | 252 |   |   |   |   | 2   | 0.8  | 2.77           | 50703149                  |          |          |
| 8   | 5   | Carbon steel                           | Black electrophoresis        | 39.5                                  | 291.5 | 273   | 252 |     |   |   |   | 2 | 0.8 | 8.05 | 50703148       |                           |          |          |
|   |     | Aluminum alloy                         | Nature anodized              | 39.5                                  | 291.5 | 273   | 252 |     |   |   |   | 2 | 0.8 | 4.36 | 50703150       |                           |          |          |
|   |     | Aluminum alloy                         | Nature anodized              | 39.5                                  | 291.5 | 273   | 252 |     |   |   |   | 2 | 0.8 | 6.48 | 50703151       |                           |          |          |



## Support plate

## Ordering reference

| Pallet dimension<br>(mm)<br>B <sub>WT</sub> X L <sub>WT</sub> |              | Thickness of<br>support plate<br>T(mm) | Material of<br>support plate | Surface treatment<br>of support plate | a                     | b               | c               | d     | e     | f     | g     | h     | n     | P   | Weight<br>(kg) | Ordering<br>reference No. |          |          |          |
|---|--------------|--|------------------------------|---------------------------------------|-----------------------|-----------------|-----------------|-------|-------|-------|-------|-------|-------|-----|----------------|---------------------------|----------|----------|----------|
| 400   | 400          | 5                                      | Aluminum alloy               | Black anodized                        |                       |                 |                 |       |       |       |       |       |       |     | 0.6            | 2.15                      | 50703152 |          |          |
|   |              |  | Aluminum alloy               | Nature anodized                       |                       |                 |                 |       |       |       |       |       |       |     |                | 0.6                       | 2.15     | 50703154 |          |
|   |              |  | Carbon steel                 | Black electrophoresis                 |                       |                 |                 |       |       |       |       |       |       |     |                | 0.6                       | 6.26     | 50703153 |          |
|   |              | 8                                      | Aluminum alloy               | Nature anodized                       |                       |                 |                 |       |       |       |       |       |       |     |                | 0.6                       | 3.39     | 50703155 |          |
|   |              | 12                                     | Aluminum alloy               | Nature anodized                       |                       |                 |                 |       |       |       |       |       |       |     |                | 0.6                       | 5.04     | 50703156 |          |
|   | 480          | 480                                    | 5                            | Aluminum alloy                        | Black anodized        | 39.5            | 291.5           | 113   | 252   |       |       |       |       | 2   | 0.6            | 2.58                      | 50703157 |          |          |
|   |              |  |                              | Aluminum alloy                        | Nature anodized       | 39.5            | 291.5           | 113   | 252   |       |       |       |       | 2   | 0.6            | 2.58                      | 50703159 |          |          |
|   |              |  |                              | Carbon steel                          | Black electrophoresis | 39.5            | 291.5           | 113   | 252   |       |       |       |       | 2   | 0.6            | 7.51                      | 50703158 |          |          |
|   |              |  | 8                            | Aluminum alloy                        | Nature anodized       | 39.5            | 291.5           | 113   | 252   |       |       |       |       | 2   | 0.6            | 4.07                      | 50703160 |          |          |
|   |              |  | 12                           | Aluminum alloy                        | Nature anodized       | 39.5            | 291.5           | 113   | 252   |       |       |       |       | 2   | 0.6            | 6.06                      | 50703161 |          |          |
|   |              | 640                                    | 5                            | Aluminum alloy                        | Black anodized        | 39.5            | 291.5           | 273   | 252   |       |       |       |       |     | 2              | 0.8                       | 3.45     | 50703162 |          |
|   |              |  |                              | Aluminum alloy                        | Nature anodized       | 39.5            | 291.5           | 273   | 252   |       |       |       |       |     | 2              | 0.8                       | 3.45     | 50703164 |          |
|   |              |  |                              | Carbon steel                          | Black electrophoresis | 39.5            | 291.5           | 273   | 252   |       |       |       |       |     | 2              | 0.8                       | 10.03    | 50703163 |          |
|   |              |  | 8                            | Aluminum alloy                        | Nature anodized       | 39.5            | 291.5           | 273   | 252   |       |       |       |       |     | 2              | 0.8                       | 5.45     | 50703165 |          |
|   |              |  | 12                           | Aluminum alloy                        | Nature anodized       | 39.5            | 291.5           | 273   | 252   |       |       |       |       |     | 2              | 0.8                       | 8.12     | 50703166 |          |
|   |              |  | 480                          | 480                                   | 5                     | Aluminum alloy  | Black anodized  | 39.5  | 291.5 | 113   | 252   | 39.5  | 291.5 | 113 | 252            | 4                         | 0.8      | 3.10     | 50703167 |
|   |              |  |                              |                                       |                       | Aluminum alloy  | Nature anodized | 39.5  | 291.5 | 113   | 252   | 39.5  | 291.5 | 113 | 252            | 4                         | 0.8      | 3.10     | 50703169 |
|   | Carbon steel | Black electrophoresis                  |                              |                                       |                       | 39.5            | 291.5           | 113   | 252   | 39.5  | 291.5 | 113   | 252   | 4   | 0.8            | 9.02                      | 50703168 |          |          |
|   | 8            | Aluminum alloy                         |                              |                                       | Nature anodized       | 39.5            | 291.5           | 113   | 252   | 39.5  | 291.5 | 113   | 252   | 4   | 0.8            | 4.90                      | 50703170 |          |          |
|   | 12           | Aluminum alloy                         |                              |                                       | Nature anodized       | 39.5            | 291.5           | 113   | 252   | 39.5  | 291.5 | 113   | 252   | 4   | 0.8            | 7.30                      | 50703171 |          |          |
|   | 640          | 5                                      |                              | Aluminum alloy                        | Black anodized        | 39.5            | 291.5           | 273   | 252   | 39.5  | 291.5 | 113   | 252   | 4   | 1.0            | 4.14                      | 50703172 |          |          |
|   |              |  |                              | Aluminum alloy                        | Nature anodized       | 39.5            | 291.5           | 273   | 252   | 39.5  | 291.5 | 113   | 252   | 4   | 1.0            | 4.14                      | 50703174 |          |          |
|   |              |  |                              | Carbon steel                          | Black electrophoresis | 39.5            | 291.5           | 273   | 252   | 39.5  | 291.5 | 113   | 252   | 4   | 1.0            | 12.04                     | 50703173 |          |          |
|   |              | 8                                      |                              | Aluminum alloy                        | Nature anodized       | 39.5            | 291.5           | 273   | 252   | 39.5  | 291.5 | 113   | 252   | 4   | 1.0            | 6.55                      | 50703175 |          |          |
| 12  |              | Aluminum alloy                         |                              | Nature anodized                       | 39.5                  | 291.5           | 273             | 252   | 39.5  | 291.5 | 113   | 252   | 4     | 1.0 | 9.74           | 50703176                  |          |          |          |
| 640   |              | 640                                    |                              | 5                                     | Aluminum alloy        | Black anodized  | 39.5            | 291.5 | 120.5 | 252   | 39.5  | 291.5 | 273   | 252 | 4              | 1.0                       | 5.52     | 50703177 |          |
|   |              |  |                              |                                       | Aluminum alloy        | Nature anodized | 39.5            | 291.5 | 120.5 | 252   | 39.5  | 291.5 | 273   | 252 | 4              | 1.0                       | 5.52     | 50703179 |          |
|   | Carbon steel |  | Black electrophoresis        |                                       | 39.5                  | 291.5           | 120.5           | 252   | 39.5  | 291.5 | 273   | 252   | 4     | 1.0 | 16.06          | 50703178                  |          |          |          |
|   | 8            |  | Aluminum alloy               | Nature anodized                       | 39.5                  | 291.5           | 120.5           | 252   | 39.5  | 291.5 | 273   | 252   | 4     | 1.0 | 8.72           | 50703180                  |          |          |          |
|   | 12           |  | Aluminum alloy               | Nature anodized                       | 39.5                  | 291.5           | 120.5           | 252   | 39.5  | 291.5 | 273   | 252   | 4     | 1.0 | 13.02          | 50703181                  |          |          |          |

WP2/C pallet

 Delivery 10-15 Workday

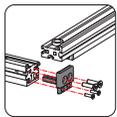
 Please contact us for non-standard products

Features/Benefits

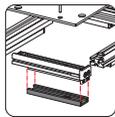
1. With high strength aluminum profiles and friction strip for stable frame.
2. With positioning bushings for a positioning accuracy of  $\pm 0.1\text{mm}$ .
3. The standard exciter plate is to matched with the proximity switch
4. The support plate is 5mm, 8mm, 12mm thickness aluminum plate or 5mm steel plate.
5. The friction strip is replaceable.
6. With full range of dimension for different requests of pallet dimensions.

Supply mode

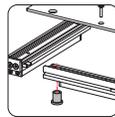
1. Supply in set(Equipped).
2. Supply in pcs



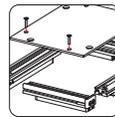
Cap



Friction strip



Positioning bushing



Connector

Ordering Reference for non-standard pallet

WP2/C - B<sub>WT</sub> - L<sub>WT</sub> - A - T - SR



Example

WP2/C-350-400-A-5-SR

WP2/C pallet - pallet width 350mm - pallet length 400mm - type A pallet(black anodized support plate with positioning bushings) - Thickness of support plate 5mm - SR(special requirement)

Note:

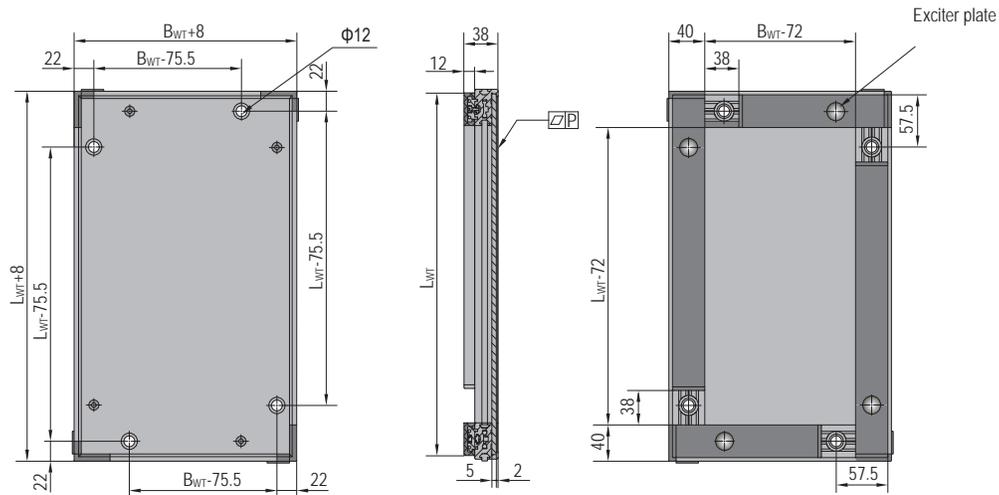
- ▶ Used with pallet conveyor with belt, toothed belt or accumulation roller chain etc.
- ▶ Please contact us for special requirement on the pallet size or support plate thickness.



## WP2/C pallet

Ordering reference for standard pallet

Including positioning bushing



| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | Thickness of support plate T (mm) | Flatness P (mm) | Material of support plate | Surface treatment of support plate | Weight (kg)           | Part No.        |                 |
|-------------------------|-------------------------|-----------------------------------|-----------------|---------------------------|------------------------------------|-----------------------|-----------------|-----------------|
| 160                     | 160                     | 5                                 | 0.3             | Aluminum alloy            | Black anodized                     | 1.61                  | <b>50701201</b> |                 |
|                         |                         |                                   |                 | Aluminum alloy            | Nature anodized                    | 1.61                  | <b>50701203</b> |                 |
|                         |                         |                                   |                 | Carbon steel              | Black electrophoresis              | 2.25                  | <b>50701202</b> |                 |
|                         | 240                     | 240                               | 5               | 0.3                       | Aluminum alloy                     | Black anodized        | 2.14            | <b>50701204</b> |
|                         |                         |                                   |                 |                           | Aluminum alloy                     | Nature anodized       | 2.14            | <b>50701206</b> |
|                         |                         |                                   |                 |                           | Carbon steel                       | Black electrophoresis | 3.10            | <b>50701205</b> |
|                         |                         | 320                               | 5               | 0.3                       | Aluminum alloy                     | Black anodized        | 2.65            | <b>50701207</b> |
|                         |                         |                                   |                 |                           | Aluminum alloy                     | Nature anodized       | 2.65            | <b>50701209</b> |
|                         |                         |                                   |                 |                           | Carbon steel                       | Black electrophoresis | 3.93            | <b>50701208</b> |
| 240                     | 240                     | 5                                 | 0.3             | Aluminum alloy            | Black anodized                     | 2.75                  | <b>50701210</b> |                 |
|                         |                         |                                   |                 | Aluminum alloy            | Nature anodized                    | 2.75                  | <b>50701212</b> |                 |
|                         |                         |                                   |                 | Carbon steel              | Black electrophoresis              | 4.20                  | <b>50701211</b> |                 |
|                         | 320                     | 5                                 | 0.5             | Aluminum alloy            | Black anodized                     | 3.35                  | <b>50701213</b> |                 |
|                         |                         |                                   |                 | Aluminum alloy            | Nature anodized                    | 3.35                  | <b>50701215</b> |                 |
|                         |                         |                                   |                 | Carbon steel              | Black electrophoresis              | 5.28                  | <b>50701214</b> |                 |
|                         | 400                     | 5                                 | 0.6             | Aluminum alloy            | Black anodized                     | 3.96                  | <b>50701216</b> |                 |
|                         |                         |                                   |                 | Aluminum alloy            | Nature anodized                    | 3.96                  | <b>50701218</b> |                 |
|                         |                         |                                   |                 | Carbon steel              | Black electrophoresis              | 6.38                  | <b>50701217</b> |                 |
|                         |                         | 480                               | 8               | 0.5                       | Aluminum alloy                     | Nature anodized       | 6.22            | <b>50701243</b> |
|                         |                         |                                   |                 |                           | Aluminum alloy                     | Black anodized        | 4.58            | <b>50701219</b> |
|                         |                         |                                   |                 |                           | Aluminum alloy                     | Nature anodized       | 4.58            | <b>50701221</b> |
|                         | 320                     | 320                               | 5               | 0.5                       | Aluminum alloy                     | Black anodized        | 4.03            | <b>50701222</b> |
|                         |                         |                                   |                 |                           | Aluminum alloy                     | Nature anodized       | 4.03            | <b>50701224</b> |
|                         |                         |                                   |                 |                           | Carbon steel                       | Black electrophoresis | 6.61            | <b>50701223</b> |
| 400                     |                         | 8                                 | 0.5             | Aluminum alloy            | Nature anodized                    | 6.38                  | <b>50701245</b> |                 |
|                         |                         |                                   |                 | Aluminum alloy            | Black anodized                     | 4.73                  | <b>50701225</b> |                 |
|                         |                         |                                   |                 | Aluminum alloy            | Nature anodized                    | 4.73                  | <b>50701227</b> |                 |
|                         |                         | 8                                 | 0.6             | Carbon steel              | Black electrophoresis              | 7.96                  | <b>50701226</b> |                 |
|                         |                         |                                   |                 | Aluminum alloy            | Nature anodized                    | 7.50                  | <b>50701246</b> |                 |
|                         |                         |                                   |                 | Aluminum alloy            | Nature anodized                    | 7.50                  | <b>50701246</b> |                 |

## WP2/C pallet

Ordering reference for standard pallet

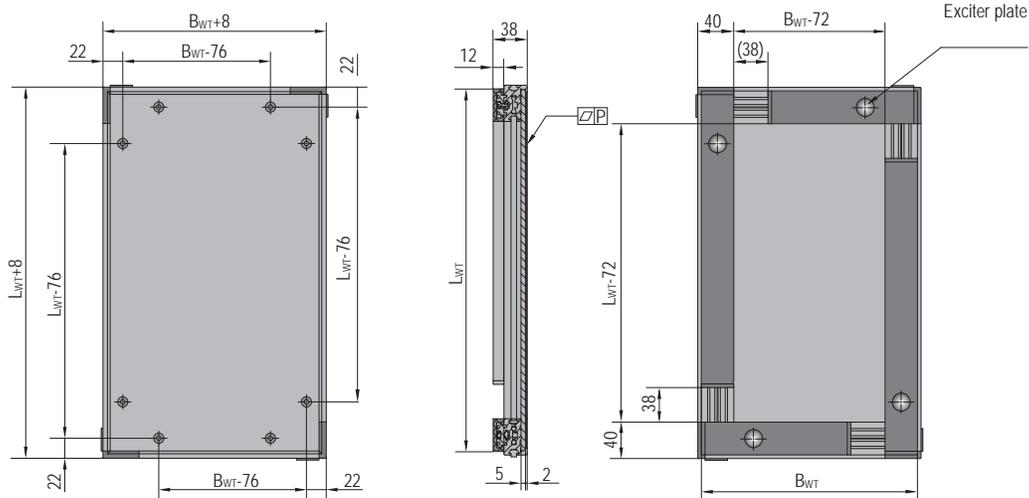
| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | Thickness of support<br>plate T (mm) | Flatness P<br>(mm) | Material of<br>support plate | Surface treatment<br>of support plate | Weight<br>(kg) | Part No.        |
|-------------------------|-------------------------|--------------------------------------|--------------------|------------------------------|---------------------------------------|----------------|-----------------|
| <b>320</b>              | <b>480</b>              | 5                                    | 0.6                | Aluminum alloy               | Black anodized                        | 5.43           | <b>50701228</b> |
|                         |                         |                                      |                    | Aluminum alloy               | Nature anodized                       | 5.43           | <b>50701230</b> |
|                         |                         |                                      |                    | Carbon steel                 | Black electrophoresis                 | 9.31           | <b>50701229</b> |
|                         |                         | 8                                    | 0.6                | Aluminum alloy               | Nature anodized                       | 8.64           | <b>50701247</b> |
|                         |                         | 12                                   | 0.6                | Aluminum alloy               | Nature anodized                       | 12.96          | <b>50701252</b> |
| <b>400</b>              | <b>400</b>              | 5                                    | 0.6                | Aluminum alloy               | Black anodized                        | 5.52           | <b>50701231</b> |
|                         |                         |                                      |                    | Aluminum alloy               | Nature anodized                       | 5.52           | <b>50701233</b> |
|                         |                         |                                      |                    | Carbon steel                 | Black electrophoresis                 | 9.56           | <b>50701232</b> |
|                         |                         | 8                                    | 0.6                | Aluminum alloy               | Nature anodized                       | 8.96           | <b>50701248</b> |
|                         |                         | 12                                   | 0.6                | Aluminum alloy               | Nature anodized                       | 13.44          | <b>50701253</b> |
|                         | <b>480</b>              | 5                                    | 0.6                | Aluminum alloy               | Black anodized                        | 6.31           | <b>50701234</b> |
|                         |                         |                                      |                    | Aluminum alloy               | Nature anodized                       | 6.39           | <b>50701236</b> |
|                         |                         |                                      |                    | Carbon steel                 | Black electrophoresis                 | 11.16          | <b>50701235</b> |
|                         |                         | 8                                    | 0.6                | Aluminum alloy               | Nature anodized                       | 10.22          | <b>50701249</b> |
|                         |                         | 12                                   | 0.6                | Aluminum alloy               | Nature anodized                       | 15.34          | <b>50701254</b> |
| <b>480</b>              | <b>480</b>              | 5                                    | 0.8                | Aluminum alloy               | Black anodized                        | 7.18           | <b>50701237</b> |
|                         |                         |                                      |                    | Aluminum alloy               | Nature anodized                       | 7.18           | <b>50701239</b> |
|                         |                         |                                      |                    | Carbon steel                 | Black electrophoresis                 | 13.01          | <b>50701238</b> |
|                         |                         | 8                                    | 0.8                | Aluminum alloy               | Nature anodized                       | 11.65          | <b>50701250</b> |
|                         |                         | 12                                   | 0.8                | Aluminum alloy               | Nature anodized                       | 17.47          | <b>50701255</b> |
| <b>640</b>              | <b>640</b>              | 5                                    | 0.8                | Aluminum alloy               | Black anodized                        | 10.95          | <b>50701240</b> |
|                         |                         |                                      |                    | Aluminum alloy               | Nature anodized                       | 10.95          | <b>50701242</b> |
|                         |                         |                                      |                    | Carbon steel                 | Black electrophoresis                 | 21.33          | <b>50701241</b> |
|                         |                         | 8                                    | 0.8                | Aluminum alloy               | Nature anodized                       | 15.54          | <b>50701251</b> |
|                         |                         | 12                                   | 0.8                | Aluminum alloy               | Nature anodized                       | 23.30          | <b>50701256</b> |

 No production drawings

## WP2/C pallet

Ordering reference for standard pallet

Excluding positioning bushing

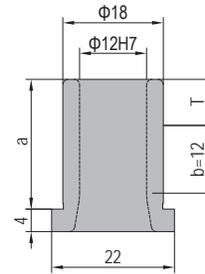
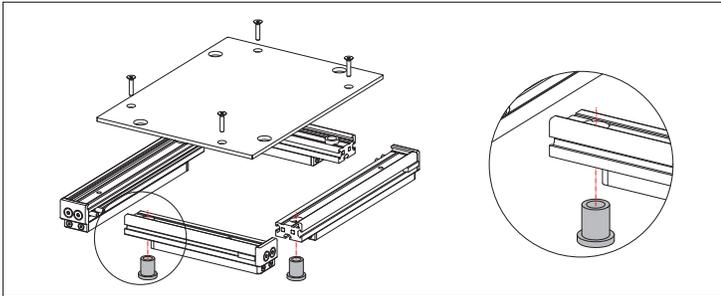


| $B_{WT}$<br>(mm) | $L_{WT}$<br>(mm) | Thickness of support plate T (mm) | Flatness P (mm) | Material of support plate | Surface treatment of support plate | weight (kg)     | Part No.        |                 |
|------------------|------------------|-----------------------------------|-----------------|---------------------------|------------------------------------|-----------------|-----------------|-----------------|
| 160              | 160              | 5                                 | 0.3             | Aluminum alloy            | Nature anodized                    | 1.49            | <b>50701301</b> |                 |
|                  | 240              |                                   |                 | Aluminum alloy            | Nature anodized                    | 1.92            | <b>50701302</b> |                 |
|                  | 320              |                                   |                 | Aluminum alloy            | Nature anodized                    | 2.02            | <b>50701303</b> |                 |
| 240              | 240              | 5                                 | 0.3             | Aluminum alloy            | Nature anodized                    | 2.53            | <b>50701304</b> |                 |
|                  | 320              |                                   | 0.5             | Aluminum alloy            | Nature anodized                    | 3.23            | <b>50701305</b> |                 |
|                  | 400              | 400                               | 5               | 0.6                       | Aluminum alloy                     | Nature anodized | 3.84            | <b>50701306</b> |
|                  |                  |                                   | 8               | 0.5                       | Aluminum alloy                     | Nature anodized | 6.10            | <b>50701315</b> |
|                  |                  | 480                               | 5               | 0.6                       | Aluminum alloy                     | Nature anodized | 4.46            | <b>50701307</b> |
|                  |                  |                                   | 8               | 0.5                       | Aluminum alloy                     | Nature anodized | 7.34            | <b>50701316</b> |
| 320              | 320              | 5                                 | 0.5             | Aluminum alloy            | Nature anodized                    | 3.91            | <b>50701308</b> |                 |
|                  |                  | 8                                 | 0.5             | Aluminum alloy            | Nature anodized                    | 6.26            | <b>50701317</b> |                 |
|                  | 400              | 5                                 | 0.6             | Aluminum alloy            | Nature anodized                    | 4.61            | <b>50701309</b> |                 |
|                  |                  | 8                                 | 0.6             | Aluminum alloy            | Nature anodized                    | 7.38            | <b>50701318</b> |                 |
|                  | 480              | 5                                 | 0.6             | Aluminum alloy            | Nature anodized                    | 5.31            | <b>50701310</b> |                 |
|                  |                  | 8                                 | 0.6             | Aluminum alloy            | Nature anodized                    | 8.52            | <b>50701319</b> |                 |
|                  |                  | 12                                | 0.6             | Aluminum alloy            | Nature anodized                    | 12.84           | <b>50701324</b> |                 |
|                  |                  | 5                                 | 0.6             | Aluminum alloy            | Nature anodized                    | 5.40            | <b>50701311</b> |                 |
| 400              | 400              | 8                                 | 0.6             | Aluminum alloy            | Nature anodized                    | 8.84            | <b>50701320</b> |                 |
|                  |                  | 12                                | 0.6             | Aluminum alloy            | Nature anodized                    | 13.32           | <b>50701325</b> |                 |
|                  |                  | 5                                 | 0.6             | Aluminum alloy            | Nature anodized                    | 6.19            | <b>50701312</b> |                 |
|                  | 480              | 8                                 | 0.6             | Aluminum alloy            | Nature anodized                    | 10.10           | <b>50701321</b> |                 |
|                  |                  | 12                                | 0.6             | Aluminum alloy            | Nature anodized                    | 15.22           | <b>50701326</b> |                 |
| 480              | 480              | 5                                 | 0.8             | Aluminum alloy            | Nature anodized                    | 7.06            | <b>50701313</b> |                 |
|                  |                  | 8                                 | 0.8             | Aluminum alloy            | Nature anodized                    | 11.53           | <b>50701322</b> |                 |
|                  |                  | 12                                | 0.8             | Aluminum alloy            | Nature anodized                    | 17.35           | <b>50701327</b> |                 |
| 640              | 640              | 5                                 | 0.8             | Aluminum alloy            | Nature anodized                    | 10.83           | <b>50701314</b> |                 |
|                  |                  | 8                                 | 0.8             | Aluminum alloy            | Nature anodized                    | 15.42           | <b>50701323</b> |                 |
|                  |                  | 12                                | 0.8             | Aluminum alloy            | Nature anodized                    | 23.18           | <b>50701328</b> |                 |

 No production drawings

## Positioning bushing

## Dimension



- ▶ Material: steel, hardened
- ▶ Combined with profile frames of WP2/C pallet
- ▶ Accurate positioning
- ▶ Fix profile frame and support plate

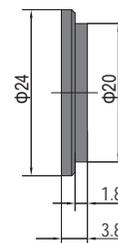
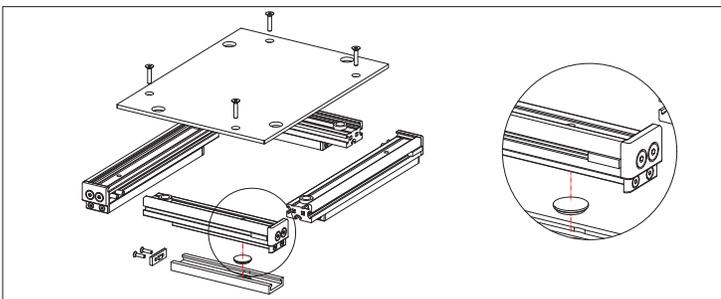
⚠ The dimension 12H7 refers to the state before press-fitting. After press-fitting with the mandrel, the dimension 12H7 is guaranteed to be in the "b" range.

## Ordering reference 订购说明

| Product name          | Dimension for a (mm) | Upper dimension for a (mm) | Lower dimension for a (mm) | Thickness of support plate T (mm) | Delivery unit | Weight (kg) | Part No. |
|-----------------------|----------------------|----------------------------|----------------------------|-----------------------------------|---------------|-------------|----------|
| Pallet Conveyor (T5)  | 19.85                | 0                          | -0.1                       | 5                                 | 1             | 0.03        | 50701103 |
| Pallet Conveyor (T8)  | 22.85                | 0                          | -0.1                       | 8                                 | 1             | 0.035       | 50701107 |
| Pallet Conveyor (T12) | 26.85                | 0                          | -0.1                       | 12                                | 1             | 0.04        | 50701108 |

## Exciter plate

## Dimension



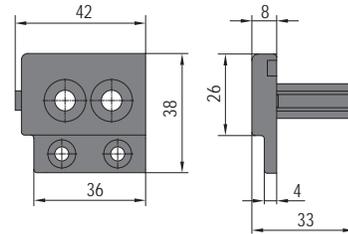
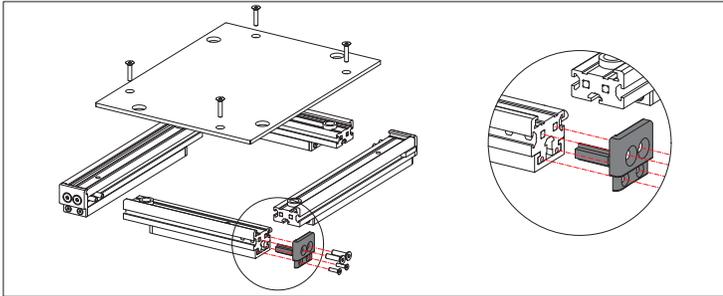
- ▶ Material: steel, zinc plated
- ▶ Combined with profile frame and friction strip of WP2/C pallet

## Ordering reference 订购说明

| Product name  | Delivery unit | Weight (kg) | Part No. |
|---------------|---------------|-------------|----------|
| Exciter plate | 1             | 0.017       | 50701104 |

Cap 1

Dimension



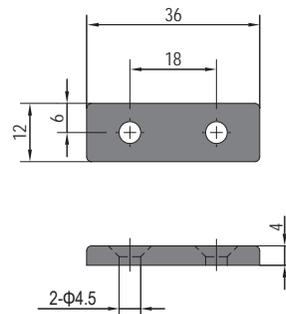
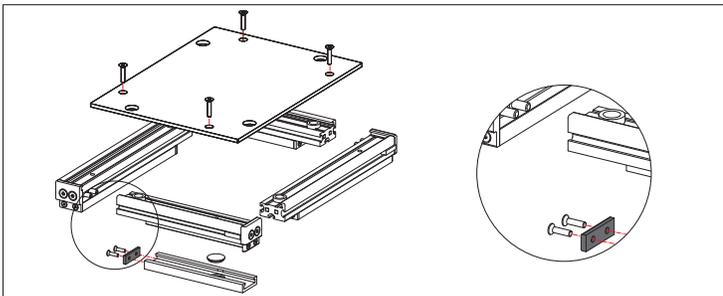
- ▶ Material: PA, black
- ▶ Combined with profile frames of WP2/C pallet

Ordering reference

| Product name | Delivery unit | Weight (kg) | Part No. |
|--------------|---------------|-------------|----------|
| Cap 1        | 1             | 0.014       | 50701102 |

Cap 2

Dimension



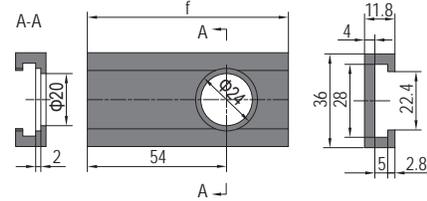
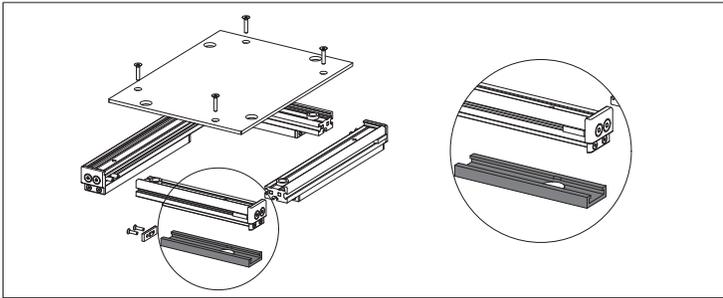
- ▶ Material: PA, black
- ▶ Combined with profile frames of WP2/C pallet

Ordering reference 订购说明

| Product name | Delivery unit | Weight (kg) | Part No. |
|--------------|---------------|-------------|----------|
| Cap 2        | 1             | 0.002       | 50701101 |

Friction Strip

Dimension



- ▶ Material: PE, black
- ▶ Combined with profile frame of WP2/C pallet

See the following table for selection of friction strip of standard pallet. For non standard pallet, the length  $f$  of friction strip is subject to the corresponding pallet width  $B_{WT}$  or length  $L_{WT}$ , i.e.:

|  |
|--|
| $f = B_{WT} - 82$<br>$f = L_{WT} - 82$ |
|--|

Ordering reference 订购说明

| $B_{WT}, L_{WT}$ (mm) | $f$ (mm) | Delivery unit | Weight (kg) | Part No. |
|-----------------------|----------|---------------|-------------|----------|
| 160                   | 78       | 1             | 0.015       | 50701111 |
| 240                   | 158      | 1             | 0.033       | 50701112 |
| 320                   | 238      | 1             | 0.05        | 50701113 |
| 400                   | 318      | 1             | 0.066       | 50701114 |
| 480                   | 398      | 1             | 0.083       | 50701115 |
| 640                   | 558      | 1             | 0.12        | 50701116 |

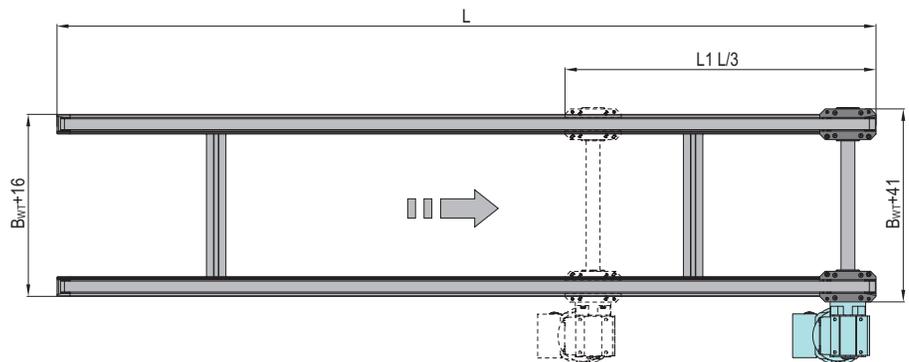
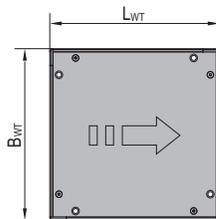
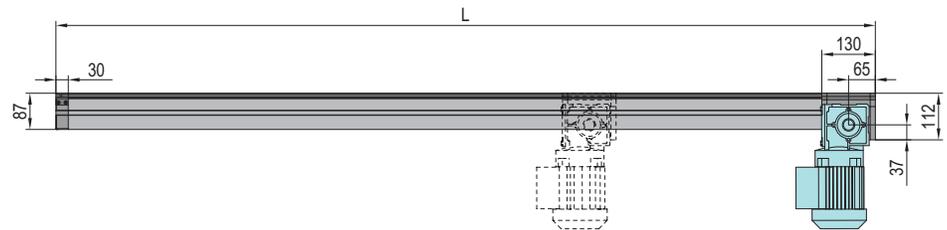
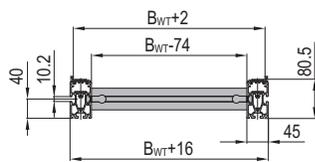
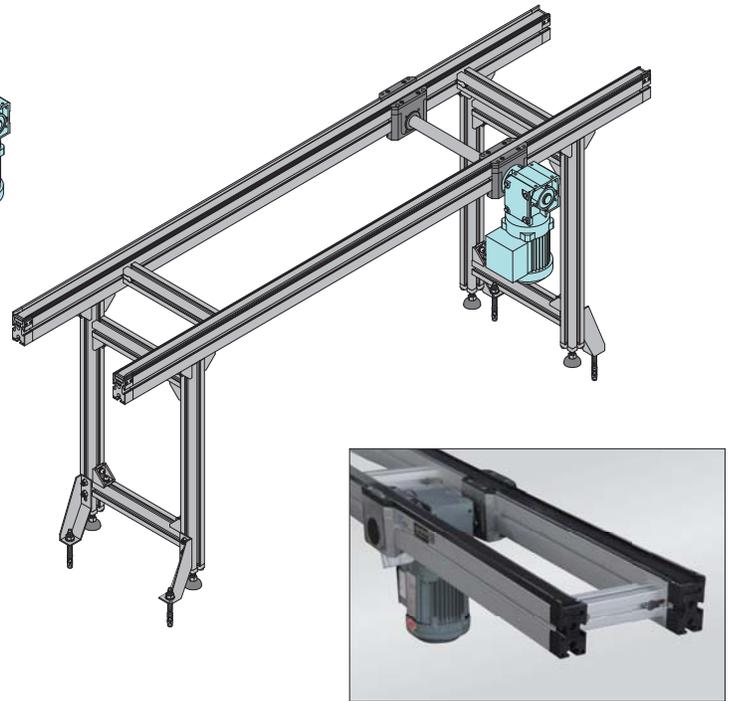
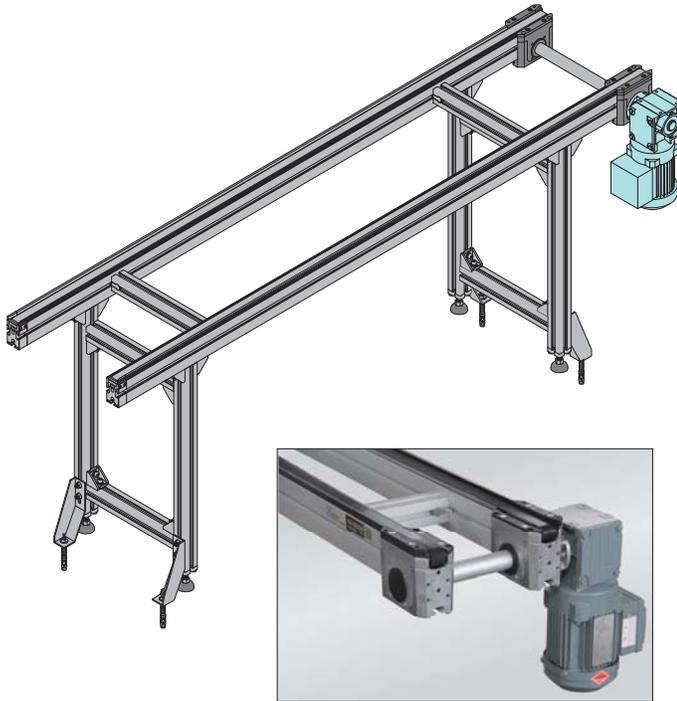
PTS1 Pallet Conveyor (End Drive/Center Drive)

 Delivery **15** Workday

 Please contact us for non-standard products

End Drive

Center Drive

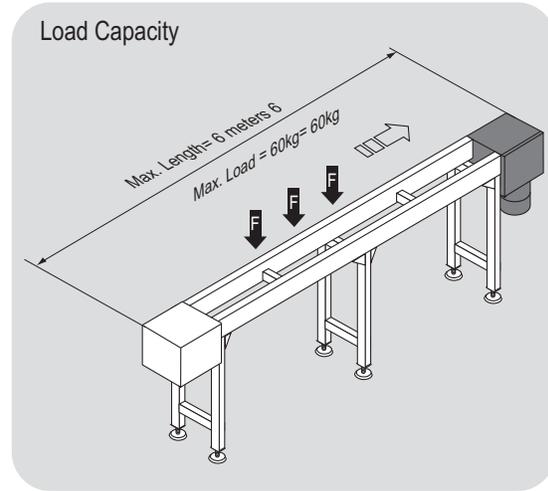


-  To be used only with Modular pallet for now. For the pallet from other suppliers or made by customers, we need to verify for the compatibility in advance, or we don't guarantee on the main conveyor line or related units.
-  Workpiece pallets should be conveyed toward a drive unit. Reversible operation will lower a third of conveying capacity.
-  When selecting center drive conveyor, the drive unit should be close to the conveyor end and within a third of conveyor length.
-  The length of conveyor body should be multiple of five.



## Specifications 规格配置

|                     |                            |
|---------------------|----------------------------|
| Conveyor Length     | 400 L 6000mm               |
| Pallet Width        | 160 B <sub>WT</sub> 1200mm |
| Conveyor Height     | Customer Specified         |
| Max. Load Capacity  | 60kg                       |
| Max. Conveyor Speed | V max.=20m/min             |
| Drive Model         | Direct                     |
| Conveying Medium    | Special toothed belt       |



 Unit Load Capacity 1kg/cm.

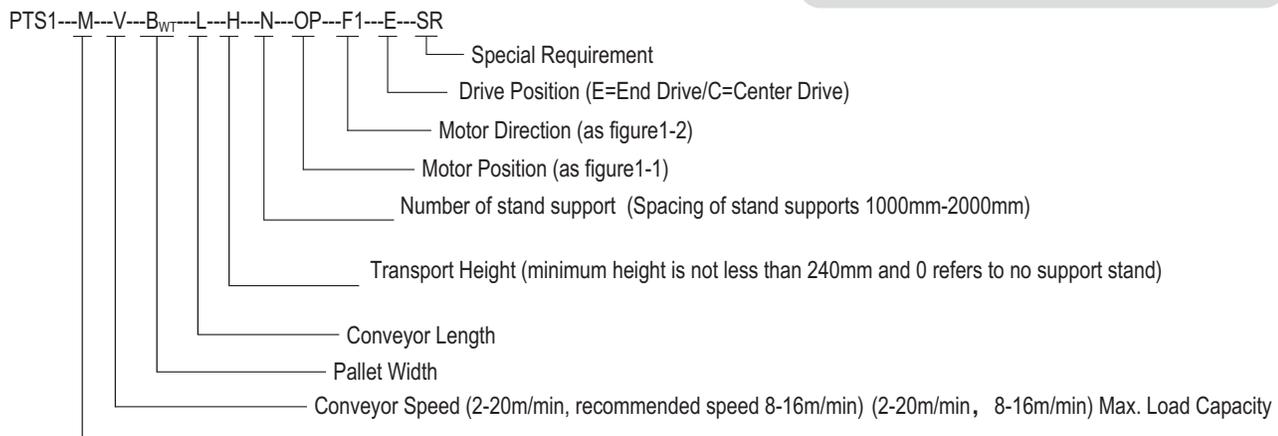
## Features/Benefits

1. Modular design, part production in mold, easy to assemble and maintenance.
2. Due to its modular components, it can be adapted to suit specific production conditions and in conjunction with specific units including rotate unit, curve, lift and transverse unit and lift unit.
3. T slot aluminum profile frame for easy accessory attachment(sensor, bracket etc).
4. Conveying medium is antistatic toothed belt.

## Industries Served

Factory Automation, Electronics, Automobile Parts etc.

## Ordering Reference

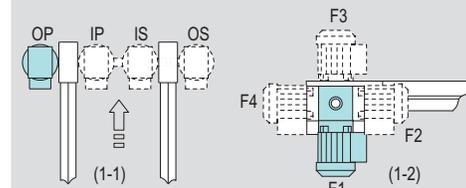


Example:

PTS1--M30--V16--B<sub>WT</sub>160--L2000--H800--N2--OP--F1--E

PTS1 pallet conveyor---max. load capacity 30kg---conveyor speed 16m/min---pallet width 160mm---conveyor length 2000mm---transport height 800mm  
 --- 2sets of stand support---motor position OP---motor direction F1---end drive.

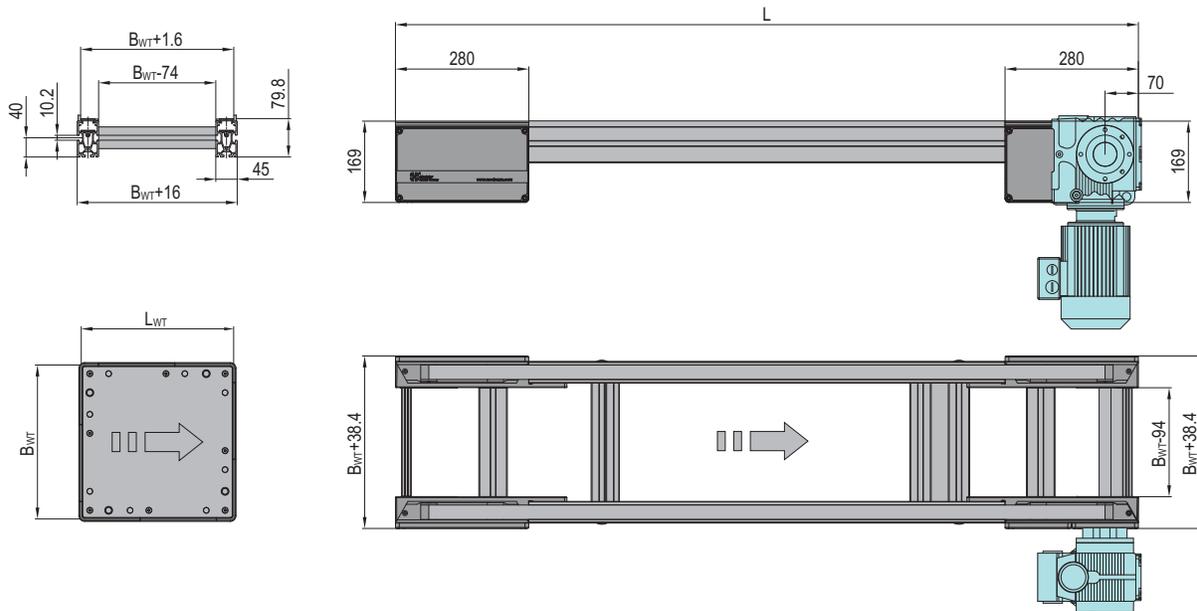
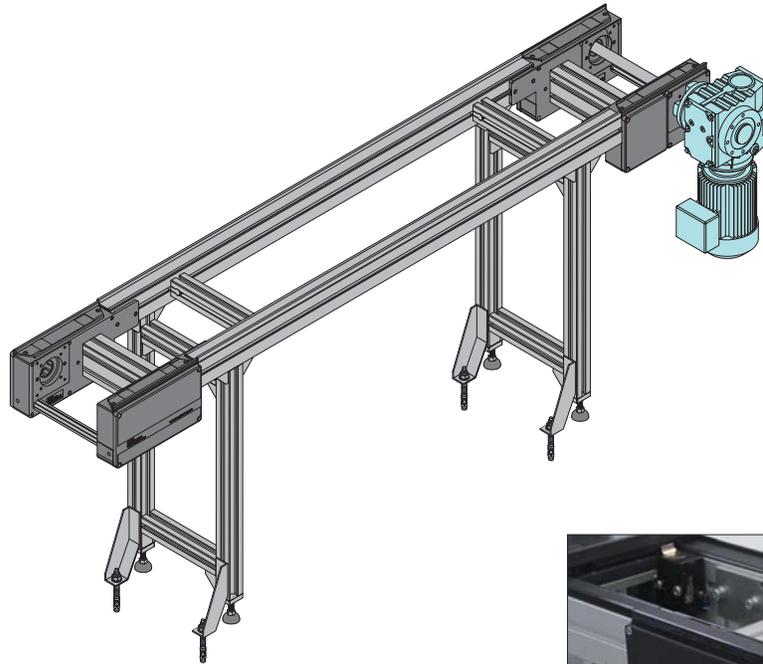
## Motor Layout



The direction of motor terminal box as figure indicated, and please contact us if special request needed.

PTS1/H Pallet Conveyor

 Delivery **15** Workday  
 Please contact us for non-standard products



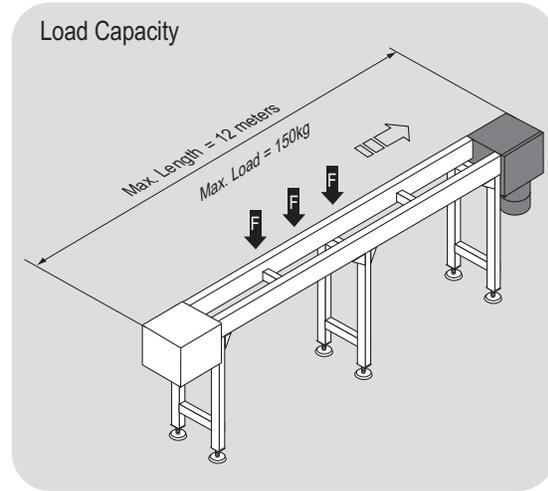
 To be used only with Modular pallet for now. For the pallet from other suppliers or made by customers, we need to verify for the compatibility in advance, or we don't guarantee on the main conveyor line or related units.

 Workpiece pallets should be conveyed toward a drive unit, reversible operation is forbidden.



Specifications

|                     |                            |
|---------------------|----------------------------|
| Conveyor Length     | 1200 L 12000mm             |
| Pallet Width        | 160 B <sub>WT</sub> 1200mm |
| Conveyor Height     | Customer Specified         |
| Max. Load Capacity  | 150kg                      |
| Max. Conveyor Speed | V max.=20m/min             |
| Drive Model         | Direct                     |
| Conveying Medium    | Nylon base belt            |



⚠ Unit Load Capacity 1kg/cm.

Features/Benefits 特征

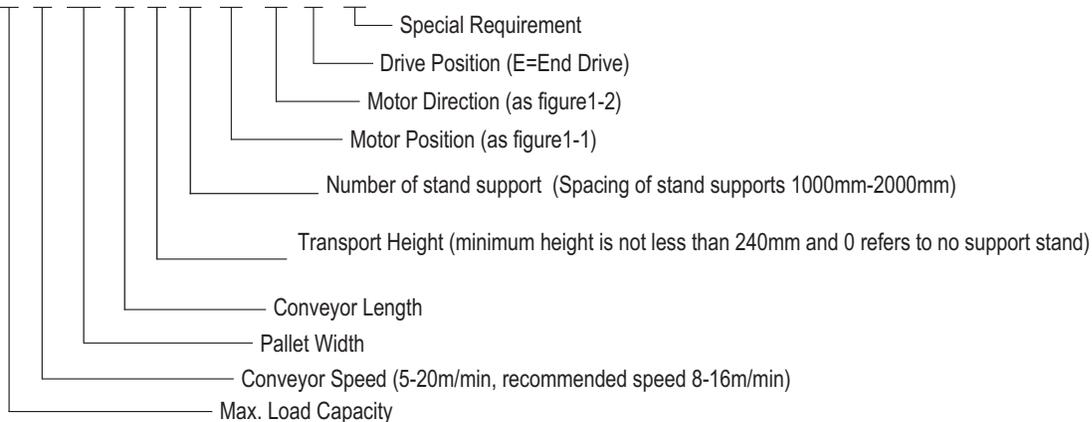
1. Modular design, part production in mold, easy to assemble and maintenance.
2. Due to its modular components, it can be adapted to suit specific production conditions and in conjunction with specific units including rotate unit, curve, lift and transverse unit and lift unit.
3. T slot aluminum profile frame for easy accessory attachment(sensor, bracket etc).
4. Conveying medium is antistatic nylon base belt.

Industries Served

Factory Automation, Electronics, Automobile Parts etc.

Ordering Reference

PTS1/H---M---V---B<sub>WT</sub>---L---H---N---OP---F1---E---SR

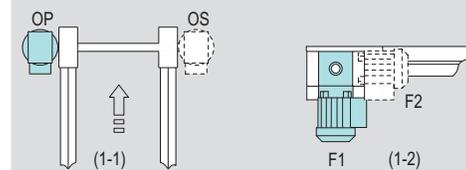


Example:

PTS1/H---M30---V16---B<sub>WT</sub>160---L2000---H800---N2---OP---F1---E

PTS1/H pallet conveyor---max. load capacity 30kg---conveyor speed 16m/min---pallet width 160mm---conveyor length 2000mm---transport height 800mm  
--- 2sets of stand support---motor position OP---motor direction F1---end drive.

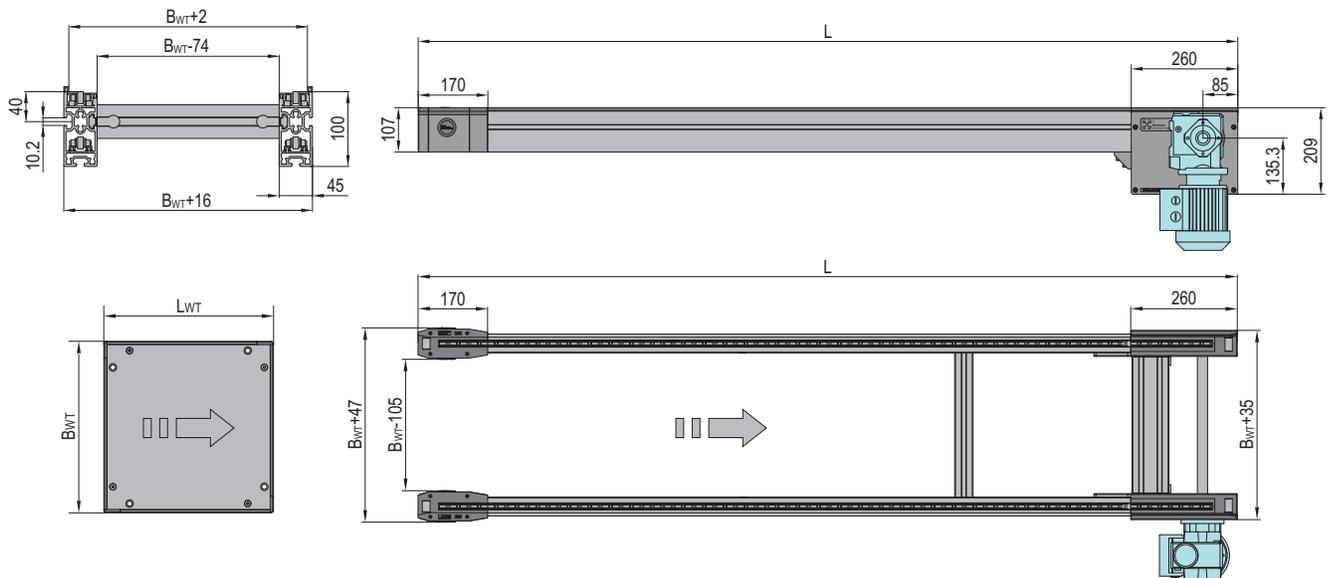
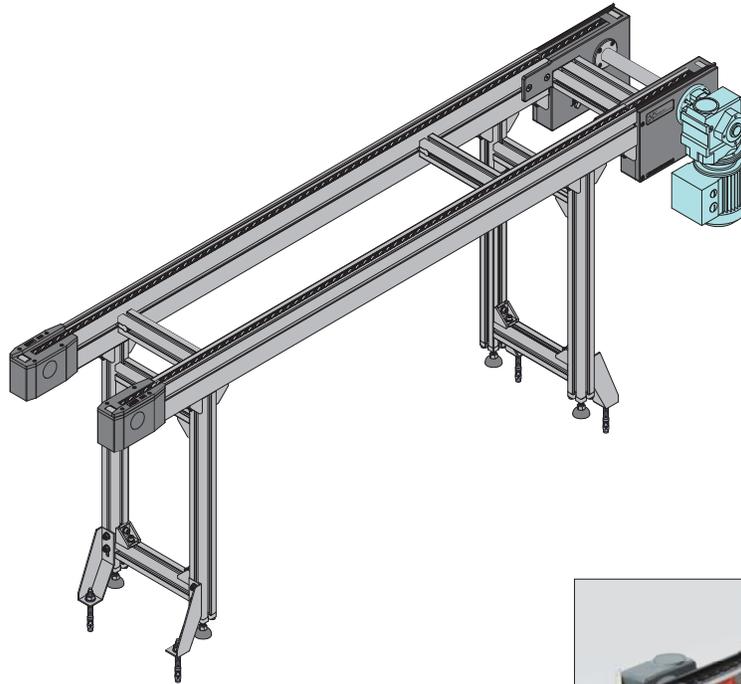
Motor Layout



The direction of motor terminal box as figure indicated, and please contact us if special request needed.

PTS2 Pallet Conveyor

 Delivery **15** Workday  
 Please contact us for non-standard products



 To be used only with Modular pallet for now. For the pallet from other suppliers or made by customers, we need to verify for the compatibility in advance, or we don't guarantee on the main conveyor line or related units.

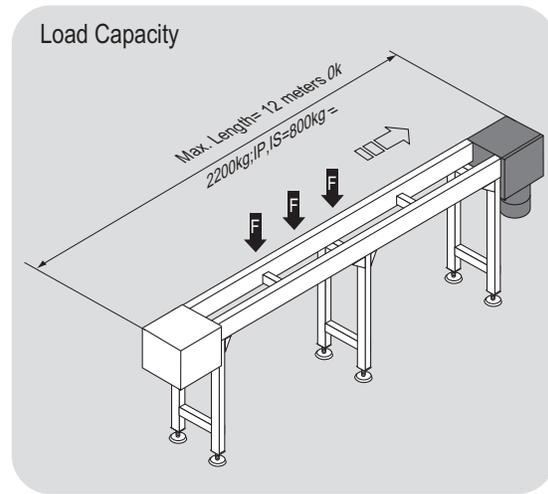
 Workpiece pallets should be conveyed toward a drive unit, reversible operation is forbidden.



**Specifications**

|                     |                               |
|---------------------|-------------------------------|
| Conveyor Length     | 600 L 12000mm                 |
| Pallet Width        | 160 B <sub>WT</sub> 1200mm    |
| Conveyor Height     | Customer Specified            |
| Max. Load Capacity  | OP, OS=2200kg<br>IP, IS=800kg |
| Max. Conveyor Speed | V max.=20m/min <sup>1)</sup>  |
| Drive Model         | Direct                        |
| Conveying Medium    | 08BS Accumulation Chain       |

<sup>1)</sup>When V 18m/min, the max. load capacity will decrease to 1800kg.



⚠ Unit Load Capacity 2.0kg/cm.

**Features/Benefits**

1. Modular design, part production in mold, easy to assemble and maintenance. For middle and big load conveying.
2. Due to its modular components, it can be adapted to suit specific production conditions and in conjunction with specific units including rotate unit, curve, lift and transverse unit and lift unit.

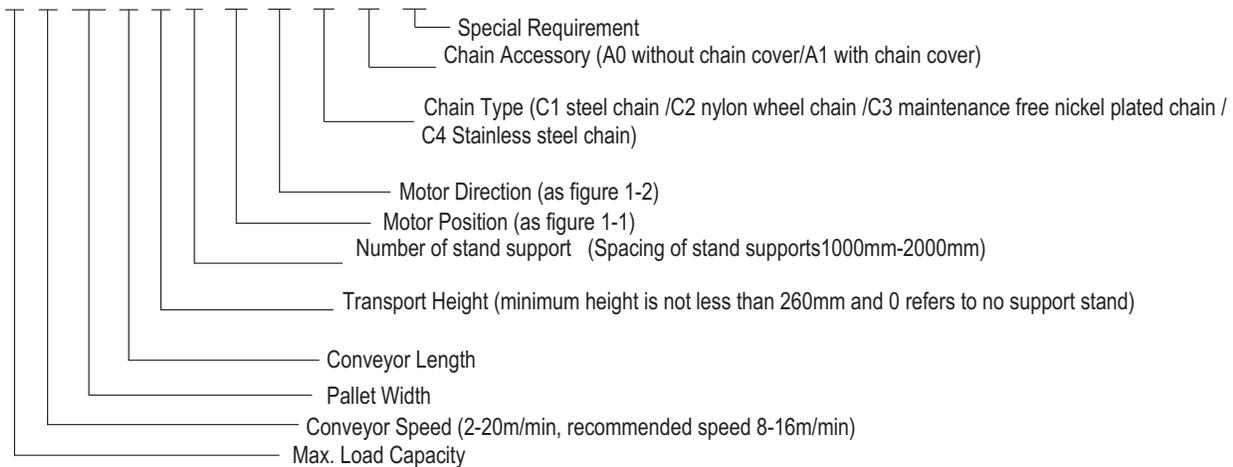
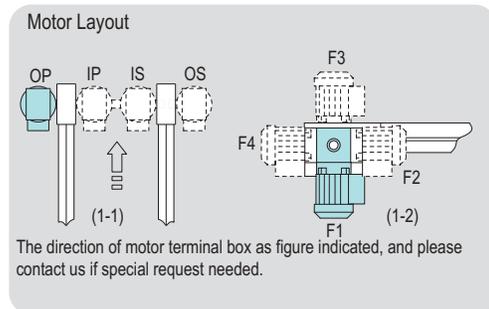
3. T slot aluminum profile frame for easy accessory attachment(sensor, bracket etc).

**Industries Served**

Factory Automation, Home Appliances, Electronics, Automobile Parts etc

**Ordering Reference**

PTS2---M---V---B<sub>WT</sub>---L---H---N---OP---F1---C1---A0---SR



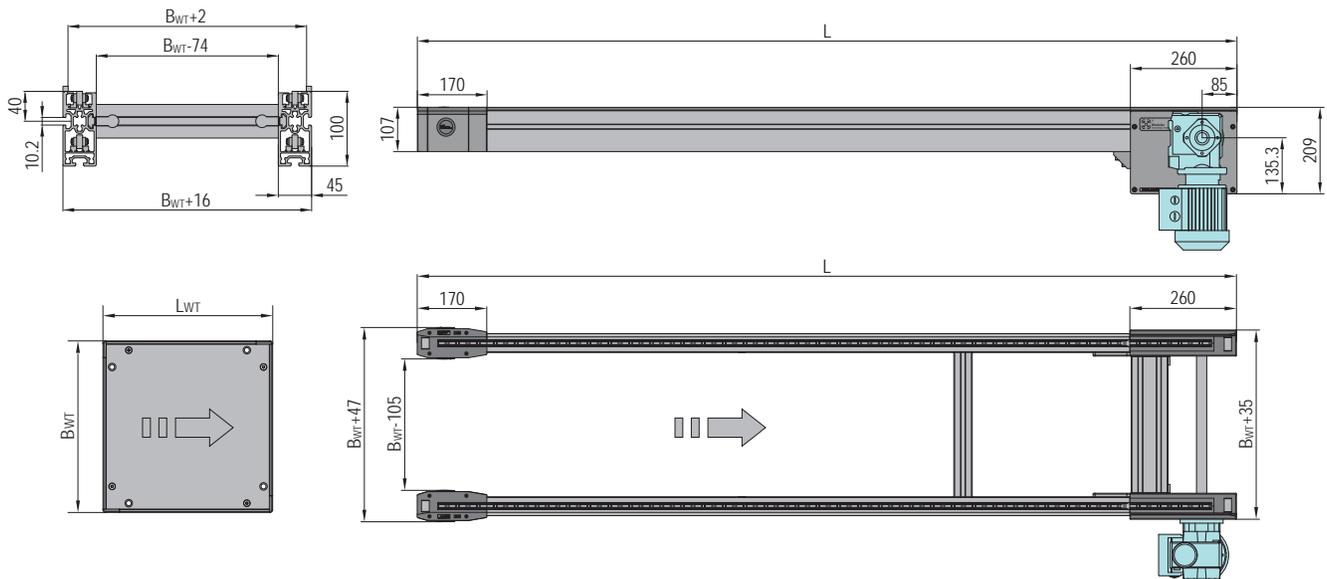
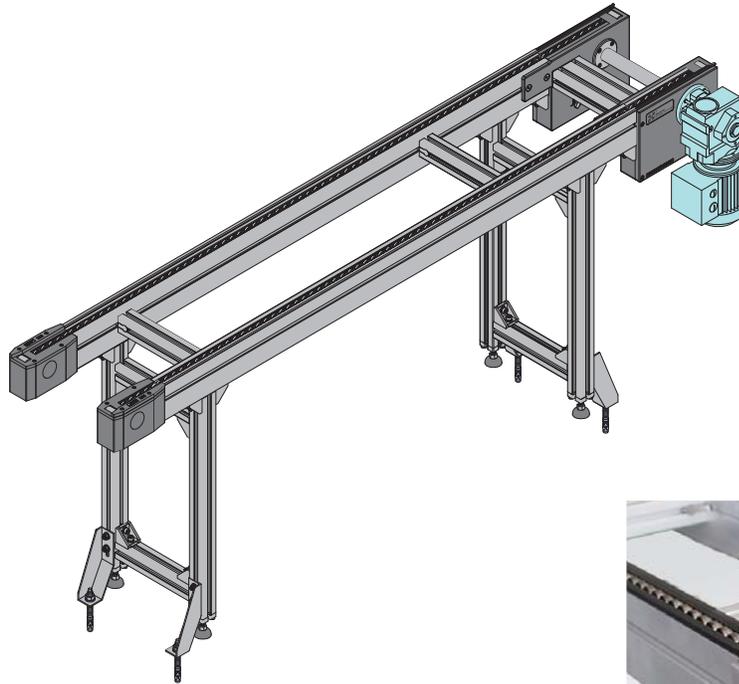
Example:

PTS2---M300---V16---B<sub>WT</sub>160---L2000---H800---N2---OP---F1---C1---A0

PTS2 pallet conveyor---max. load capacity 300kg---conveyor speed 16m/min---pallet width 160mm---conveyor length 2000mm---transport height 800mm  
 --- 2sets of stand support---motor position OP---motor direction F1---steel chain---without chain cover.

PTS2/D 2.5BS Chain Pallet Conveyor

 Delivery **15** Workday  
 Please contact us for non-standard products

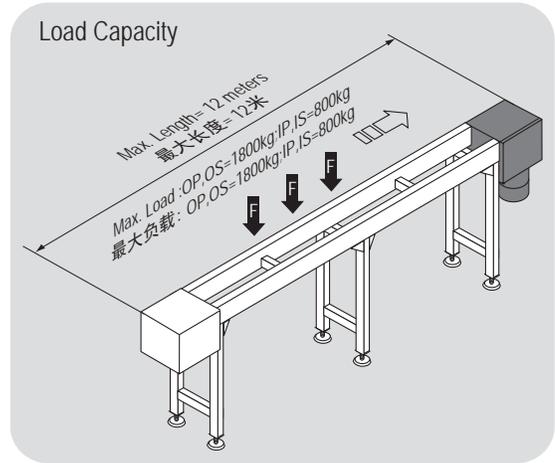


-  The theoretical maximum conveying speed of the pallet is 2.5 times of the rated conveying speed of the chain (it depends on the load capacity, chain wearing, lubrication and length of the acceleration section.)
-  To be used only with Modular pallet for now. For the pallet from other suppliers or made by customers, we need to verify for the compatibility in advance, or we don't guarantee on the main conveyor line or related units.
-  Workpiece pallets should be conveyed toward a drive unit, reversible operation is forbidden.



## Specifications 规格配置

|                     |   |
|---------------------|---|
| Conveyor Length     | $600 \leq L \leq 12000\text{mm}$  |
| Pallet Width        | $160 \leq B_{WT} \leq 1200\text{mm}$  |
| Conveyor Height     | Customer Specified  |
| Max. Load Capacity  | OP, OS=1800kg (Steel chain)<br>OP, OS=1000kg (Nylon wheel chain) IP, IS=800kg |
| Max. Conveyor Speed | $V_N \text{ max.} = 20\text{m/min}^{1)}$                                      |
| Drive Model         | Direct  |
| Conveying Medium    | 2.5 BS accumulation chain   |



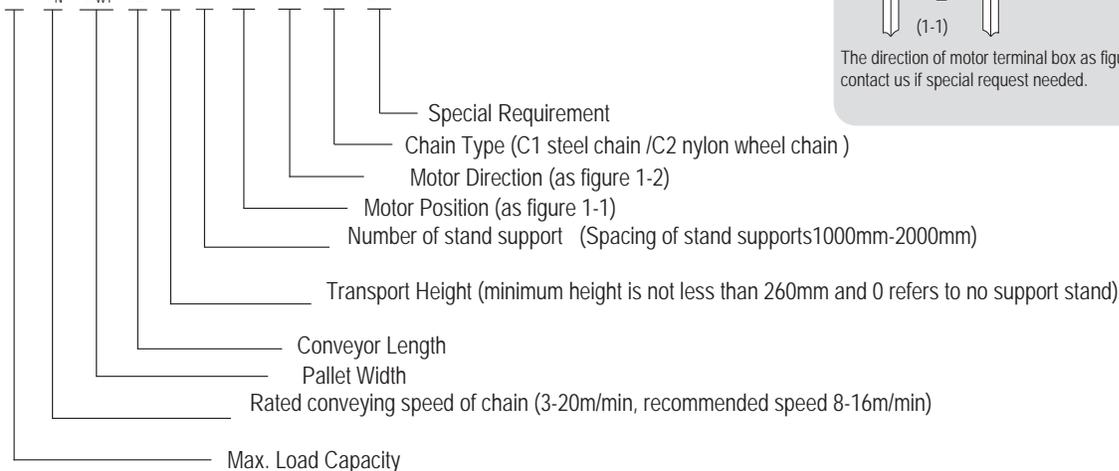
Unit Load Capacity:  $\leq 1.5\text{kg/cm}$  (Steel chain),  
 $\leq 0.8\text{kg/cm}$  (Nylon wheel chain).

<sup>1)</sup> The rated conveying speed of the chain is the value of  $V_N$ . When the  $V_N$  is more than 9m/min, the max load capacity will be decreased to 1500kg. The effect brought out by high dynamic load shall be considered. Pneumatic damper and pneumatic damping stop are selected according to pallet conveying speed. Before entering the curved line, the pallet running speed is 18m/min max.

## Features/Benefits

1. Modular design, part production in mold, easy to assemble and maintenance. For middle and big load conveying.
2. Due to its modular components, it can be adapted to suit specific production conditions and in conjunction with specific units including rotate unit, curve, lift and transverse unit and lift unit.
3. For the same pallet conveying speed, the low chain speed of PTS2/D will be conducive to reduce the wearing degree and the stationarity is better.
4. Pallet with PE wear pad shall be used. Pneumatic damper and pneumatic damper stop are also needed for stopping the pallet.

## Ordering Reference 订购

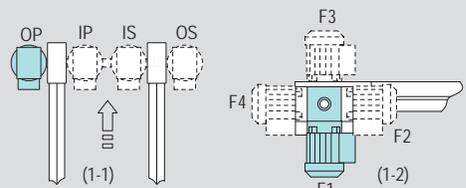
 PTS2/D---M---V<sub>N</sub>---B<sub>WT</sub>---L---H---N---OP---F1---C1---SR


Example:

 PTS2/D---M300---V<sub>N</sub>9---B<sub>WT</sub>320---L2000---H800---N2---OP---F1---C1

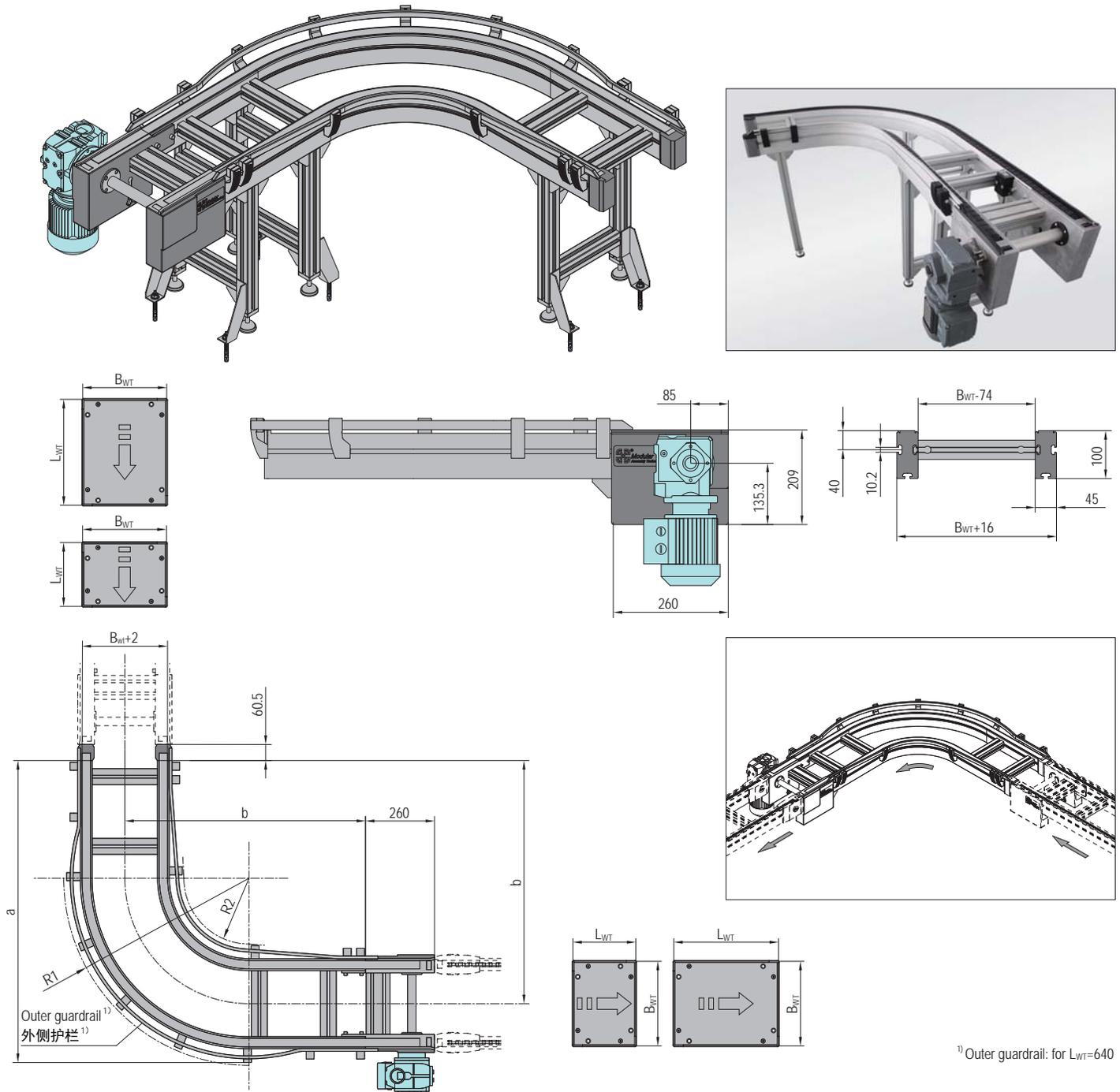
PTS2/D pallet conveyor---max. load capacity 300kg---Rated conveying speed of chain 9m/min---pallet width 320mm---conveyor length 2000mm---transport height 800mm--- 2sets of stand support---motor position OP---motor direction F1---steel chain---without chain cover.

## Motor Layout



The direction of motor terminal box as figure indicated, and please contact us if special request needed.

90° Flat Chain Curve Conveyor



<sup>1)</sup> Outer guardrail: for L<sub>WT</sub>=640

- ⚠ To be used with Modular standard pallet. For the pallet from other suppliers or made by customers, we need to verify for the compatibility in advance, or we don't guarantee on the main conveyor line or related units.
- ⚠ It is suggested for one pallet passing each time. If accumulation transfer is required, the max. load capacity is 90kg and unit load capacity is not more than 0.8kg/cm.
- ⚠ To work with WP2/S or WP2/C.
- ⚠ AL automatic lubrication system is highly recommended for this conveyor.
- ⚠ Workpiece pallets should be conveyed toward a drive unit, reversible operation is forbidden.

## Specifications

| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | R1 <sup>2)</sup><br>(mm) | R2 <sup>2)</sup><br>(mm) | a <sup>2)</sup><br>(mm) | b<br>(mm) |
|-------------------------|-------------------------|--------------------------|--------------------------|-------------------------|-----------|
| 160                     | 160                     | 500                      | 280                      | 760                     | 670       |
| 160                     | 240                     | 500                      | 280                      | 840                     | 750       |
| 160                     | 320                     | 500                      | 260                      | 920                     | 830       |
| 240                     | 160                     | 580                      | 280                      | 840                     | 710       |
| 240                     | 240                     | 580                      | 270                      | 920                     | 790       |
| 240                     | 320                     | 580                      | 260                      | 1000                    | 870       |
| 240                     | 400                     | 580                      | 250                      | 1080                    | 950       |
| 240                     | 480                     | 580                      | 230                      | 1160                    | 1030      |
| 320                     | 160                     | 660                      | 280                      | 920                     | 750       |
| 320                     | 240                     | 660                      | 280                      | 1000                    | 830       |
| 320                     | 320                     | 660                      | 270                      | 1080                    | 910       |
| 320                     | 400                     | 660                      | 260                      | 1160                    | 990       |
| 320                     | 480                     | 660                      | 240                      | 1240                    | 1070      |
| 400                     | 240                     | 740                      | 280                      | 1080                    | 870       |
| 400                     | 320                     | 740                      | 270                      | 1160                    | 950       |
| 400                     | 400                     | 740                      | 260                      | 1240                    | 1030      |
| 400                     | 480                     | 740                      | 250                      | 1320                    | 1110      |
| 400                     | 640                     | 780                      | 250                      | 1310                    | 1040      |
| 480                     | 320                     | 820                      | 270                      | 1240                    | 990       |
| 480                     | 400                     | 820                      | 260                      | 1320                    | 1070      |
| 480                     | 480                     | 820                      | 250                      | 1400                    | 1150      |
| 480                     | 640                     | 860                      | 260                      | 1370                    | 1060      |
| 640                     | 400                     | 980                      | 270                      | 1480                    | 1150      |
| 640                     | 480                     | 980                      | 260                      | 1560                    | 1230      |
| 640                     | 640                     | 1020                     | 270                      | 1510                    | 1120      |

Standard size of pallet suitable for this unit.

<sup>2)</sup> R1, R2, a are dimensions for reference

## Features/Benefits

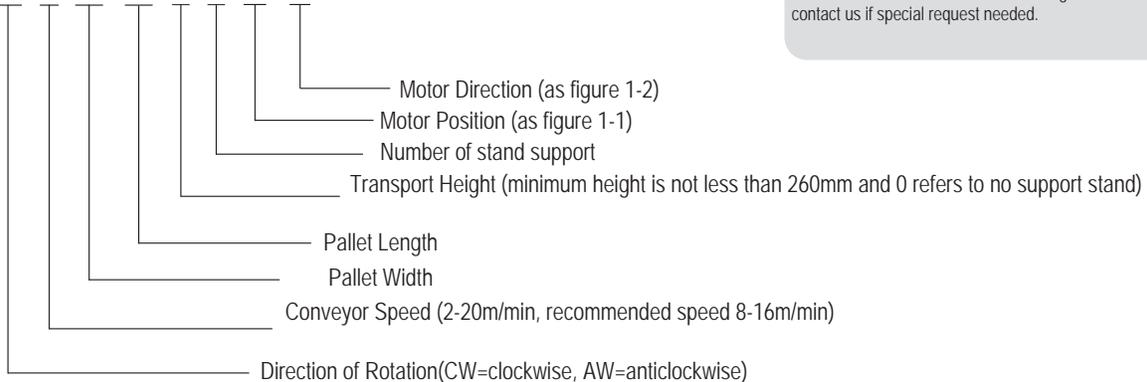
1. Modular design, part production in mold, easy to assemble and maintenance. The conveying medium is flat chain. The conveyor is suitable for 90° curve conveying of pallet.
2. Accumulation transfer is allowable. The max. load capacity is 90kg. Be used with rotate unit, lift and transverse unit and lift unit etc.
3. T slot aluminum profile frame for easy accessory attachment (sensor, bracket etc).

## Industries Served

Factory Automation, Home Appliances, Electronics, Automobile Parts etc.

## Ordering Reference

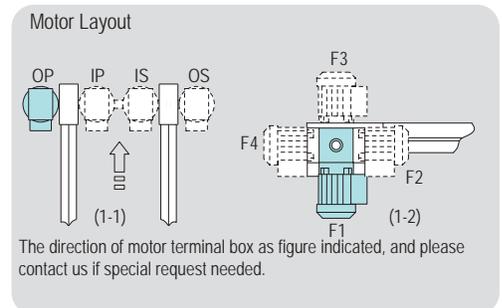
PTS2/F---90---CW---V---B<sub>WT</sub>---L<sub>WT</sub>---H---N---OP---F1



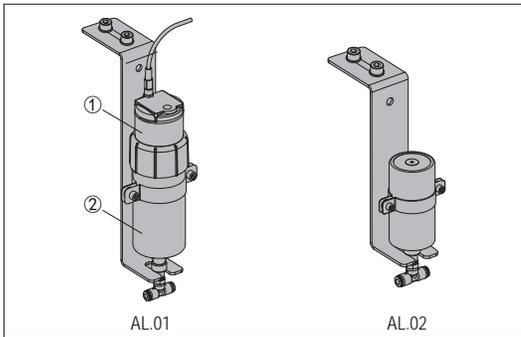
Example:

PTS2/F---90---AW---V16---B<sub>WT</sub>320---L<sub>WT</sub>320---H800---N3---OP---F1

PTS2/F pallet conveyor-90° curve-anticlockwise rotation-conveyor speed 16m/min-pallet width 320mm-pallet length 320mm-transport height 800mm-3sets of stand supports-motor position OP-Motor direction F1



AL Automatic Lubrication System



Features/Benefits

1. Modular design, free maintenance. Continuous lubrication to the chain when operation and increase of service life.
2. AL.01 is to control the dose via PLC and is recommended to be used. It is composed of ①automatic lubrication drive unit(equipped with installation bracket) and ②oil can(available to be ordered for replacement).
3. AL.02 is to control the dose via mechanical button. It is composed of automatic lubrication oil can(equipped with installation bracket and available to be ordered for replacement). The lubrication unit need manually turn off if the conveyor stops working for long time.
4. Lubrication connection unit, including lubrication connector, hose or related accessories, is to be ordered separately.

Supply mode

1. Scope of delivery

Including all fastening sets to mount on pallet conveyor(2xHT).

| HT  | Fastening Set                   |
|---|---------------------------------|
|  | M8x16 Bolt<br>zinc plated       |
|  | D8 Spring Washer<br>zinc plated |
|  | M8 T Nut<br>nickel plated       |

2. Supply mode  
Equipped

Specifications

AL.01 Automatic Lubrication System

|  |          |
|--|----------|
| Part No. for Automatic Lubrication Drive Unit(with installation bracket) | 51001010 |
| Part No. for Oil Can(Volume 0.25L)                                       | 51001011 |
| Working temperature  | 0..40    |

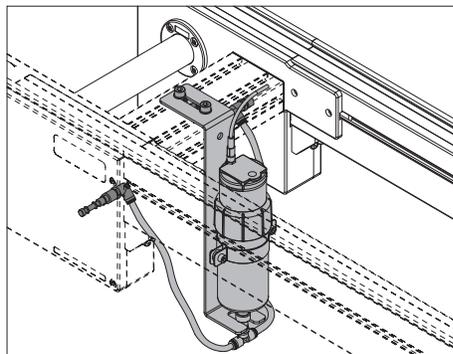
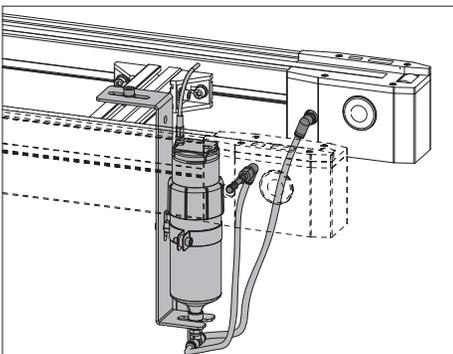
AL.02 Automatic Lubrication System

|  |          |
|--|----------|
| Part No. for Automatic Lubrication Oil Can (with installation bracket) | 51001020 |
| Part No. for Automatic Lubrication Oil Can (Volume 0.25L)              | 51001021 |
| Working temperature  | 0..40    |

Scope of delivery

|   |          |
|---|----------|
| Part No. for Lubrication Connection Unit on PTS2 Return End | 51001030 |
| Part No. for Lubrication Connection Unit on PTS2 Head End   | 51001031 |

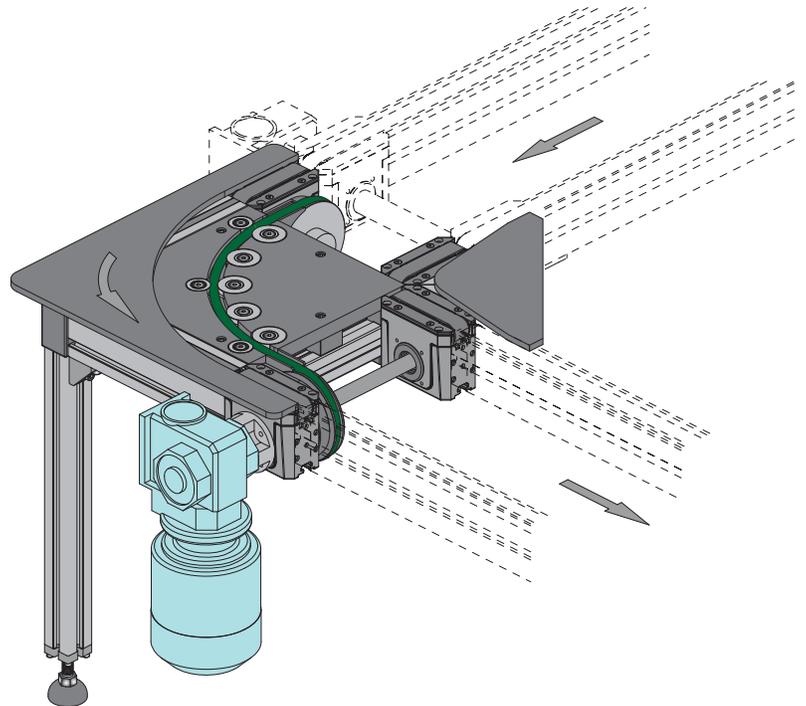
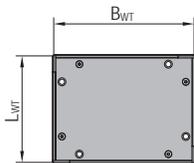
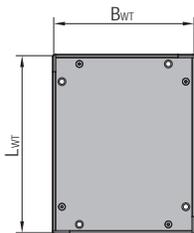
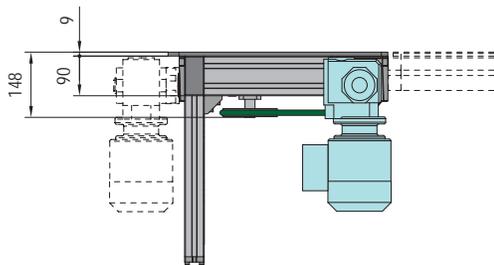
Installation position



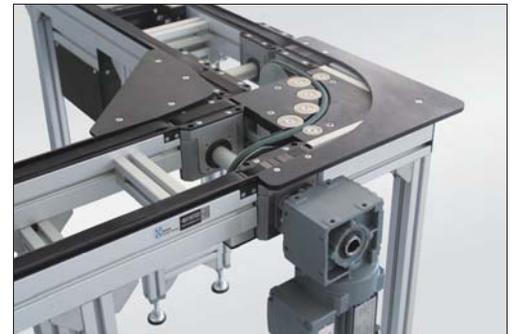
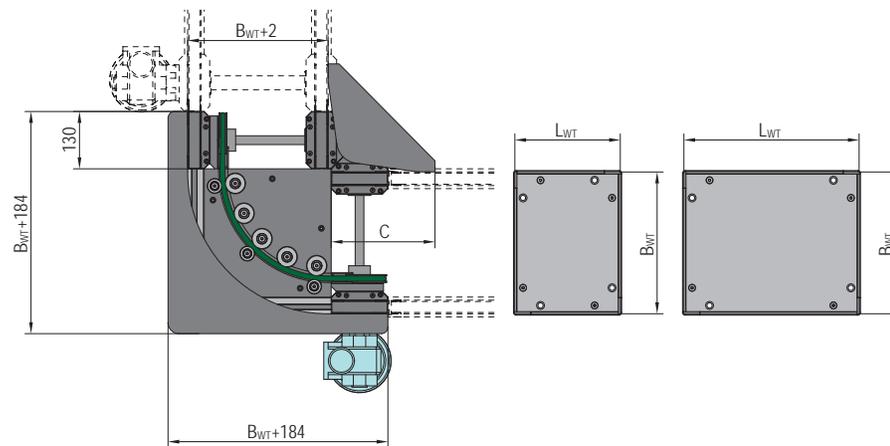
90° Round Belt Curve

90° Round Belt Curve (self-powered)

 Delivery **15** Workday  
 Please contact us for non-standard products



▲ Self-powered drive unit for flexible control.



| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | C(PTS1)<br>(mm) | C(PTS2)<br>(mm) |
|-------------------------|-------------------------|-----------------|-----------------|
| 160                     | 160                     | 130             | 130             |
|                         | 240                     | 260             | 300             |
| 240                     | 160                     | 130             | 130             |
|                         | 240                     | 260             | 300             |
|                         | 320                     | 260             | 300             |
| 320                     | 240                     | 260             | 300             |
|                         | 320                     | 260             | 300             |
|                         | 400                     | 300             | 300             |

-  Maximum load capacity per pallet ≤ 20kg.
-  90° curve conveying of the workpiece pallet one by one without accumulation operation.
-  Length-width ratio cannot exceed 1.5 time of the pallet itself ( $L_{WT}/B_{WT} \leq 1.5$ ).
-  To work with WP2/S, WP2/E or WP2/C.

 Standard size of pallet suitable for 90° curve.

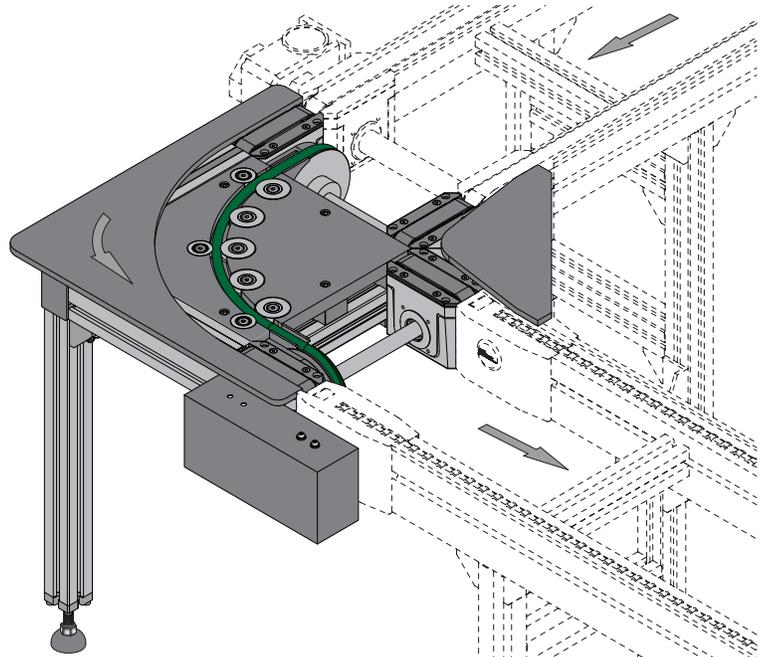
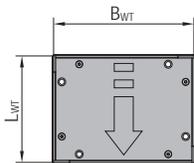
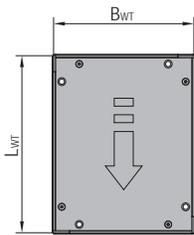
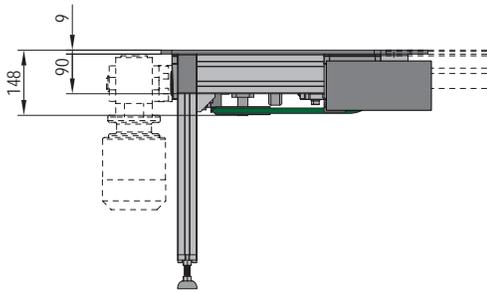


90° Round Belt Curve

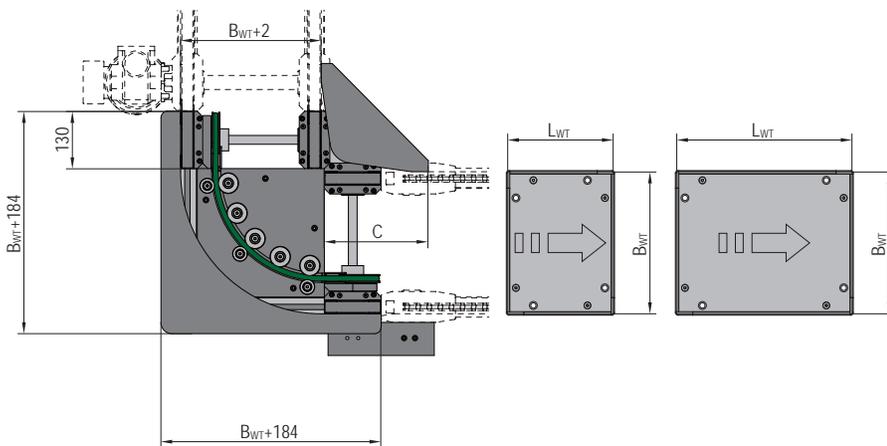
90° Round Belt Curve (slave driven)

 Delivery **15** Workday

 Please contact us for non-standard products



▲ Slave driven for economical option.



| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | C(PTS1)<br>(mm) | C(PTS2)<br>(mm) |
|-------------------------|-------------------------|-----------------|-----------------|
| 160                     | 160                     | 130             | 130             |
|                         | 240                     | 260             | 300             |
| 240                     | 160                     | 130             | 130             |
|                         | 240                     | 260             | 300             |
|                         | 320                     | 260             | 300             |
| 320                     | 240                     | 260             | 300             |
|                         | 320                     | 260             | 300             |
|                         | 400                     | 300             | 300             |

-  Maximum load capacity per pallet ≤ 10kg.
-  90° curve conveying of the workpiece pallet one by one without accumulation operation.
-  Length-width ratio cannot exceed 1.5 times of the pallet itself ( $L_{WT}/B_{WT} \leq 1.5$ ).
-  To work with WP2/S, WP2/E or WP2/C.

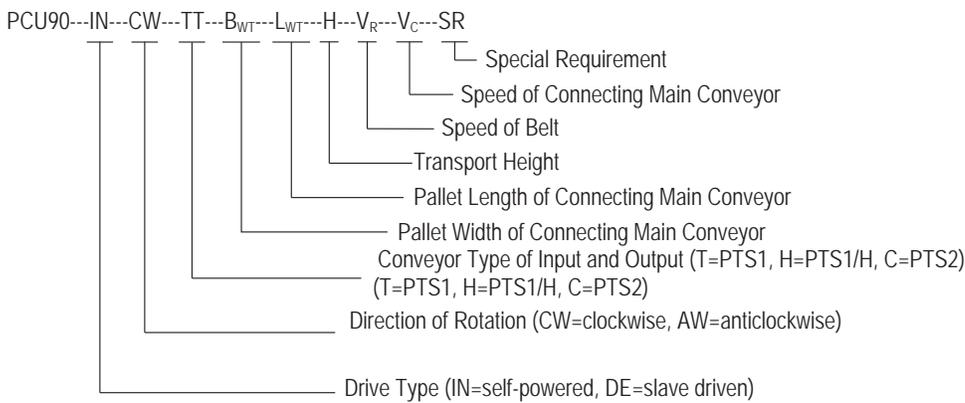
 Standard size of pallet suitable for 90° curve.



Features/Benefits

1. Modular design, easy to assemble and maintenance.
2. 90° curve conveying of the pallet within the standard pallet width of 320mm and without changing the direction of pallet, and 30kg rotate unit is recommend for conveying of large size pallet.
3. T slot aluminum profile frame for easy accessory attachment(sensor, bracket etc).

Ordering Reference 订购



Example:

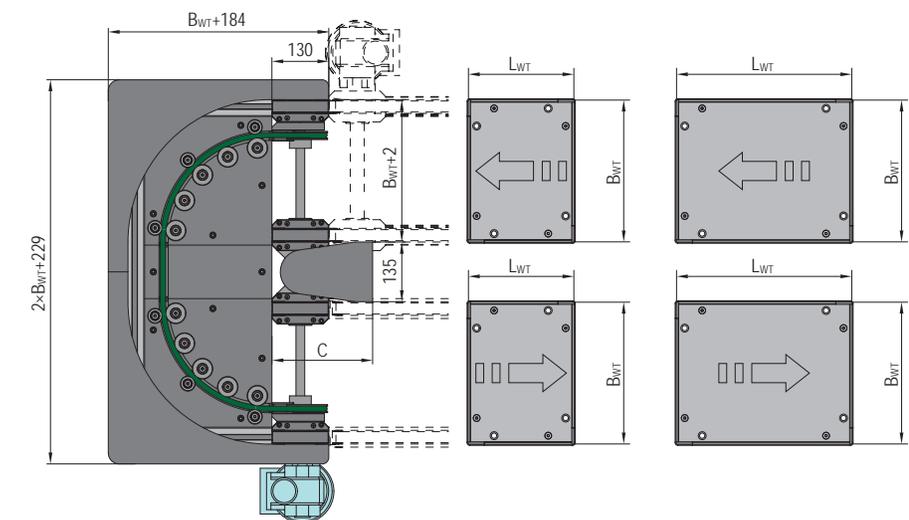
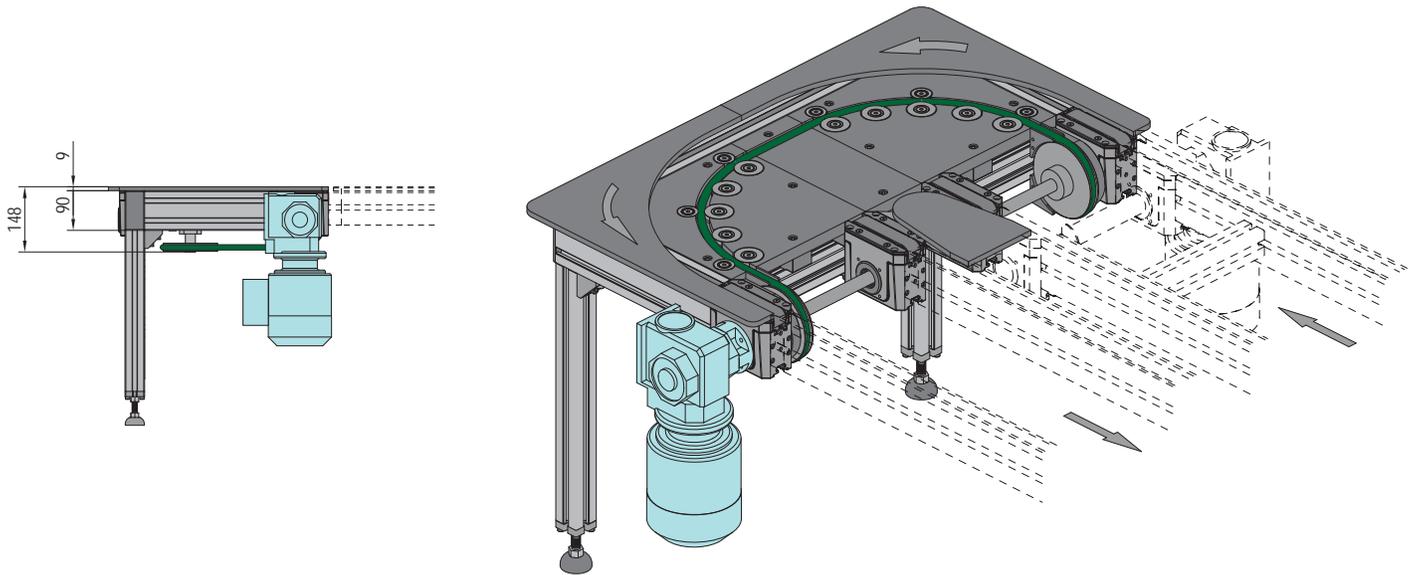
PCU90---IN---CW---TT---B<sub>WT</sub>240---L<sub>WT</sub>320---V<sub>R</sub>27---V<sub>C</sub>15

90° round belt curve---self-powered---clockwise rotation---PTS1 conveyor for both input and output---pallet width of connecting main conveyor 240mm---pallet length of connecting main conveyor 320mm---transport height 650mm---curve speed 27m/min---speed of connecting main conveyor 15m/min.

180° Round Belt Curve

 Delivery **15** Workday  
 Please contact us for non-standard products

180° Round Belt Curve (self-powered)



▲ Self-powered for flexible control.

| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | C(PTS1)<br>(mm) | C(PTS2)<br>(mm) |
|-------------------------|-------------------------|-----------------|-----------------|
| 160                     | 160                     | 130             | 130             |
|                         | 240                     | 260             | 300             |
| 240                     | 160                     | 130             | 130             |
|                         | 240                     | 260             | 300             |
|                         | 320                     | 260             | 300             |
| 320                     | 240                     | 260             | 300             |
|                         | 320                     | 260             | 300             |
|                         | 400                     | 300             | 300             |

-  Maximum load capacity per pallet ≤ 20kg.
-  180° curve conveying of the workpiece pallet one by one without accumulation operation.
-  Length-width ratio cannot exceed 1.5 time of the pallet itself ( $L_{WT}/B_{WT} \leq 1.5$ ).
-  To work with WP2/S, WP2/E or WP2/C.

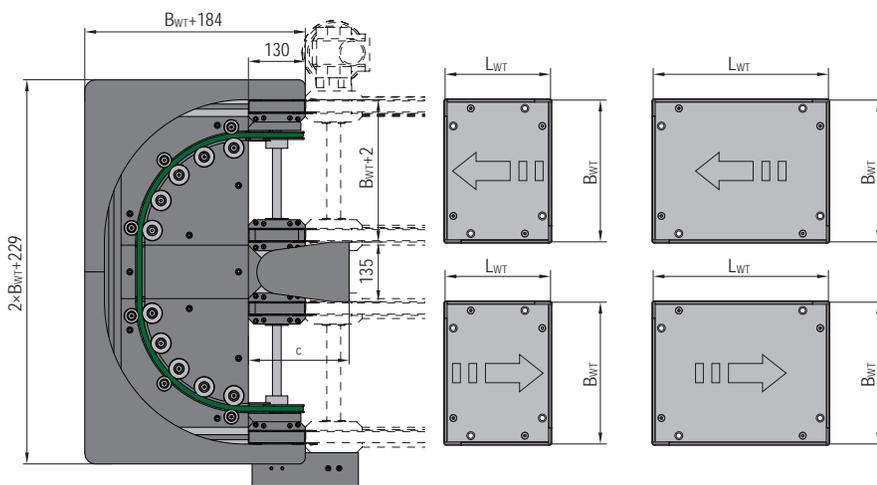
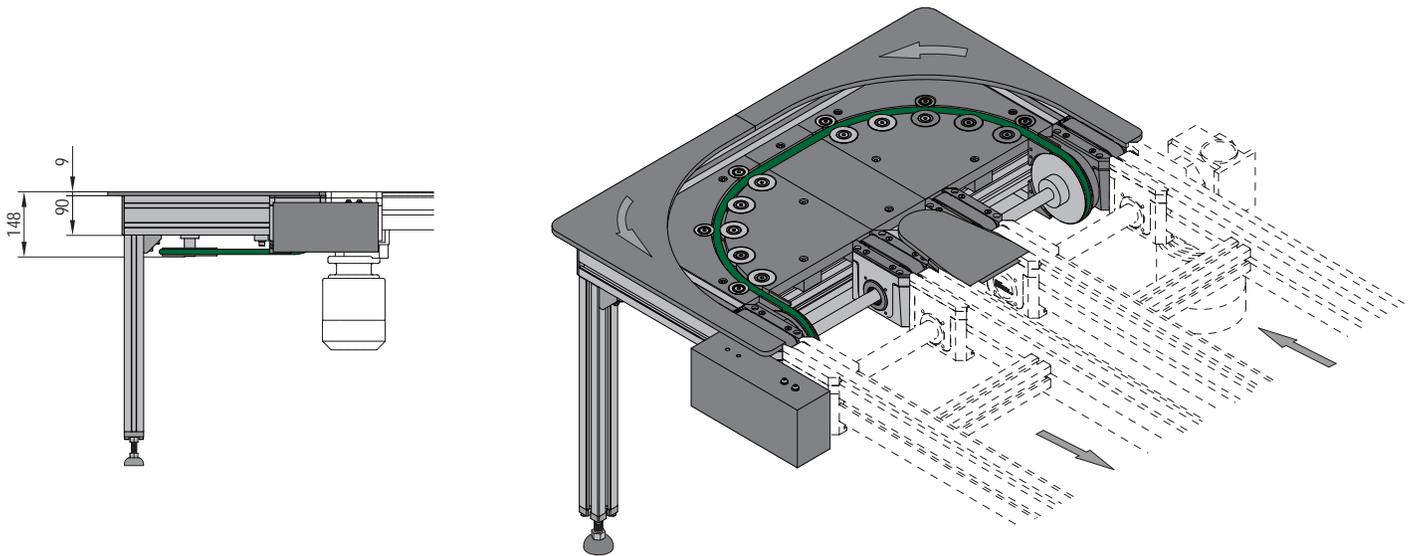
 Standard size of pallet suitable for 180° curve.



180° Round Belt Curve

180° Round Belt Curve (slave driven)

 Delivery **15** Workday  
 Please contact us for non-standard products



 Slave driven for economical option.

-  Maximum Load capacity per pallet ≤ 10kg.
-  180° curve conveying of the workpiece pallet one by one without accumulation operation.
-  Length-width ratio cannot exceed 1.5 time of the pallet itself ( $L_{WT}/B_{WT} \leq 1.5$ ).
-  To work with WP2/S, WP2/E or WP2/C.

| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | C(PTS1)<br>(mm) | C(PTS2)<br>(mm) |
|-------------------------|-------------------------|-----------------|-----------------|
| 160                     | 160                     | 130             | 130             |
|                         | 240                     | 260             | 300             |
| 240                     | 160                     | 130             | 130             |
|                         | 240                     | 260             | 300             |
|                         | 320                     | 260             | 300             |

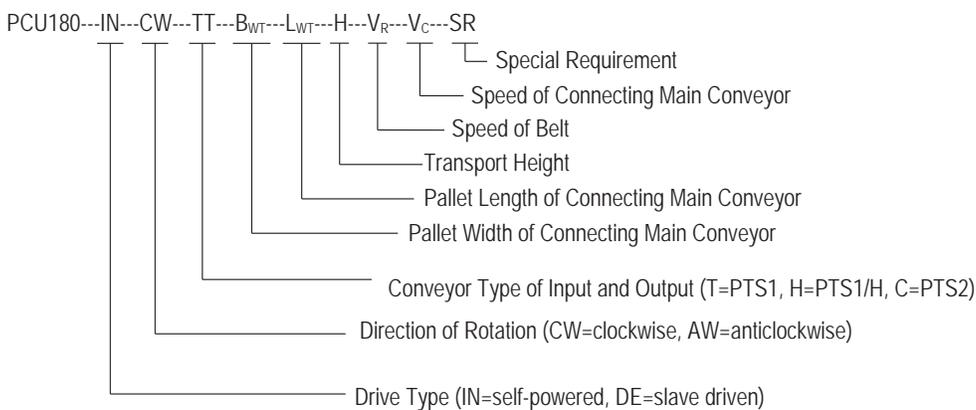
 Standard size of pallet suitable for 180° curve.



Features/Benefits 特征

1. Modular design, independent part, simple structure, easy for assemble and maintenance.
2. 180° curve conveying of the pallet within the standard pallet width of 320mm and without changing the direction of pallet, and please contact us if large size of pallet needed.
3. T slot aluminum profile frame for easy accessory attachment(sensor, bracket etc).

Ordering Reference 订购



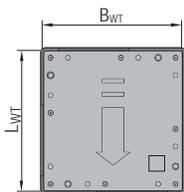
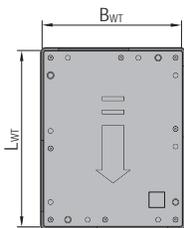
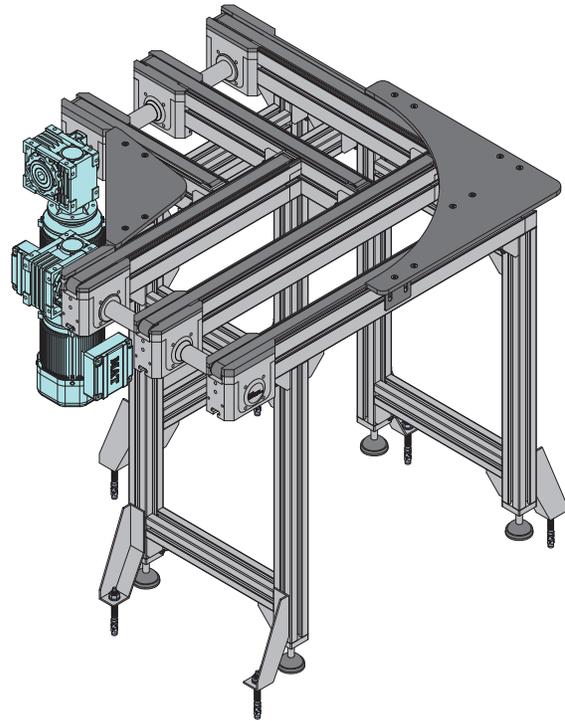
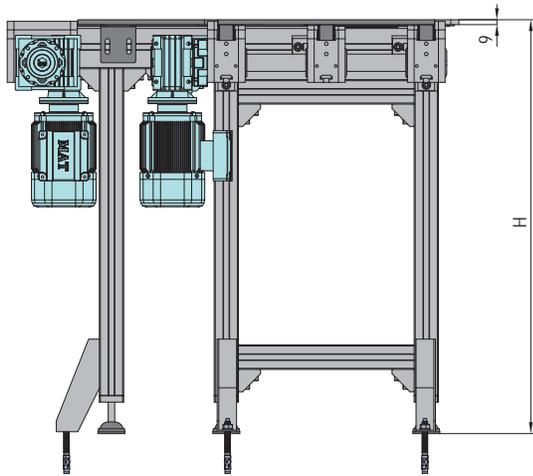
Example

PCU180---IN---CW---TT---B<sub>WT</sub>240---L<sub>WT</sub>320---V<sub>R</sub>27---V<sub>C</sub>15

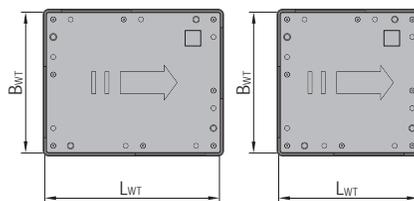
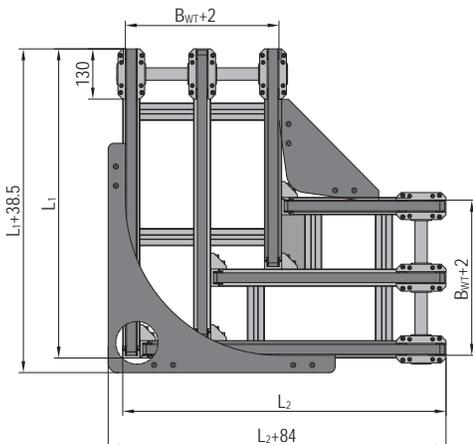
180° round belt curve---self-powered---clockwise rotation---PTS1 conveyor for both input and output---pallet width of connecting main conveyor 240mm---pallet length of connecting main conveyor 320mm---transport height 650mm---curve speed 27m/min---speed of connecting main conveyor 15m/min.

90° Forced Belt Curve

 Delivery **15** Workday  
 Please contact us for non-standard products

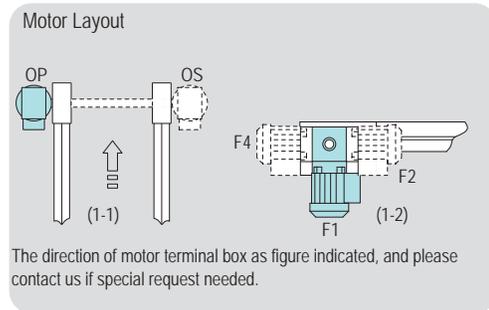


-  Maximum load capacity per pallet  $\leq 30\text{kg}$ .
-  90° curve conveying of the workpiece pallet one by one without accumulation operation.
-  Length-width ratio cannot exceed 1.5 time of the pallet itself ( $L_{WT}/B_{WT} \leq 1.5$ ).
-  Conveying medium is antistatic toothed belt.



Specifications

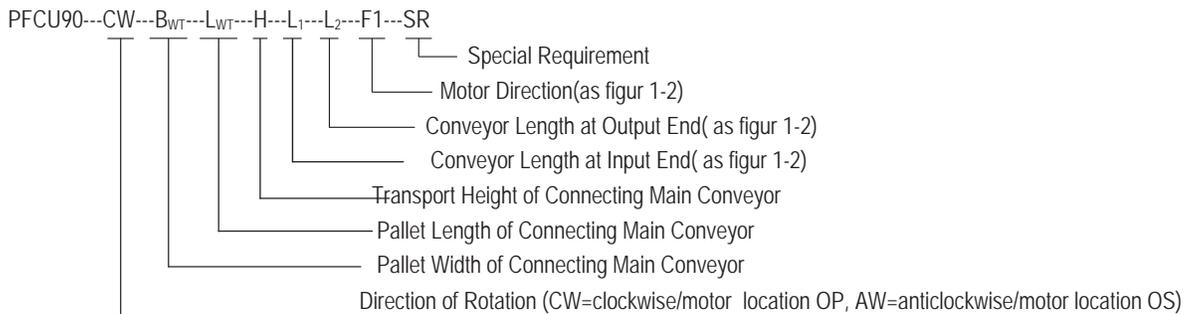
| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | C<br>(mm) |
|-------------------------|-------------------------|-----------|
| 240                     | 240                     | 267       |
|                         | 320                     | 267       |
| 320                     | 320                     | 267       |
|                         | 400                     | 307       |
| 400                     | 320                     | 307       |
|                         | 400                     | 307       |



Features/Benefits

1. Modular design, independent part, simple structure, easy for assemble and maintenance.
2. The transition speed of the curve is about 90% of the main conveyor section(According to actual load).
3. Palle 90° rotation without direction change
4. Only suitable for PTS1 conveyor
5. To work with WP2/S, WP2/E or WP2/C.

Ordering Reference



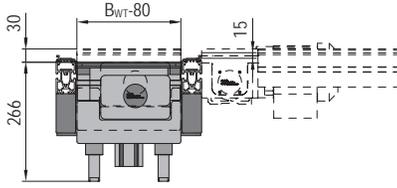
Example:

PFCU90---CW---B<sub>WT</sub>240---L<sub>WT</sub>320---H500---L<sub>1</sub>800---L<sub>2</sub>800---F1

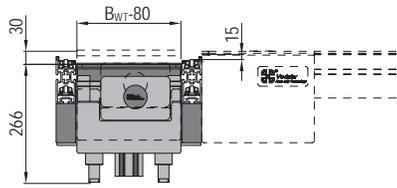
90° forced belt curve---clockwise rotation---pallet width of connecting main conveyor 240mm---pallet length of connecting main conveyor 320mm---transport height of connecting main conveyor 500mm---conveyor length at Input end 800mm---conveyor length at output end 800mm---motor direction F1

30kg Lift and Transverse Unit

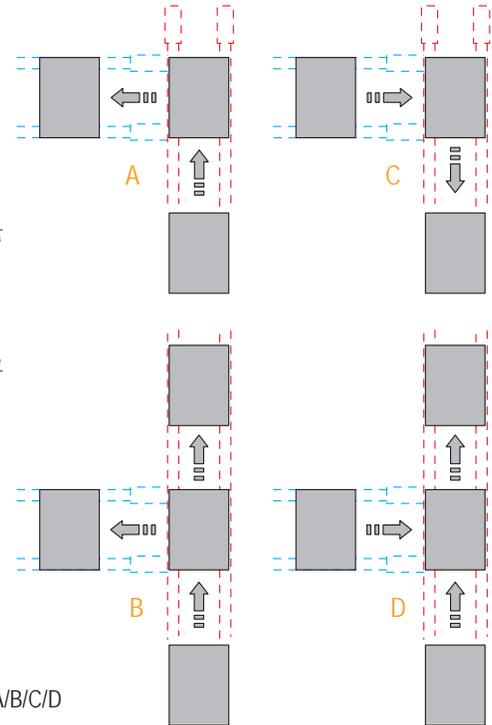
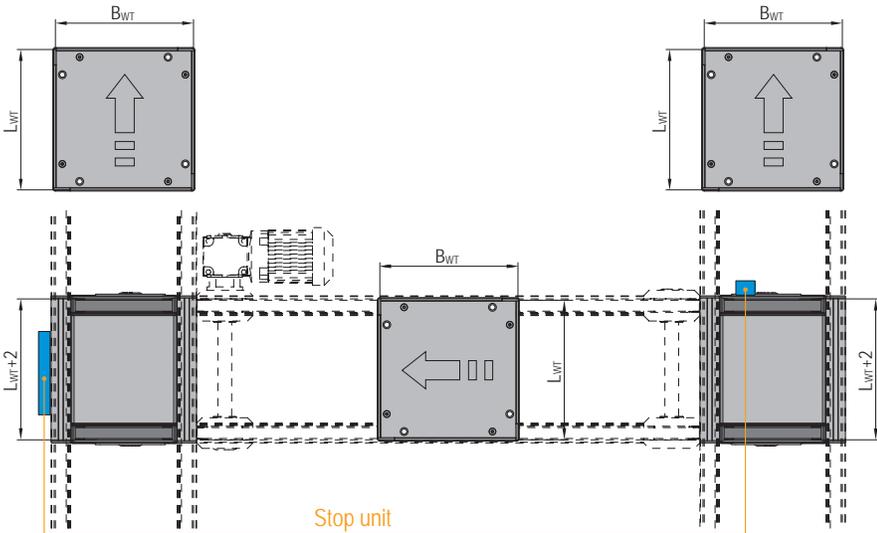
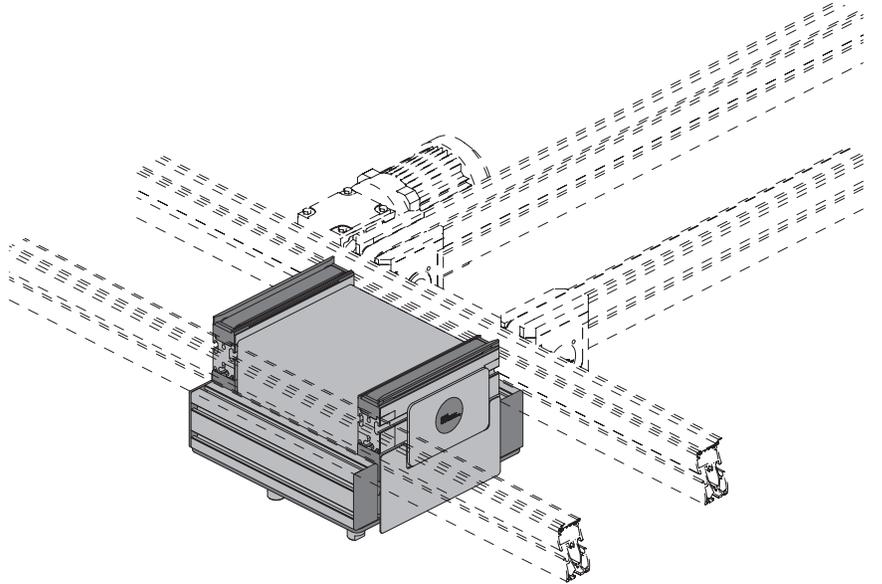
 Delivery **15** Workday  
 Please contact us for non-standard products



▲ Main Conveyor PTS1 or PTS1/H



▲ Main Conveyor PTS2



-  30kg Lift Transverse Unit excludes stop unit.
-  Maximum load capacity per pallet ≤ 30kg.
-  Please cross check in the following table the pallet size suitable for lift and transverse unit type A/B/C/D when the branch line is PTS1 or PTS2.

| Transfer method | PTS1              | PTS1/H            | PTS2              |
|-----------------|-------------------|-------------------|-------------------|
| A               | $B_{WT} \geq 160$ | $B_{WT} \geq 300$ | $B_{WT} \geq 300$ |
| B               | $B_{WT} \geq 160$ | $B_{WT} \geq 300$ | $B_{WT} \geq 300$ |
| C               | $B_{WT} \geq 160$ | $B_{WT} \geq 240$ | $B_{WT} \geq 240$ |
| D               | $B_{WT} \geq 160$ | $B_{WT} \geq 240$ | $B_{WT} \geq 240$ |

--- Main line  
 - - - Branch



Lift and Transverse Unit-Small pallet



| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) |
|-------------------------|-------------------------|
| 160                     | 160                     |
|                         | 240                     |
|                         | 320                     |
| 240                     | 240                     |
|                         | 320                     |
|                         | 400                     |
|                         | 480                     |

Lift and Transverse Unit-Big pallet



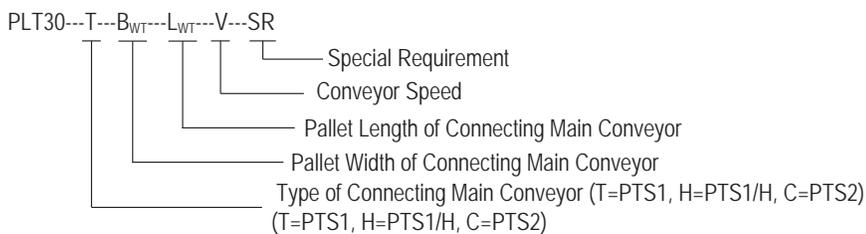
| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) |
|-------------------------|-------------------------|
| 320                     | 320                     |
|                         | 400                     |
|                         | 480                     |
| 400                     | 320                     |
|                         | 400                     |
|                         | 480                     |
| 480                     | 320                     |
|                         | 400                     |
|                         | 480                     |

⚠ Please contact us for non-standard size of pallet.

Features/Benefits 特征

1. Modular design, easy to assemble and maintenance.
2. Lift and transverse unit move the workpiece pallets from a transverse conveyor section onto a longitudinal conveyor section with changing direction of pallet.
3. T slot aluminum profile frame for easy accessory attachment(sensor, bracket etc) .
4. Conveying medium is antistatic toothed belt.

Ordering Reference



Example:

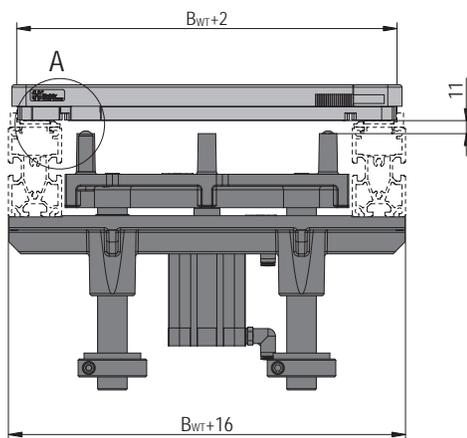
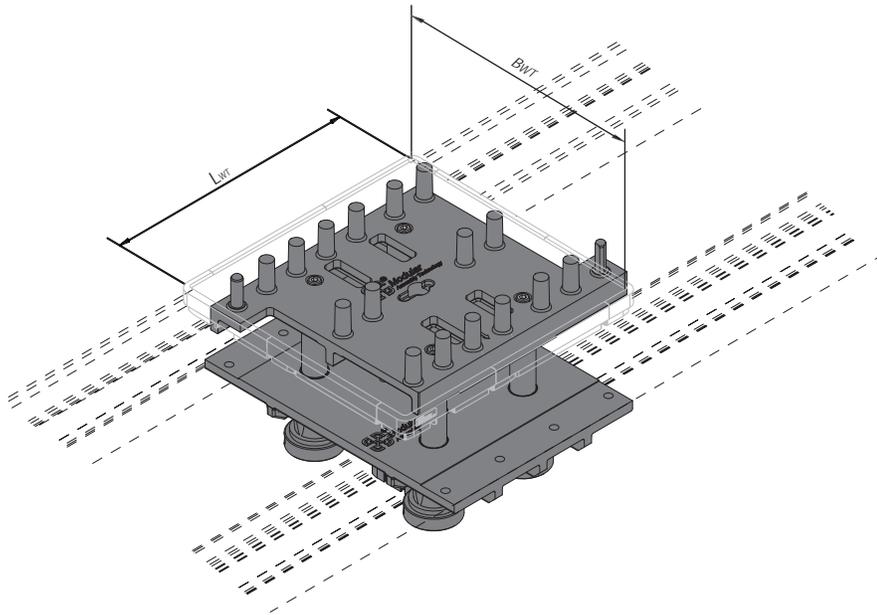
PLT30---T---B<sub>WT</sub>320---L<sub>WT</sub>320---V10

30kg lift and transverse unit--main conveyor of PTS1---pallet width of connecting main conveyor 320mm--pallet length of connecting main conveyor 320mm---conveyor speed 10m/min.

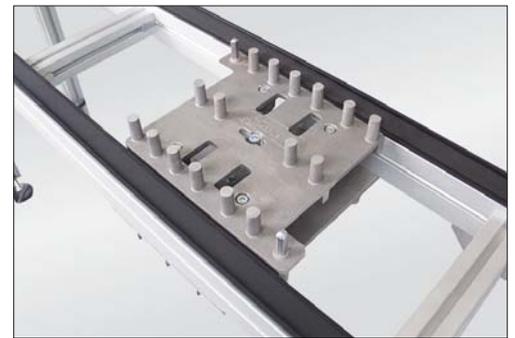
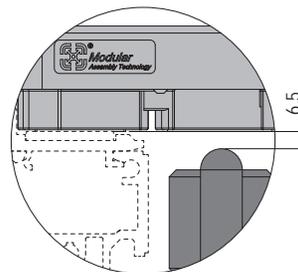
30kg Lift and Positioning Unit

 Delivery **15** Workday

 Please contact us for non-standard products

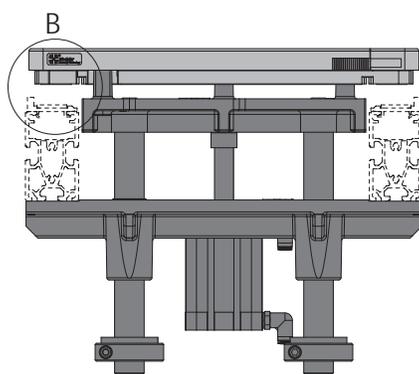


A Enlargement

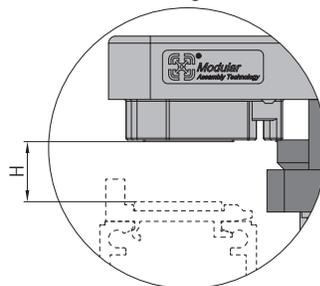


▲ Suitable for standard WP2/S, WP2/E or WP2/C pallet

| B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) | B <sub>WT</sub><br>(mm) | L <sub>WT</sub><br>(mm) |
|-------------------------|-------------------------|-------------------------|-------------------------|
| 160                     | 160                     | 320                     | 400                     |
|                         | 240                     |                         | 480                     |
|                         | 320                     | 400                     | 240                     |
| 240                     | 160                     |                         | 320                     |
|                         | 240                     |                         | 400                     |
|                         | 320                     |                         | 480                     |
|                         | 400                     | 480                     | 240                     |
| 320                     | 160                     |                         | 320                     |
|                         | 240                     |                         | 400                     |
|                         | 320                     |                         | 480                     |



B Enlargement



-  Rate route H<sub>WP2/S</sub>=17mm; H<sub>WP2/C</sub>=10mm
-  30kg Lift and positioning unit excludes stop unit.
-  Maximum load capacity per pallet ≤ 30kg.

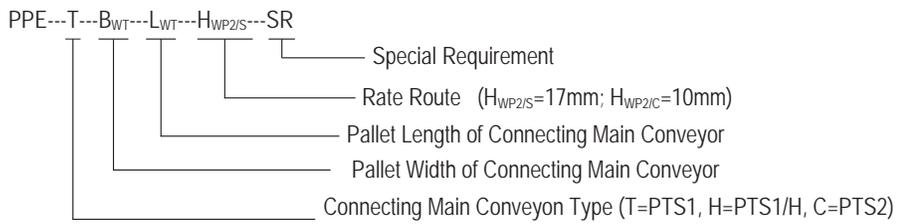
 To be used only with Modular pallet. For the pallet from other suppliers or made by customers, we need to verify for the compatibility in advance, or we don't guarantee on the main conveyor line or related units.



Features/Benefits 特征

1. Modular design, easy to assemble and maintenance.
2. Positioning accuracy  $\pm 0.1\text{mm}$ , to locate the pallet on the work place.
3. To locate the positioning sleeve with positioning bushing.
4. To work with WP2/S, WP2/E and WP2/C pallet

Ordering Reference 订购

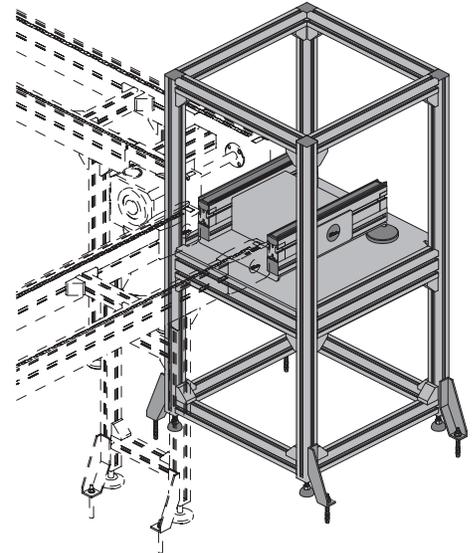
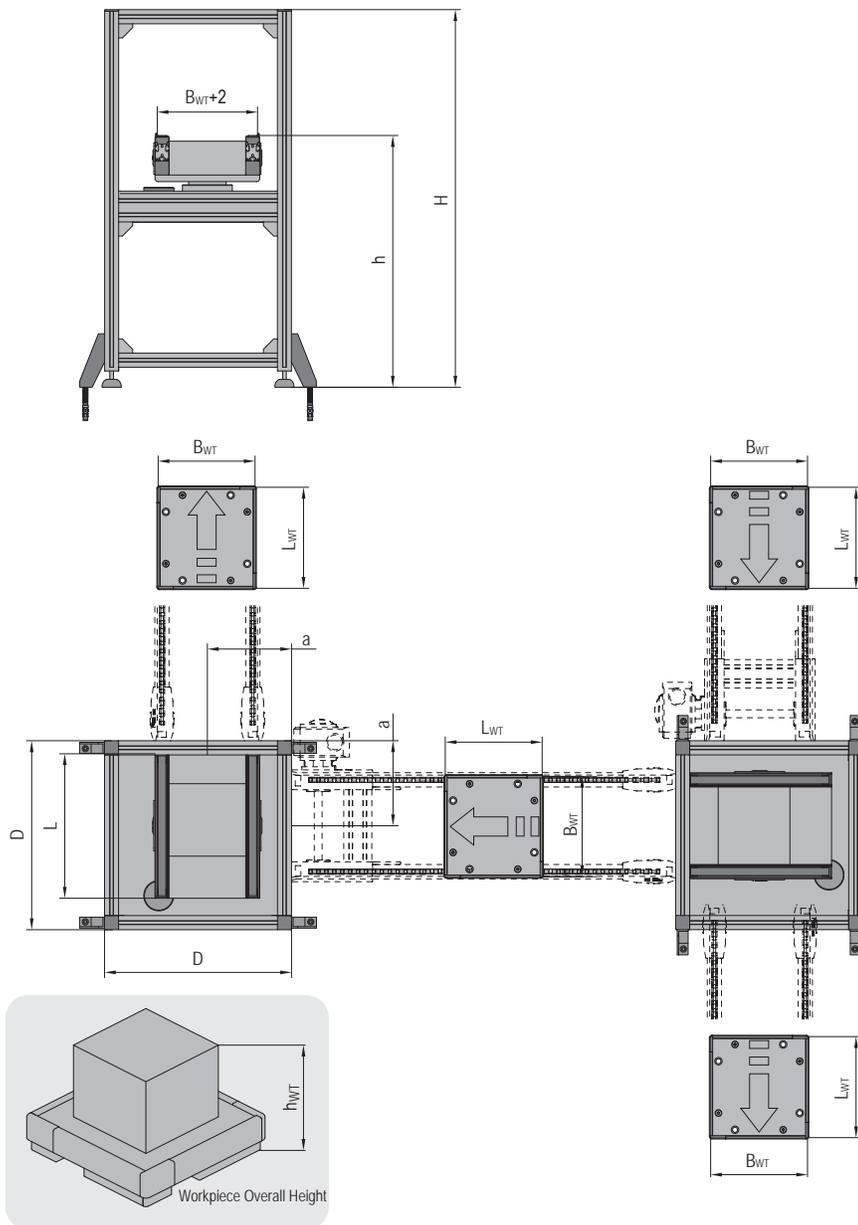


Example:

PPE---T---B<sub>WT</sub>240---L<sub>WT</sub>320---H<sub>WP2/S</sub>

30kg lift and positioning unit---PTS1---pallet width of connecting main conveyor 240mm---pallet length of connecting main conveyor 320mm---rate route  $H_{WP2/S}$

## 30kg Rotate Unit


 Delivery **15** Workday  
 Please contact us for non-standard products


| B <sub>WT</sub> (mm) | L <sub>WT</sub> (mm) | L (mm) | a (mm) | D (mm) |   |
|----------------------|----------------------|--------|--------|--------|---|
| 160                  | 240                  | 400    | 220    | 540    | ★ |
|                      | 320                  | 460    | 250    | 570    | ★ |
| 240                  | 240                  | 400    | 230    | 550    | ★ |
|                      | 320                  | 460    | 260    | 570    | ★ |
|                      | 400                  | 540    | 295    | 675    | ★ |
|                      | 480                  | 620    | 335    | 690    | ★ |
| 320                  | 240                  | 400    | 240    | 550    |   |
|                      | 320                  | 460    | 270    | 600    |   |
|                      | 400                  | 540    | 310    | 675    |   |
|                      | 480                  | 620    | 350    | 750    |   |
| 400                  | 240                  | 480    | 280    | 645    |   |
|                      | 320                  | 480    | 280    | 645    |   |
|                      | 400                  | 540    | 310    | 700    |   |
|                      | 480                  | 620    | 350    | 770    |   |
| 480                  | 240                  | 560    | 320    | 740    |   |
|                      | 320                  | 560    | 320    | 740    |   |
|                      | 400                  | 560    | 320    | 740    |   |
|                      | 480                  | 620    | 350    | 795    |   |

- ⚠ Maximum load capacity per pallet ≤ 30kg.
- ⚠ Pay attention when selecting:  $H \geq h + h_{WT} + 90\text{mm}$ .
- ⚠ When  $L_{WT} \leq 240\text{mm}$ , PTS1 will be chosen for interconnection.
- ⚠ The motor of return conveyor will be arranged under the return plate when the pallet with ★ is chosen and the height of return conveyor will be increased by 130mm.
- ⚠ The pneumatic non-return valve is included to keep stable operation. Rotation  $90^\circ \geq 2\text{s}$  when the pallet length/width  $\leq 320\text{mm}$ , rotation  $90^\circ \geq 3\text{s}$  when the pallet length/width  $> 320\text{mm}$  and  $< 480\text{mm}$ . Please contact for special requirement.

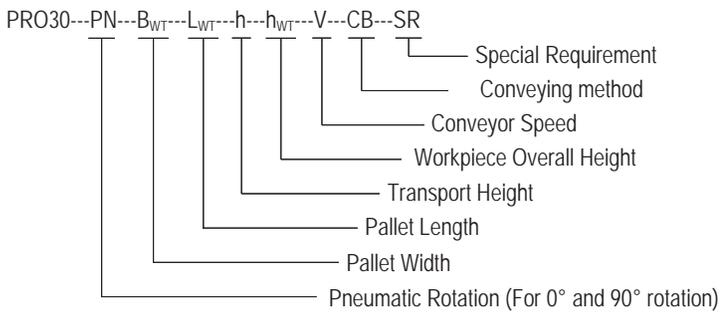
⚠ Standard size of pallet suitable for 30kg rotate unit.



Features/Benefits

1. Modular design, easy to assemble and maintenance.
2. Rotate unit with pneumatic cylinder conveying of the pallet 90° curve without changing the direction of pallet.
3. T slot aluminum profile frame for easy accessory attachment(sensor, bracket etc).
4. Conveying medium is antistatic toothed belt.

Ordering Reference

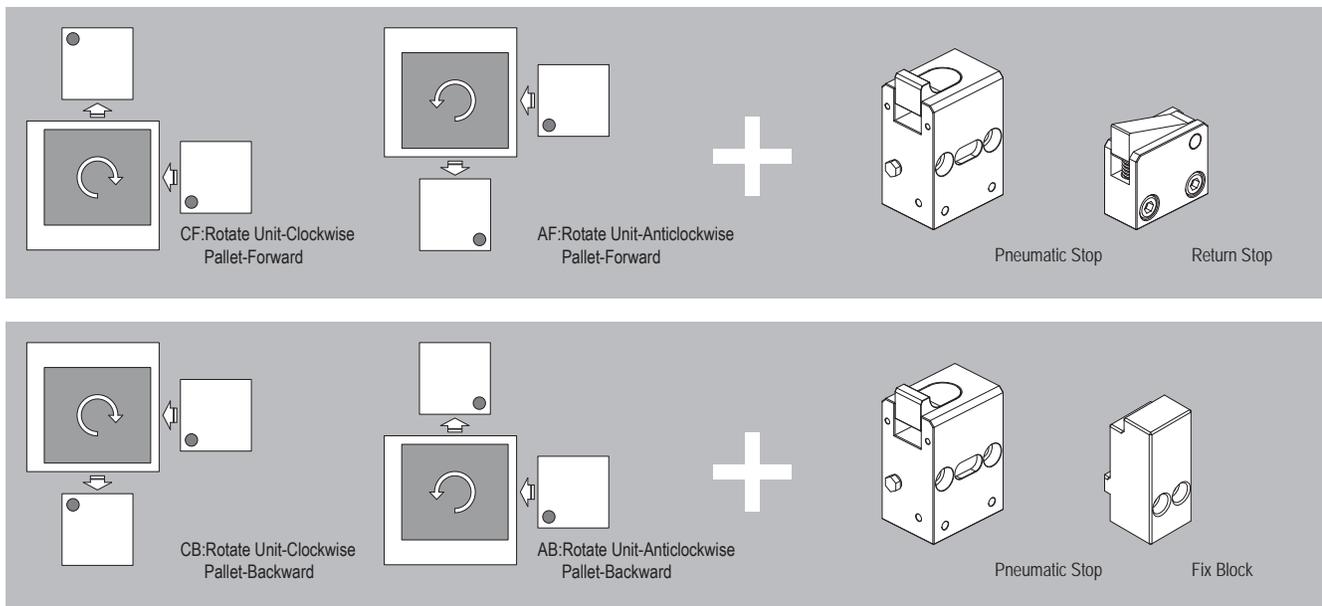


Example:

PRO30---PN---B<sub>WT</sub>320---L<sub>WT</sub>400---h650---h<sub>WT</sub>100---V10---CB

30kg rotate unit---pneumatic rotation---pallet width 320mm---pallet length 400mm---transport height 650mm---workpiece overall height 100mm  
---conveyor speed 10m/min---Rotate Unit: Clockwise Pallet: Backward.

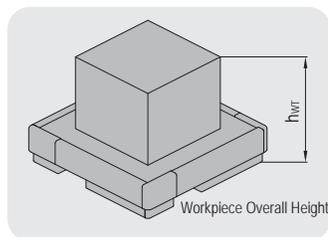
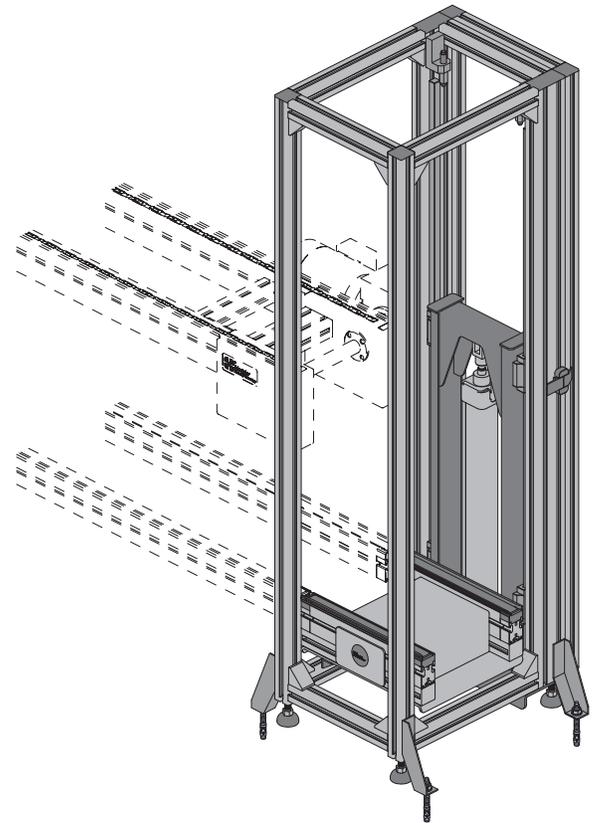
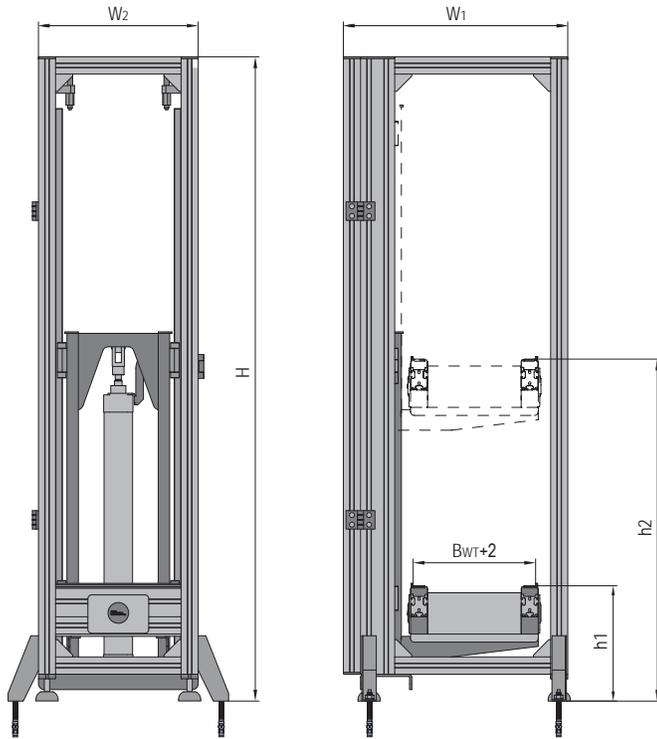
Conveying method



30kg Lift Unit

 Delivery **20** Workday

 Please contact us for non-standard products



| $B_{WT}$<br>(mm) | $W_1$<br>(mm) | $L_{WT}$<br>(mm) | $W_2$<br>(mm) |
|------------------|---------------|------------------|---------------|
| 160              | 530           | 160              | 420           |
| 240              | 530           | 240              | 420           |
| 320              | 590           | 320              | 420           |
| 400              | 670           | 400              | 500           |
| 480              | 750           | 480              | 580           |

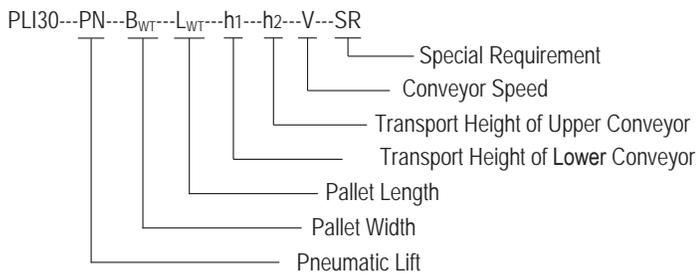
-  Maximum load capacity per pallet  $\leq 30\text{kg}$ .
-  Pay attention when selecting: When upper conveyor is PTS1,  $h_2-h_1 \geq h_{WT}+130$ ;  
When lower conveyor is PTS2,  $h_2-h_1 \geq h_{WT}+230$ .
-  The pneumatic non-returning valve is included to keep stable operation, lifting speed  $\leq 260\text{m/s}$ , and please contact us for special request.
-  Suitable for all standard size of Modular workpiece pallet.



Features/Benefits

1. Modular design, easy to assemble and maintenance.
2. Lift unit is used to transfer workpiece pallets vertically between upper and lower conveyor sections with changing the direction of pallets.
3. T slot aluminum profile frame for easy accessory attachment(sensor, bracket etc).
4. Conveying medium is antistatic toothed belt.
5. Suitable for all standard size of Modular workpiece pallet.

Ordering Reference 订购



Example:

PLI30---PN---B<sub>WT</sub>320---L<sub>WT</sub>320---h1350---h2750---V10

30kg lift unit---pneumatic lift---pallet width 320mm---pallet length 320mm---transport height of lower conveyor 350mm---transport height of upper conveyor 750mm  
---conveyor speed 10m/min.



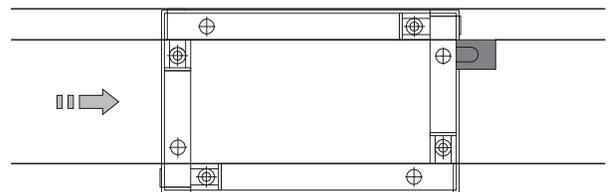
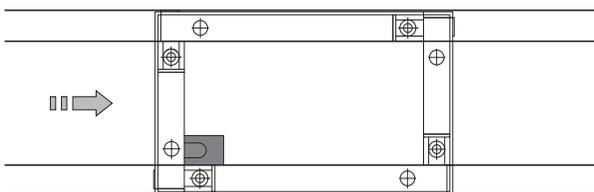
Selection of  
Conveying Control  
Device

## Conveying Control Device

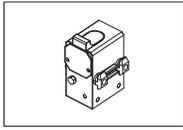
The control device is an essential part of pallet transfer system. It is used to stop, transfer and distribute the pallet to realize automatic flexible control of the pallet transfer system.

### Installation position of pallet stop

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.

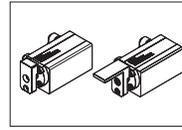


Transportation Control Selection



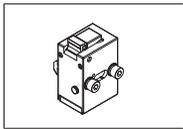
ST.PN.01/A-180 Pneumatic stop

PG - 80



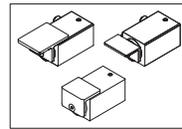
BU.PN.02/...-60 Pneumatic double action damper

PG - 114



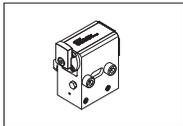
ST.PN.01/B-180 Pneumatic stop

PG - 84



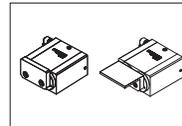
BU.PN.02/...-120 Pneumatic double action damper

PG - 119



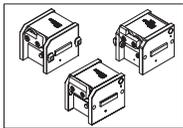
ST.PN.02/A-60 Pneumatic damper stop

PG - 88



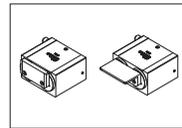
BU.PN.02/...-220 Pneumatic double action damper

PG - 124



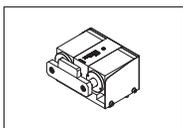
ST.PN.02/...-150 Pneumatic damper stop

PG - 92



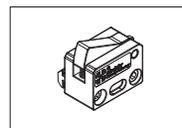
BU.PN.02/...-300 Pneumatic double action damper

PG - 129



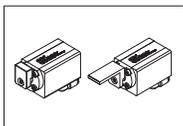
ST.PN.02/A-250 Pneumatic damper stop

PG - 98



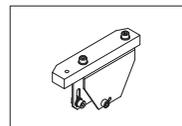
RS.01 Return stop

PG - 134



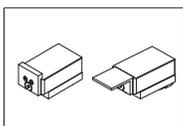
BU.PN.01/...-60 Pneumatic damper

PG - 104



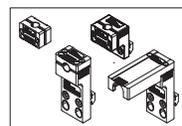
Damping Stopper

PG - 136



BU.PN.01/...-120 Pneumatic damper

PG - 109

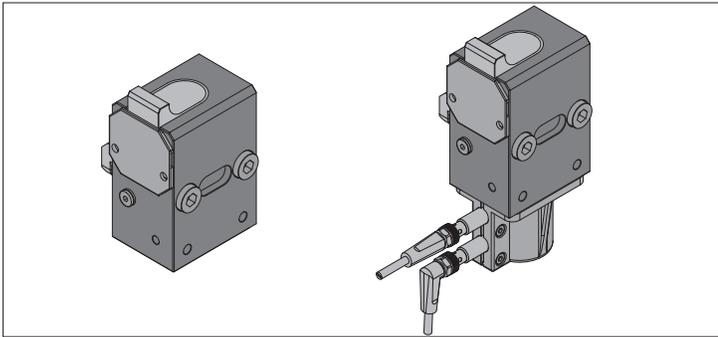


Sensor Bracket Unit

PG - 138

ST.PN.01/A-180 Pneumatic Stop

 Delivery **05** Workday  
 Please contact us if order quantities more than 50pcs



Features/Benefits

1. No inverse operation allowed and to be installed directly on the conveyor line.
2. Operation noise less than 60dB. The adjustment valve can be used if lower noise is expected.
3. Stop and release height is 9mm.
4. It can be used on PTS1, PTS2 or PTS1/H conveyor to control WP2/S, WP2/E or WP2/C pallet.
5. It stops or releases the pallet at the defined position and realize the accumulation or distribution of multi-pallets.
6. When the pressure is released, the stop is closed by a spring and the workpiece pallet is stopped.

Supply mode

1. Scope of delivery  
Including all positioning and fastening sets (2xHT+1xGM) to mount on pallet conveyor.

| GM  | Fastening Set           | HT  | Fastening Set                   |
|---|-------------------------|---|---------------------------------|
|  | Positioning part<br>PA6 |  | M8x45 Bolt<br>zinc plated       |
|   |                         |  | M8 Spring Washer<br>zinc plated |
|   |                         |  | M8 T Nut<br>nickel plated       |

2. Delivery condition  
Equipped

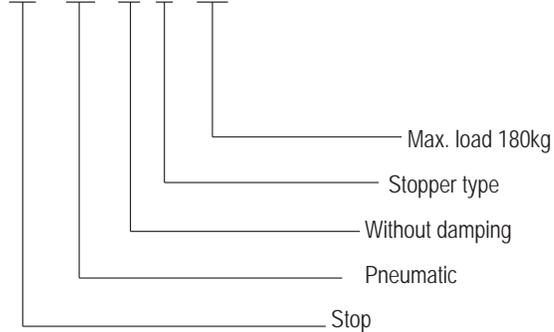


Specifications

|  |   |
|--|---|
| Part No.                                     | 50801100  |
| Pallet and workpiece max. mass<br>$m_c$ (kg) | 180   |
| Mass<br>$m$ (g)                              | 560   |
| ESD  | Yes   |
| Material                                     | Case: aluminum alloy(black)<br>Stop rod: nickel plated carbon steel |
| Working temperature<br>(°C)                  | 0...60  |
| Quick connector                              | Hose, outer diameter $\Phi 6$                                       |
| Pressure range<br>(Mpa)                      | 0.4-0.8 clean compressed air  |

Ordering reference

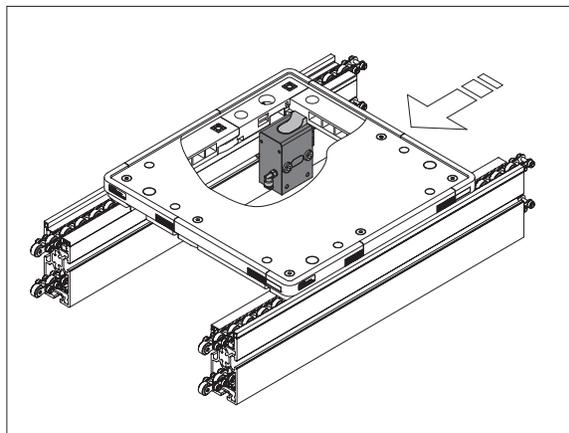
ST . PN . 01/ A - 180



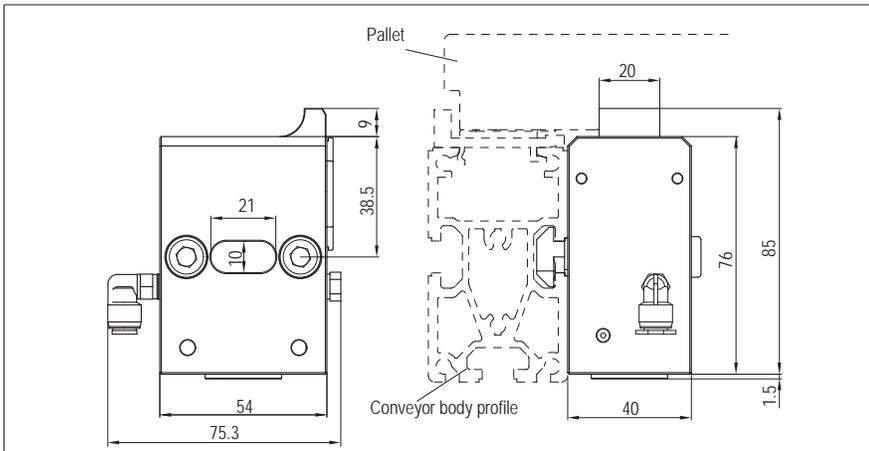
Installation position



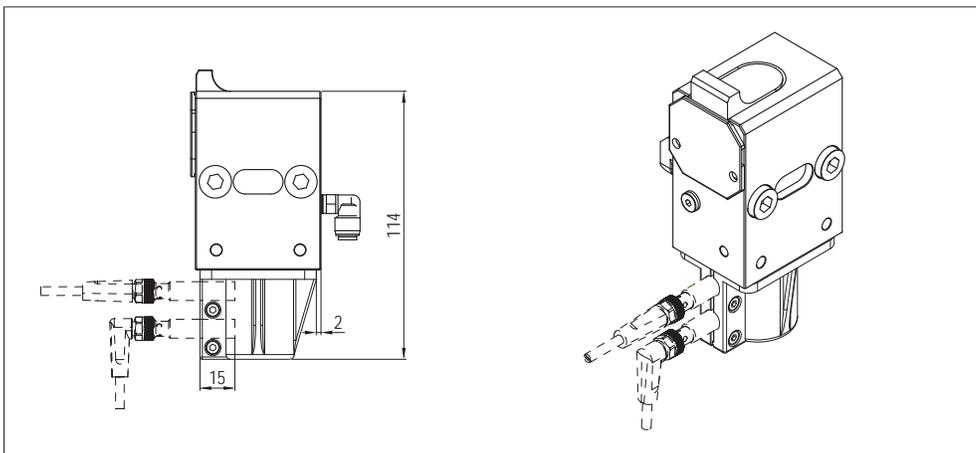
ST.PN.01/A-180 Pneumatic stop



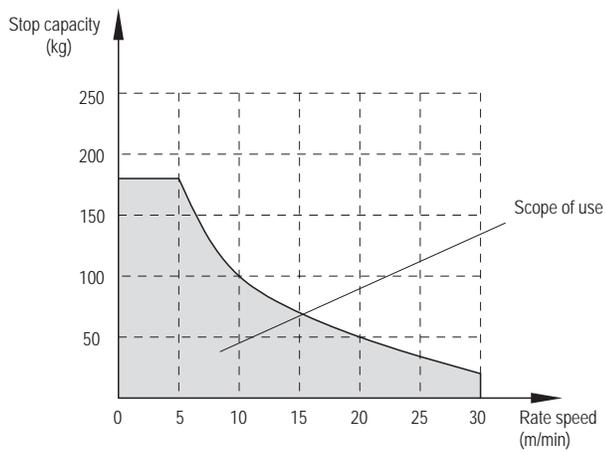
Dimension



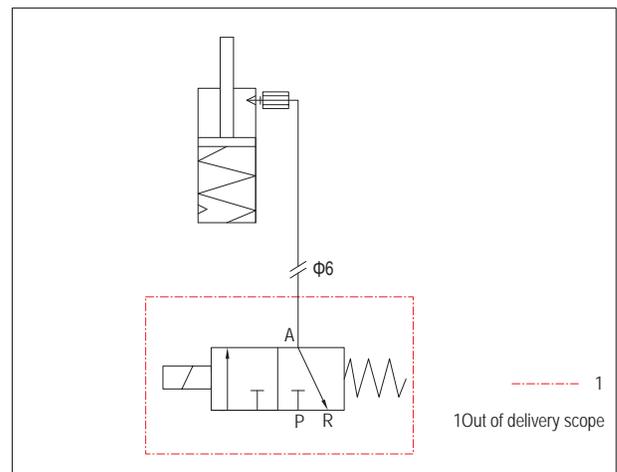
Sensor Installation Diagram



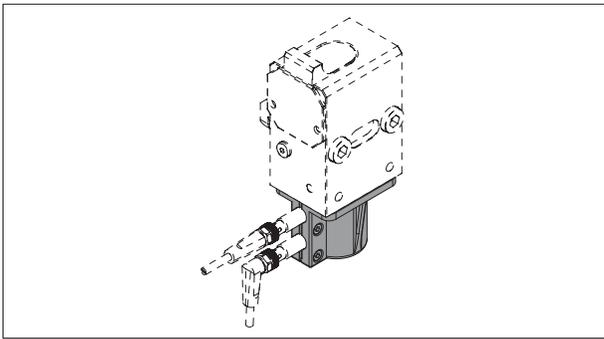
Stop Capacity Diagram



Schematic Diagram



Detection Unit for Stop

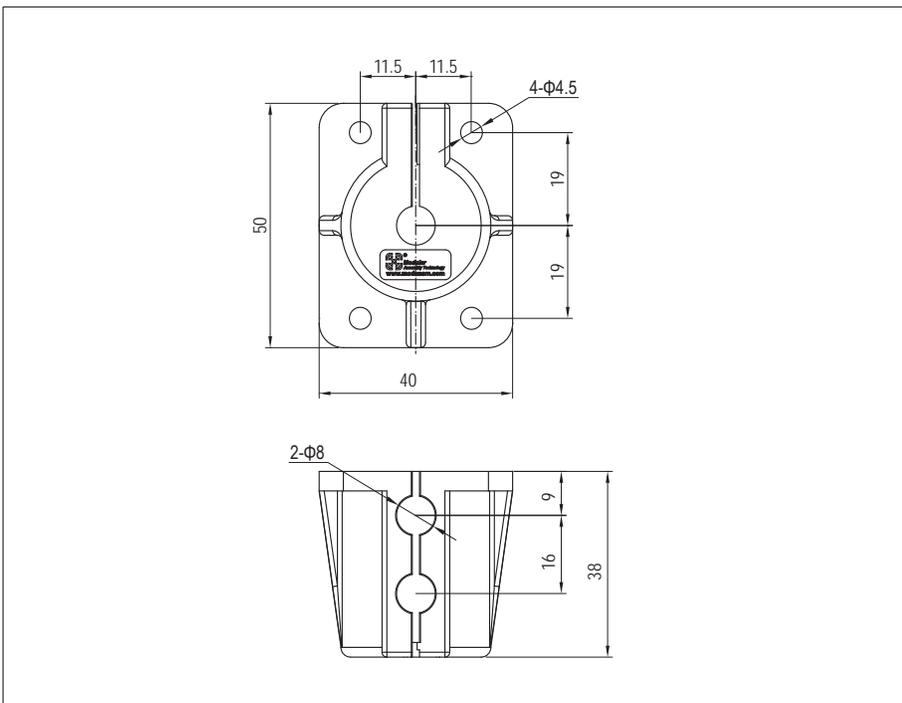


- ▶ Material: Bracket, PA6 Black; detection rod, zinc plated steel
- ▶ Used with 50801100 stop to detect whether the stop is under release condition.
- ▶ Matching accessory: M8x1 sensor (To be ordered separately).

⚠ Ordering reference

| Product description     | Delivery unit | Part No. |
|-------------------------|---------------|----------|
| Detection Unit for Stop | 1             | 50801200 |

Dimension



▶ Scope of delivery

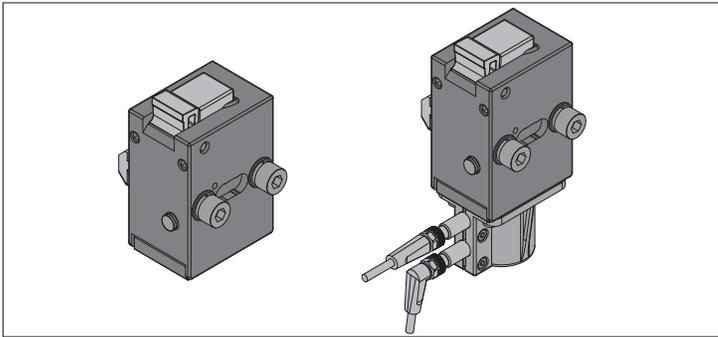
Including all fastening sets to mount on pallet conveyor

▶ Supply mode

Not equipped

ST.PN.01/B-180 Pneumatic Stop


 Delivery **05** Workday  
 Please contact us if order quantities more than 50pcs



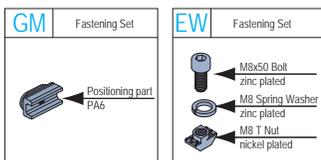
Features/Benefits

1. No inverse operation allowed and to be installed directly on the conveyor line.
2. Operation noise less than 60dB. The adjustment valve can be used if lower noise is expected.
3. Stop and release height is 8.8mm.
4. It can be used on PTS1, PTS2 or PTS1/H conveyor to control WP2/S, WP2/E or WP2/C pallet.
5. It stops or releases the pallet at the defined position and realize the accumulation or distribution of multi-pallets.
6. When the pressure is released, the stop is closed by a spring and the workpiece pallet is stopped.

Supply mode

1. Scope of delivery

Including all positioning and fastening sets (2xEW+1xGM) to mount on pallet conveyor.

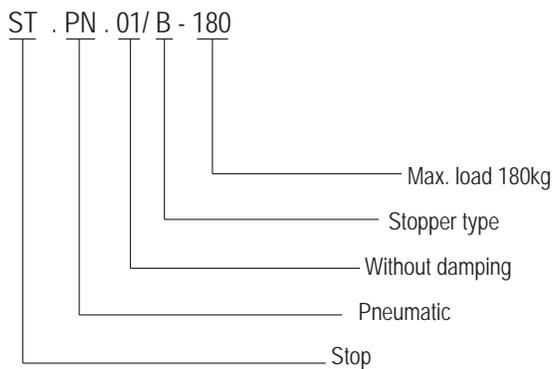


2. Delivery condition  
Equipped

Specifications

|  |  |
|--|--|
| Part No.                                     | 50811100   |
| Pallet and workpiece max. mass<br>$m_c$ (kg) | 180  |
| Mass<br>$m$ (g)                              | 410  |
| Material                                     | Case: PA6(black)<br>Stopper: PA6(black)<br>Block: SUS304 |
| Working temperature<br>(°C)                  | 0...60   |
| Quick connector                              | Hose, outer diameter $\Phi 6$                            |
| Pressure range<br>(Mpa)                      | 0.4-0.8 clean compressed air                             |

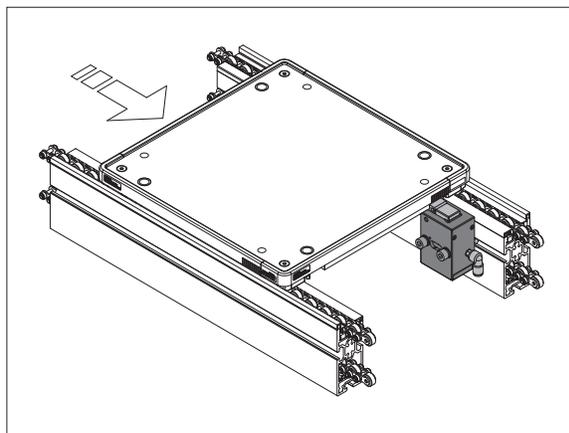
Ordering reference



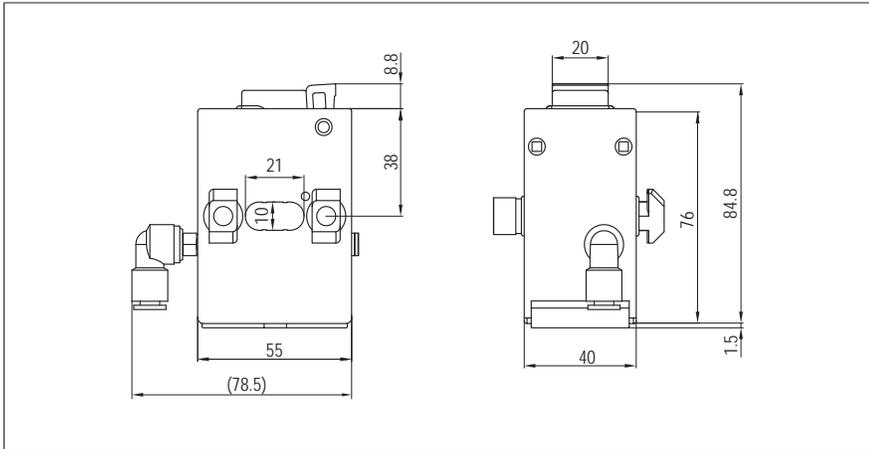
Installation position



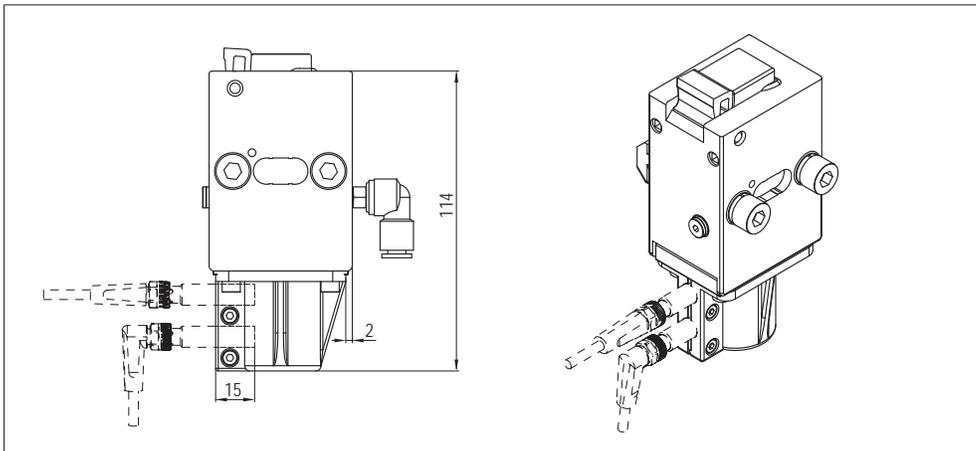
ST.PN.01/B-180 Pneumatic stop



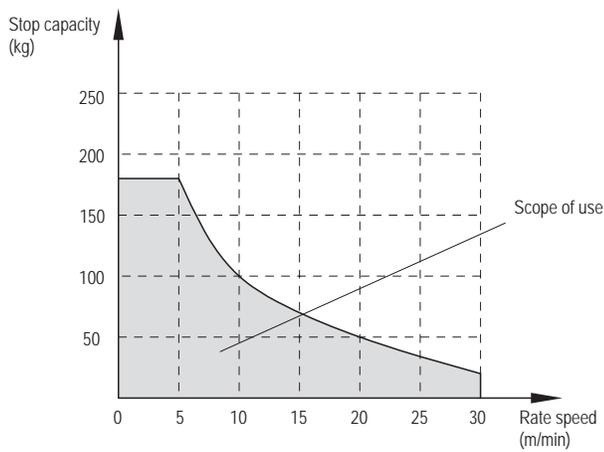
Dimension



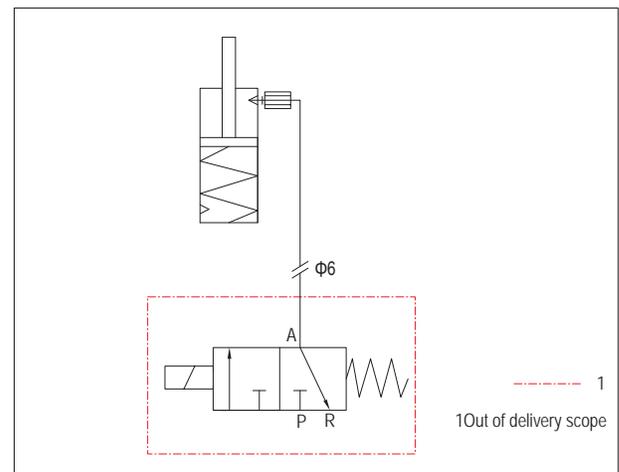
Sensor Installation Diagram



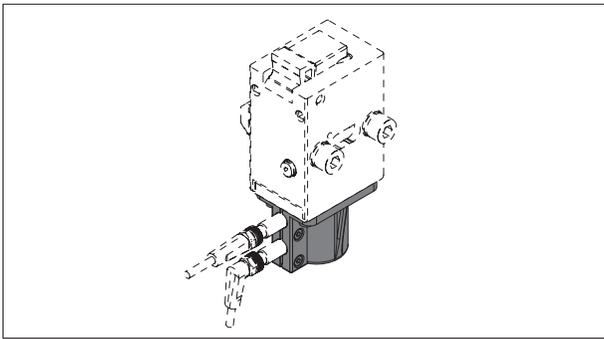
Stop Capacity Diagram



Schematic Diagram



Detection Unit for Stop

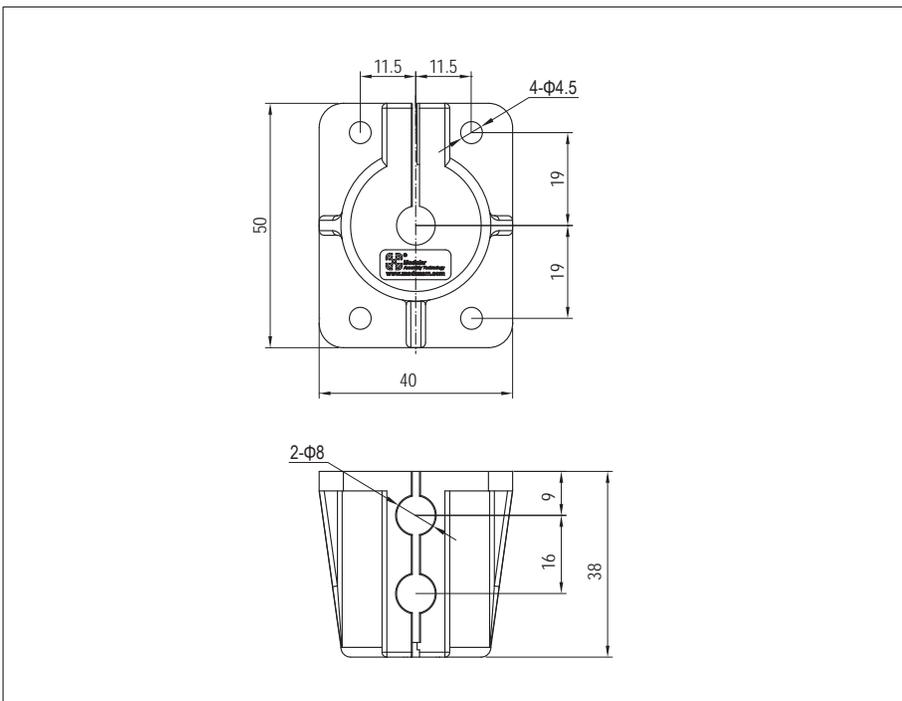


- ▶ Material: Bracket, PA6 Black; detection rod, zinc plated steel
- ▶ Used with 50811100 stop to detect whether the stop is under release condition.
- ▶ Matching accessory: M8x1 sensor (To be ordered separately).

Ordering reference

| Product description     | Delivery unit | Part No. |
|-------------------------|---------------|----------|
| Detection Unit for Stop | 1             | 50801200 |

Dimension



Scope of delivery

Including all fastening sets to mount on pallet conveyor

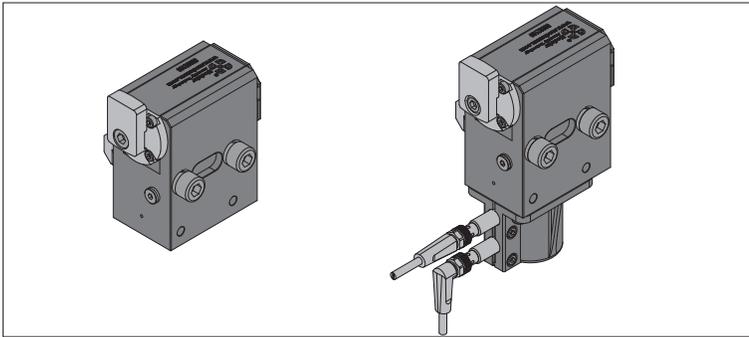
Supply mode

Not equipped

ST.PN.02/A-60 Pneumatic Damping Stop

 Delivery **05** Workday

 Please contact us if order quantities more than 50pcs

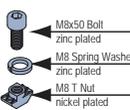


Features/Benefits

1. No inverse operation allowed and to be installed directly on the conveyor line.
2. Operation noise less than 60dB. Stop and release height is 9mm, buffer stroke is 18.6mm.
3. It can be used on PTS1, PTS2 or PTS1/H conveyor to control WP2/S, WP2/E or WP2/C pallet.
4. Damped stopping of the first accumulating pallet. It stops one or more accumulating pallets at the defined position. When the pressure is released, the stop is closed by a spring and the workpiece pallet is stopped.

Supply mode

1. Scope of delivery  
Including all positioning and fastening sets (2xEW+1xGM) to mount on pallet conveyor.

| GM  | Fastening Set           | EW  | Fastening Set   |
|---|-------------------------|---|---|
|  | Positioning part<br>PAC |  | M8x50 Bolt<br>zinc plated<br>M8 Spring Washer<br>zinc plated<br>M8 T Nut<br>nickel plated |

2. Delivery condition

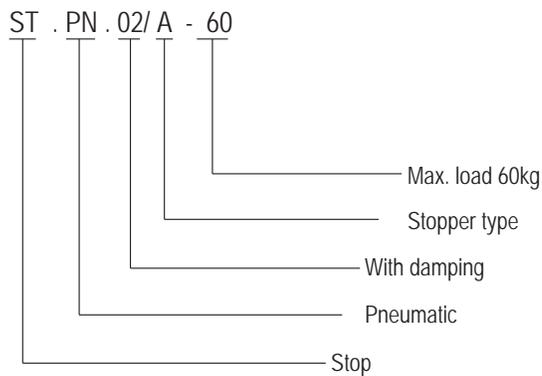
Equipped

 Locking torque of M8x50 bolt is 10.6N.m.

Specifications

|   |  |
|---|--|
| Part No.  | 50802100                                       |
| Pallet and workpiece max. mass<br>m <sub>c</sub> (kg) | 60   |
| Pallet and workpiece min. mass<br>m(kg)               | 1  |
| Mass<br>m(g)  | 550  |
| ESD   | Yes  |
| Material  | Case: aluminum alloy(black)<br>Stopper: SUS304 |
| Working temperature<br>(°C)                           | 0...60   |
| Quick connector                                       | Hose, outer diameter $\Phi 6$                  |
| Pressure range<br>(Mpa)                               | 0.4-0.8 clean compressed air                   |

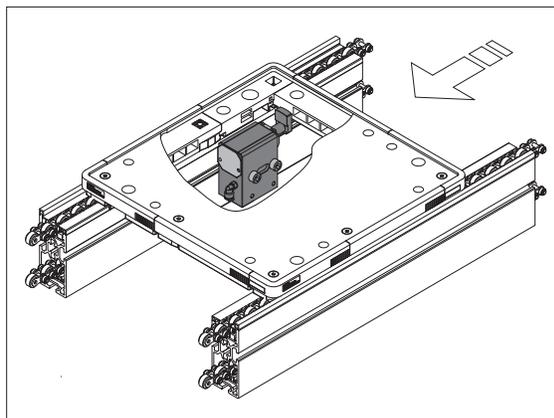
Ordering reference



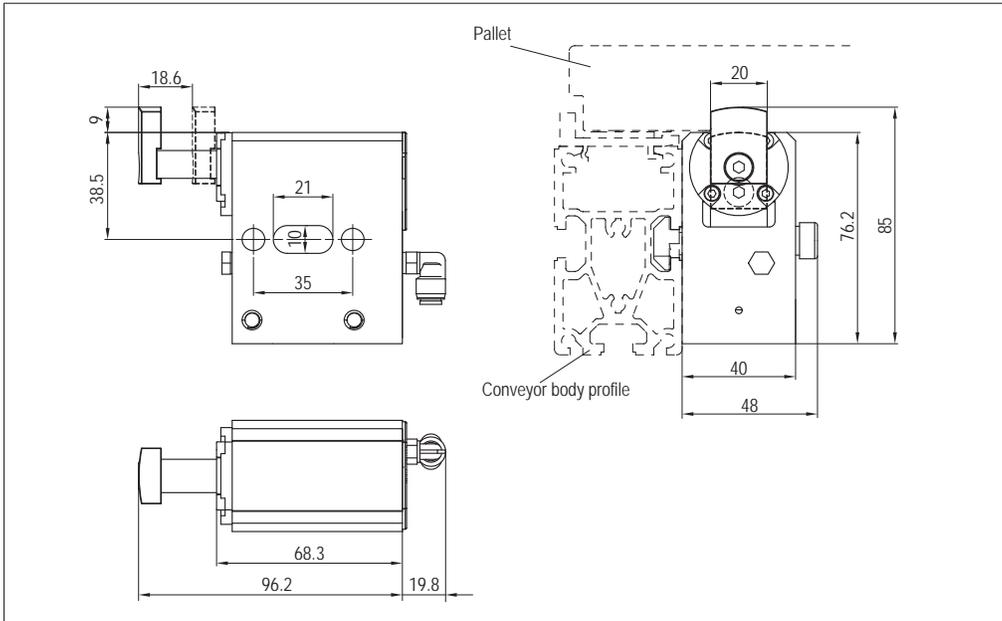
Installation position



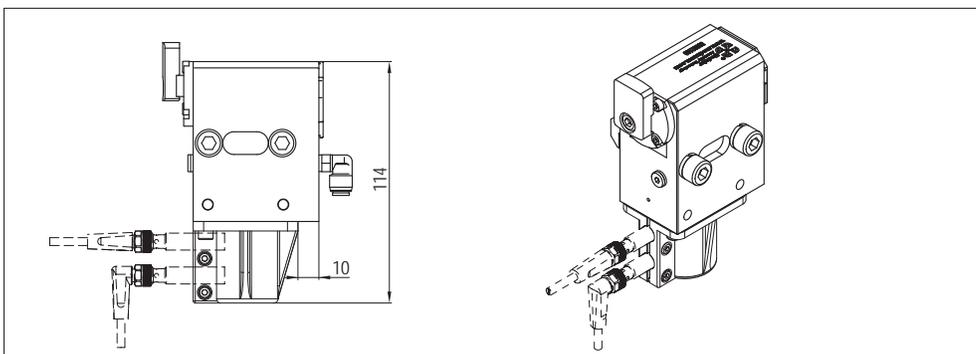
ST.PN.02/A-60 Pneumatic damping stop



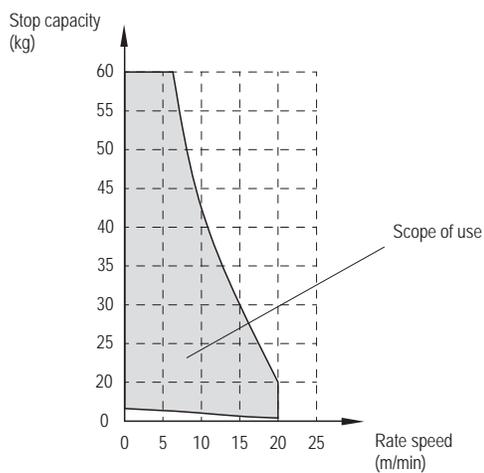
Dimension



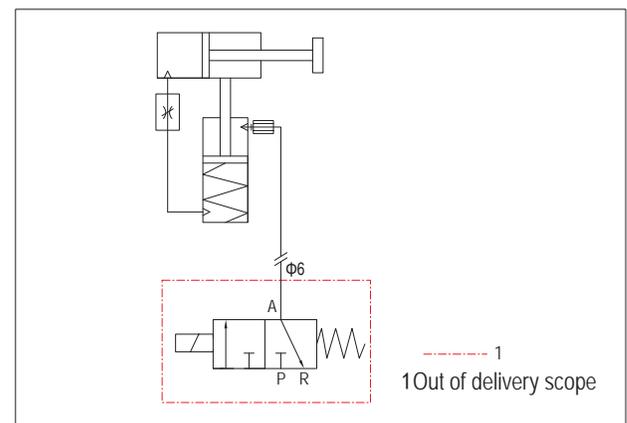
Sensor Installation Diagram



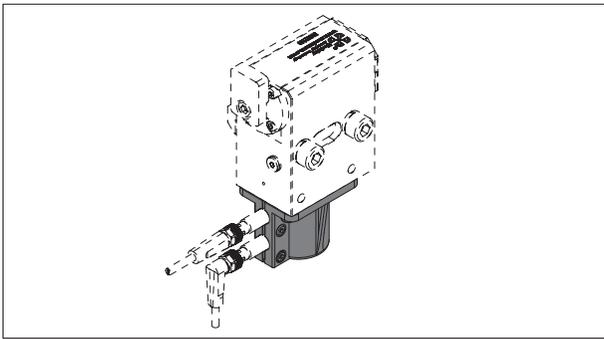
Stop Capacity Diagram



Schematic Diagram



Detection Unit for Stop

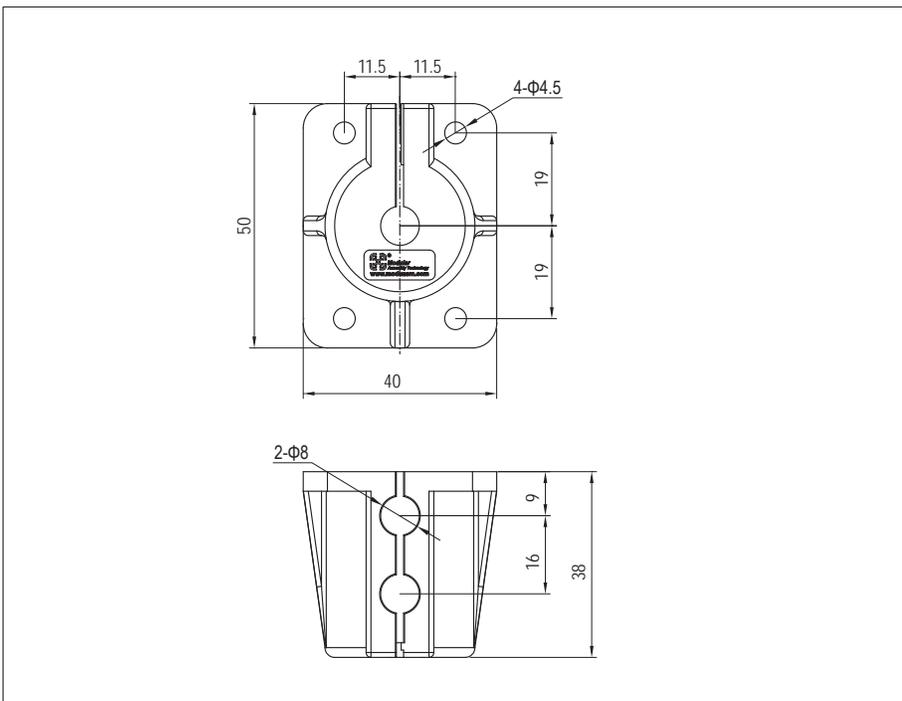


- ▶ Material: Bracket, PA6 Black; detection rod, zinc plated steel
- ▶ Used with 50802100 Stop to detect whether the stop is under release condition.
- ▶ Matching accessory: M8x1 sensor (To be ordered separately).

Ordering reference

| Product description     | Delivery unit | Part No. |
|-------------------------|---------------|----------|
| Detection Unit for Stop | 1             | 50802200 |

Dimension



Scope of delivery

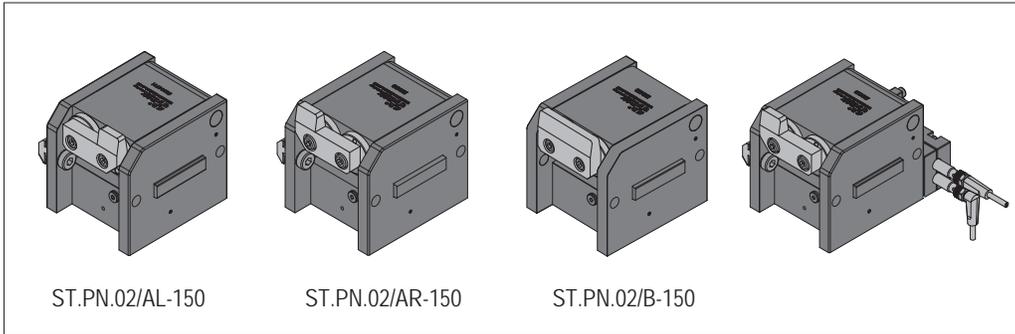
Including all fastening sets to mount on pallet conveyor

Supply mode

Not equipped

ST.PN.02/...-150 Pneumatic Damping Stop

|   |   |           |         |
|---|---|-----------|---------|
|  | Delivery  | <b>05</b> | Workday |
|  | Please contact us if order quantities more than 50pcs |           |         |



Features/Benefits

1. All-metal design with double piston damper.
2. No inverse operation allowed and to be installed directly on the conveyor line or on the cross bracing of conveyor line.
- 3.
4. Operation noise less than 60dB. Stop and release height is 8.5mm, buffer stroke is 20mm.
5. It can be used on PTS1, PTS2, PTS1/H and PTS4 conveyor to control WP2/S, WP2/E 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.
6. Damped stopping of the first accumulating pallet. It stops one or more accumulating pallets at the defined position. When the pressure is released, the stop is closed by a spring and the workpiece pallet is stopped.

Supply mode

1. Scope of delivery

Stop with different stoppers

Fittings

ST.PN.02/AL-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/AR-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/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 96)

| ZN  | Fastening Set                         | LG  | Fastening Set                   | DH  | Fastening Set                   | SG  | Fastening Set    |
|---|---------------------------------------|---|---------------------------------|---|---------------------------------|---|------------------|
|  | M8x20 Bolt<br>(GB6191)<br>zinc plated |  | M8x15 Bolt<br>zinc plated       |  | M8x20 Bolt<br>zinc plated       |  |                  |
|  | M8 lock Washer<br>304                 |  | D8 Spring Washer<br>zinc plated |  | D8 Spring Washer<br>zinc plated |   |                  |
|  | M8 T Nut<br>nickel plated             |  | M8 T Nut<br>nickel plated       |  |                                 |   | 3.21.45.4545.STJ |

2. Delivery condition

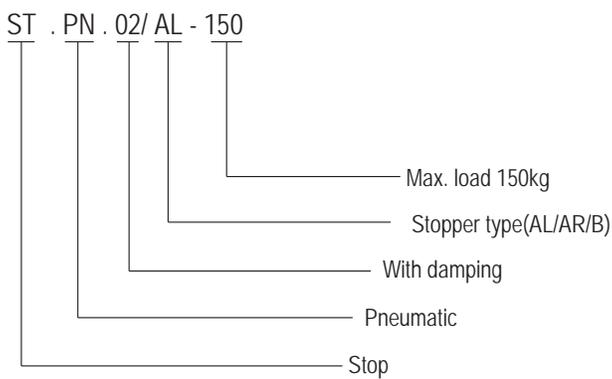
Equipped



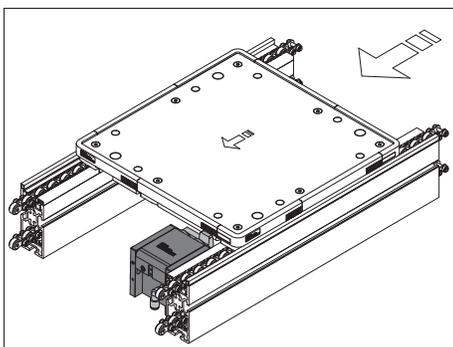
Specifications

|   |  |
|---|--|
| ST.PN.02/AL-150 Part No.                              | 50804101                                       |
| ST.PN.02/AR-150 Part No.                              | 50804103                                       |
| ST.PN.02/B-150 Part No.                               | 50804102                                       |
| Pallet and workpiece max. mass<br>m <sub>c</sub> (kg) | 150  |
| Pallet and workpiece min. mass<br>m(kg)               | 10   |
| ST.PN.02/AL-150 Mass/m(g)                             | 1560   |
| ST.PN.02/AR-150 Mass/m(g)                             | 1560   |
| ST.PN.02/B-150 Mass/m(g)                              | 1588   |
| ESD   | Yes  |
| Material  | Case: aluminum alloy(black)<br>Stopper: SUS304 |
| Working temperature<br>(°C)                           | 0...60   |
| Quick connector                                       | Hose, outer diameter $\Phi 6$                  |
| Pressure range<br>(Mpa)                               | 0.4~0.8 clean compressed air                   |

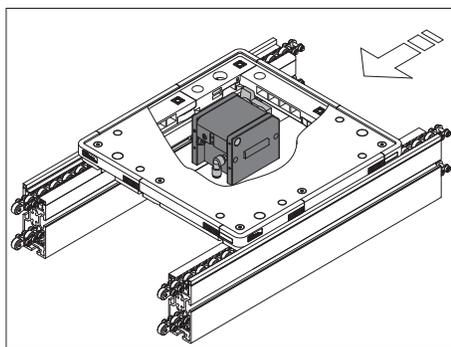
Ordering reference



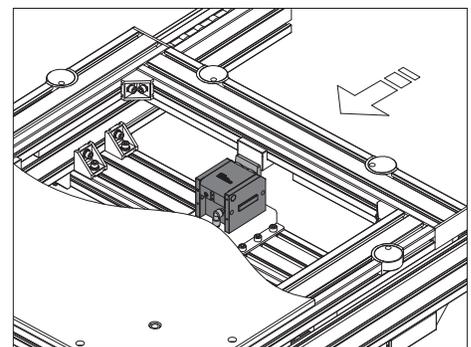
Installation position



ST.PN.02/AR-150 Pneumatic damping stop



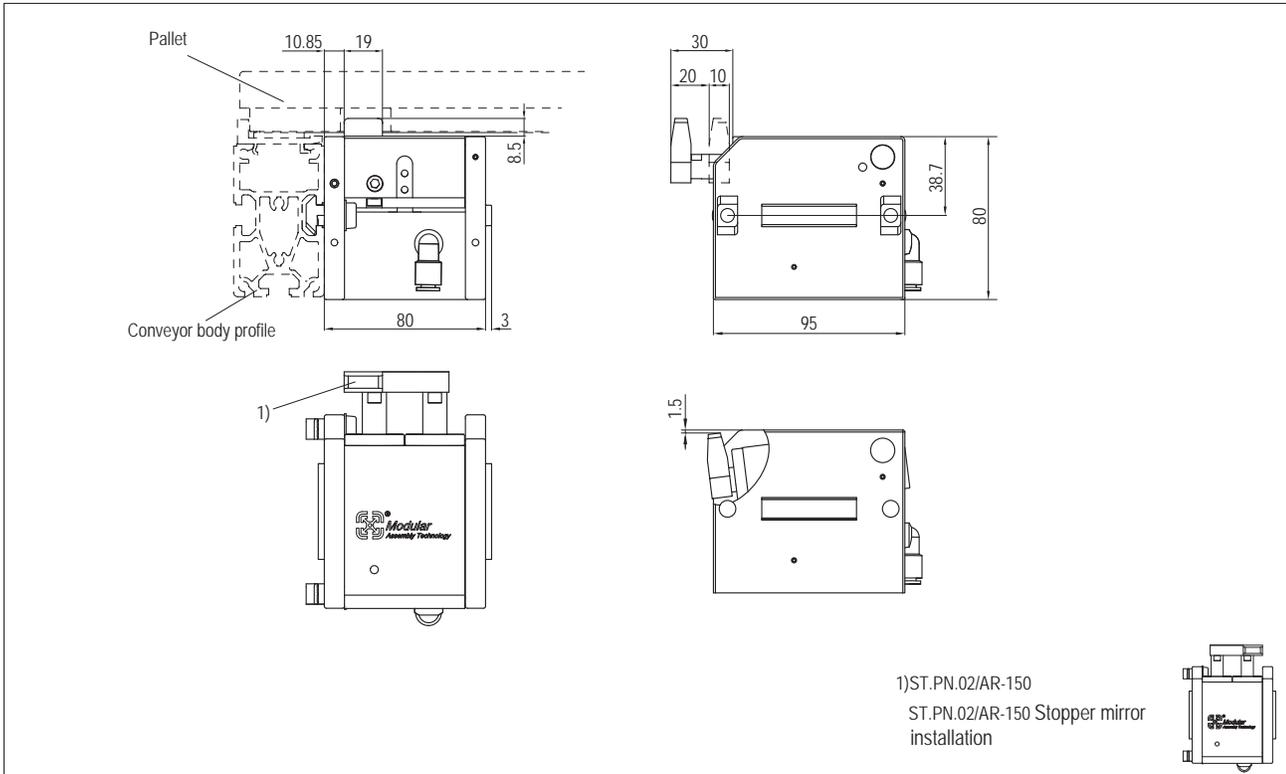
ST.PN.02/AL-150 Pneumatic damping stop



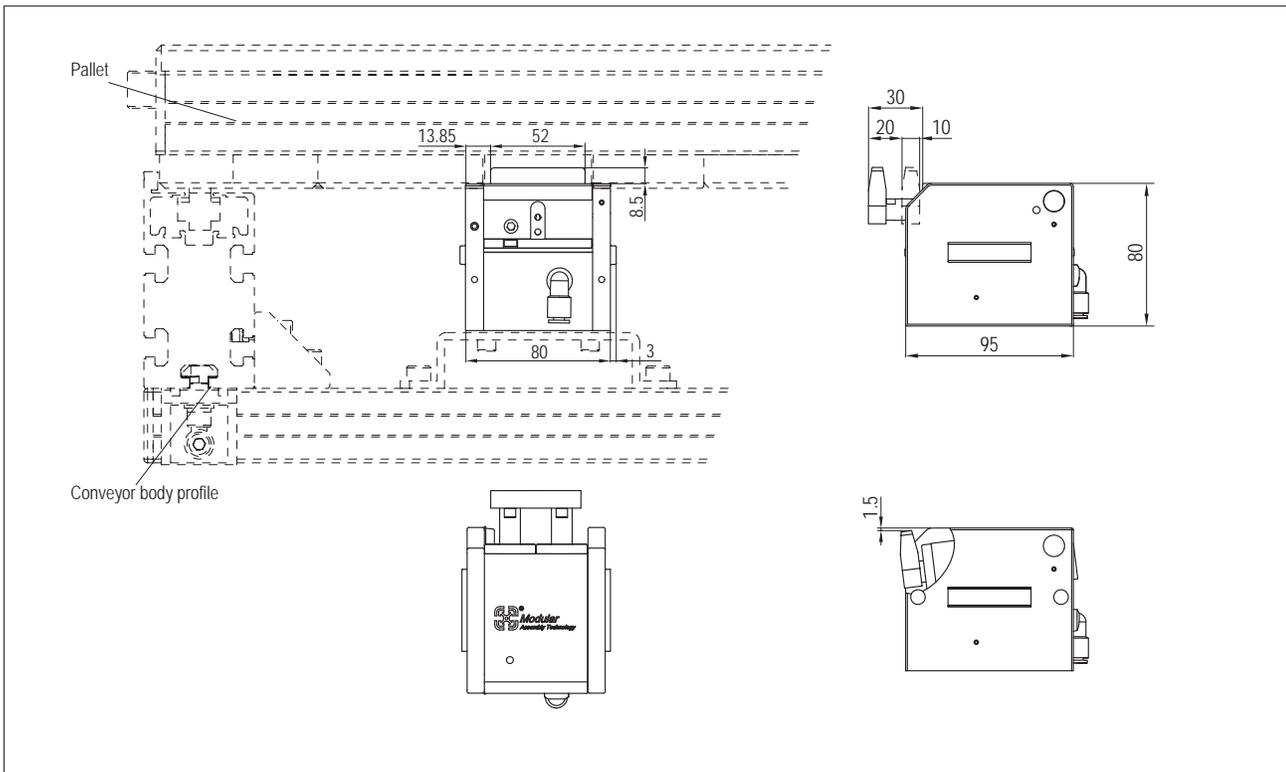
ST.PN.02/B-150 Pneumatic damping stop

Dimension

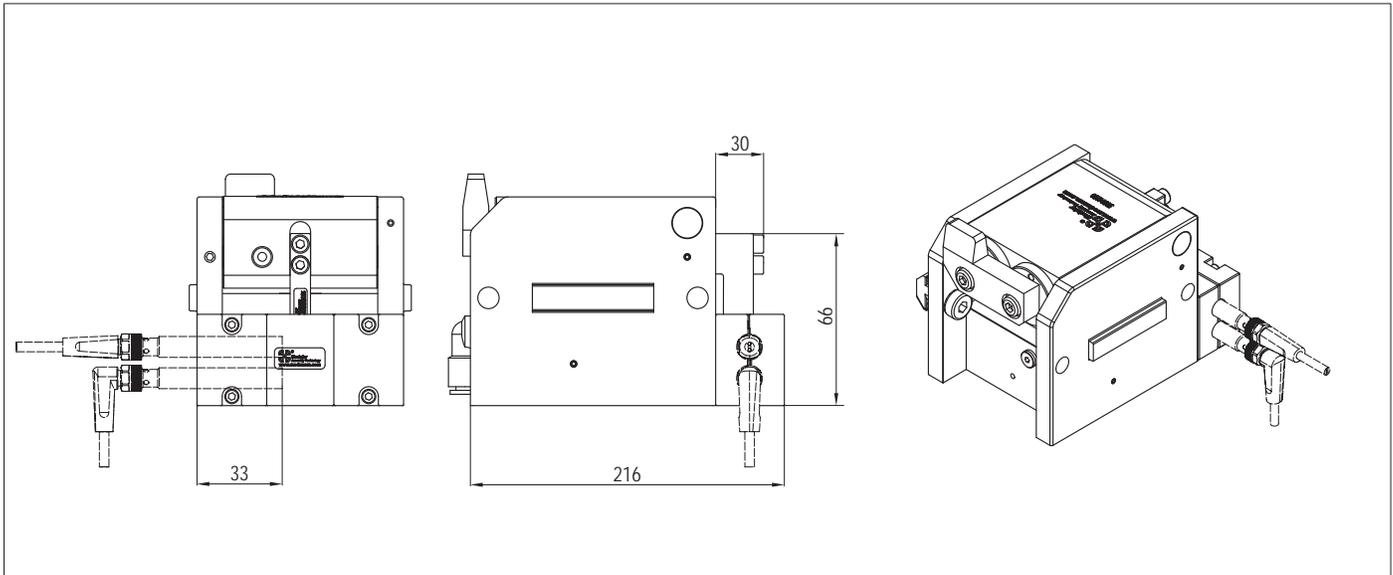
ST.PN.02/AL-150 Pneumatic damping stop



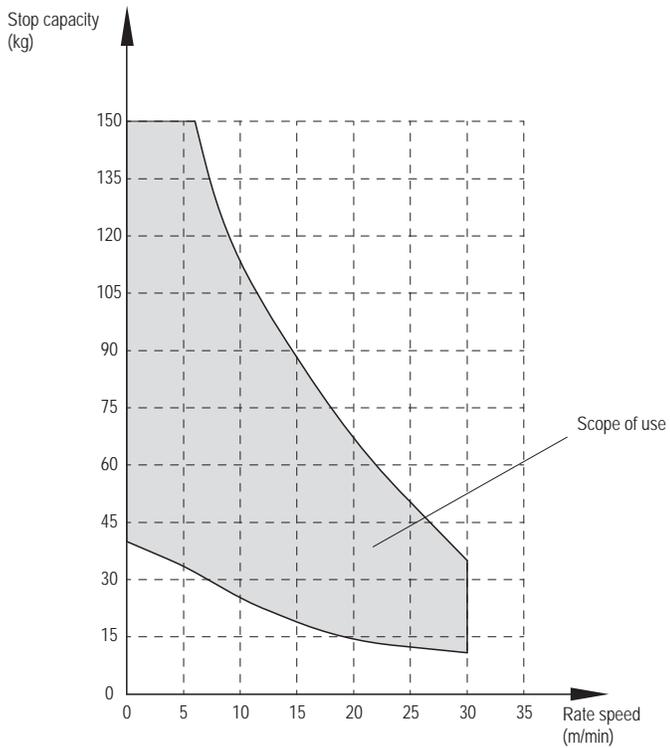
ST.PN.02/B-150 Pneumatic damping stop



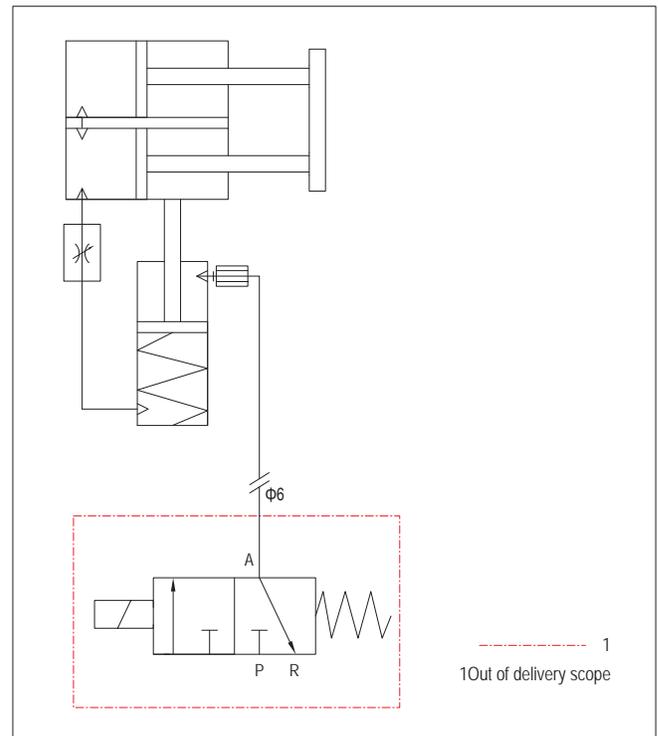
Sensor Installation Diagram



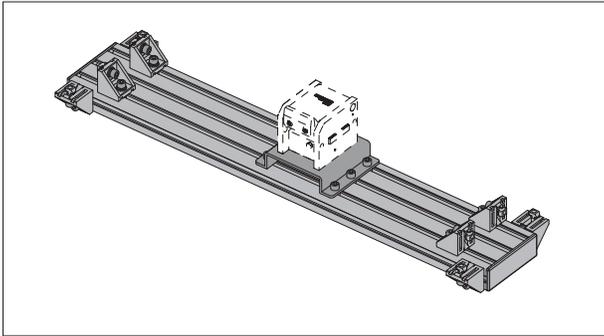
Stop Capacity Diagram



Schematic Diagram



Support

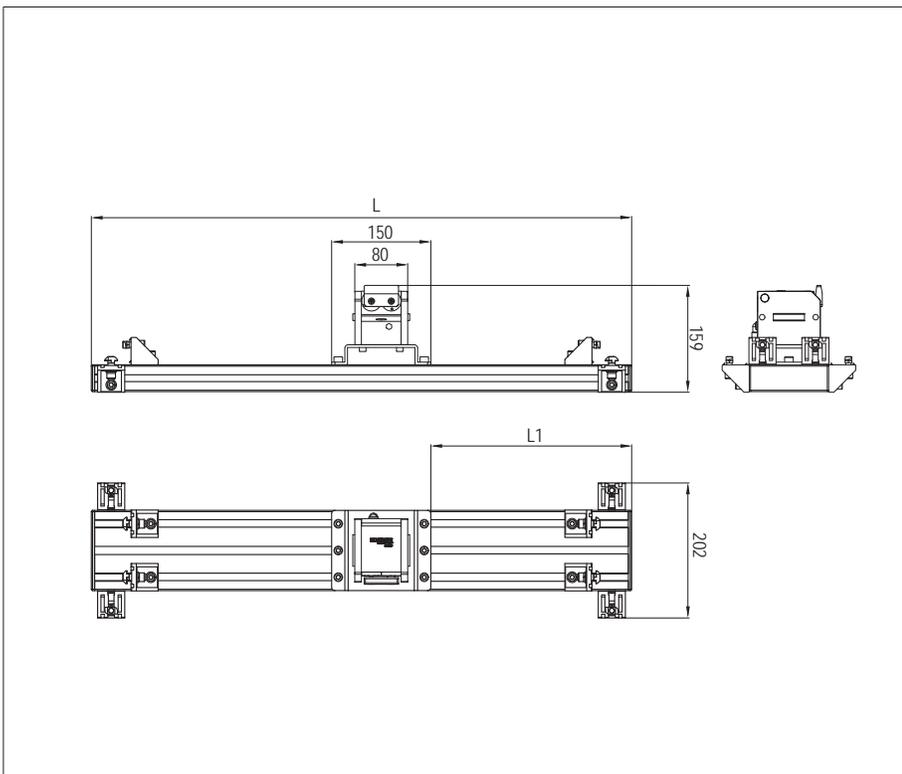


- ▶ Material: aluminum, steel, Diecast aluminum
- ▶ Used with ST.PN.02/B-150 pneumatic damper.
- ▶ Support length L is subject to the pallet width. The installation position of stop is subject to the corresponding location of the slot on the pallet.

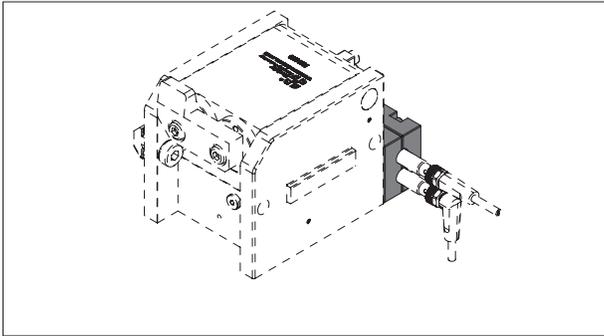
! Ordering reference

| Product description | Delivery unit | Part No.                      |
|---------------------|---------------|-------------------------------|
| Support             | 1             | Custom made(No stock for now) |

Dimension



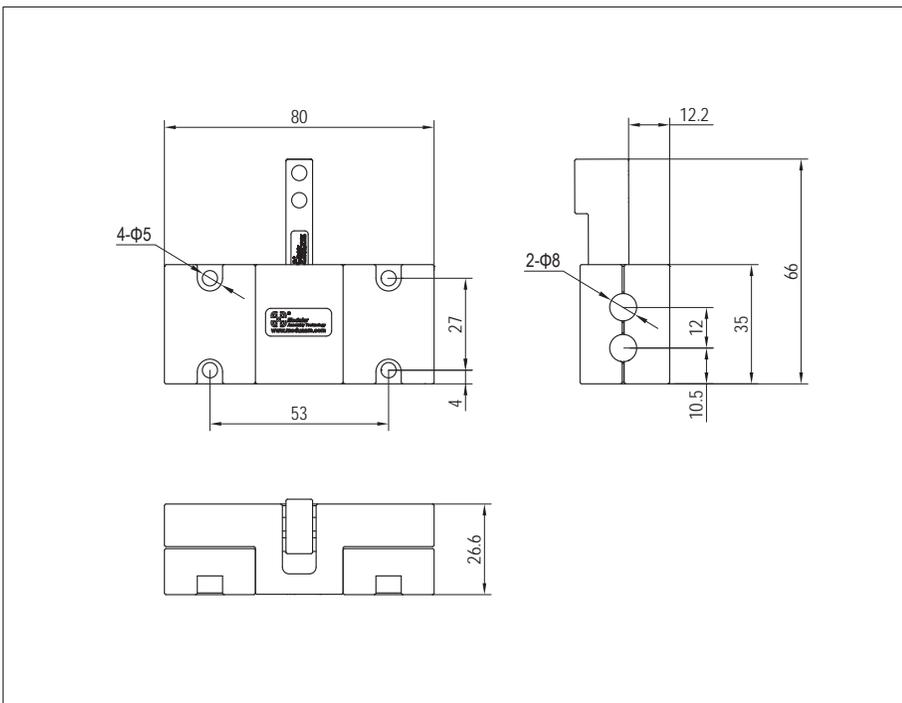
Detection Unit for Stop



- ▶ Material: Bracket, PA6 Black; detection rod, PA6 Black,SUS304
- ▶ Used with 50804101/50804102 Stop to detect whether the stop is under release condition.
- ▶ Matching accessory: M8x1 sensor (To be ordered separately).

| Product description     | Delivery unit | Part No. |
|-------------------------|---------------|----------|
| Detection Unit for Stop | 1             | 50804200 |

Dimension



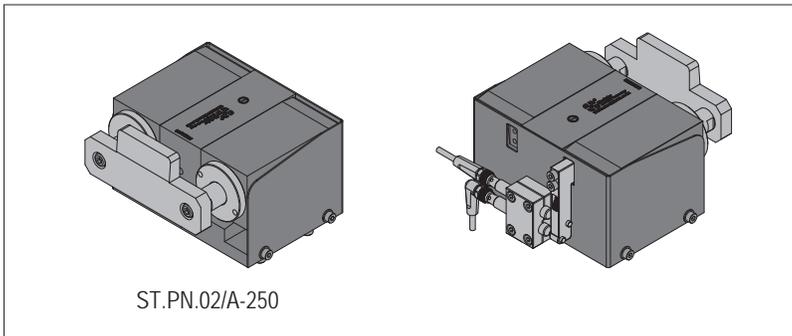
▶ Scope of delivery

Including all fastening sets to mount on pallet conveyor

▶ Supply mode

Not equipped

ST.PN.02/A-250 Pneumatic Damping Stop



Features/Benefits

1. All-metal design with double piston damper.
2. No inverse operation allowed and to be installed on the transverse bracing on inner side of conveyor line.
3. Operation noise less than 60dB. Stop and release height is 11.5mm, buffer stroke is 24mm.
4. It can be used on PTS1, PTS2, PTS1/H and PTS4 conveyor to control WP2/S, WP2/E or WP2/C pallet.
5. Damped stopping of the first accumulating pallet. It stops one or more accumulating pallets at the defined position. When the pressure is released, the stop is closed by a spring and the workpiece pallet is stopped.

Supply mode

1. Scope of delivery

Fittings

ST.PN.02/A-250 Including fastening sets(4x**EY**) . Pneumatic damping stop is installed on the inside of main conveyor section with support. The support need to be ordered separately(including fasteners 6x**LG**+10x**SG**)(see PG 102)

| <b>EY</b>   | Fastening Set                 | <b>LG</b>   | Fastening Set                   | <b>SG</b>   | Fastening Set    |                           |
|---|-------------------------------|---|---------------------------------|---|------------------|---------------------------|
|  | M8x30 Bolt<br>stainless steel |  | M8x15 Bolt<br>zinc plated       |  | 3.21.45.4545.STJ |                           |
|  | M8 Washer<br>zinc plated      |  | DB Spring Washer<br>zinc plated |  |                  | M8 T Nut<br>nickel plated |
|   |                               |  | M8 T Nut<br>nickel plated       |   |                  |                           |

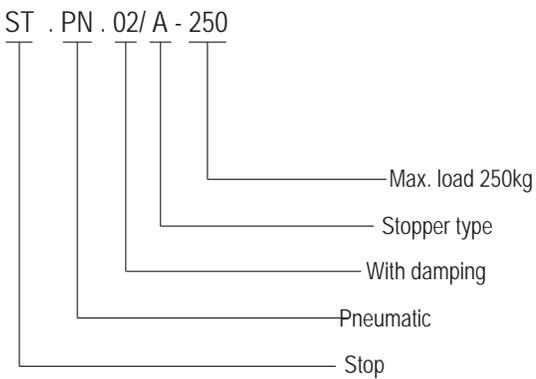
2. Delivery condition

Equipped

Specifications

|   |  |
|---|--|
| ST.PN.02/A-250 Part No.                               | 50813100   |
| Pallet and workpiece max. mass<br>m <sub>c</sub> (kg) | 250  |
| Pallet and workpiece min. mass<br>m(kg)               | 30   |
| ST.PN.02/A-250 Mass/m(g)                              | 3050   |
| ESD   | Yes  |
| Material  | Case: aluminum alloy(black)<br>Stopper: SUS304<br>Protection casing: carbon steel, black electrophoresis |
| Working temperature<br>(°C)                           | 0...60   |
| Quick connector<br>Φ6                                 | Hose, outer diameter Φ6  |
| Pressure range<br>(Mpa)                               | 0.4-0.8 clean compressed air   |

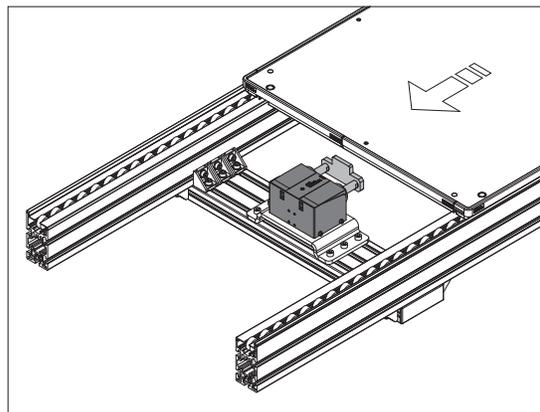
Ordering reference



Installation position

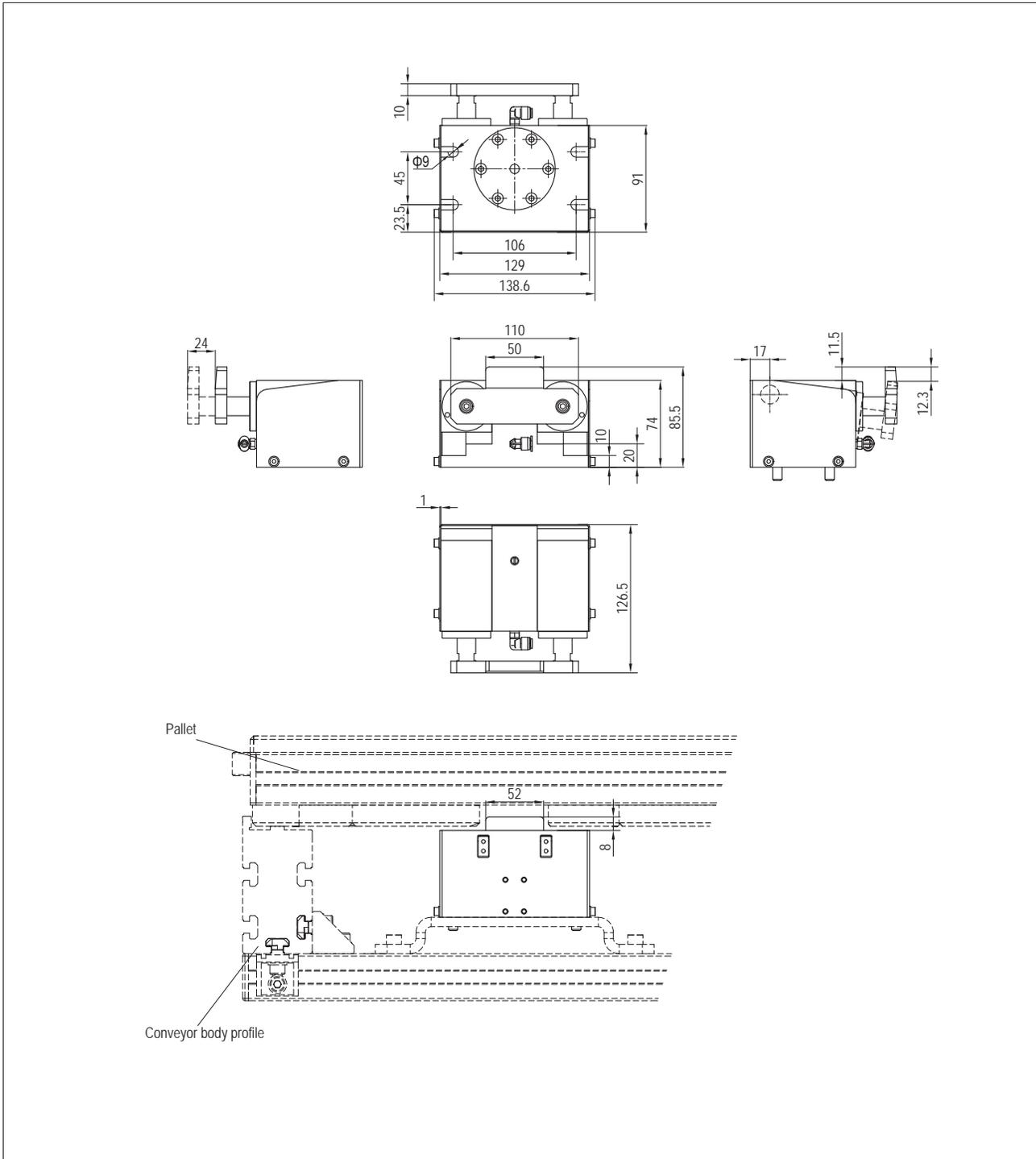


ST.PN.02/A-250 Pneumatic damping stop

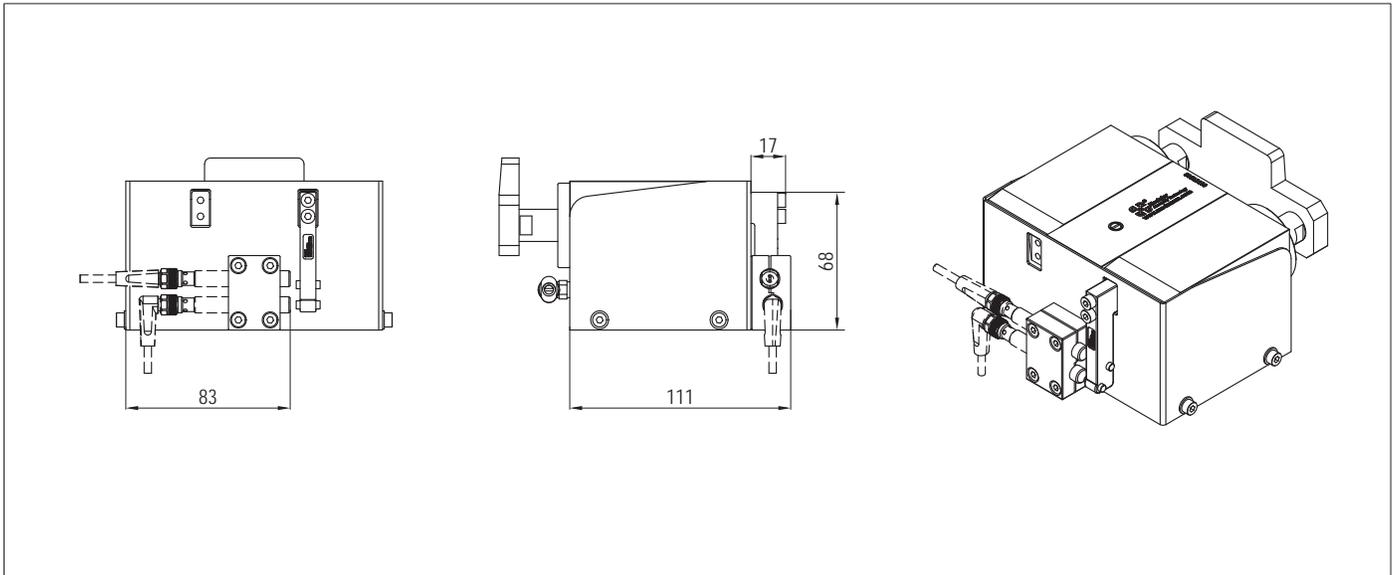


Dimension

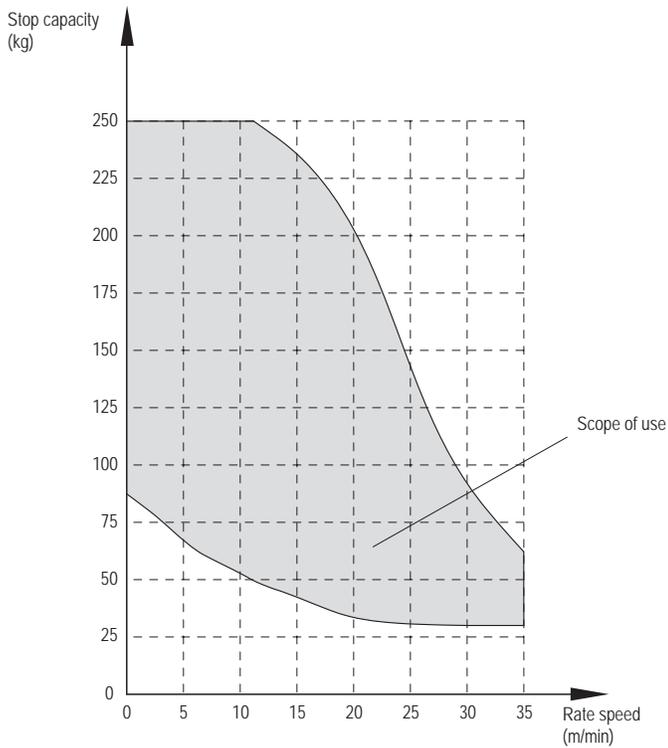
ST.PN.02/A-250 Pneumatic damping stop



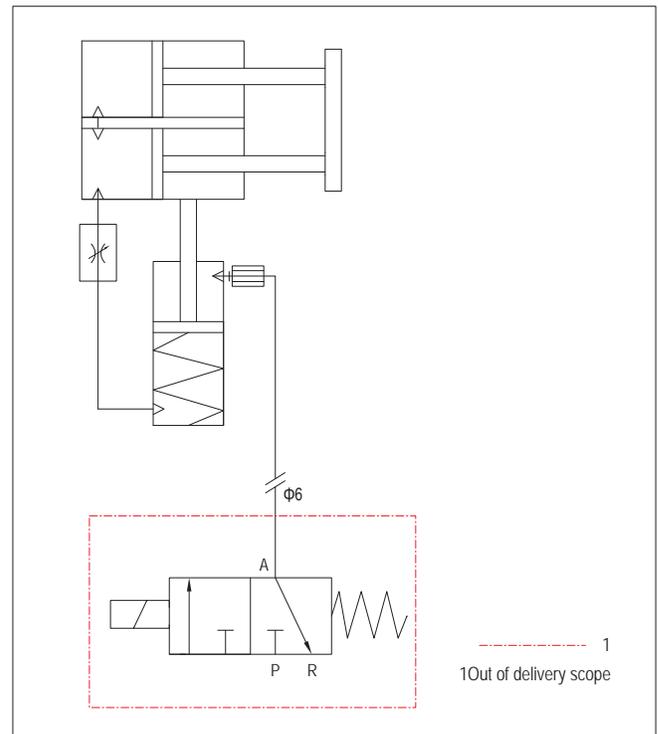
Sensor Installation Diagram



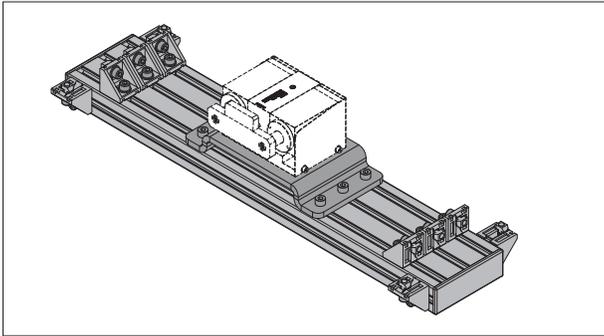
Stop Capacity Diagram



Schematic Diagram



Support

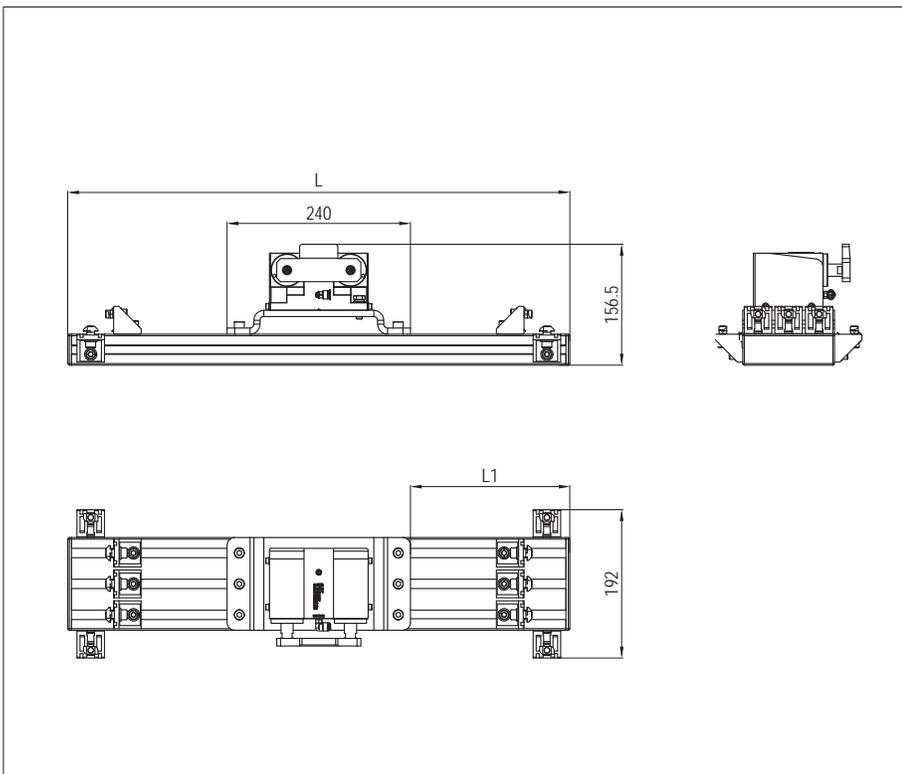


- ▶ Material: aluminum, steel, Diecast aluminum
- ▶ Used with ST.PN.02/A-250 pneumatic damper.  
与ST.PN.02/A-250
- ▶ Support length L is subject to the pallet width. The installation position of stop is subject to the corresponding location of the slot on the pallet.

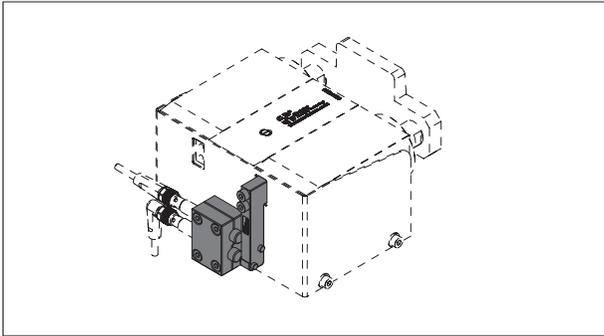
! Ordering reference

| Product description | Delivery unit | Part No.                      |
|---------------------|---------------|-------------------------------|
| Support             | 1             | Custom made(No stock for now) |

Dimension



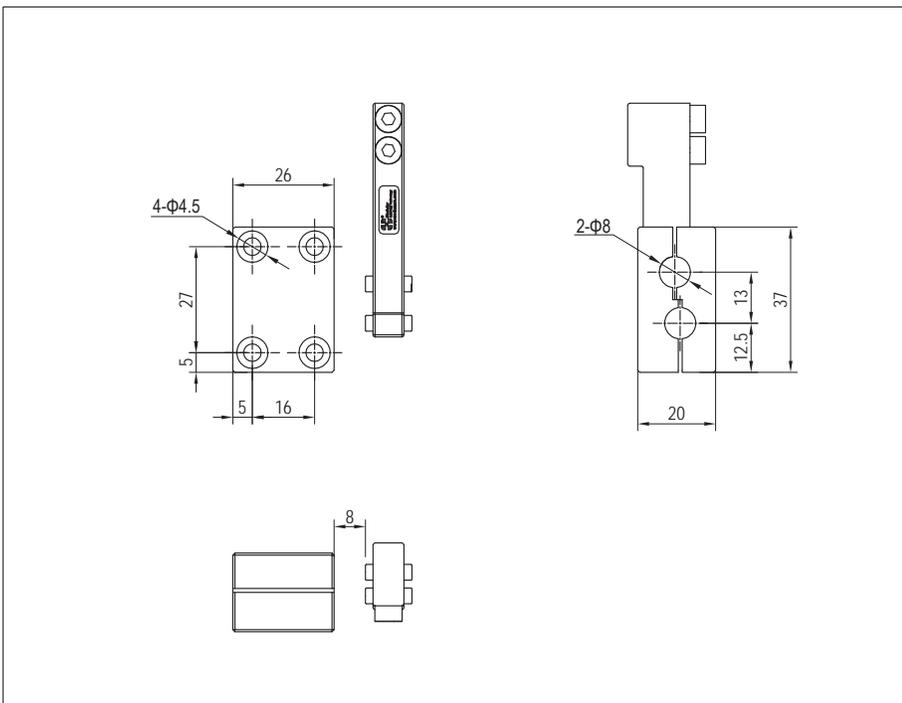
Detection Unit for Stop



- ▶ Material: Bracket, PA6 Black; detection rod, PA6 Black,SUS304
- ▶ Used with 50813100 Stop to detect whether the stop is under release condition.
- ▶ Matching accessory: M8x1 sensor (To be ordered separately).

| Product description     | Delivery unit | Part No. |
|-------------------------|---------------|----------|
| Detection Unit for Stop | 1             | 50813200 |

Dimension



▶ Scope of delivery

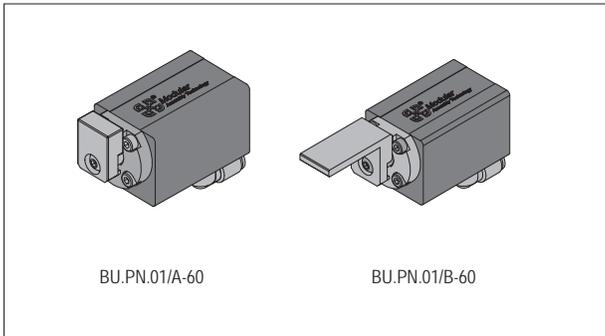
Including all fastening sets to mount on pallet conveyor

▶ Supply mode

Not equipped

BU.PN.01/...-60 Pneumatic Damper

|   |   |
|---|---|
|  | Delivery <b>05</b> Workday                            |
|  | Please contact us if order quantities more than 50pcs |



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.
2. Operation noise less than 60dB. Buffer stroke is 21.5mm. To work with WP2/S or WP2/C pallet.
3. BU.PN.01/A-60 pneumatic damper is suitable to be used on PTS1, PTS2 or PTS1/H conveyor. BU.PN.01/B-60 pneumatic damper is suitable to be used on lift and transverse unit.

BU.PN.01/A-60 PTS1、PTS2, PTS1/      BU.PN.01/B-60

4. The damper cushions the impact of pallets when they are moved from or onto a main conveyor section .When the stop is open and the pallet moves to the damper, the damper resets at the same time.
5. The adjusting screw at the back side of the damper is used to adjust the buffering force.

Supply mode

1. Scope of delivery

Damper with different stoppers

Fittings

BU.PN.01/A-60 is installed at the end of the main conveyor section with support. The support need to be ordered separately (including fasteners 2xHT+4xGU)(see PG 108).

BU.PN.01/B-60 pneumatic damper is directly installed on the side plate of lift and transverse unit.Including fastening set (4xGU) installed on the lift and transverse unit.

| HT  | Faskening Set                   | GU  | Faskening Set                   |
|---|---------------------------------|---|---------------------------------|
|  | M8x16 Bolt<br>zinc plated       |  | M6x16 Bolt<br>zinc plated       |
|  | D8 Spring Washer<br>zinc plated |  | D6 Spring Washer<br>zinc plated |
|  | M8 T Nut<br>nickel plated       |  | M6 Washer<br>zinc plated        |

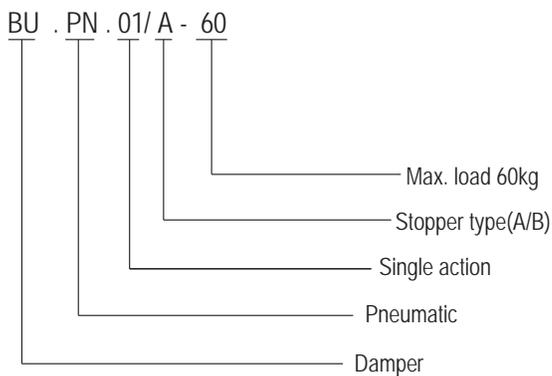
2. Delivery condition  
Equipped



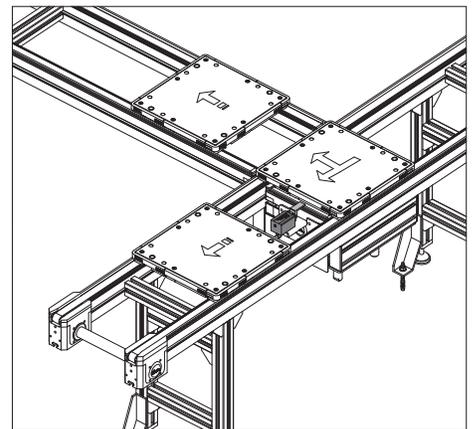
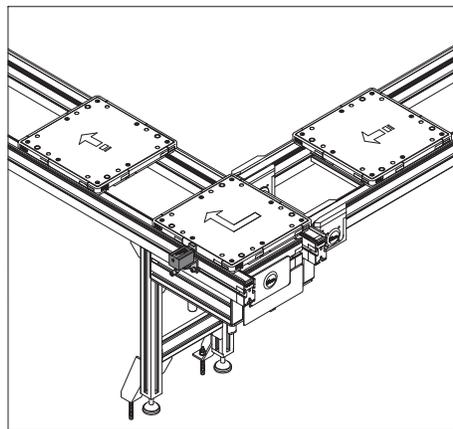
Specifications

|   |  |
|---|--|
| BU.PN.01/A-60 Part No.                                | 50806101   |
| BU.PN.01/B-60 Part No                                 | 50806102   |
| Pallet and workpiece max. mass<br>m <sub>c</sub> (kg) | 60   |
| Pallet and workpiece min. mass<br>m(kg)               | 1  |
| BU.PN.01/A-60 Mass/m(g)                               | 350  |
| BU.PN.01/B-60 Mass/m(g)                               | 380  |
| ESD   | Yes  |
| Material  | Case: aluminum alloy(black) :<br>Stopper: SUS304 |
| Working temperature<br>(°C)                           | 0...60   |
| Quick connector<br>Φ6                                 | Hose, outer diameter Φ6                          |
| Pressure range<br>(Mpa)                               | 0.4-0.8 clean compressed air                     |

Ordering reference



Installation position

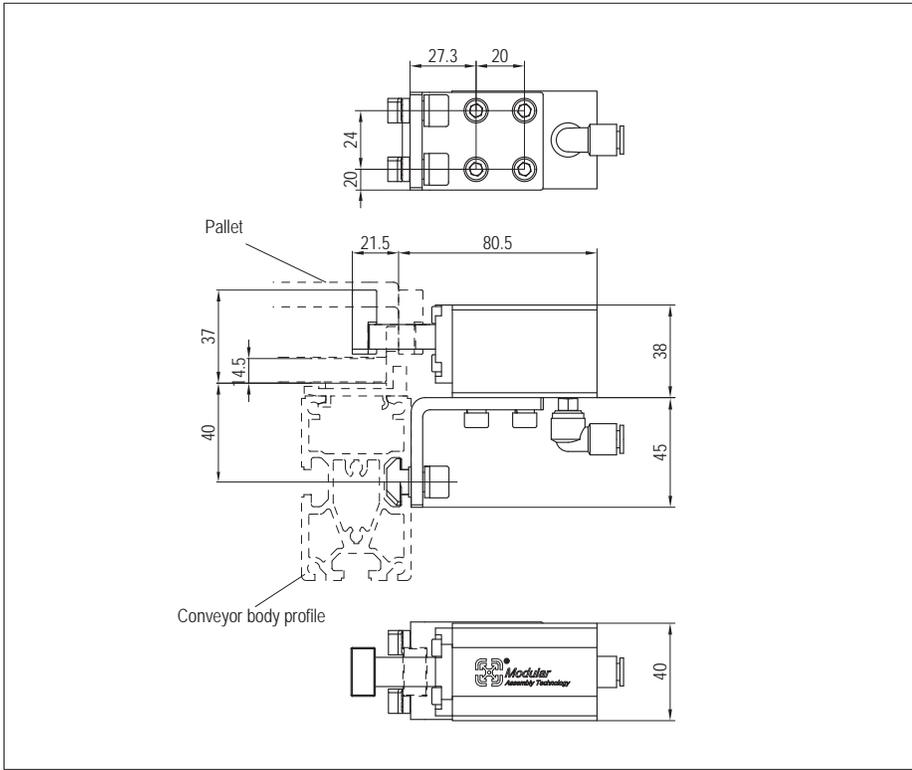


BU.PN.01/A-60 installed at the joint of the conveyor. It is used to buffer and stop the pallet infeeding or outfeeding from the main conveyor.

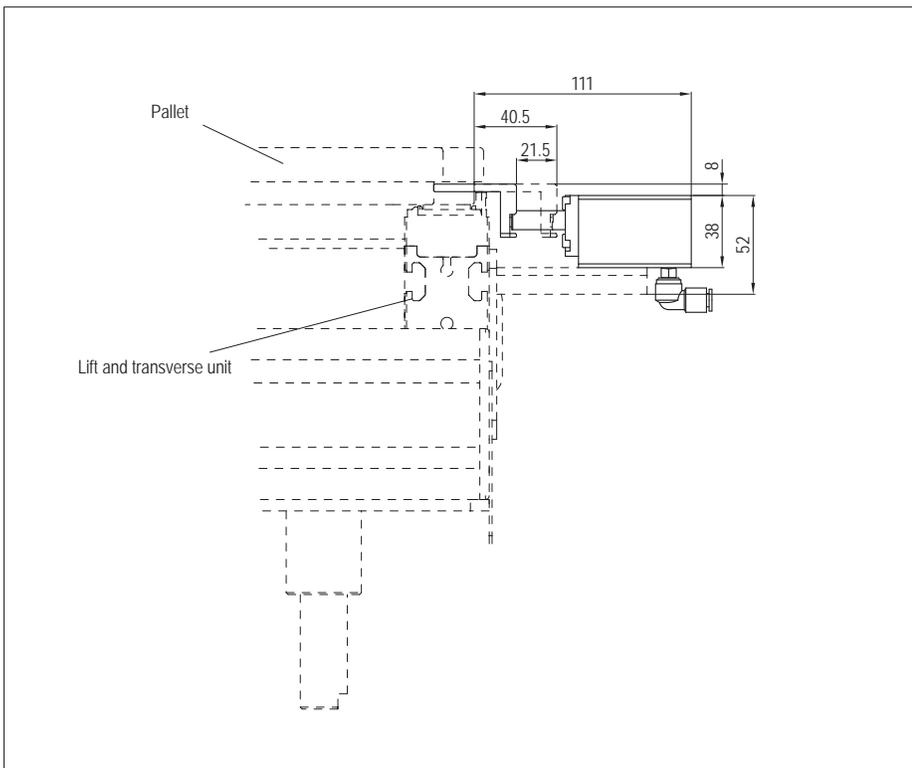
BU.PN.01/B-60 installed on the Lift and Transverse Unit(3 position) at the joint of the conveyor. It is used to buffer and stop the pallet outfeeding from the main conveyor.

Dimension

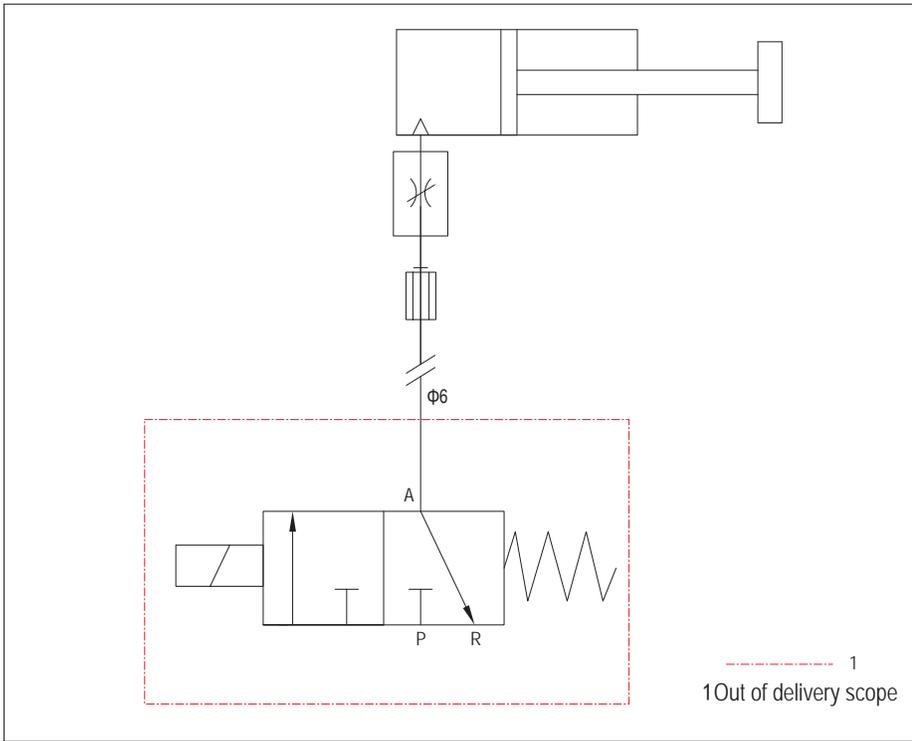
BU.PN.01/A-60 Pneumatic damper



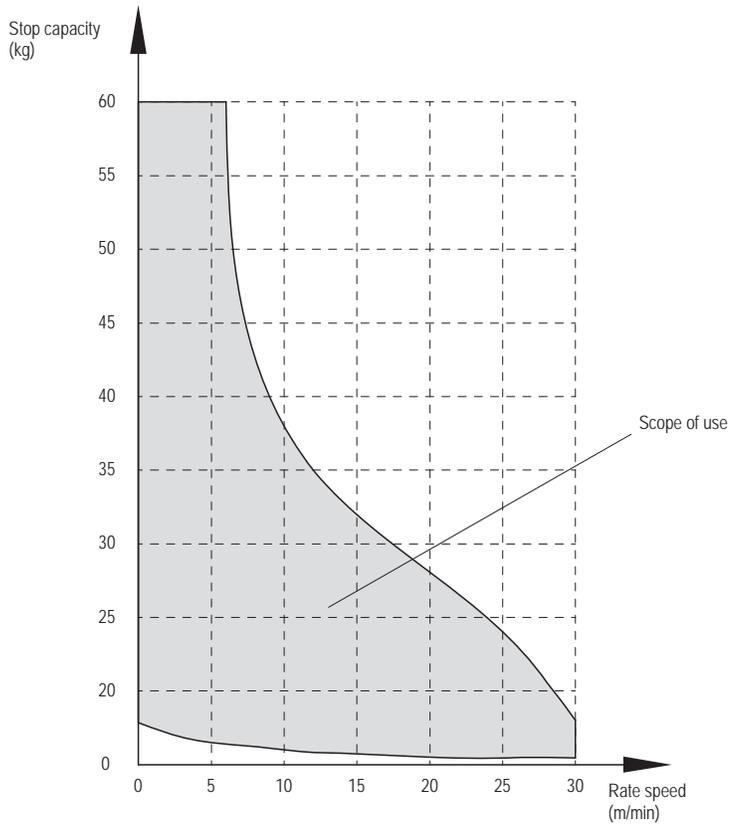
BU.PN.01/B-60 Pneumatic damper



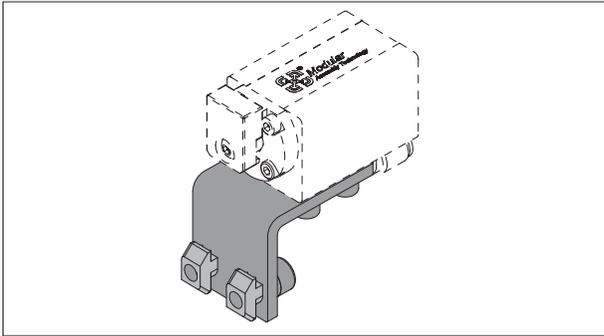
Schematic Diagram



Stop Capacity Diagram



Support

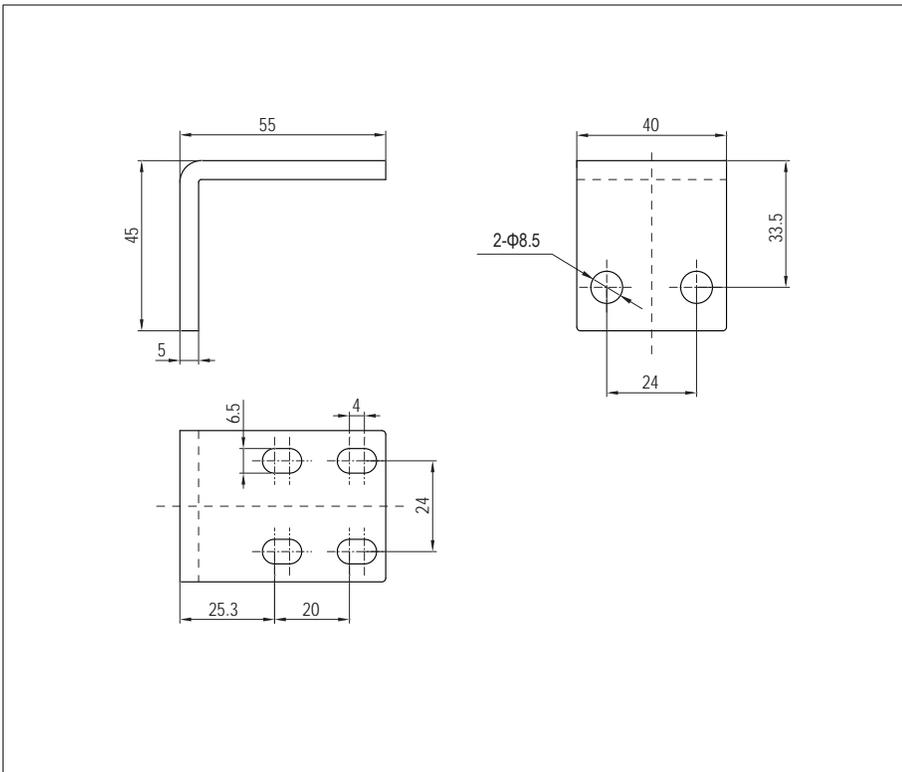


- ▶ Material: steel, black electrophoresis
- ▶ Used with BU.PN.01/A-60 pneumatic damper

! Ordering reference

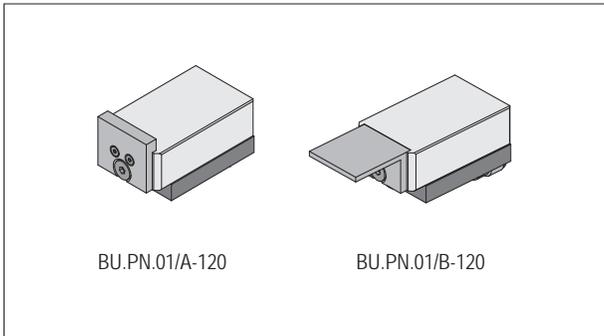
| Product description | Delivery unit | Part No. |
|---------------------|---------------|----------|
| Support             | 1             | 50806103 |

Dimension



BU.PN.01 /...-120 Pneumatic Damper

|   |   |           |         |
|---|---|-----------|---------|
|  | Delivery  | <b>05</b> | Workday |
|  | Please contact us if order quantities more than 50pcs |           |         |



### Features/Benefits

1. No inverse operation allowed and to be installed at the end of the conveyor line or lift and transverse unit.
2. Operation noise less than 60dB. Buffer stroke is 34.5mm. To work with WP2/S, WP2/E or WP2/C pallet.
3. BU.PN.01/A-120 pneumatic damper is suitable to be used on PTS1, PTS2 or PTS1/H conveyor.
4. BU.PN.01/B-120 pneumatic damper is suitable to be used on lift and transverse unit.
5. The damper cushions the impact of workpiece pallets when they are moved from or onto a main conveyor section. When the stop is open and the pallet move to the damper, the damper resets at the same time.
6. The adjusting screw at the back side of the damper is used to adjust the buffering force.

### Supply mode

#### 1. Scope of delivery

Damper with different stoppers

Fittings

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+4xGU) (see PG 113)

BU.PN.01/B-120 pneumatic damper is directly installed on the side plate of lift and transverse unit. Including fastening set (4xGU) installed on the lift and transverse unit.

| HT  | Fastening Set                   | GU  | Fastening Set                   |
|---|---------------------------------|---|---------------------------------|
|  | M8x16 Bolt<br>zinc plated       |  | M6x16 Bolt<br>zinc plated       |
|  | D8 Spring Washer<br>zinc plated |  | D6 Spring Washer<br>zinc plated |
|  | M8 T Nut<br>nickel plated       |  | M6 Washer<br>zinc plated        |

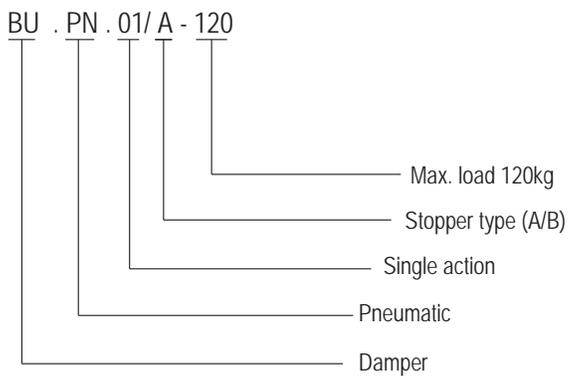
#### 2. Delivery condition Equipped



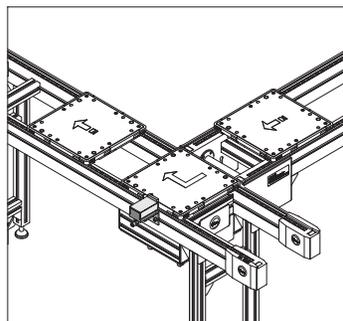
Specifications

|   |  |
|---|--|
| BU.PN.01/ A-120 Part No.                              | 50805101   |
| BU.PN.01/ B-120 Part No.                              | 50805102   |
| Pallet and workpiece max. mass<br>m <sub>c</sub> (kg) | 120  |
| Pallet and workpiece min. mass<br>m(kg)               | 10   |
| BU.PN.01/A-120 Mass/(g)                               | 880  |
| BU.PN.01/B-120 Mass/(g)                               | 920  |
| ESD   | Yes  |
| Material  | Case: aluminum alloy(black) 主壳体: 铝合金(黑色)<br>Stopper: SUS304 挡板: SUS304 |
| Working temperature<br>(°C)                           | 0..60  |
| Quick connector<br>Φ6                                 | Hose, outer diameter Φ6  |
| Pressure range<br>(Mpa)                               | 0.4-0.8 clean compressed air   |

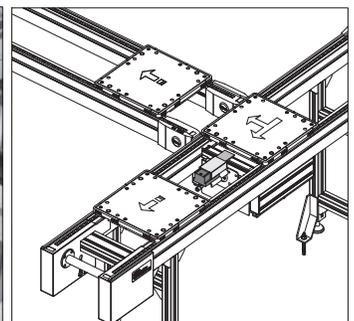
Ordering reference



Installation position



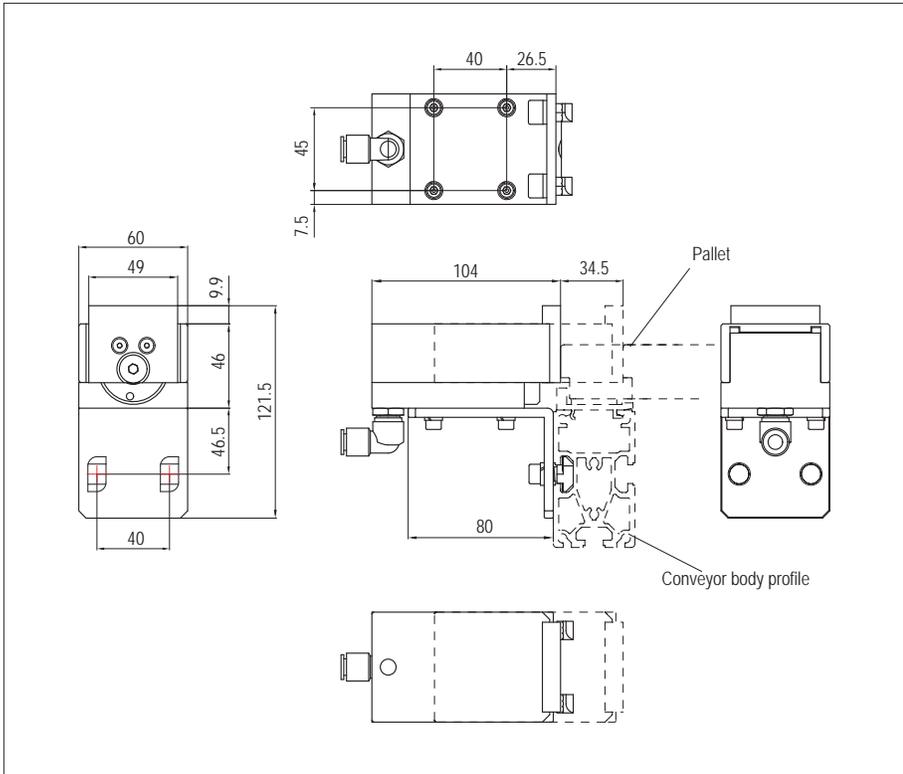
BU.PN.01/A-120 installed at the joint of the conveyor. It is used to buffer and stop the pallet infeeding or outfeeding from the main conveyor.



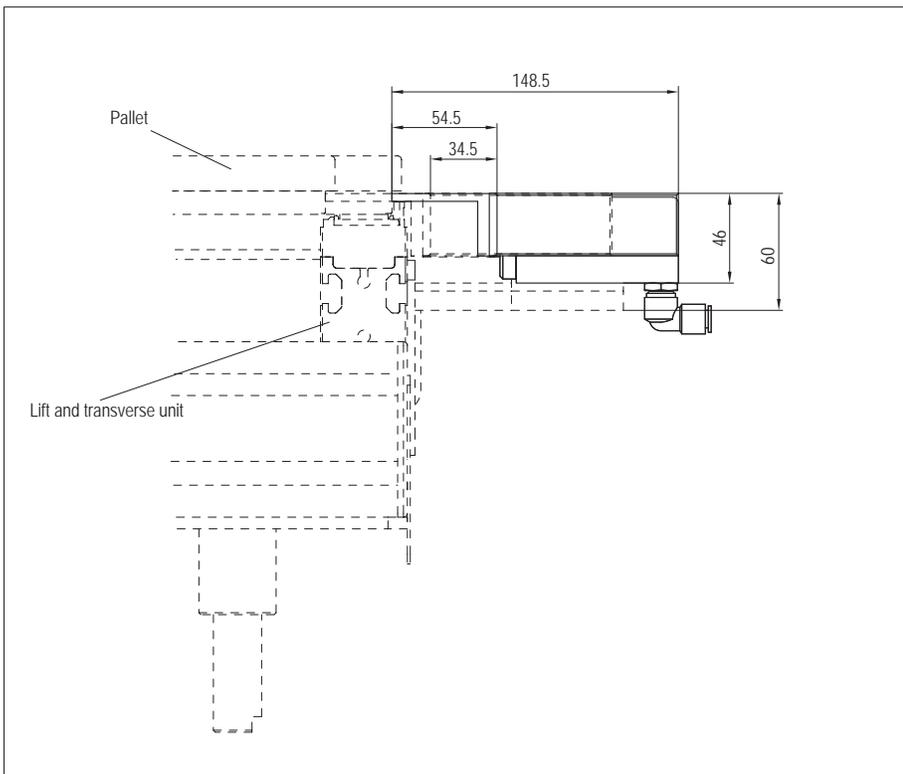
BU.PN.01/B-120 installed on the Lift and Transverse Unit(3 position)at the joint of the conveyor. It is used to buffer and stop the pallet outfeeding from the main conveyor.

Dimension

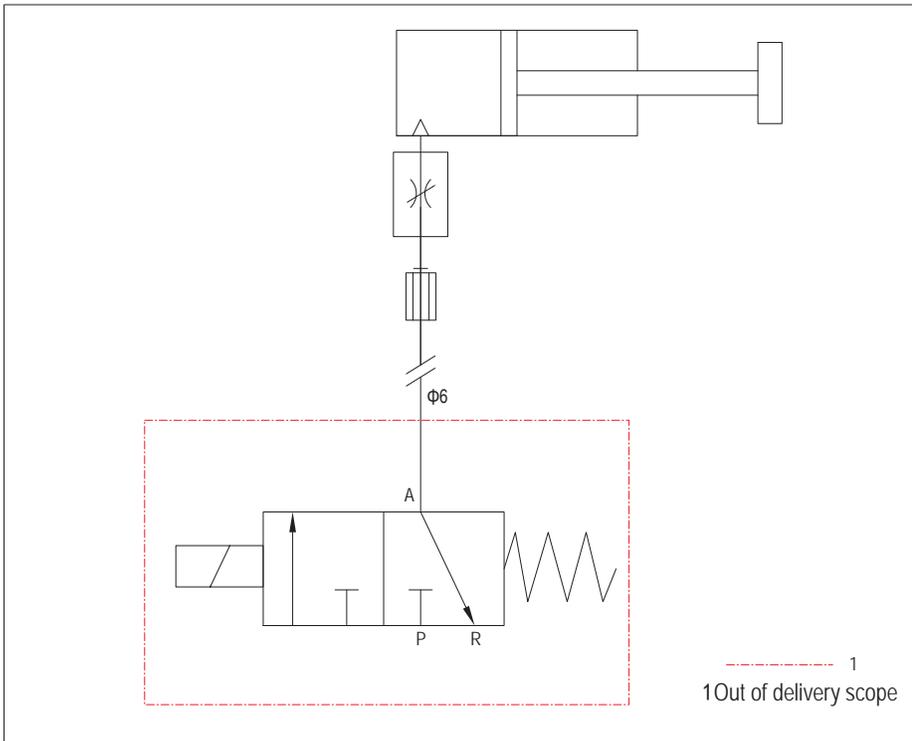
BU.PN.01/A-120 Pneumatic damper



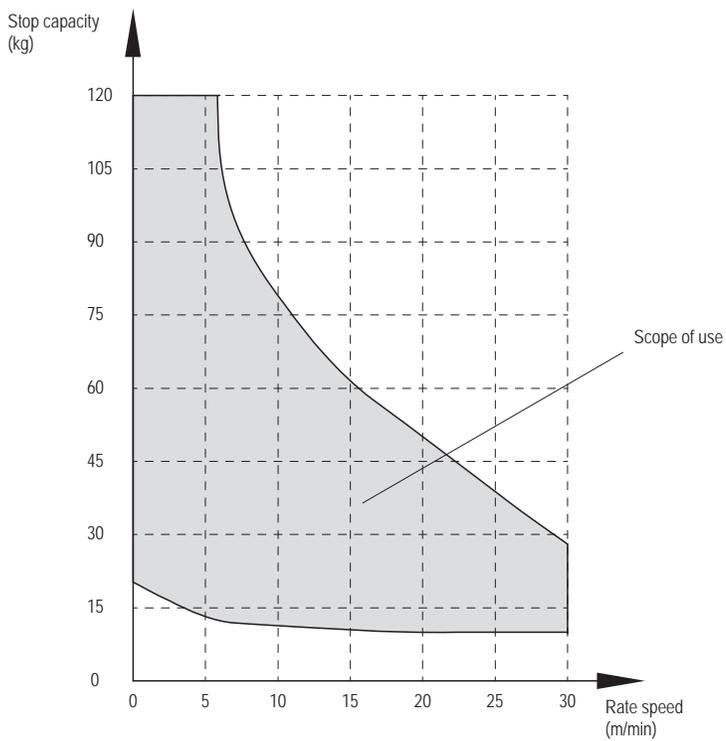
BU.PN.01/B-120 Pneumatic damper



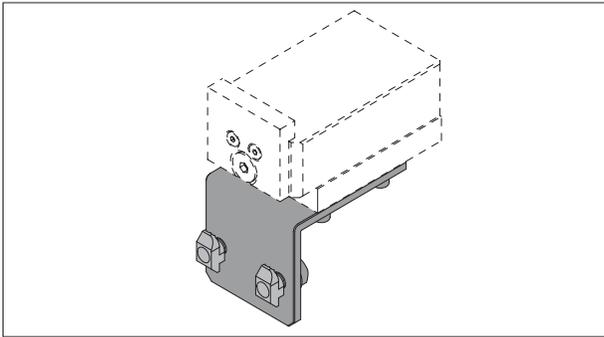
Schematic Diagram



Stop Capacity Diagram



Support

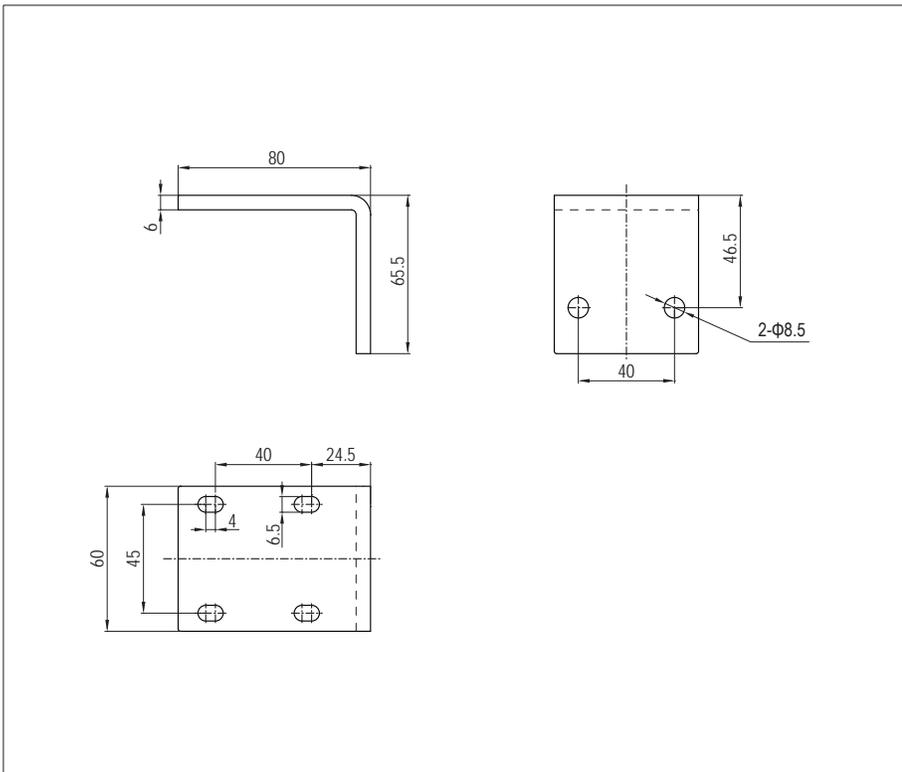


- ▶ Material: steel, black electrophoresis
- ▶ Used with BU.PN.01/A-120 pneumatic damper

Ordering reference

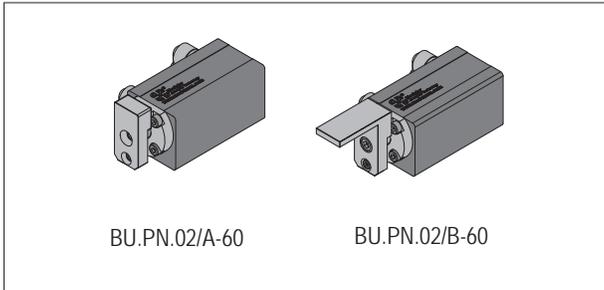
| Product description | Delivery unit | Part No. |
|---------------------|---------------|----------|
| Support             | 1             | 50805103 |

Dimension



BU.PN.02/...-60 Pneumatic Double Action Damper

 Delivery **05** Workday  
 Please contact us if order quantities more than 50pcs



Features/Benefits

1. No inverse operation allowed and to be easily and directly installed on the conveyor line or lift and transverse unit.
2. Operation noise less than 60dB. Buffer stroke is 21.5mm.
3. To be used on PTS1, PTS2 , PTS1/H conveyor or lift and transverse unit to control WP2/S, WP2/E or WP2/S.
4. BU.PN.02/A-60 damper cushions the impact of workpiece pallets when they are moves onto a main conveyor section. When the stop is open and the pallet move to the damper, the damper resets at the same time. When the pallet runs along the main conveyor section, the stopper withdraws and the pallet will pass.
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.
6. The adjusting screw at the back side of the damper is used to adjust the buffering force.

Supply mode

1. Scope of delivery

Damper with different stoppers

Fittings

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 2xHT+4xGU) (see PG 116).

BU.PN.02/B-60 pneumatic damper is directly installed on the side plate of lift and transverse unit without support, Including Fastening set (4xGU) installed on the lift and transverse unit.

| HT  | Fastening Set                   | GU  | Fastening Set                   |
|---|---------------------------------|---|---------------------------------|
|  | M8x16 Bolt<br>zinc plated       |  | M6x16 Bolt<br>zinc plated       |
|  | D8 Spring Washer<br>zinc plated |  | D6 Spring Washer<br>zinc plated |
|  | M8 T Nut<br>nickel plated       |  | M6 Washer<br>zinc plated        |

2. Delivery condition

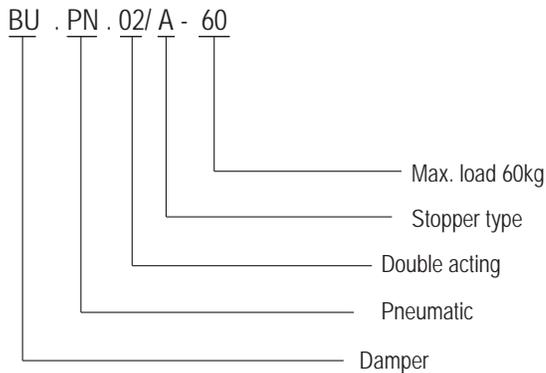
Equipped



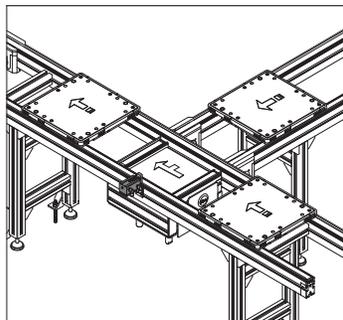
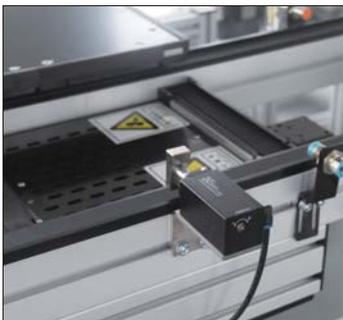
Specifications

|   |  |
|---|--|
| BU.PN.02/A-60 Part No                                 | 50809101                                       |
| BU.PN.02/B-60 Part No                                 | 50809102                                       |
| Pallet and workpiece max. mass<br>m <sub>c</sub> (kg) | 60   |
| Pallet and workpiece min. mass<br>m(kg)               | 5  |
| BU.PN.02/A-60 Mass/m(g)                               | 450  |
| BU.PN.02/B-60 Mass/m(g)                               | 470  |
| ESD   | Yes  |
| Material  | Case: aluminum alloy(black)<br>Stopper: SUS304 |
| Working temperature<br>(°C)                           | 0...60   |
| Quick connector<br>Φ6                                 | Hose, outer diameter Φ6                        |
| Pressure range<br>(Mpa)                               | 0.4-0.8 clean compressed air                   |

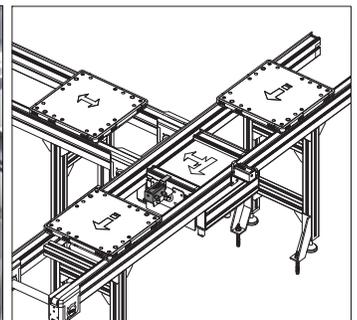
Ordering reference



Installation position



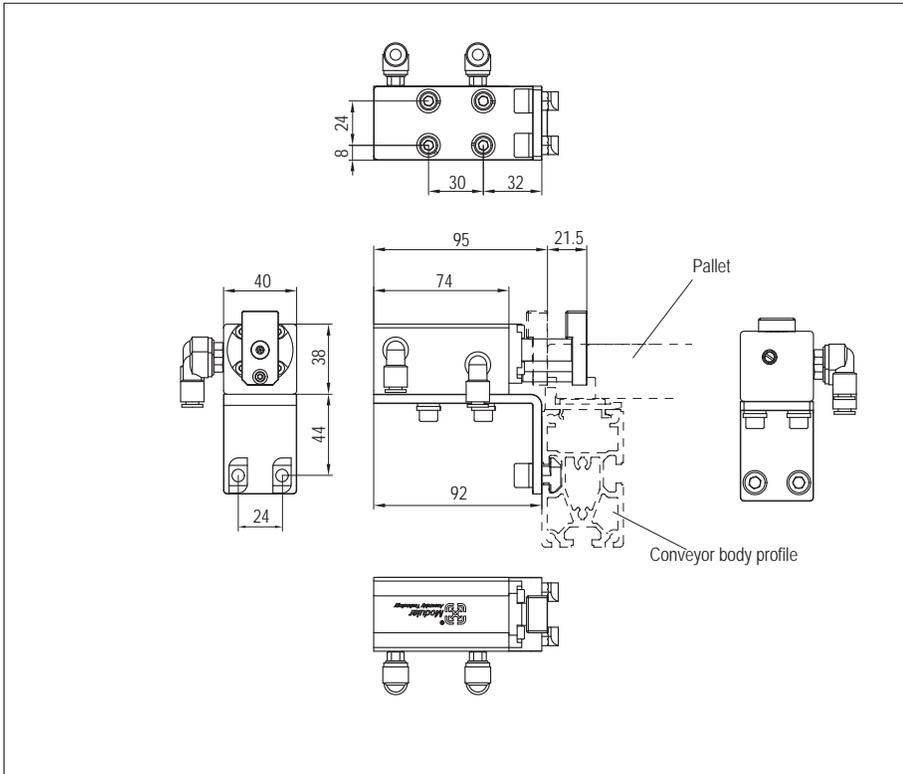
BU.PN.02/A-60 installed at the joint of the conveyor. It is used to buffer and stop the pallet infeeding or outfeeding from the main conveyor.



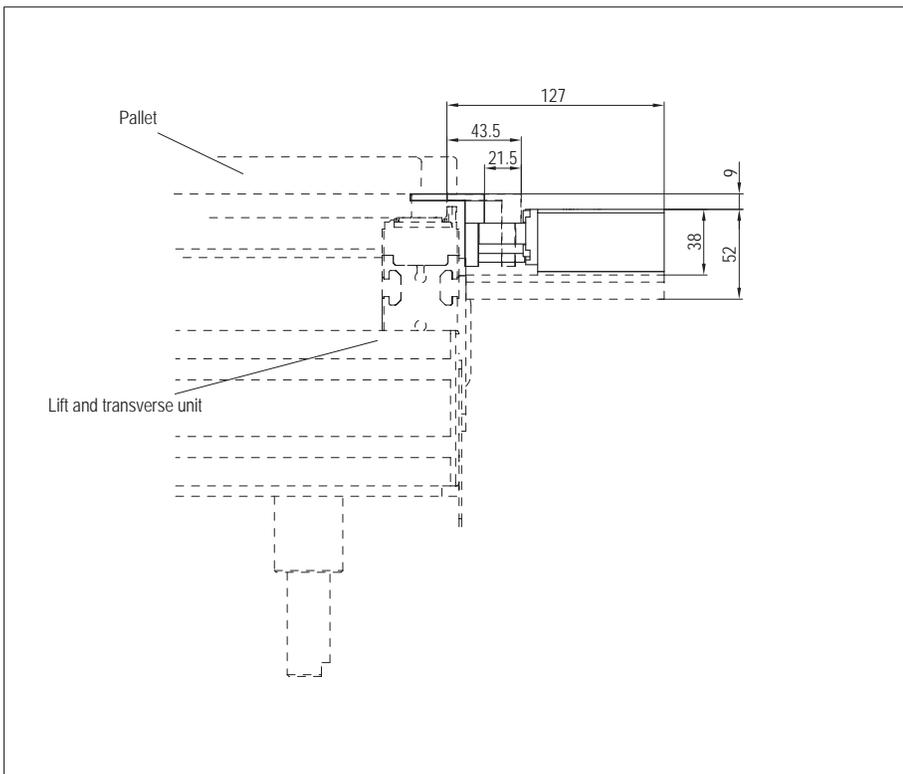
BU.PN.02/B-60 installed on the Lift and Transverse Unit(3 position)at the joint of the conveyor. It is used to buffer and stop the pallet outfeeding from the main conveyor.

Dimension

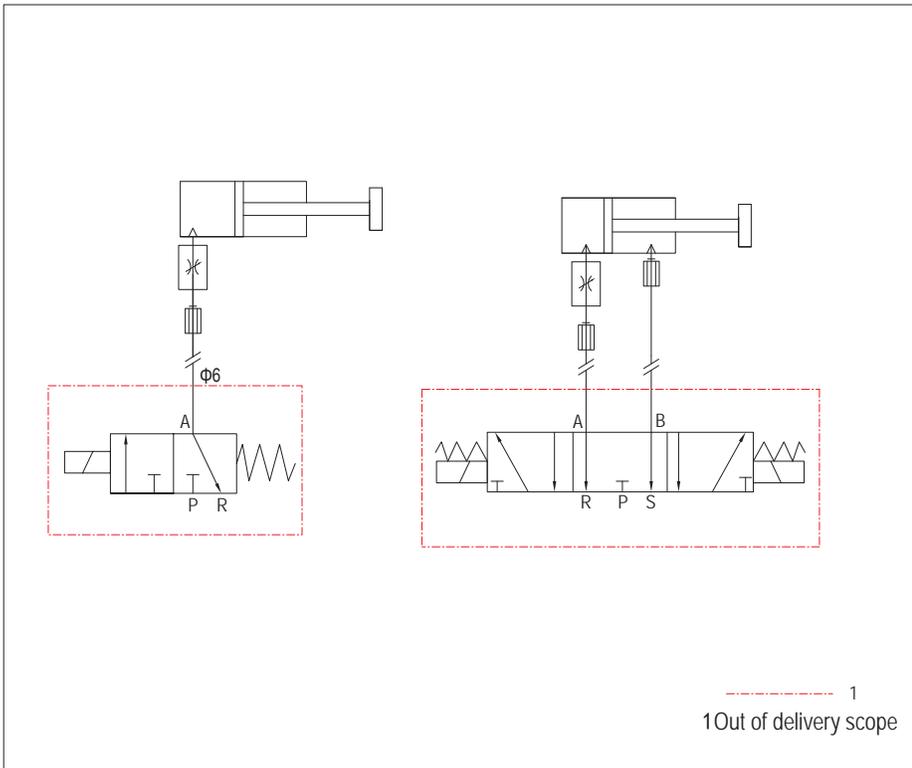
BU.PN.02/A-60 Pneumatic double action damper



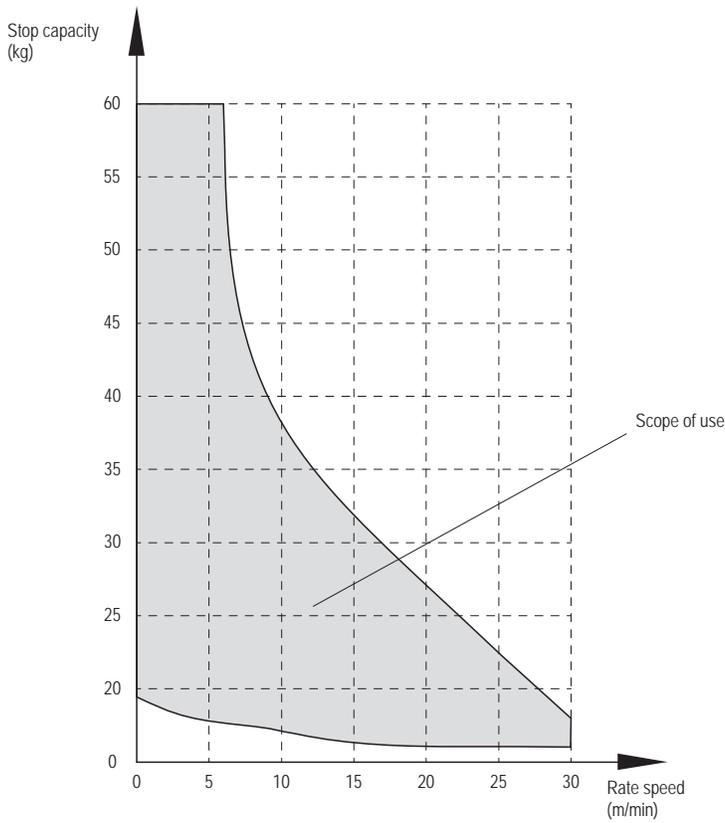
BU.PN.02/B-60 Pneumatic double action damper



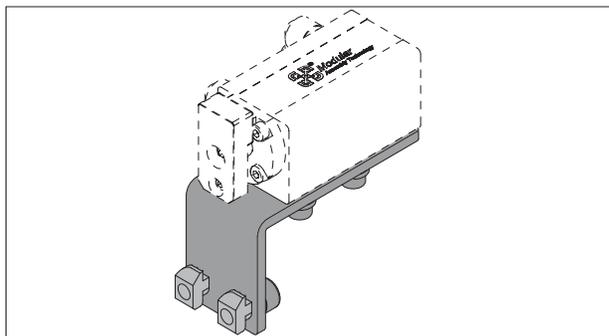
Schematic Diagram



Stop Capacity Diagram



Dimension

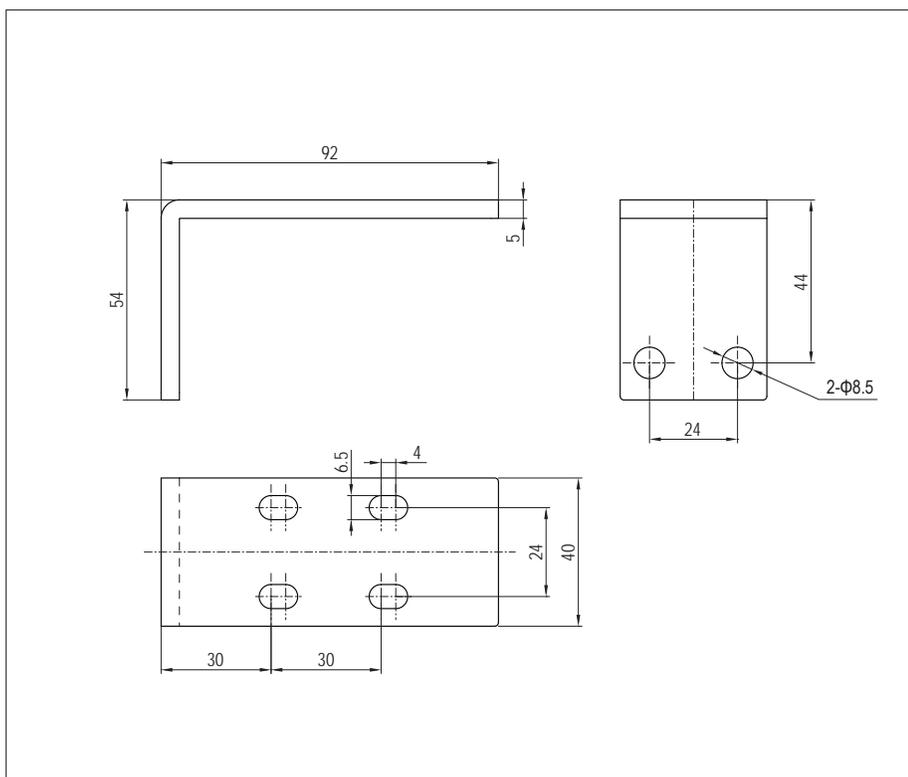


- ▶ Material: steel, black electrophoresis
- ▶ Used with BU.PN.02/A-60 pneumatic double action damper

Ordering reference

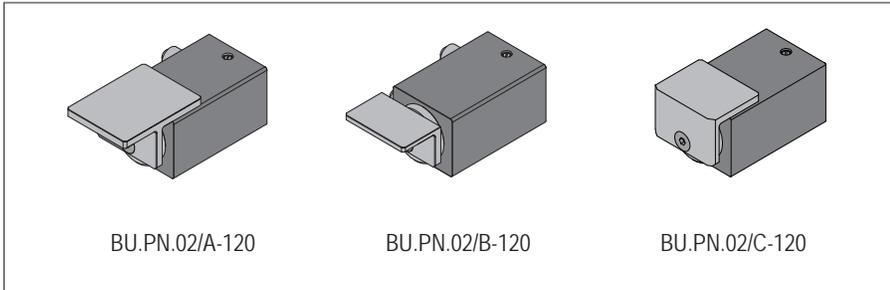
| Product description | Delivery unit | Part No. |
|---------------------|---------------|----------|
| Support             | 1             | 50809103 |

Dimension



BU.PN.02/...-120 Pneumatic Double Action Damper

 Delivery **05** Workday  
 Please contact us if order quantities more than 50pcs



Features/Benefits

- 1.No inverse operation allowed and to be easily and directly installed on the conveyor line or lift and transverse unit.
- 2.Operation noise less than 60dB. Buffer stroke is 24mm
- 3.Used on PTS1, PTS1/H, PTS2, PTS4 conveyor or lift and transverse unit to control WP2/S, WP2/E or WP2/C pallet.
- 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.When the stop is open and the pallet moves to the damper, the damper resets at the same time.When the pallet runs along the main conveyor section, the stopper withdraws and the pallet will pass.
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 and BU.PN.02/A/C-120 damper are used when the transition between main conveyor section and branch section is required.
6. The adjusting screw at the back side of the damper is used to adjust the buffering force.

Supply mode

1. Scope of delivery  
Damper with different stoppers

Fittings

BU.PN.02/A/C-120 is installed at the end of the main conveyor section with support.The support need to be ordered separately. (including fasteners 2xHT+4xGU) (see PG 121).

BU.PN.02/B-120 pneumatic damper is directly installed on the side plate of lift and transverse unit without support, Including fastening set (4xGU) installed on the lift and transverse unit.

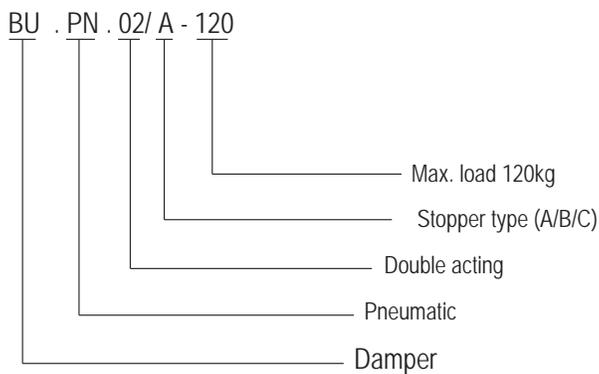
| HT  | Fastening Set                   | GU  | Fastening Set                   |
|---|---------------------------------|---|---------------------------------|
|  | M8x16 Bolt<br>zinc plated       |  | M6x16 Bolt<br>zinc plated       |
|  | D8 Spring Washer<br>zinc plated |  | D6 Spring Washer<br>zinc plated |
|  | M8 T Nut<br>nickel plated       |  | M6 Washer<br>zinc plated        |

2. Delivery condition  
Equipped

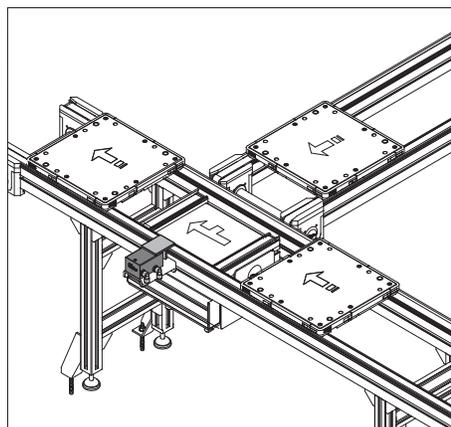
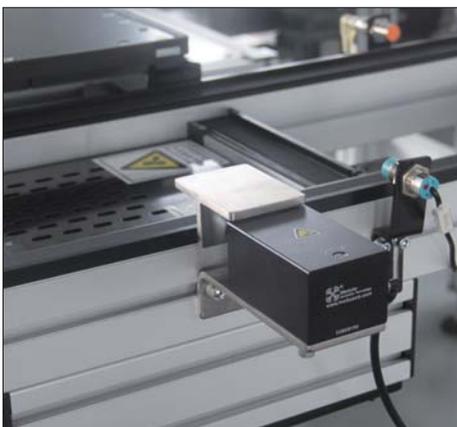
Specifications

|  |  |
|--|--|
| BU.PN.02/A-120 Part N                        | 50808101                                       |
| BU.PN.02/B-120 Part No.                      | 50808102                                       |
| BU.PN.02/C-120 Part No.                      | 50808104                                       |
| Pallet and workpiece max. mass<br>$m_c$ (kg) | 120  |
| Pallet and workpiece min. mass<br>$m$ (kg)   | 10   |
| BU.PN.02/A-120 Mass/m(g)                     | 1810   |
| BU.PN.02/B-120 Mass/m(g)                     | 1830   |
| BU.PN.02/C-120 Mass/m(g)                     | 1733   |
| ESD  | Yes  |
| Material                                     | Case: aluminum alloy(black)<br>Stopper: SUS304 |
| Working temperature<br>(°C)                  | 0...60   |
| Quick connector<br>$\Phi 6$                  | Hose, outer diameter $\Phi 6$                  |
| Pressure range<br>(Mpa)                      | 0.4-0.8 clean compressed air                   |

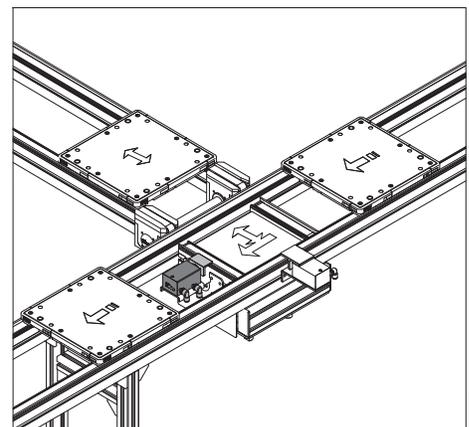
Ordering reference



Installation position



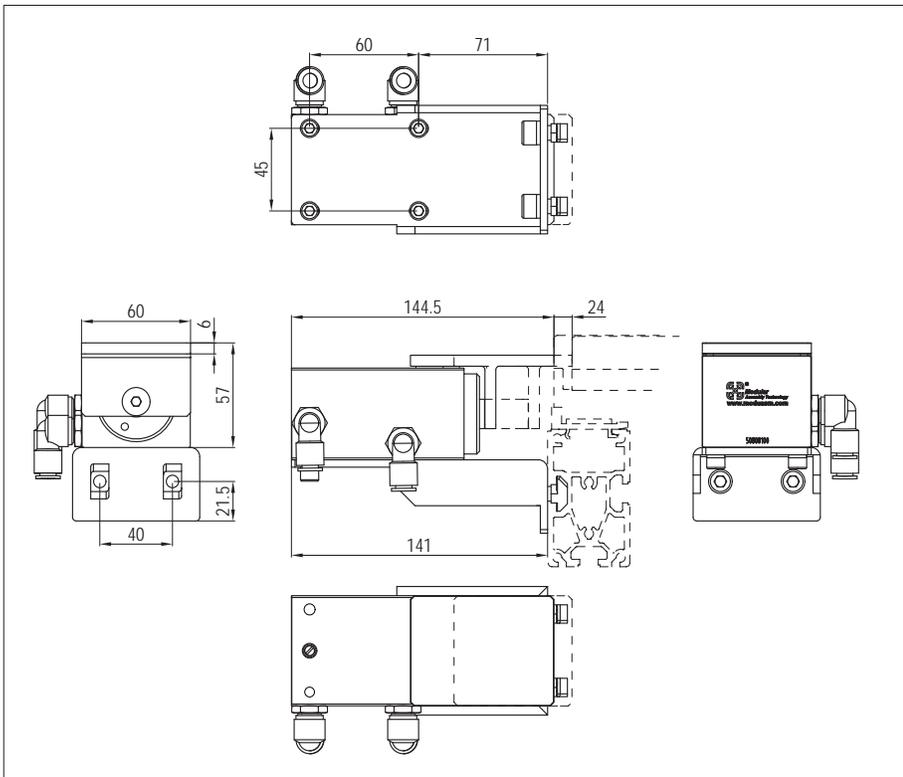
BU.PN.02/A/C-120 installed at the joint of the conveyor. It is used to buffer and stop the pallet infeeding or outfeeding from the main conveyor.



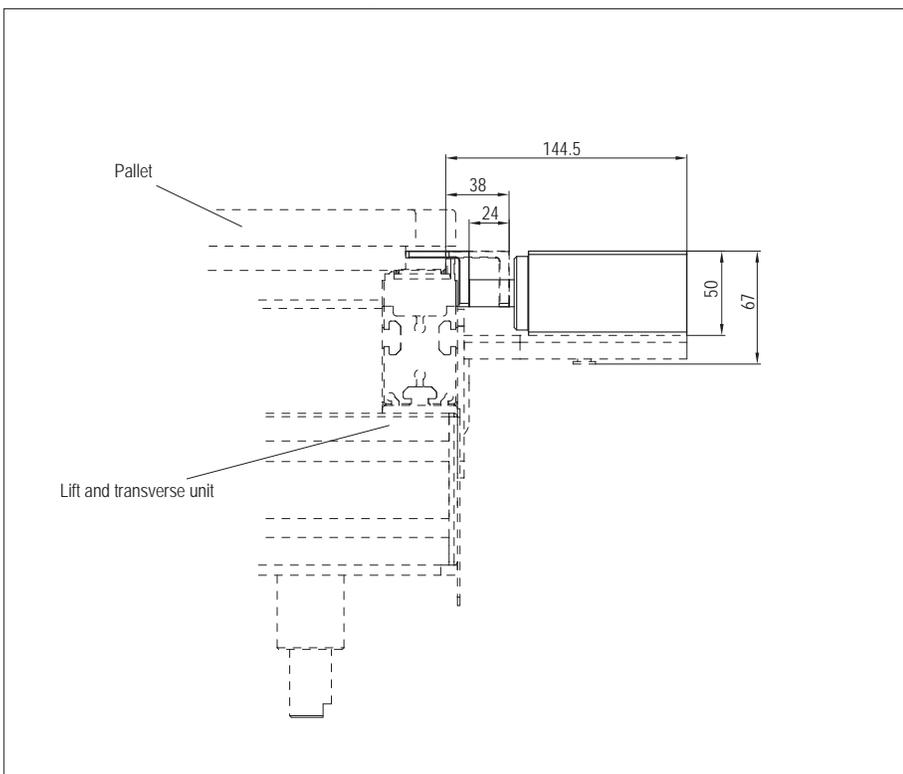
BU.PN.02/B-120 installed on the Lift and Transverse Unit(3 position) at the joint of the conveyor. It is used to buffer and stop the pallet infeeding or outfeeding from the main conveyor.

Dimension

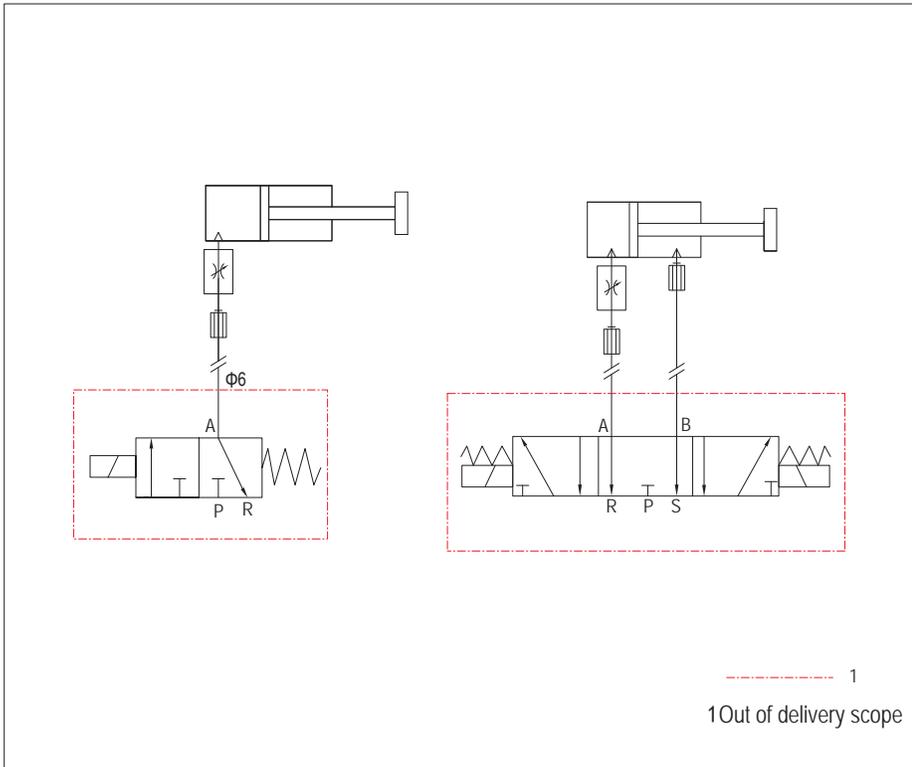
BU.PN.02/A-120 Pneumatic double action damper



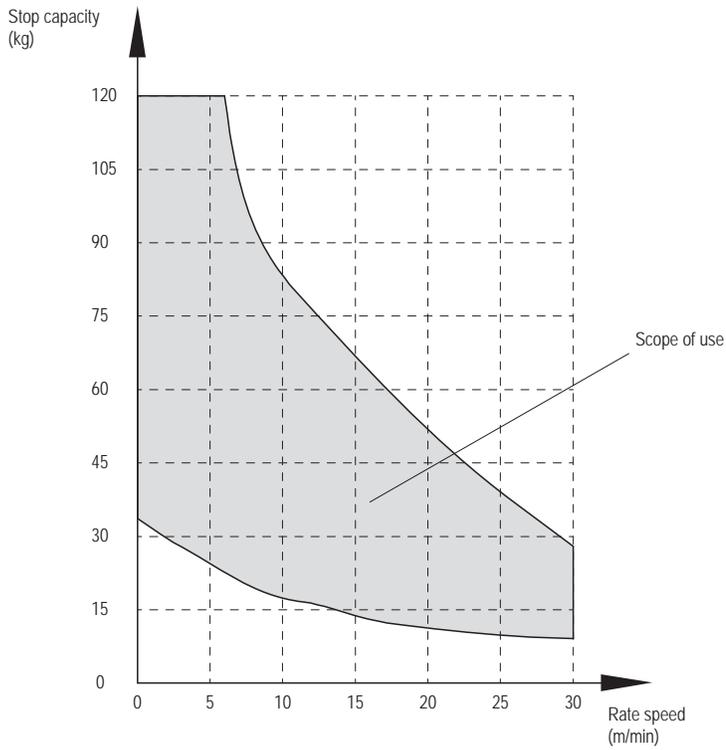
BU.PN.02/B-120 Pneumatic double action damper



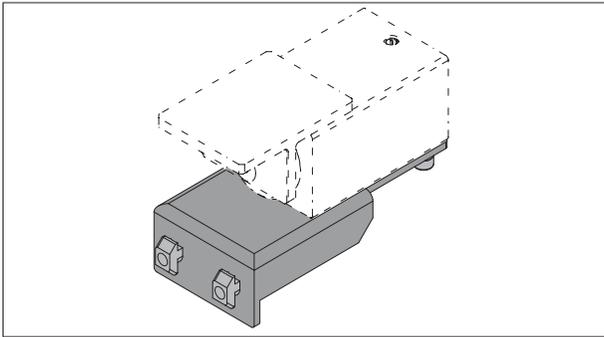
Schematic Diagram



Stop Capacity Diagram



Support

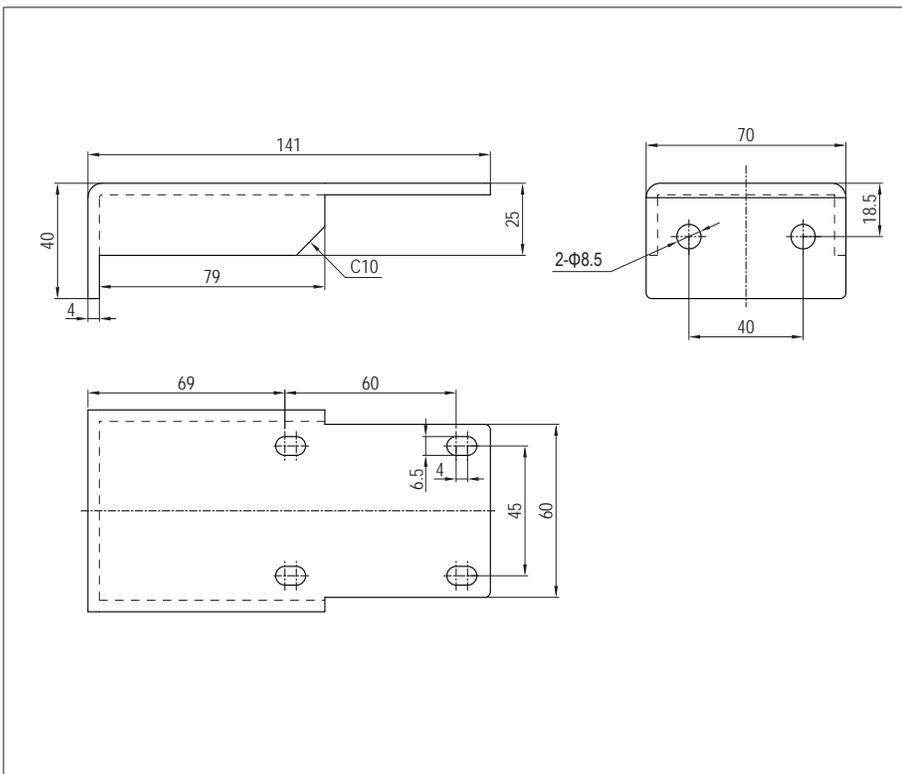


- ▶ Material: steel, black electrophoresis
- ▶ Used with BU.PN.02/A-120、 BU.PN.02/C-120 Pneumatic double action damper.

Ordering reference

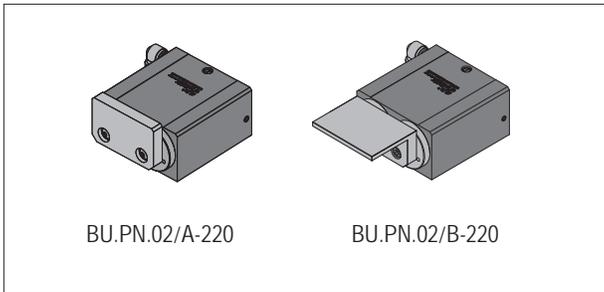
| Product description | Delivery unit | Part No. |
|---------------------|---------------|----------|
| Support             | 1             | 50808103 |

Dimension



BU.PN.02/...-220 Pneumatic Double Action Damper


 Delivery **05** Workday  
 Please contact us if order quantities more than 50pcs



Features/Benefits

1. No inverse operation allowed and to be easily and directly installed on the conveyor line or lift and transverse unit.
2. Operation noise less than 60dB. Buffer stroke is 29mm.
3. Used on PTS2, PTS4 conveyor or lift and transverse unit to control WP2/S, WP2/E or WP2/C pallet.
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. When the stop is open and the pallet moves to the damper, the damper resets at the same time. When the pallet runs along the main conveyor section, the stopper withdraws and the pallet will pass.
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.
6. The adjusting screw at the back side of the damper is used to adjust the buffering force.

Supply mode

1. Scope of delivery

Damper with different stoppers

Fittings

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 2xHT +4xGT) (see PG 128).

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

| HT  | Fastening Set                   | GU  | Fastening Set                   |
|---|---------------------------------|---|---------------------------------|
|  | M6x16 Bolt<br>zinc plated       |  | M6x16 Bolt<br>zinc plated       |
|  | D8 Spring Washer<br>zinc plated |  | D6 Spring Washer<br>zinc plated |
|  | M6 T Nut<br>nickel plated       |  | M6 Washer<br>zinc plated        |

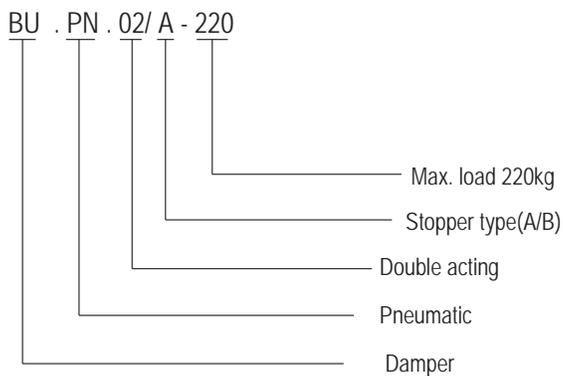
2. Supply mode  
Equipped



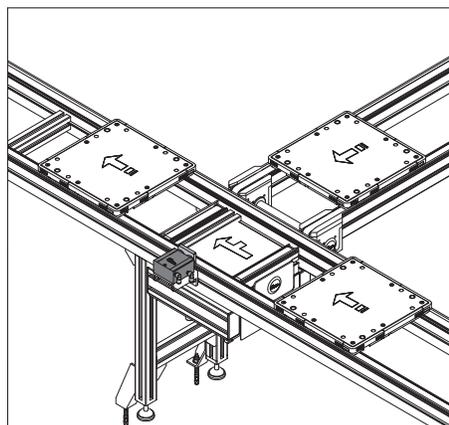
Specifications

|   |  |
|---|--|
| BU.PN.02/A-220 Part No.                               | 50807101                                       |
| BU.PN.02/B-220 Part No.                               | 50807102                                       |
| Pallet and workpiece max. mass<br>m <sub>c</sub> (kg) | 220  |
| Pallet and workpiece min. mass<br>m(kg)               | 35   |
| BU.PN.02/A-220 Mass/m(g)                              | 1030   |
| BU.PN.02/B-220 Mass/m(g)                              | 1060   |
| ESD   | Yes  |
| Material  | Case: aluminum alloy(black)<br>Stopper: SUS304 |
| Working temperature<br>(°C)                           | 0...60   |
| Quick connector<br>Φ6                                 | Hose, outer diameter Φ6                        |
| Pressure range<br>(Mpa)                               | 0.4-0.8 clean compressed air                   |

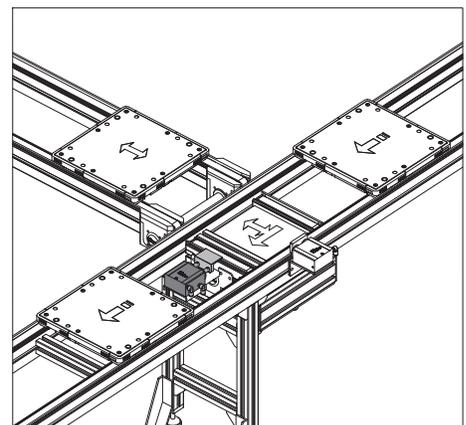
Ordering reference



Installation position



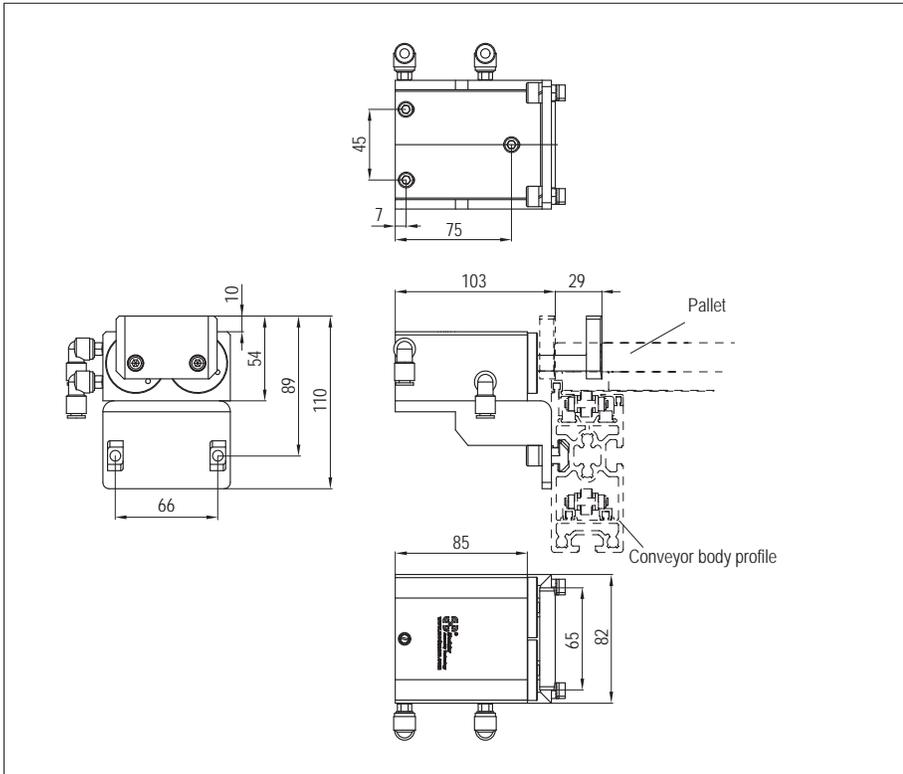
BU.PN.02/A-220 installed at the joint of the conveyor. It is used to buffer and stop the pallet infeeding or outfeeding from the main conveyor.



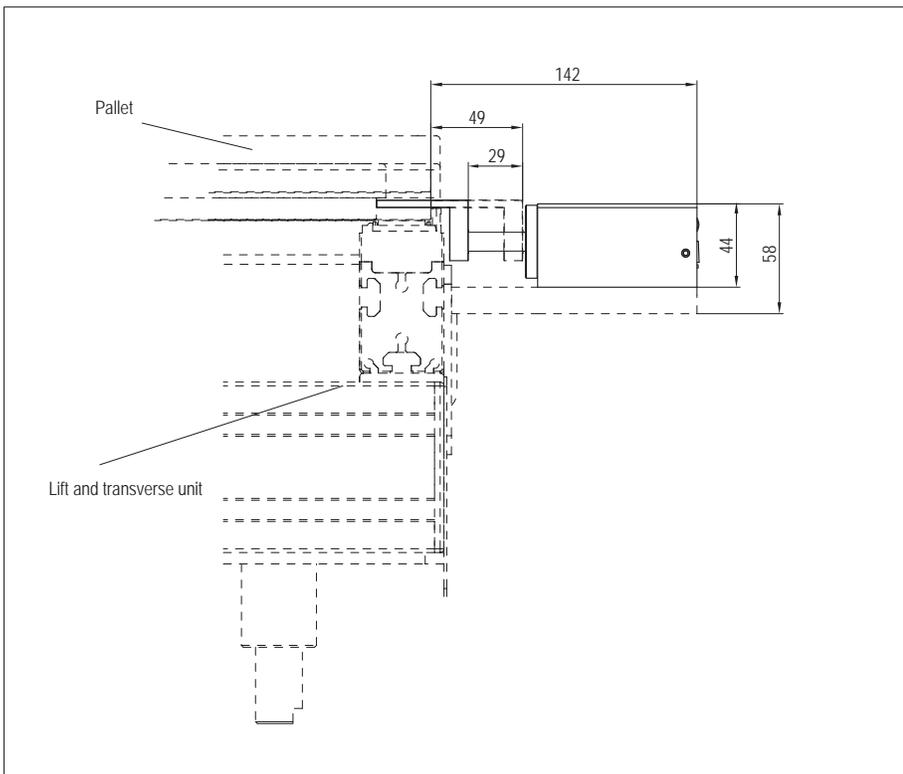
BU.PN.02/B-220 installed on the Lift and Transverse Unit(3 position) at the joint of the conveyor. It is used to buffer and stop the pallet infeeding or outfeeding from the main conveyor.

Dimension

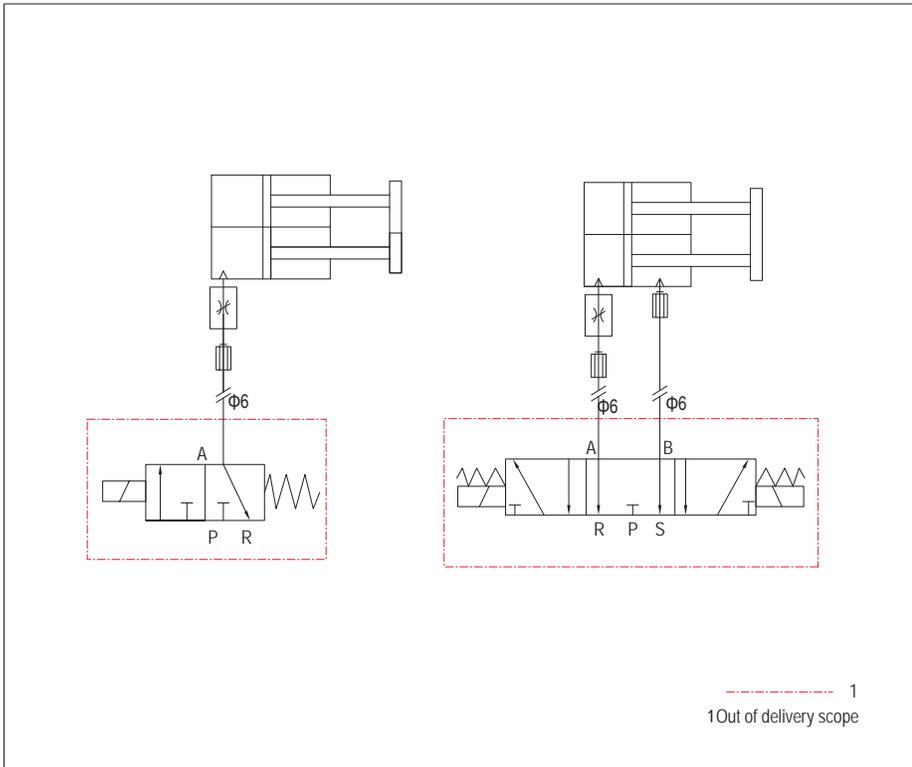
BU.PN.02/A-220 Pneumatic double action damper



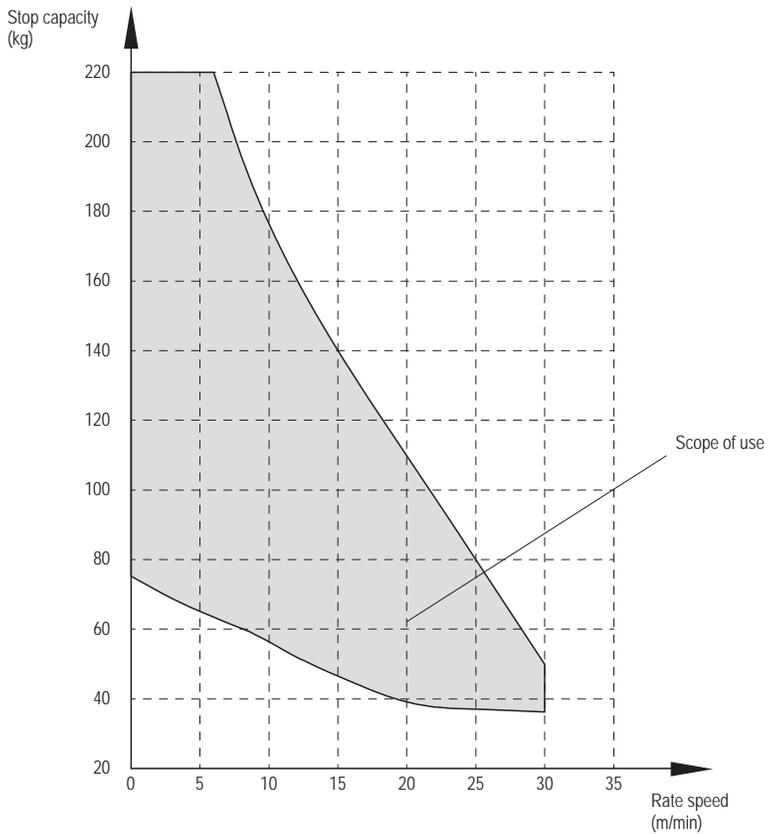
BU.PN.02/B-220 Pneumatic double action damper



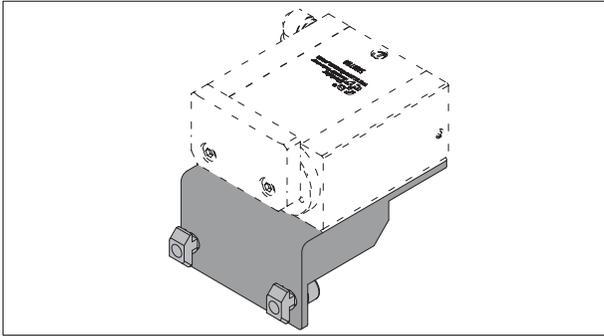
Schematic Diagram



Stop Capacity Diagram



Support

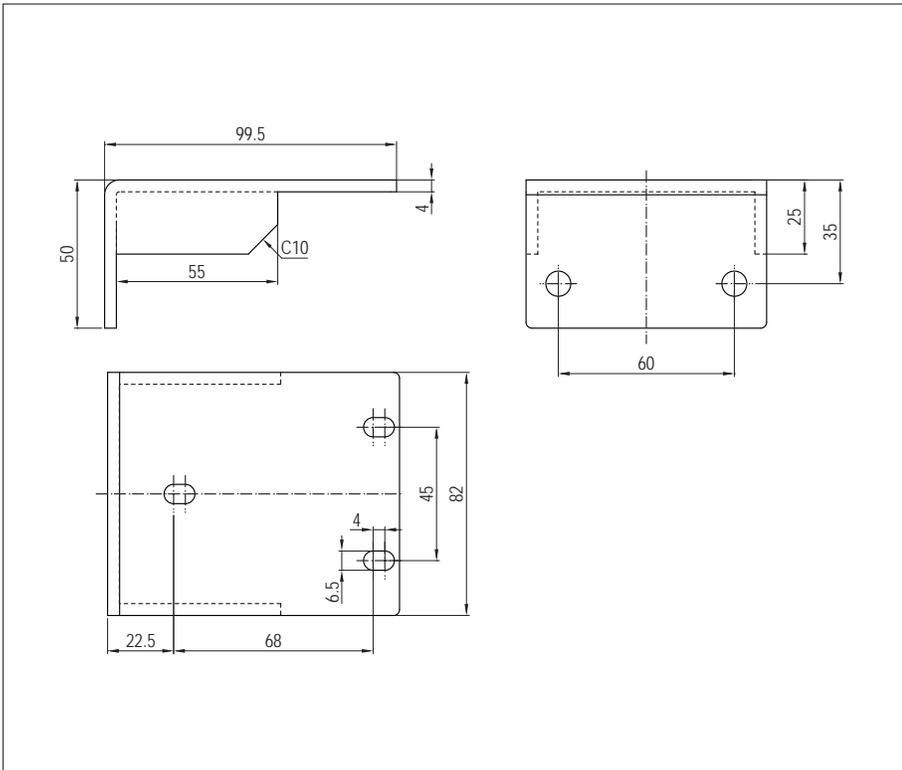


- ▶ Material: steel, black electrophoresis
- ▶ Used with BU.PN.02/A-220 pneumatic double action damper

Ordering reference

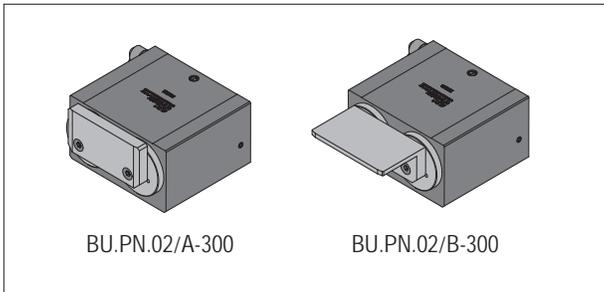
| Product description | Delivery unit | Part No. |
|---------------------|---------------|----------|
| Support             | 1             | 50807103 |

Dimension



BU.PN.02/...-300 Pneumatic Double Action Damper

 Delivery **05** Workday  
 Please contact us if order quantities more than 50pcs



Features/Benefits

1. No inverse operation allowed and to be easily and directly installed on the conveyor line or lift and transverse unit.
2. Operation noise less than 60dB. Buffer stroke is 24mm.
3. Used on PTS2, PTS4 conveyor or lift and transverse unit to control WP2/S, WP2/E or WP2/C pallet.
4. BU.PN.02/A-300 pneumatic double action damper cushions the impact of workpiece pallets when they are moved onto a main conveyor section. When the stop is open and the pallet moves to the damper, the damper resets at the same time. When the pallet runs along the main conveyor section, the stopper withdraws and the pallet will pass.
5. BU.PN.02/B-300 pneumatic double action damper is suitable to be used on lift and transverse unit. It is used when the transition between main conveyor section and branch section is required.
6. The adjusting screw at the back side of the damper is used to adjust the buffering force.

Supply mode

1. Scope of delivery  
 Damper with different stoppers  
 Fittings  
 BU.PN.02/A-300 is installed at the end of the main conveyor section with support. The support need to be ordered separately (including fasteners 6xHT +3xEX) (see PG 133).  
 BU.PN.02/B-300 pneumatic damper is directly installed on the side plate of lift and transverse unit without support, Including fastening set (3xEX) installed on the lift and transverse unit.

| HT  | Fastening Set                   | EX  | Fastening Set                    |
|---|---------------------------------|---|----------------------------------|
|  | M8x16 Bolt<br>zinc plated       |  | M10x12 Bolt<br>zinc plated       |
|  | D8 Spring Washer<br>zinc plated |  | M10 Spring Washer<br>zinc plated |
|  | M8 T Nut<br>nickel plated       |  | M10 Washer<br>zinc plated        |

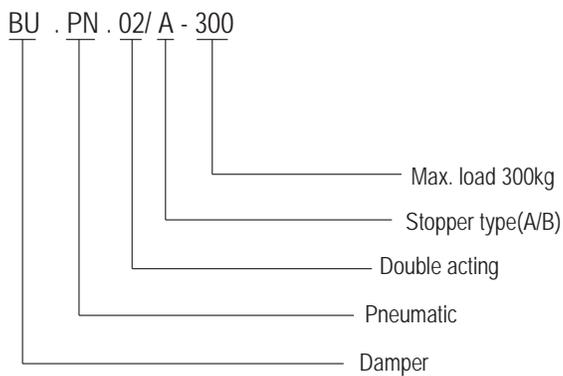
2. Supply mode  
Equipped



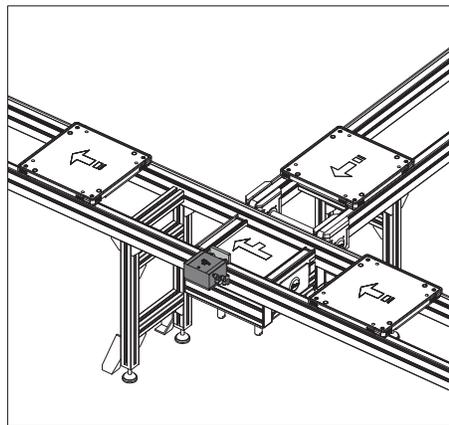
Specifications

|  |  |
|--|--|
| BU.PN.02/A-300 Part No.                      | 50812101                                       |
| BU.PN.02/B-300 Part No.                      | 50812102                                       |
| Pallet and workpiece max. mass<br>$m_c$ (kg) | 300  |
| Pallet and workpiece min. mass<br>$m$ (kg)   | 20   |
| BU.PN.02/A-300 Mass/m(g)                     | 2400   |
| BU.PN.02/B-300 Mass/m(g)                     | 2460   |
| ESD  | Yes  |
| Material                                     | Case: aluminum alloy(black)<br>Stopper: SUS304 |
| Working temperature<br>(°C)                  | 0...60   |
| Quick connector<br>$\Phi 6$                  | Hose, outer diameter $\Phi 6$                  |
| Pressure range<br>(Mpa)                      | 0.4~0.8 clean compressed air                   |

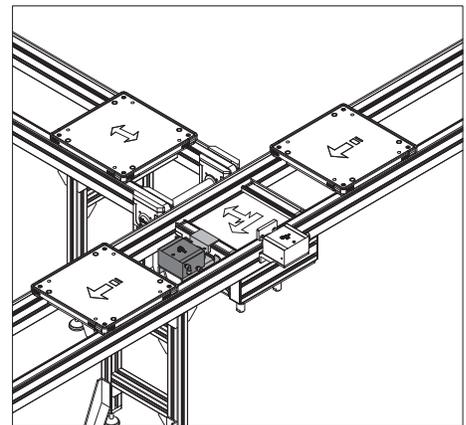
Ordering reference



Installation position



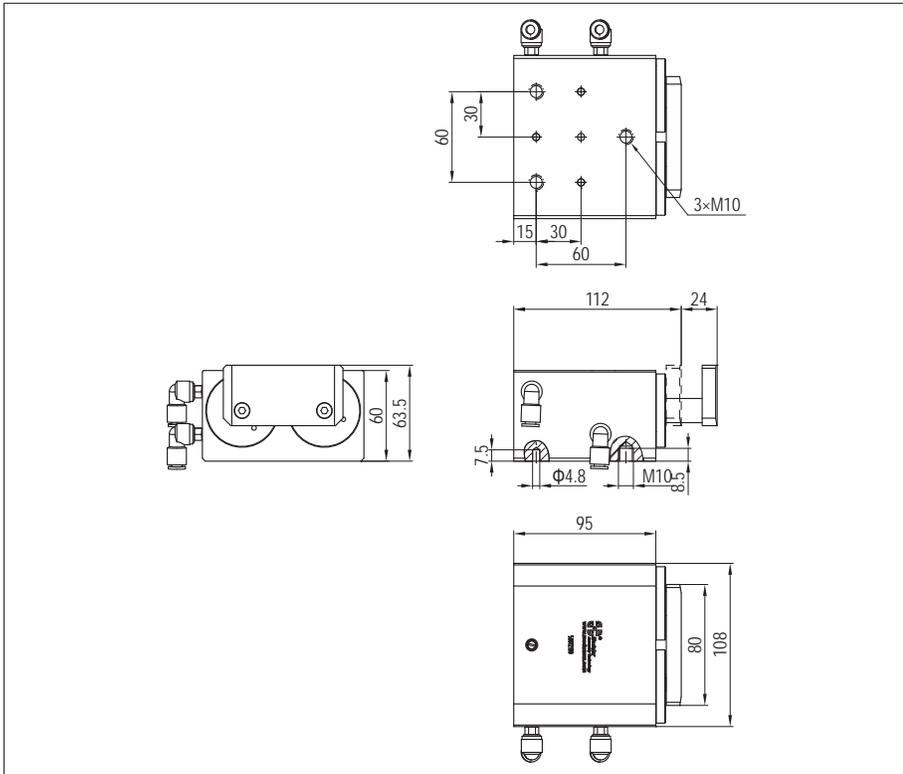
BU.PN.02/A-300 installed at the joint of the conveyor. It is used to buffer and stop the pallet infeeding or outfeeding from the main conveyor.



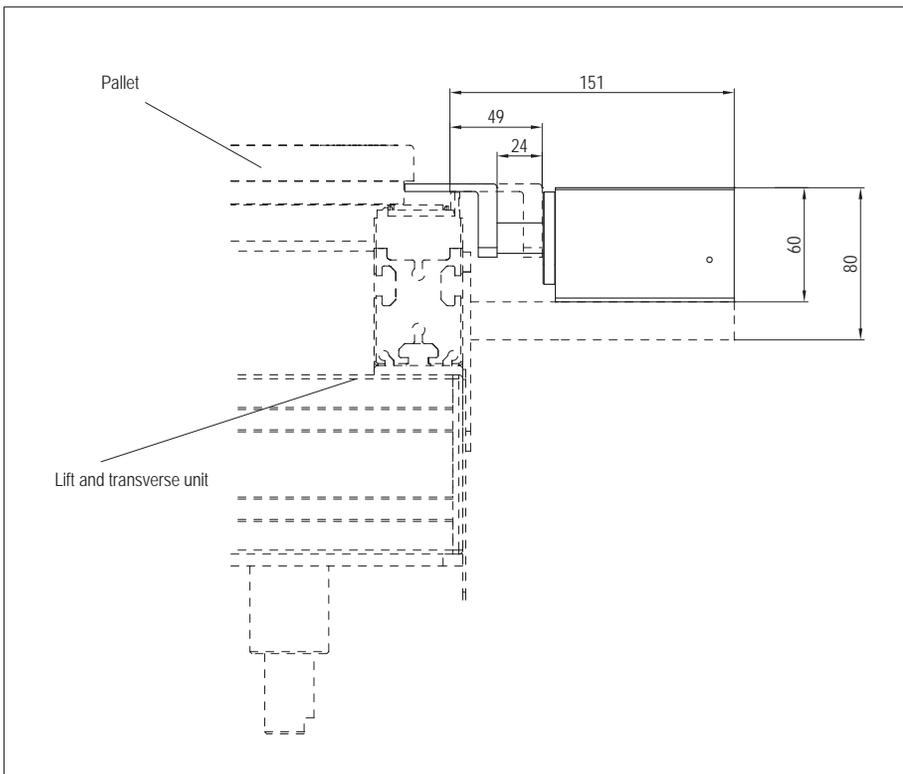
BU.PN.02/B-300 installed on the Lift and Transverse Unit(3 position) at the joint of the conveyor. It is used to buffer and stop the pallet infeeding or outfeeding from the main conveyor.

Dimension

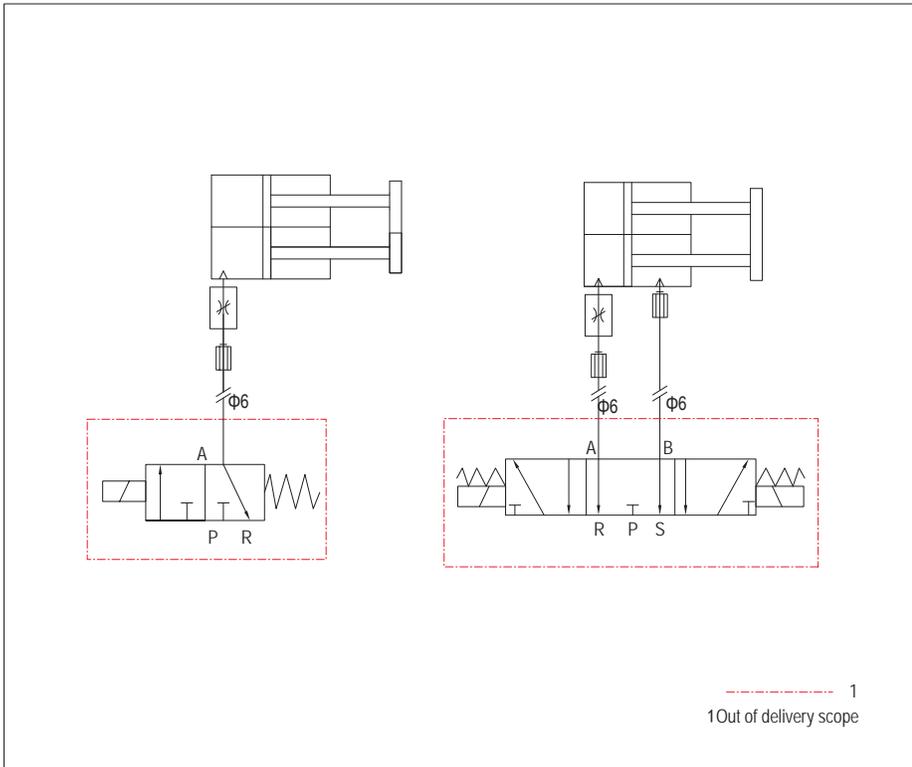
BU.PN.02/A-300 Pneumatic double action damper



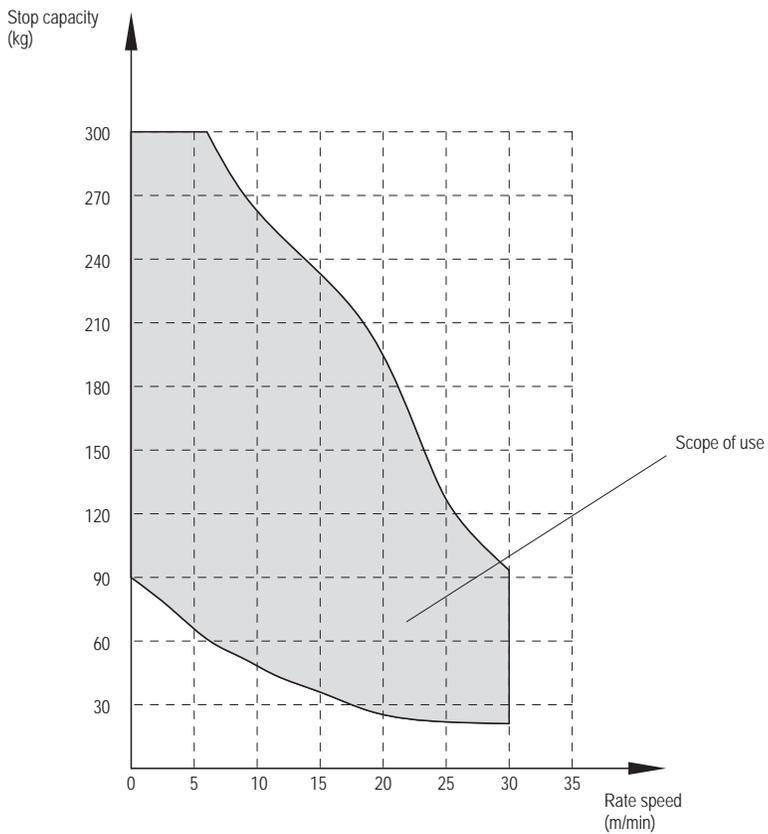
BU.PN.02/B-300 Pneumatic double action damper



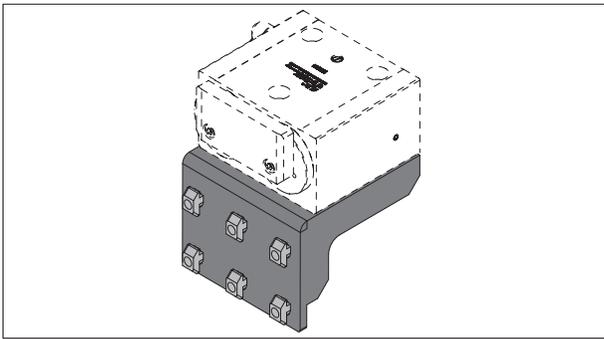
Schematic Diagram



Stop Capacity Diagram



Support

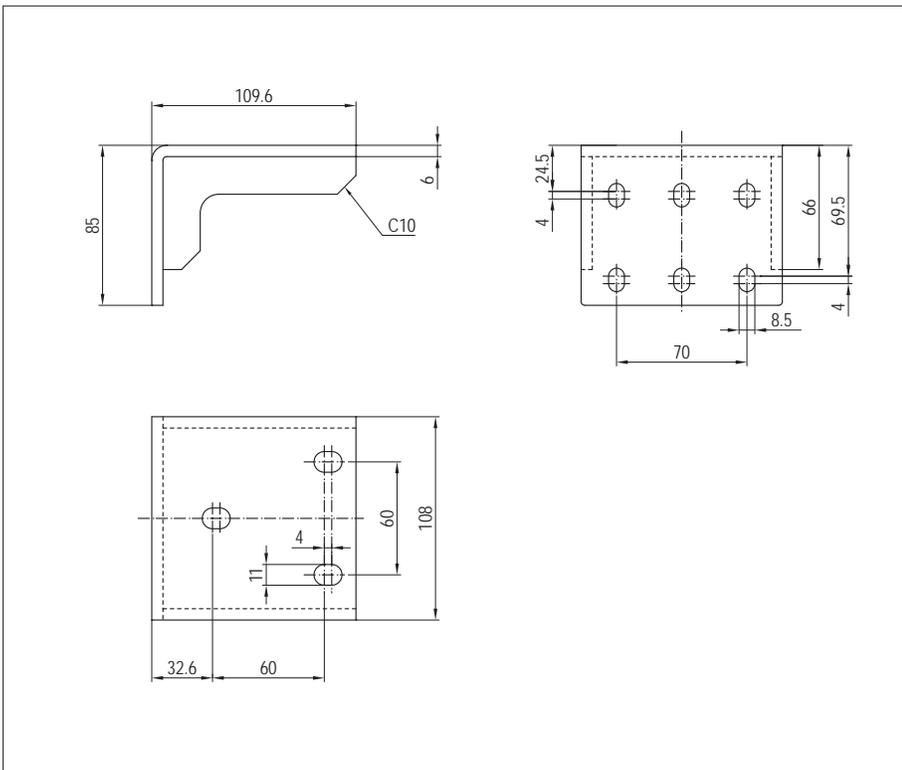


- ▶ Material: steel, black electrophoresis
- ▶ Used with BU.PN.02/A-300 pneumatic double action damper.

Ordering reference

| Product description | Delivery unit | Part No. |
|---------------------|---------------|----------|
| Support             | 1             | 50812103 |

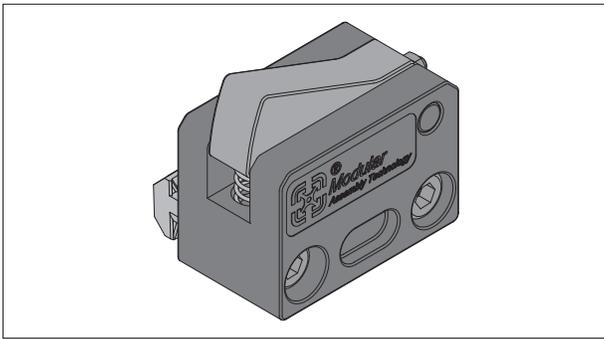
Dimension



RS.01/A-150 Return Stop


 Delivery **05** Workday


Please contact us if order quantities more than 50pcs



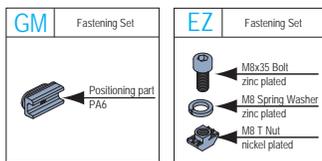
### Features/Benefits

1. Return stop is used to prevent the pallet from returning back due to bounce from pneumatic stop and to avoid the pallet run reversely.

### Supply mode

1. Scope of delivery

Including all fastening sets required to install on the conveyor body(2xEZ+1xGM)

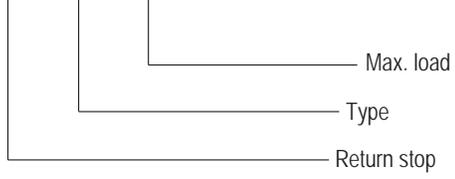


### Specifications

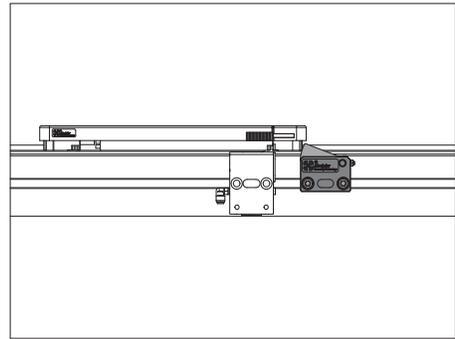
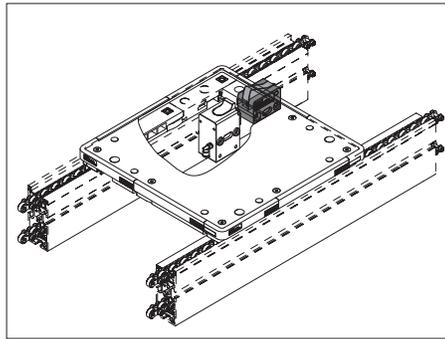
|                                     |  |
|-------------------------------------|--|
| Part No.                            | 50803110   |
| Pallet and workpiece mass<br>MG(kg) | 3...150  |
| Mass<br>m(g)                        | 640  |
| ESD                                 | Yes  |
| Material                            | Case: nickel plated carbon steel<br>Stop block: nickel plated carbon steel |
| Working temperature<br>(°C)         | 0...60   |

Ordering reference

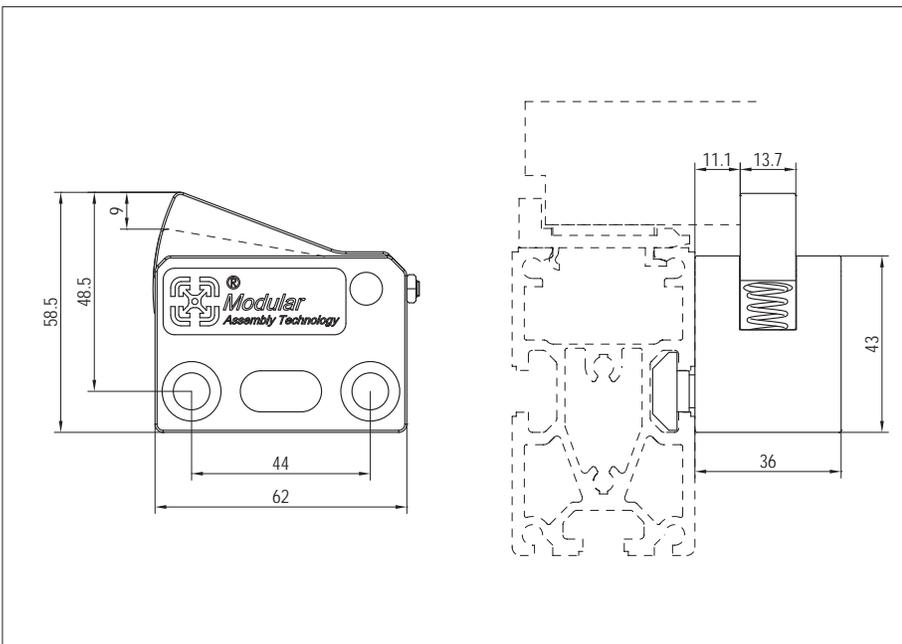
RS . 01/ A - 150



Installation position

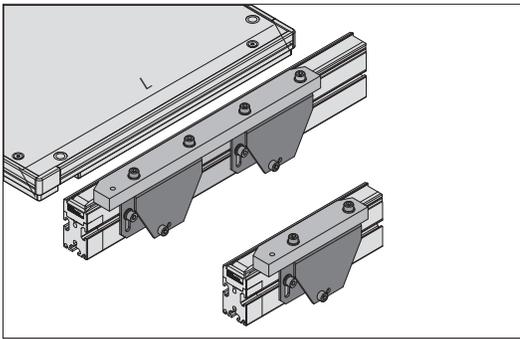


Dimension



Damping Stopper


 Delivery **05** Workday  
 Please contact us if order quantities more than 50pcs



Combined damping stopper for  $L \geq 480$ .

Independent damping stopper for  $L < 480$ .

Features/Benefits

1. It is mounted on the outside or the end of conveyor line, as a stop for pallet.
2. To be used on PTS1, PTS1/H, PTS2 pallet conveyor to stop WP2/S, WP2/E, WP2/C pallet.

Supply mode

1. Scope of delivery

Including all fastening sets to mount on pallet conveyor

| HT  | Fastening Set                   |
|---|---------------------------------|
|  | M8x16 Bolt<br>zinc plated       |
|  | D8 Spring Washer<br>zinc plated |
|  | M8 T Nut<br>nickel plated       |

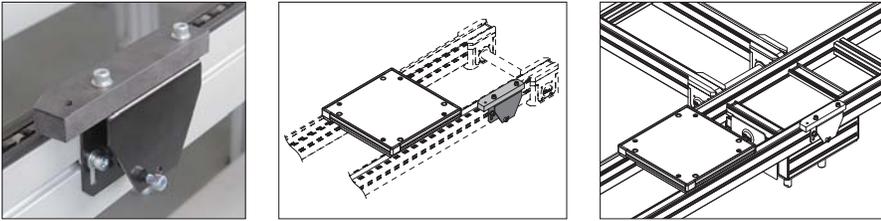
2. Supply mode  
Equipped

Specifications

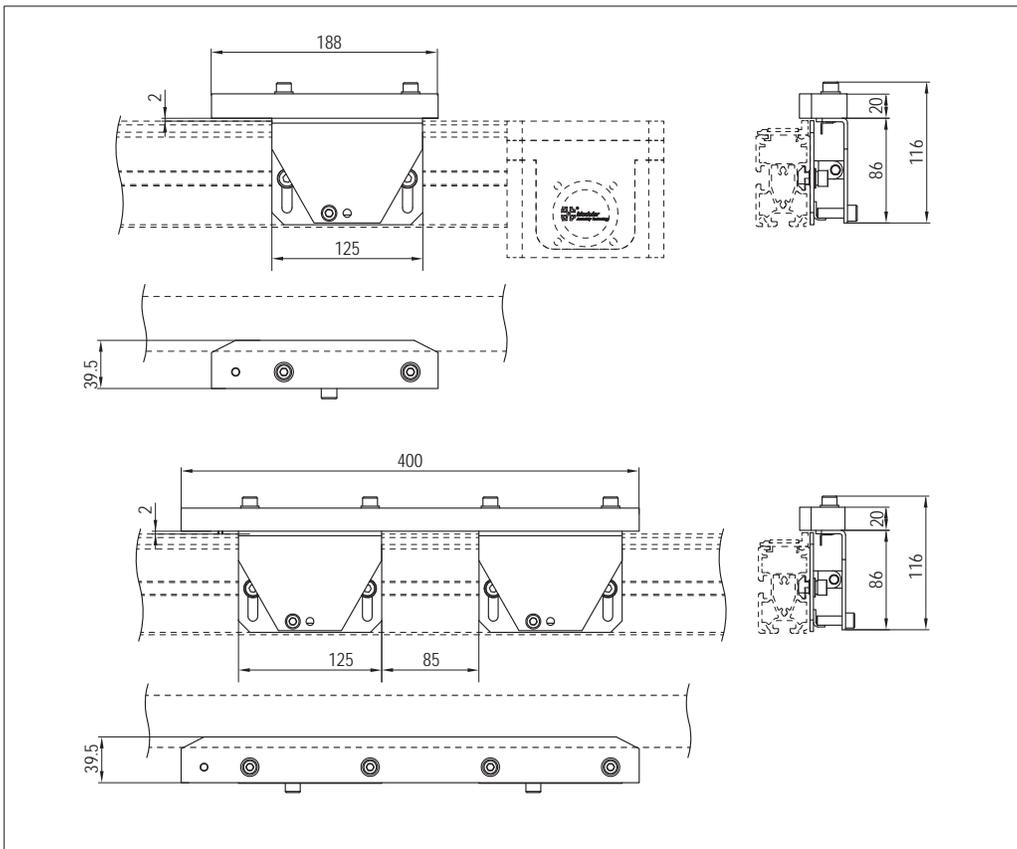
|   |          |
|---|----------|
| Part No. for independent damping stopper                  | 50810100 |
| Part No. for combined damping stopper                     | 50810200 |
| Pallet max.mass for independent damping stopper<br>MG(kg) | 30       |
| Pallet min.mass for independent damping stopper<br>m(kg)  | 2        |



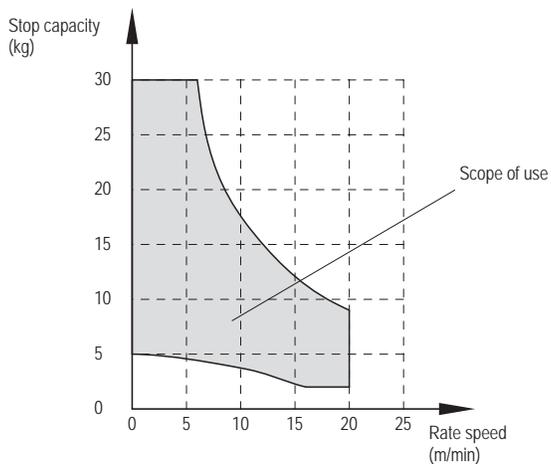
Installation position



Dimension

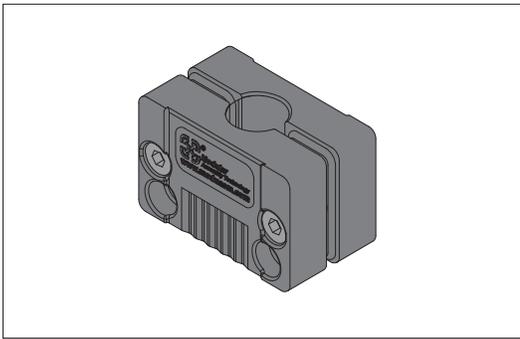


Stop Capacity Diagram



Sensor Bracket Unit for Stop

 Delivery **05** Workday  
 Please contact us if order quantities more than 50pcs



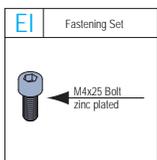
Features/Benefits

1. It is used to fix the sensor(M12x1).
2. Used with pneumatic stop 50801100/Pneumatic damper stop 50802100.
3. Used with sensor for inquiry of workpiece pallet location from below.

Supply mode

1. Scope of delivery

Including all fastening sets to mount on pallet conveyor(2×E1).



2. Supply mode

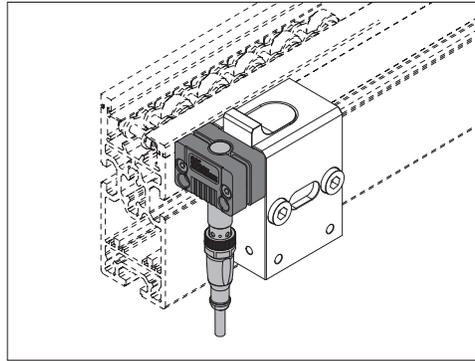
Not equipped

Specifications

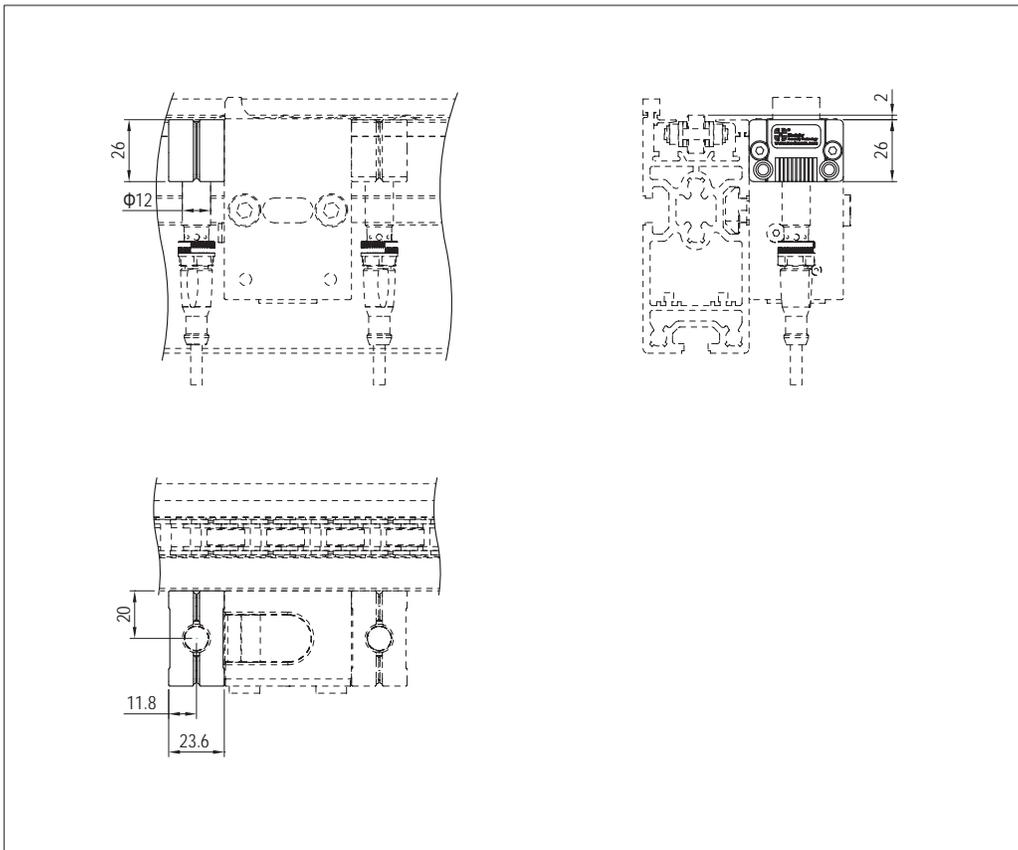
|   |           |
|---|-----------|
| Part No. for sensor bracket unit for stop | 50821101  |
| Material                                  | PA6 Black |
| Delivery unit                             | 1         |



Installation position

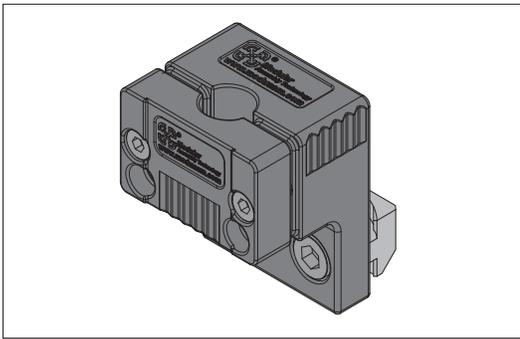


Dimension



Sensor Bracket Unit on Inner Side of Conveyor Frame

 Delivery **05** Workday  
 Please contact us if order quantities more than 50pcs

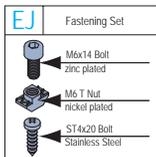


Features/Benefits

1. It is used to fix the sensor(M12x1).
2. To be installed in the inner slot of conveyor frame.
3. Used with sensor for inquiry of workpiece pallet location from below.

Supply mode

1. Scope of delivery  
Including all fastening sets to mount on pallet conveyor(2xEJ).



2. Supply mode

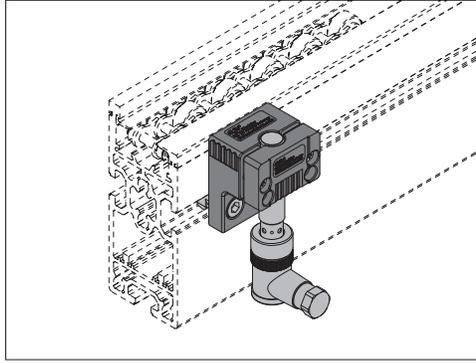
Not equipped

Specifications

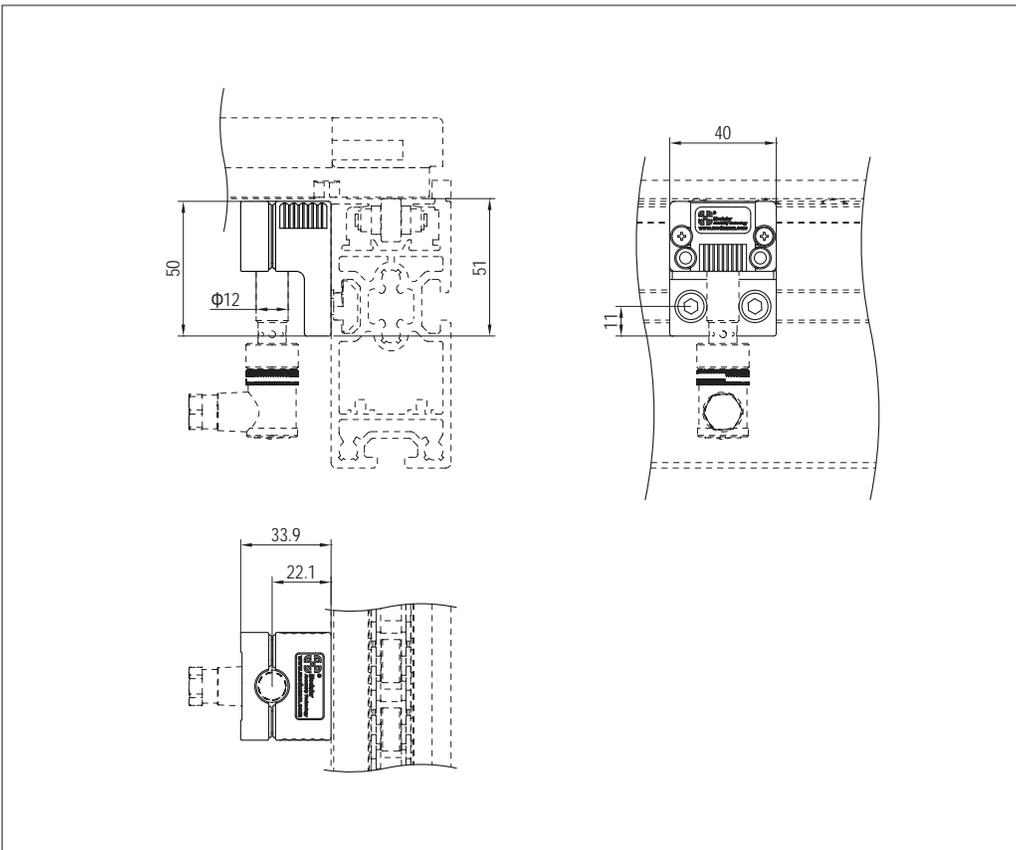
|   |           |
|---|-----------|
| Part No. for sensor bracket unit for stop on inner side of conveyor frame | 50821102  |
| Material  | PA6 Black |
| Delivery unit   | 1         |



Installation position

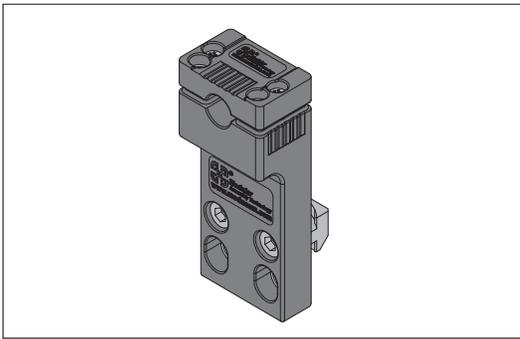


Dimension



Sensor Bracket Unit on Outer Side of Conveyor Frame


 Delivery **05** Workday  
 Please contact us if order quantities more than 50pcs



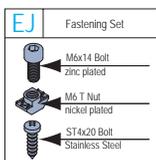
Features/Benefits

1. It is used to fix the sensor(M12x1).
2. To be installed in the outer slot of conveyor frame.
3. Used with sensor for inquiry of workpiece pallet location from below.

Supply mode

1. Scope of delivery

Including all fastening sets to mount on pallet conveyor(2xEJ).



2. Supply mode

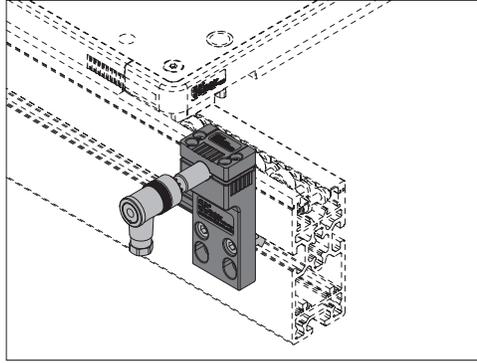
Not equipped

Specifications

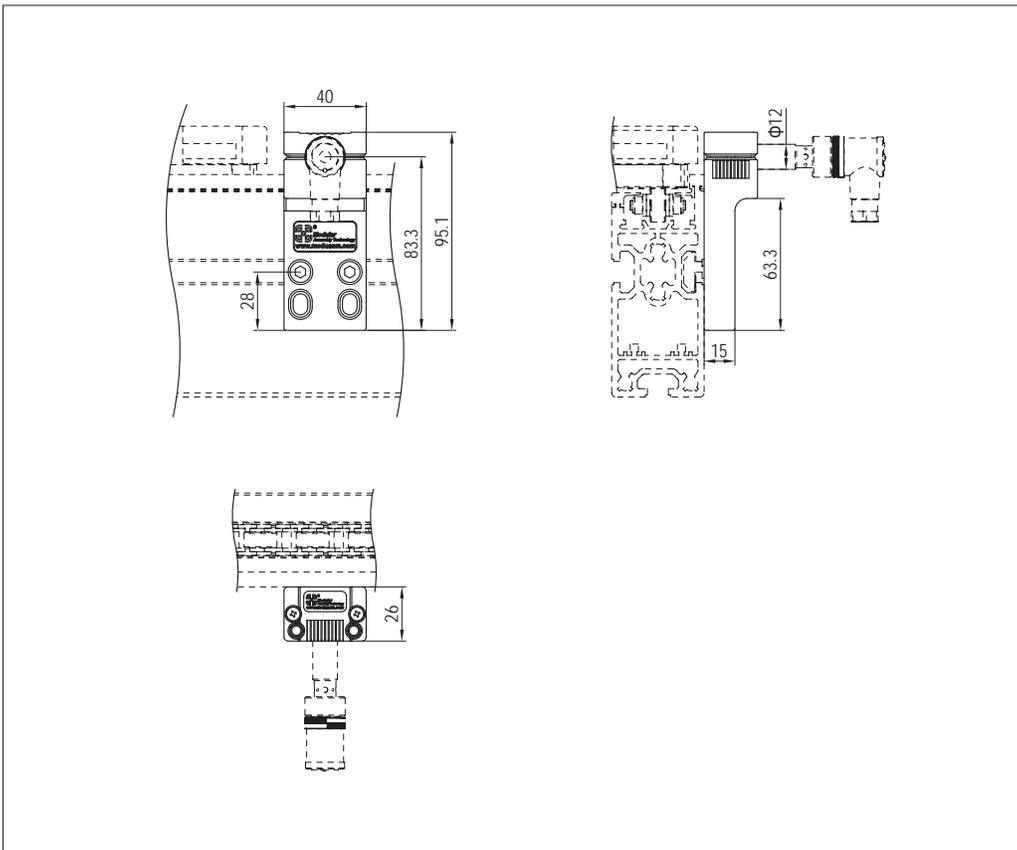
|  |           |
|--|-----------|
| Part No. for Sensor Bracket Unit on outer side of conveyor frame | 50821103  |
| Material   | PA6 Black |
| Delivery unit  | 1         |



Installation position

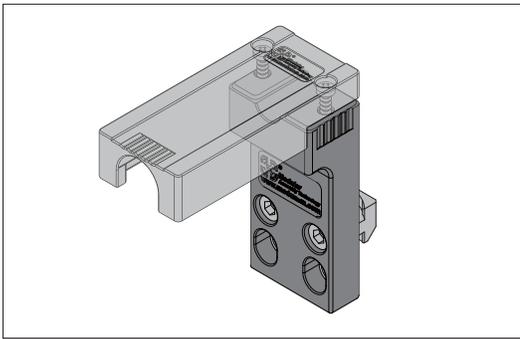


Dimension



Sensor Bracket Unit on Outer Side of Conveyor Frame(Sensor&Cable Protection)

 Delivery **05** Workday  
 Please contact us if order quantities more than 50pcs



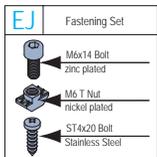
Features/Benefits

1. It is used to fix the sensor(M12x1).
2. To be installed in the inner slot of conveyor frame.
3. Used with sensor for inquiry of workpiece pallet location from below.
4. With block to protect the sensor and cable

Supply mode

1. Scope of delivery

Including all fastening sets to mount on pallet conveyor(2xEJ).



2. Supply mode

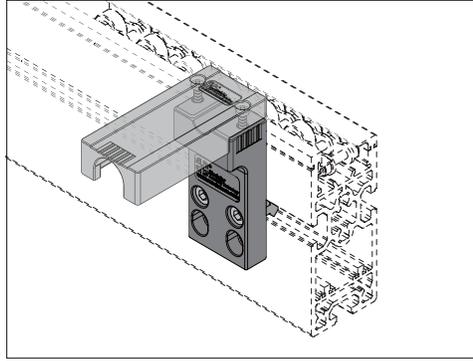
Not equipped

Specifications

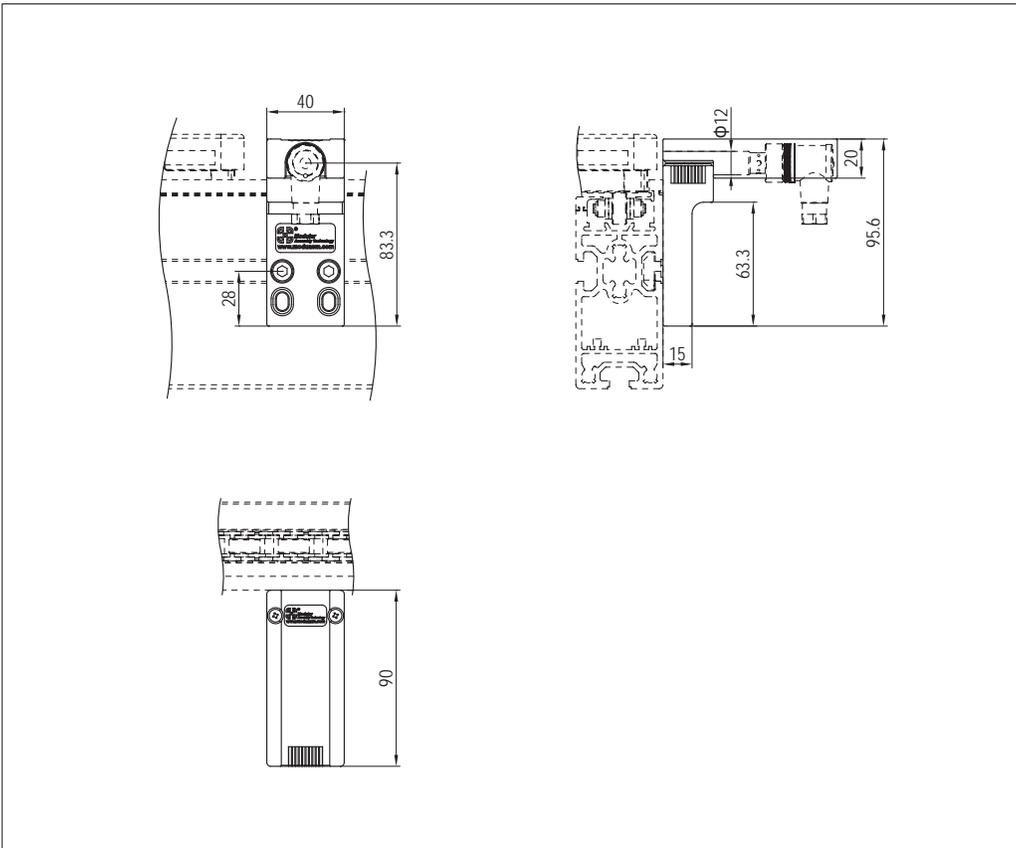
|   |   |
|---|---|
| Part No. for Sensor Bracket Unit on outer side of conveyor frame(Sensor&Cable Protection) | 50821104  |
| Material  | Extended Sensor Fixed Block: ABS Transparent<br>Outer Sensor Fixed Block: PA6 Black |
| Delivery unit   | 1   |



Installation position



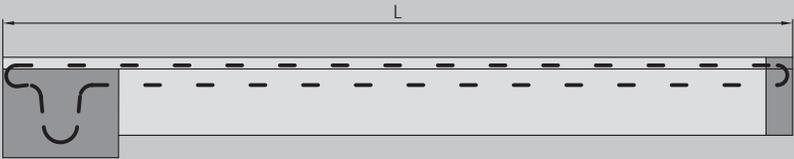
Dimension



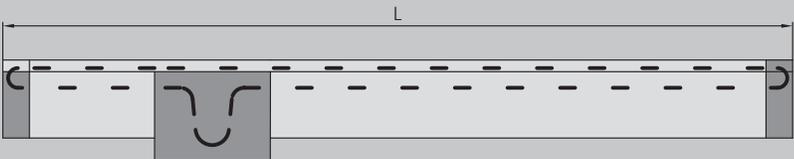
Length of Conveying Medium

The length of conveying medium is determined by the conveyor length, as following is the length of conveying medium based on different conveyors.

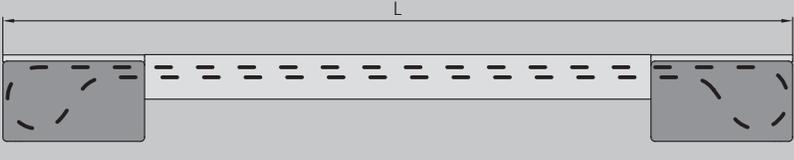
PTS1 PTS2,



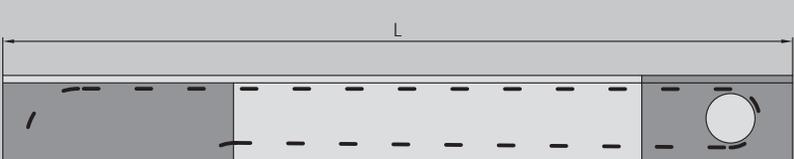
PTS1-End Drive:  
(T5 Tooth Belt)  
Belt length= $2*L+110$

PTS1-Center Drive:  
(T5 Tooth Belt)  
Belt length= $2*L+105$

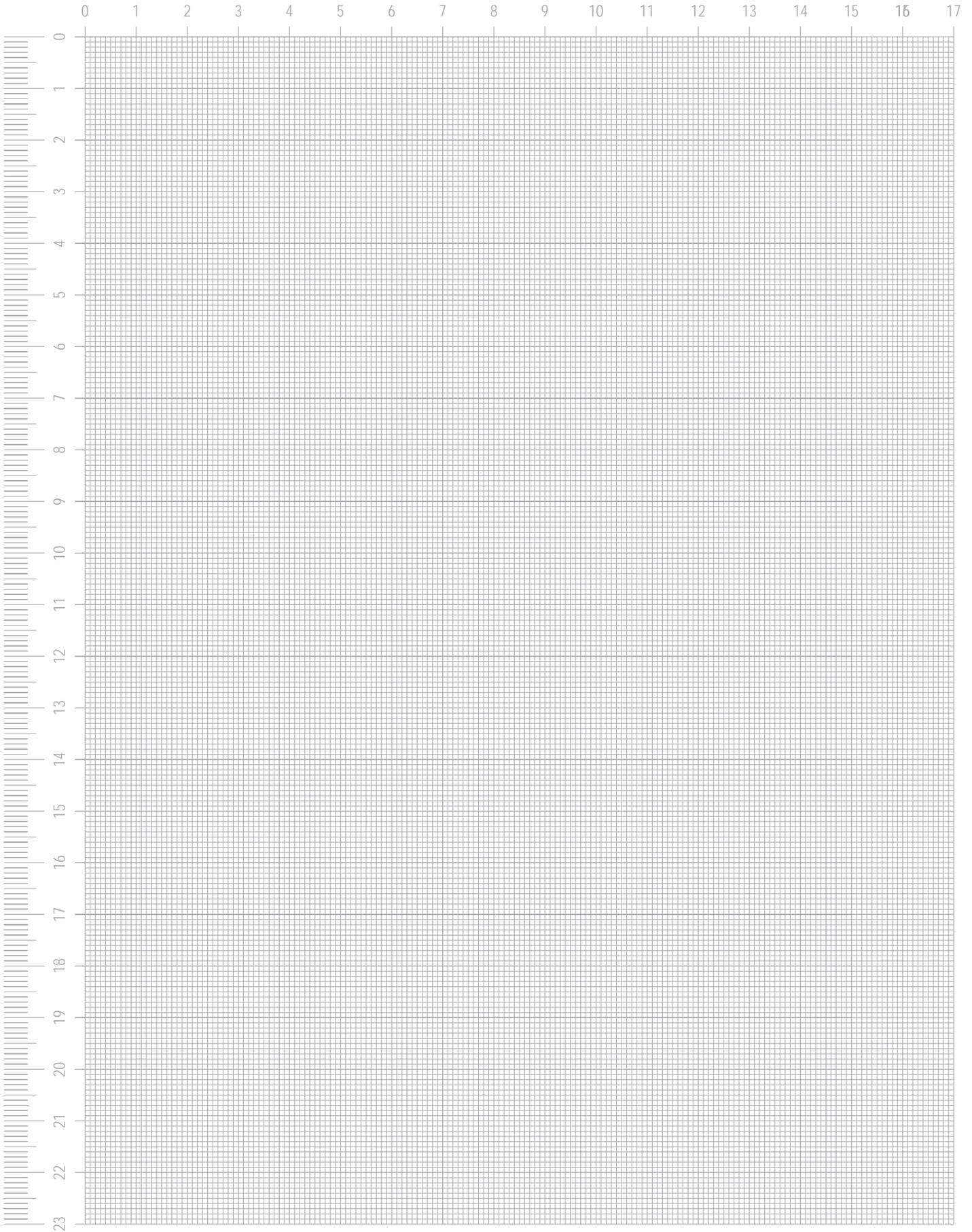



PTS1/H-End Drive:  
(Nylon base belt)  
Belt reference length  
= $1.96*L+256$  ( $L \leq 5000$ )  
 $1.95*L+255$  ( $L > 5000$ )

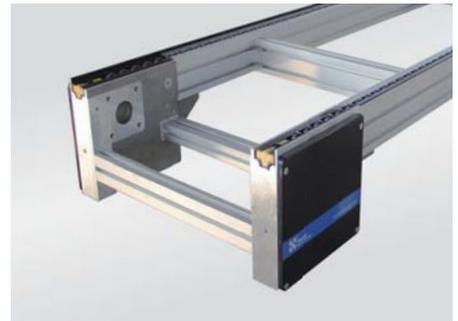
PTS2:  
(08B Roller Chain)  
Chain length= $2*L+50$







PTS4 pallet conveyor



PTS4 pallet conveyor

## PTS4 Pallet Conveyor

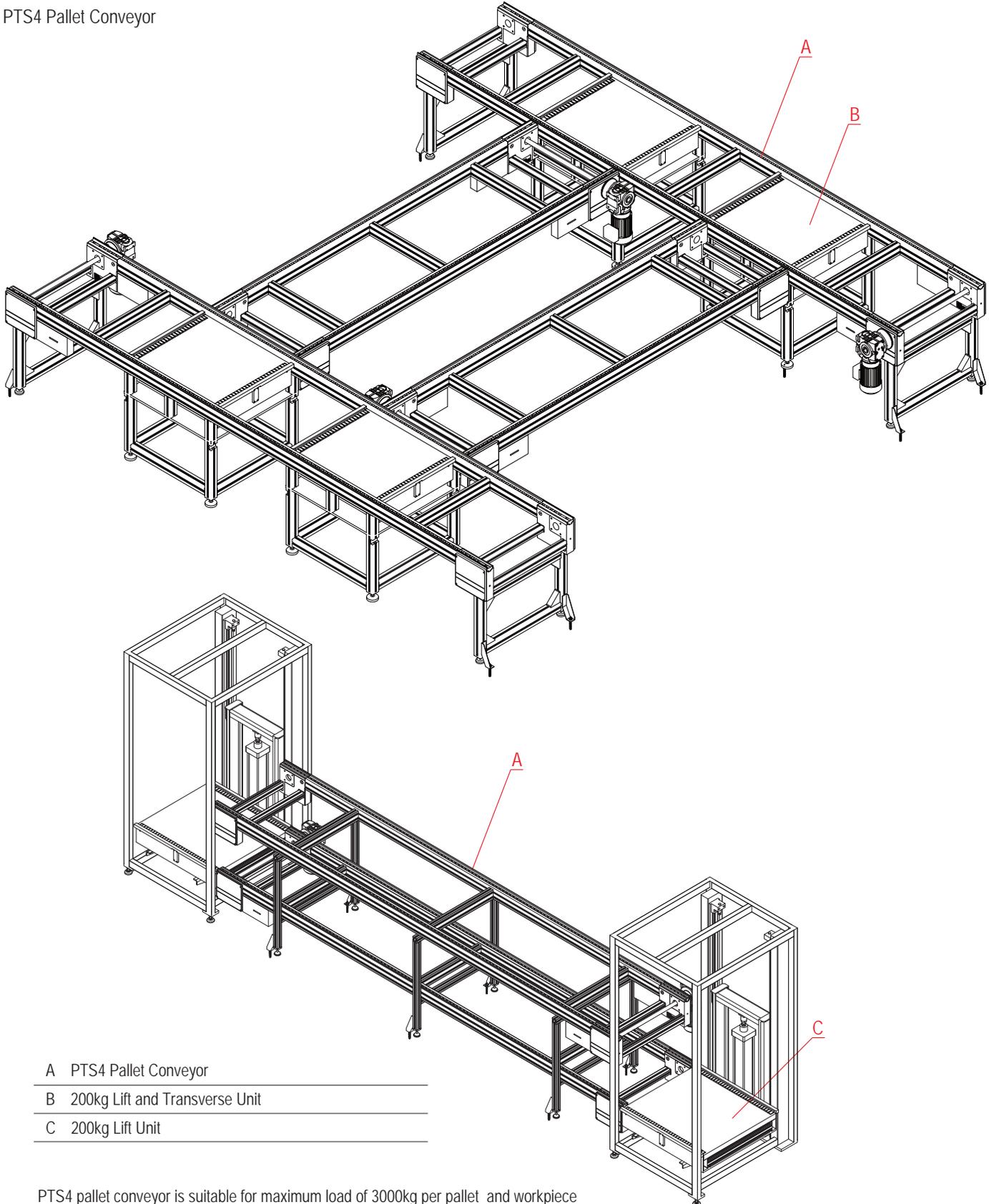
### Industries Served

Factory Automation, Automobile Parts, Home Appliances, Electronics etc.



PTS4 assembly line (for automobile sunroof)

PTS4 Pallet Conveyor

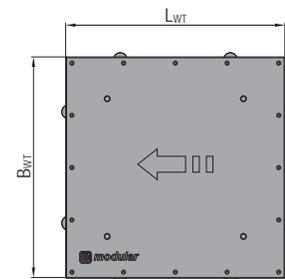
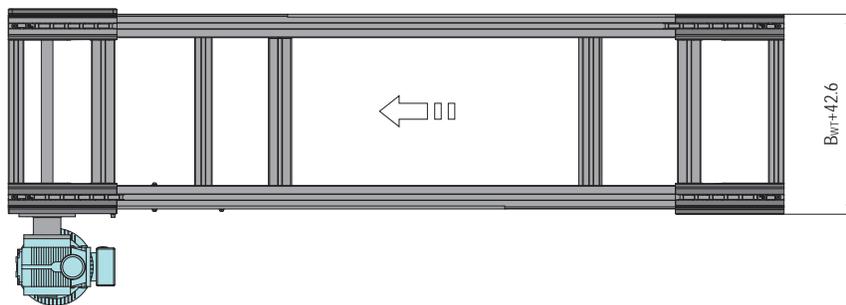
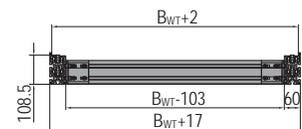
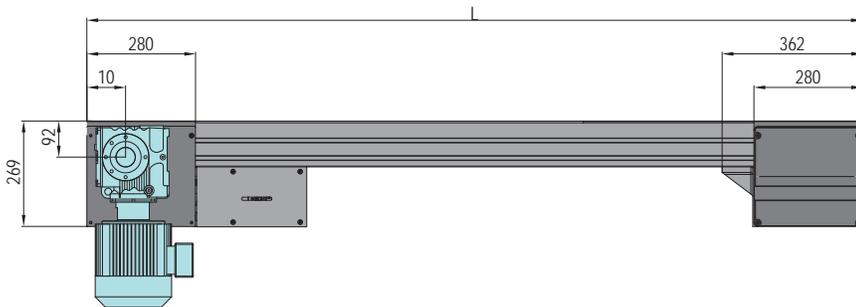
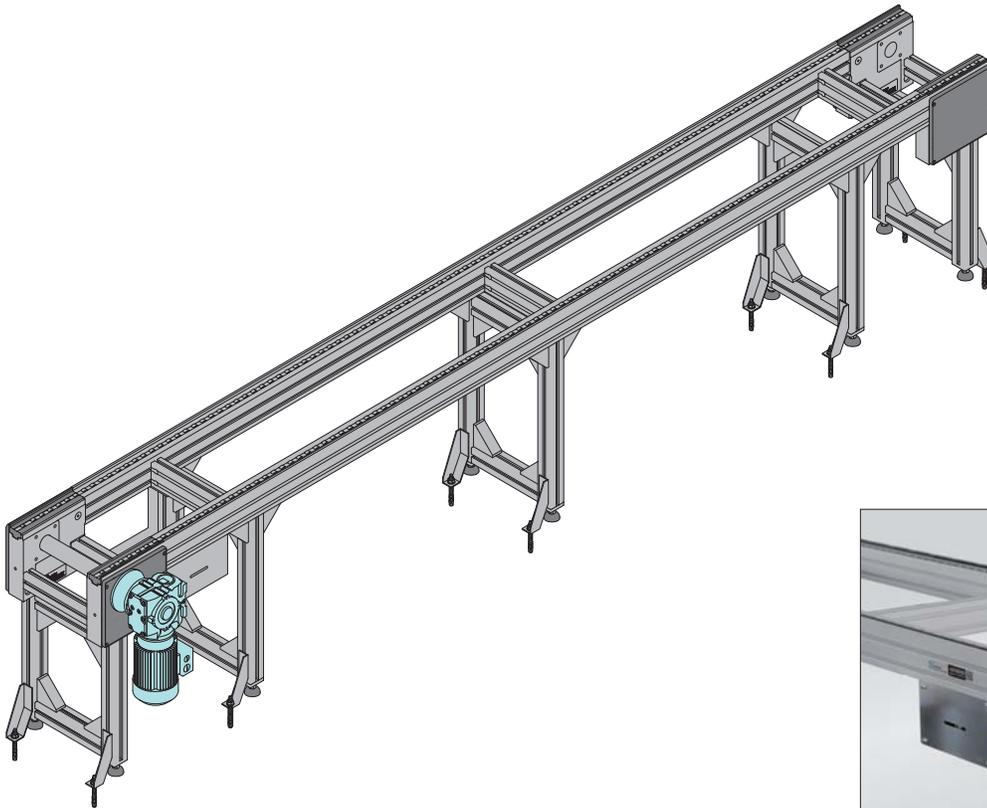


- A PTS4 Pallet Conveyor
- B 200kg Lift and Transverse Unit
- C 200kg Lift Unit

PTS4 pallet conveyor is suitable for maximum load of 3000kg per pallet and workpiece and could freely combined with other units to suit for specific production conditions.

PTS4 Pallet Conveyor

 Delivery **15** Workday  
 Please contact us if order quantities more than 50pcs



 We need to verify the compatibility in advance for pallet made by customer, or we don't guarantee on the main conveyor line or related units.

 Workpiece pallets should be conveyed toward a drive unit, reversible operation is forbidden.



**Specifications**

|                     |  |
|---------------------|--|
| Conveyor Length     | $1000 \leq L \leq 20000 \text{mm}$       |
| Pallet Width        | $400 \leq B_{WT} \leq 1600 \text{mm}$    |
| Conveyor Height     | Customer Specified                       |
| Max. Load Capacity  | OP, OS=3000KG<br>IP, IS=1500KG           |
| Max. Conveyor Speed | $V_{\text{max.}} = 20 \text{m/min}^{1)}$ |
| Conveying Medium    | 12BS Accumulation Chains                 |

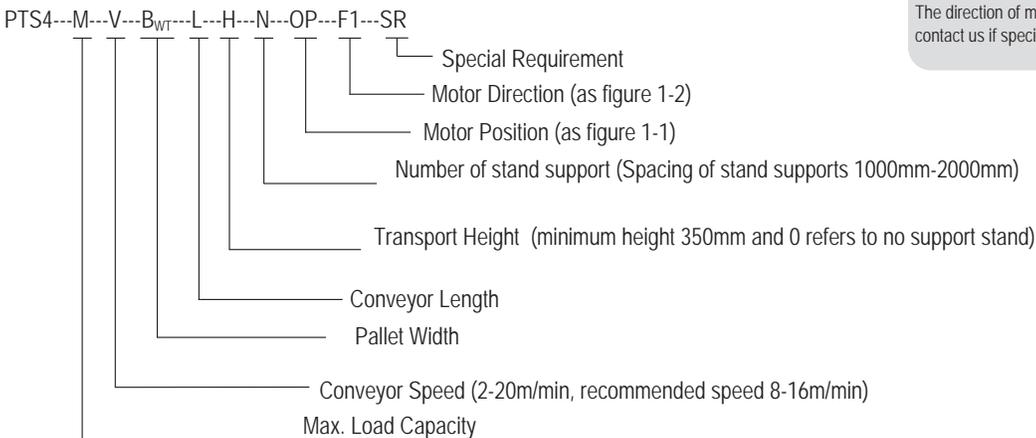
<sup>1)</sup> When  $V \geq 18 \text{m/min}$ , the max. load capacity will decrease to 2500kg.

**Features/Benefits**

1. Modular design, good appearance, easy to assemble and maintenance.
2. Applicable for heavy duty pallet. The pallet can be located and accumulated.
3. T slot aluminum profile frame for easy accessory attachment(sensor, bracket etc).
4. It can be used in conjunction with specific units including rotate unit, lift and transverse unit and lift unit for flexible automatic control.

**Industries Served 应用**

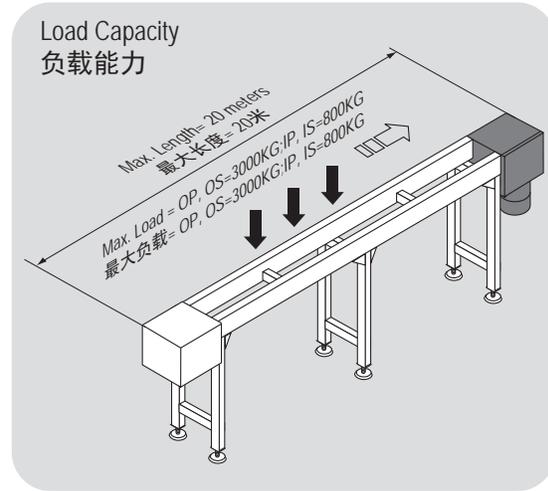
Factory Automation, Automobile Parts, Home Appliances, Electronics etc.

**Ordering Reference 订购**


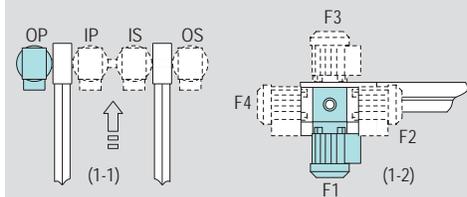
Example:

PTS4---M2000---V16---B<sub>WT</sub>600---L2000---H800---N2---OP---F1

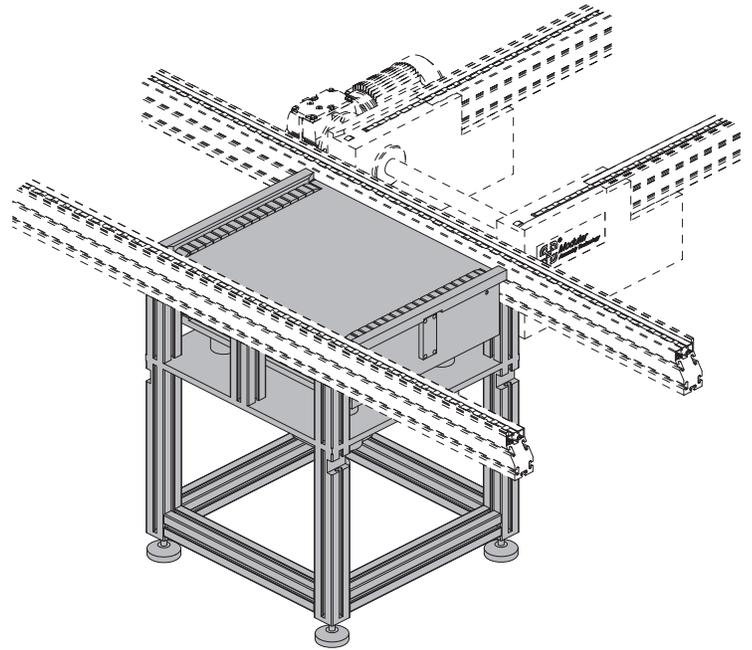
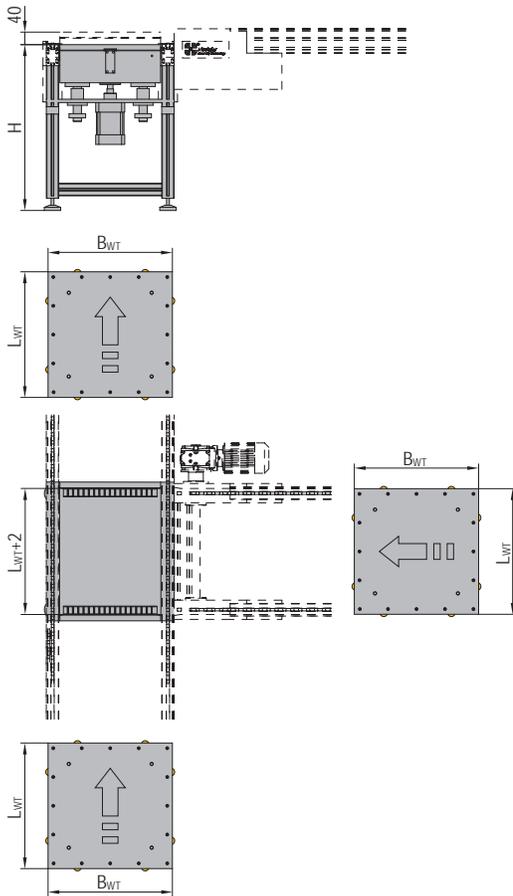
PTS4 pallet conveyor---max. load capacity 2000kg---conveyor speed 16m/min---pallet width 600mm---conveyor length 2000mm---transport height 800mm---2sets of stand support---motor position OP---motor direction F1.



Unit Load Capacity  $\leq 3.0 \text{kg/cm}$ .  
 线体单位承载能力  $\leq 3.0 \text{kg/cm}$ .

**Motor Layout**


200kg Lift and Transverse Unit



Specifications

1. Modular design with practical performance.
2. Lift and transverse unit move the workpiece pallets from a transverse conveyor section onto a longitudinal conveyor section with changing direction of pallet.
3. T slot aluminum profile frame for easy accessory attachment(sensor, bracket etc).

Ordering Reference

PLT200--- $B_{WT}$ --- $L_{WT}$ ---H---V---SR

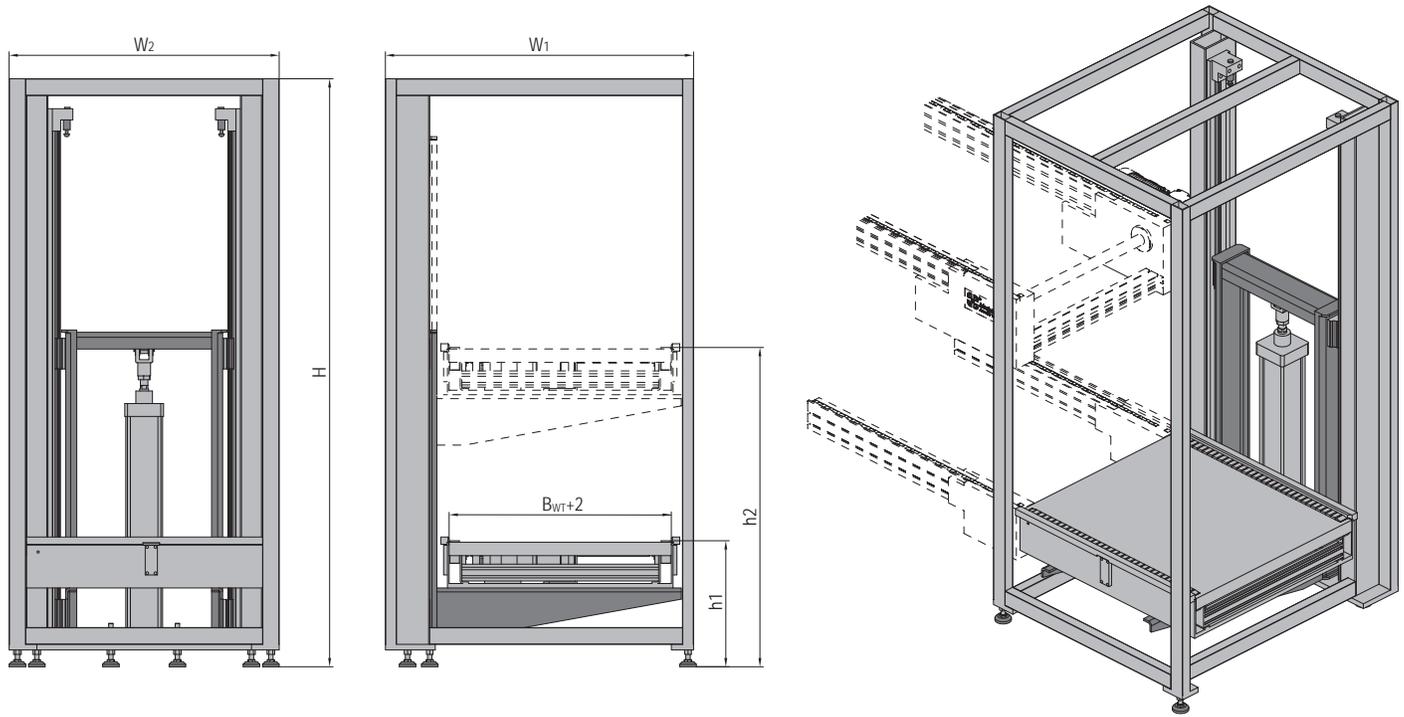
- Special Requirement
- Conveyor Speed
- Transport Height of Connecting Main Conveyor
- Pallet Length of Connecting Main Conveyor
- Pallet Width of Connecting Main Conveyor

Example:

PLT200--- $B_{WT}600$ --- $L_{WT}800$ ---H600---V10

200kg lift and transverse unit---pallet width of main conveyor 600mm---pallet length of main conveyor 800mm---transport height of main conveyor 600mm  
---conveyor speed 10m/min.

200kg Lift Unit

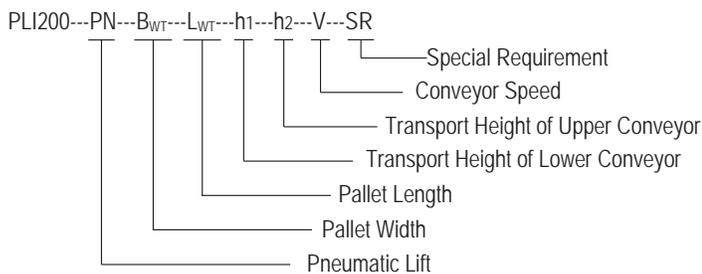


! For more details, please contact us.

Specifications

1. Modular design with practical performance.
2. Lift unit is used to transfer workpiece pallets vertically between upper and lower conveyor sections with changing direction of pallets.
3. The frame structure is high strength carton steel.

Ordering Reference



Example:

PLI200---PN---B<sub>WT</sub>600---L<sub>WT</sub>800---h<sub>1</sub>350---h<sub>2</sub>750---V10

200kg lift unit---pneumatic lift---pallet width 600mm---pallet length 800mm---transport height of lower conveyor 350mm---transport height of upper conveyor 750mm---conveyor speed 10m/min.



180° rotate unit 180°



90° rotate unit 90°

## PTS5 Pallet Conveyor

### Industries Served

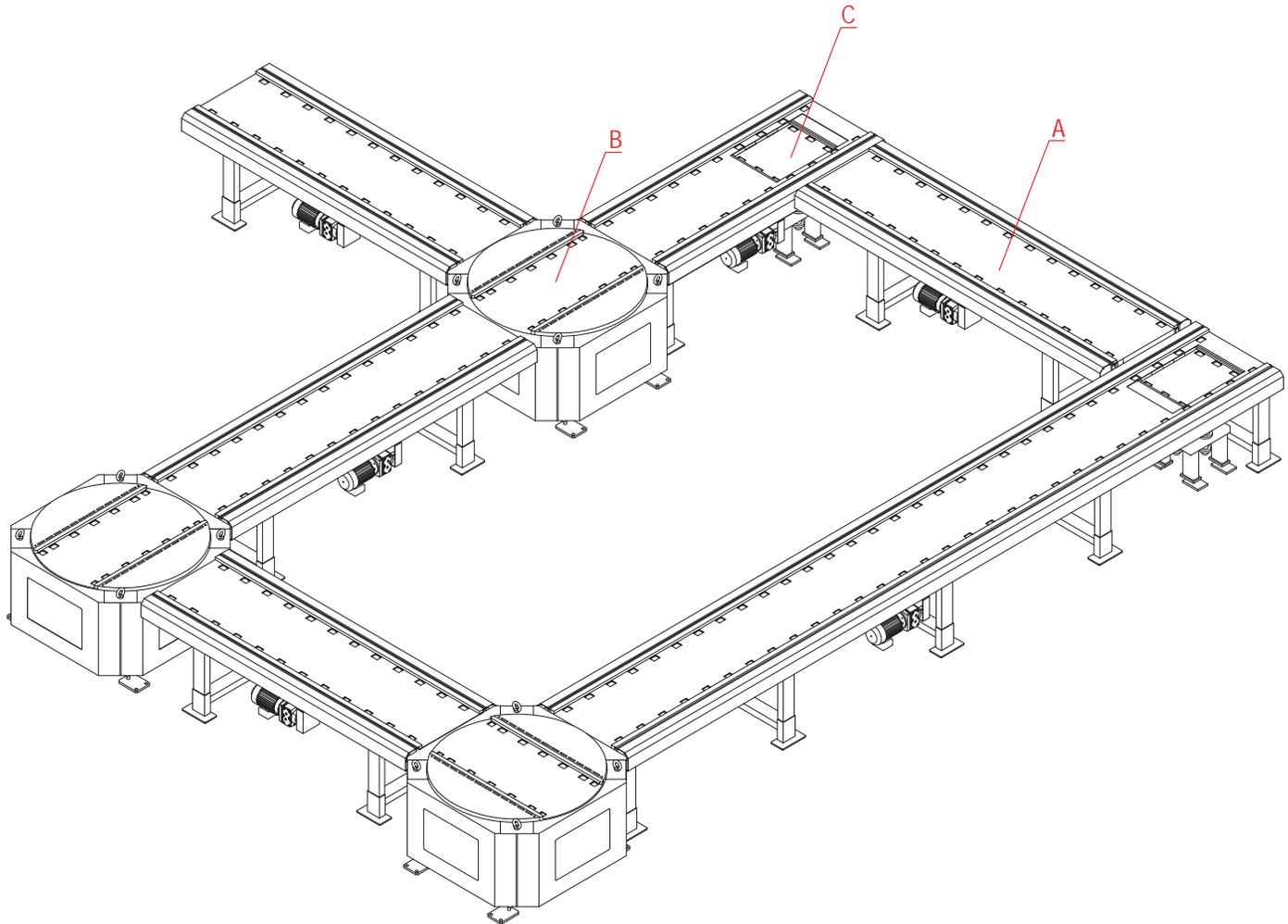
Automatic assembly detection production line (automotive engine, transmission assembly line, circuit breaker etc).



PTS5 assembly line PTS5



PTS5 Pallet Conveyor



- A PTS5 Pallet Conveyor

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- B 600kg Rotate Unit

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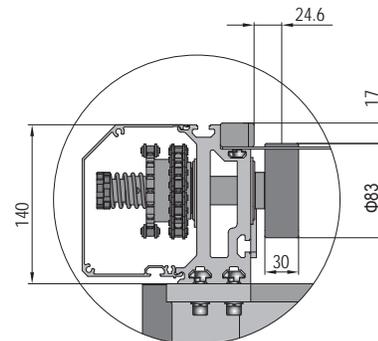
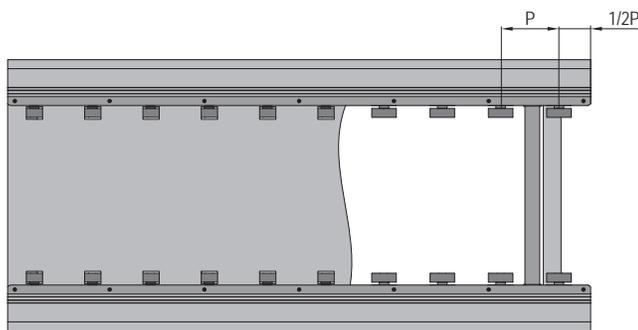
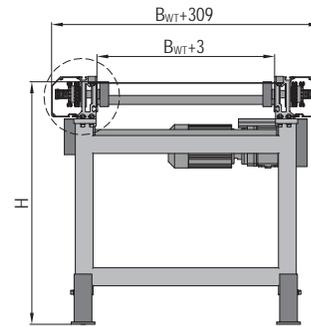
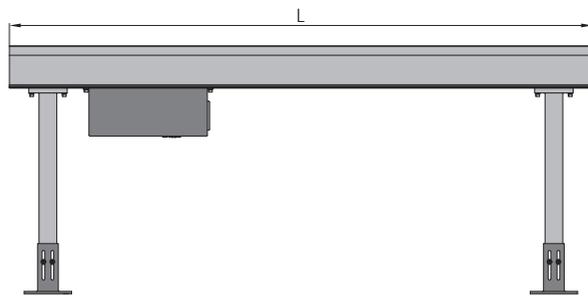
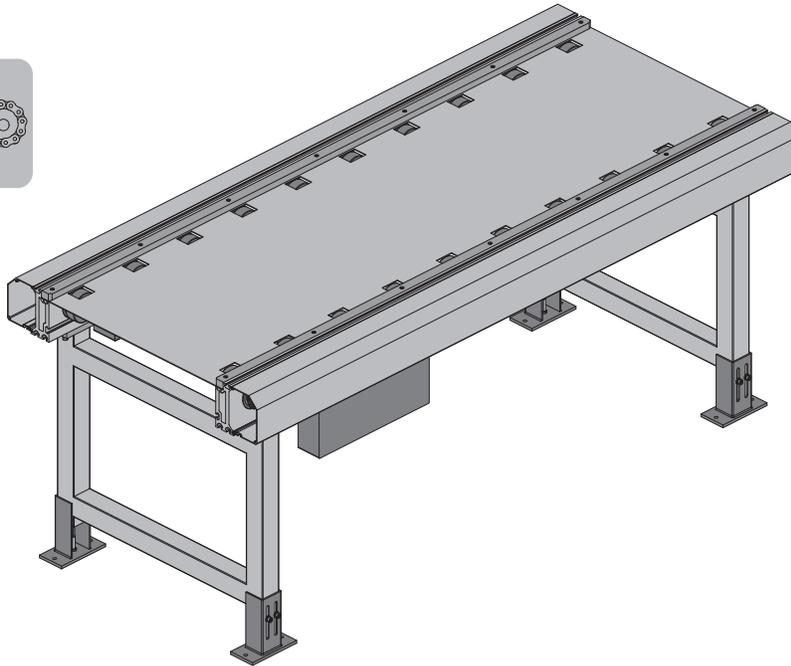
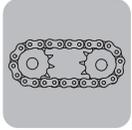
- C 600kg Lift and Transverse Unit

---

PTS5 pallet conveyor is suitable for maximum load of 1000kg per pallet and workpiece and could freely combined with other units to suit for specific production conditions.

PTS5 Pallet Conveyor

Cantilever Double Chain Drive (CH1)



- ⚠ We need to verify the compatibility in advance for pallet made by customer, or we don't guarantee on the main conveyor line or related units.
- ⚠ The maximum length of conveyor is determined by the combining of the roller spacing and the number of working rollers. In case of special needs for roller spacing, please contact with us.

## Specifications

|                     |                                       |
|---------------------|---------------------------------------|
| Conveyor Length     | $1000 \leq L \leq 6000 \text{mm}$     |
| Pallet Width        | $300 \leq B_{WT} \leq 1200 \text{mm}$ |
| Conveyor Height     | Customer Specified                    |
| Max. Load Capacity  | 4000kg                                |
| Max. Conveyor Speed | $V_{\text{max.}} = 15 \text{m/min}$   |
| Drive Medium        | Chain                                 |
| Conveying Medium    | Roller                                |
| Roller Spacing      | 158/197/247mm                         |

## Features/Benefits

1. Modular design of standard unit (recommended length of standard unit is 1905mm, 1968mm and 1981mm respectively according to different roller spacing).
2. Suitable for heavy load pallet conveying which can achieve flexible control;
3. In conjunction with rotate unit and lift transverse unit to achieve automation cycle control.

## Industries Served

Automatic assembly detection production line (automotive engine, transmission assembly line, circuit breaker etc).

## Ordering Reference

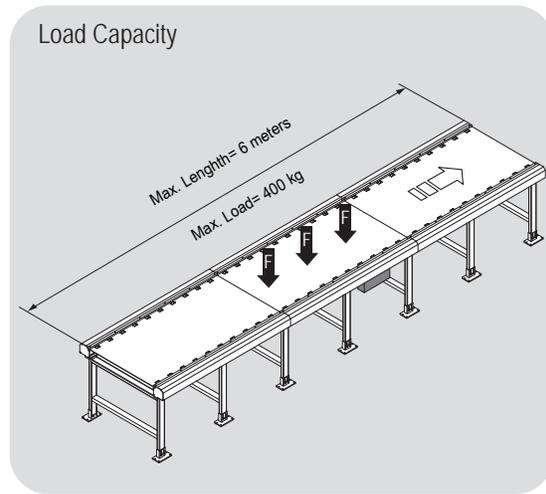
PTS5---CH1---M---V---B<sub>WT</sub>---L---H---N---P---SR



Example:

PST5---CH1---M1000---V12---B<sub>WT</sub>500---L2000---H800---N2---P158

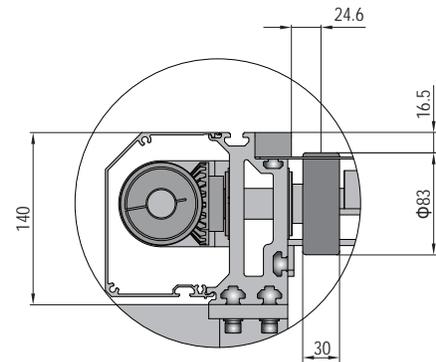
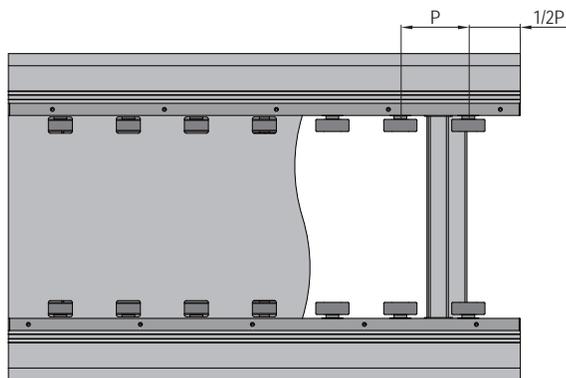
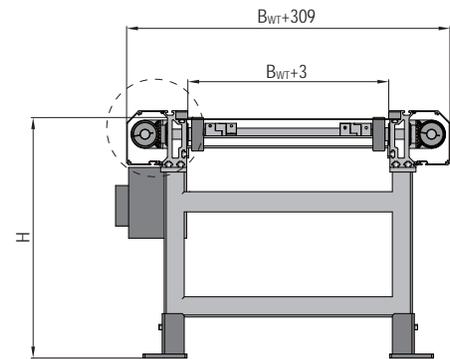
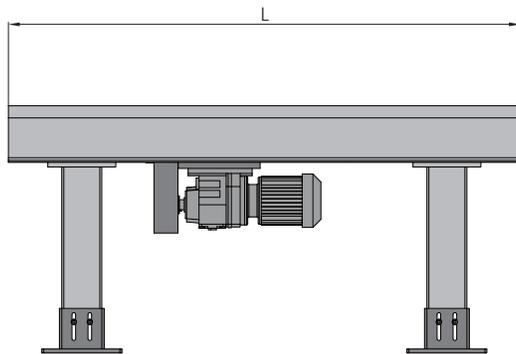
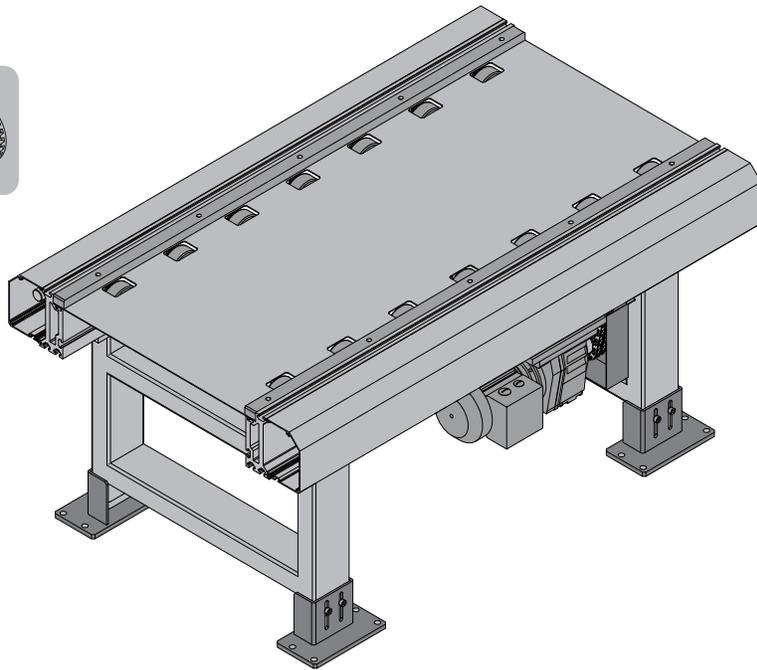
PST5 pallet conveyor---CH1---max.load capacity 1000kg---conveyor speed 12m/min---pallet width 500mm---conveyor length 2000mm ---transport height 800mm--- 2sets of stand support---roller spacing 158mm.



! Unit Load Capacity  $\leq 200 \text{kg}$  for each pair of rollers

PTS5 Pallet Conveyor

Cantilever Double Bevel Gear Drive (BG1)



- ⚠ We need to verify the compatibility in advance for pallet made by customer, or we don't guarantee on the main conveyor line or related units.
- ⚠ The maximum length of conveyor is determined by the combining of the roller spacing and the number of working rollers. In case of special needs for roller spacing, please contact with us.

## Specifications

|                     |                                       |
|---------------------|---------------------------------------|
| Conveyor Length     | $1000 \leq L \leq 6000 \text{mm}$     |
| Pallet Width        | $300 \leq B_{WT} \leq 1200 \text{mm}$ |
| Conveyor Height     | Customer Specified                    |
| Max. Load Capacity  | 4000kg                                |
| Max. Conveyor Speed | $V_{\text{max.}} = 3-15 \text{m/min}$ |
| Drive Medium        | Bevel Gear                            |
| Conveying Medium    | Roller                                |
| Roller Spacing      | 160/200/250mm                         |

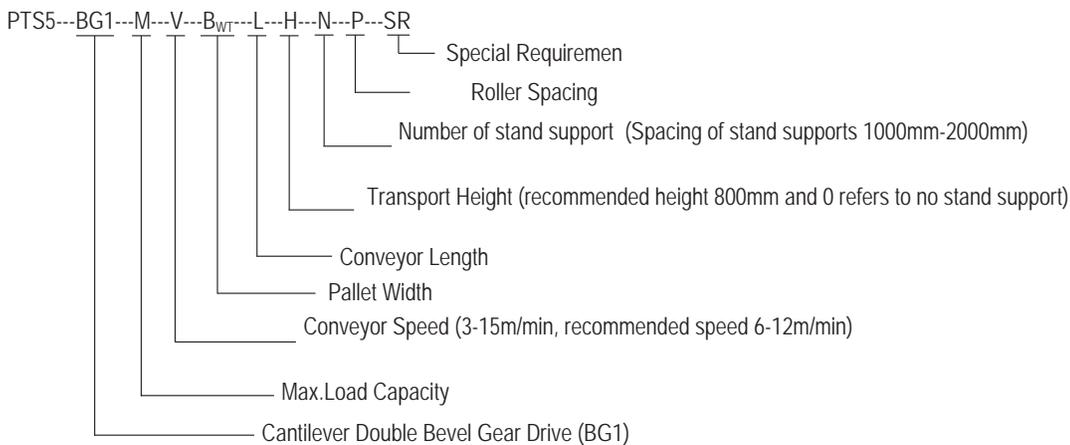
## Features/Benefits

1. Modular design of standard unit (recommended length of standard unit is 1920mm, and 2000mm respectively according to different roller spacing).
2. Suitable for heavy load pallet conveying which can achieve flexible control;
3. In Conjunction with rotate unit and lift transverse unit to achieve automation cycle control.

## Industries Served

Automatic assembly detection production line (automotive engine, transmission assembly line, circuit breaker etc).

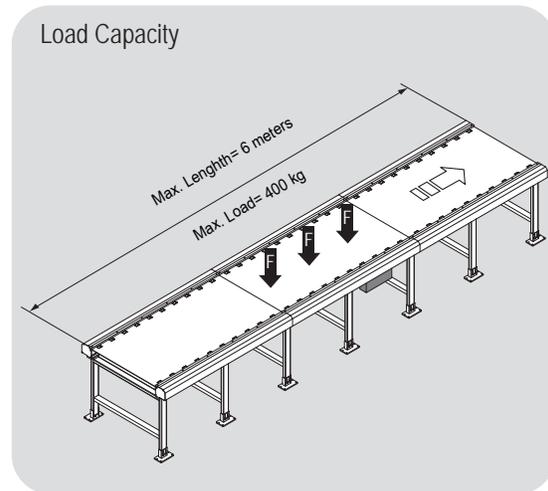
## Ordering Reference



Example:

PST5---BG1---M2000---V12---B<sub>WT</sub>500---L2000---H800---P160

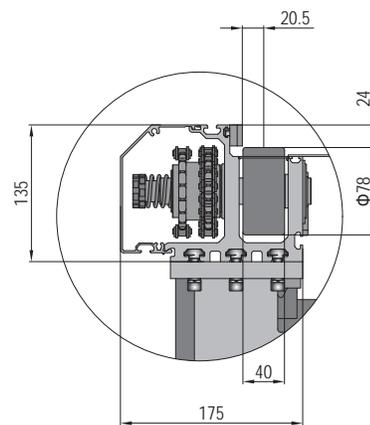
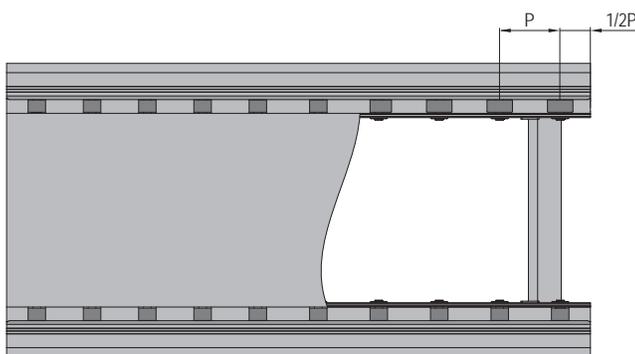
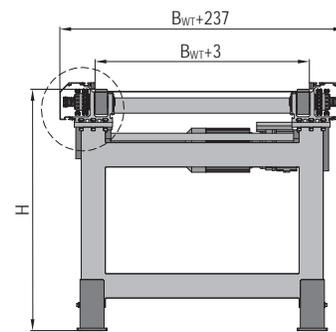
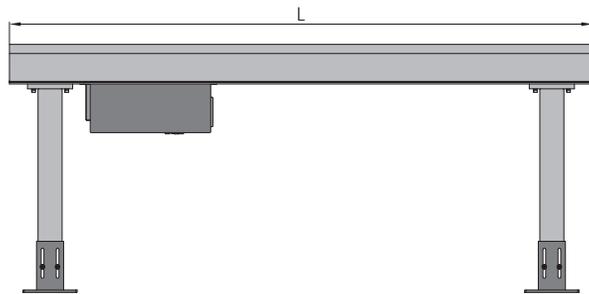
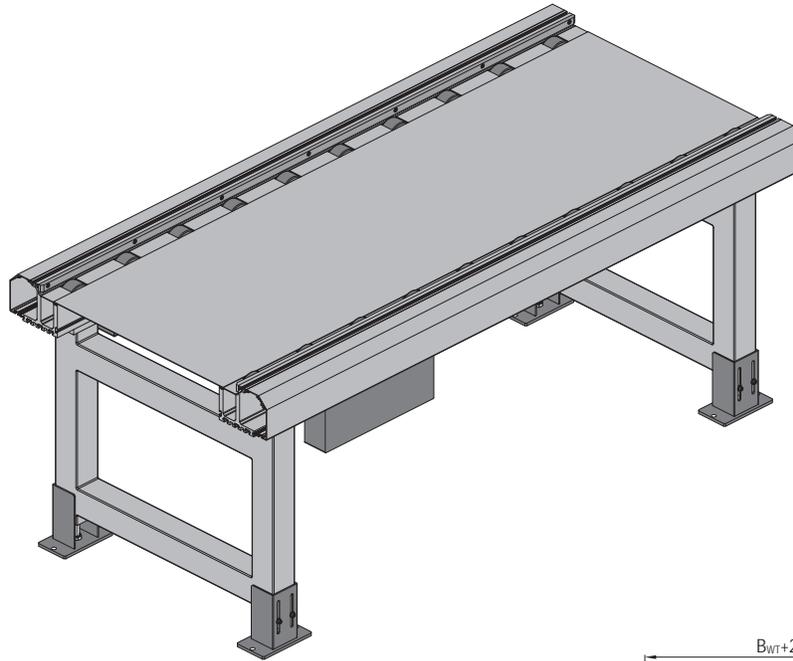
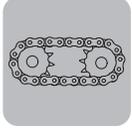
PST5 pallet conveyor---BG1---max.load capacity 2000kg---conveyor speed 12m/min---pallet width 500mm---conveyor length 2000mm---transport height 800mm---roller spacing 160mm.



⚠ Unit Load Capacity  $\leq 200 \text{kg}$  for each pair of rollers

PTS5 Pallet Conveyor

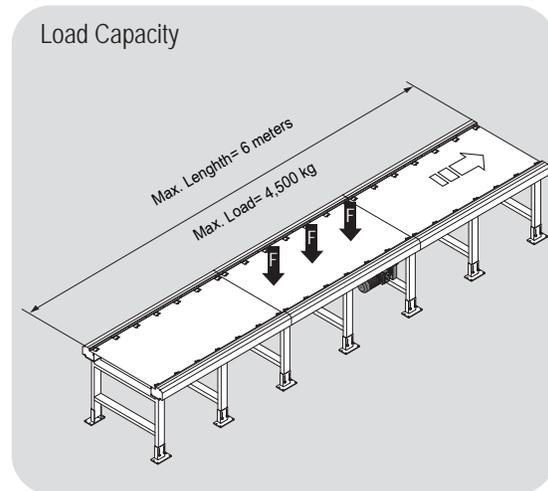
Double Support and Chain Drive (CH2)



- ⚠ We need to verify the compatibility in advance for pallet made by customer, or we don't guarantee on the main conveyor line or related units.
- ⚠ The maximum length of conveyor is determined by the combining of the roller spacing and the number of working rollers. In case of special needs for roller spacing, please contact with us.

**Specifications**

|                     |                             |
|---------------------|-----------------------------|
| Conveyor Length     | 1000≤L≤6000mm               |
| Pallet Width        | 400≤B <sub>WT</sub> ≤1200mm |
| Conveyor Height     | Customer Specified          |
| Max. Load Capacity  | 4500kg                      |
| Max. Conveyor Speed | V max.=15m/min              |
| Drive Medium        | Chain                       |
| Conveying Medium    | Roller                      |
| Roller Spacing      | 158/197/247mm               |



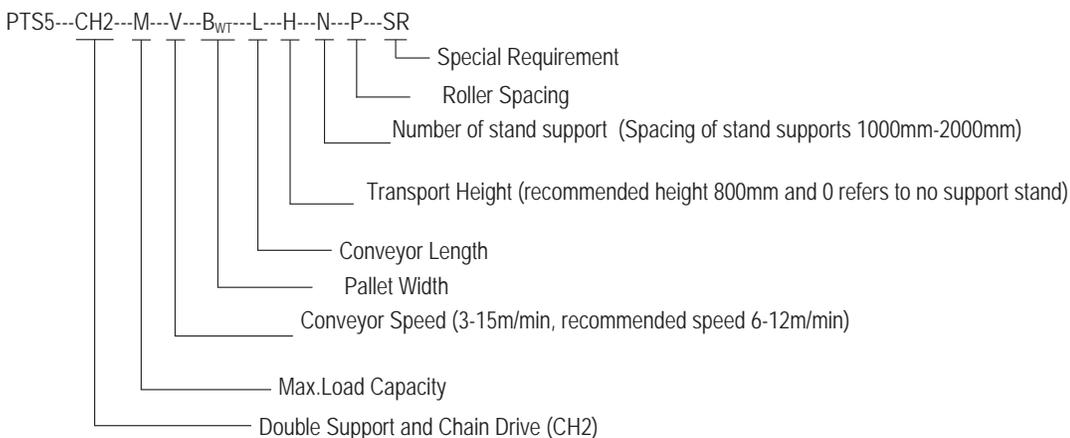
 Unit Load Capacity ≤200kg for each pair of rollers

**Features/Benefits**

1. Modular design of standard unit (recommended length of standard unit is 1905mm, 1968mm and 1981mm respectively according to different roller spacing).
2. Suitable for heavy load pallet conveying which can achieve flexible control.
3. In conjunction with rotate unit and lift transverse unit to achieve automation cycle control.

**Industries Served 应用**

Automatic assembly detection production line (automotive engine, transmission assembly line, circuit breaker etc).

**Ordering Reference 订购**


Example:

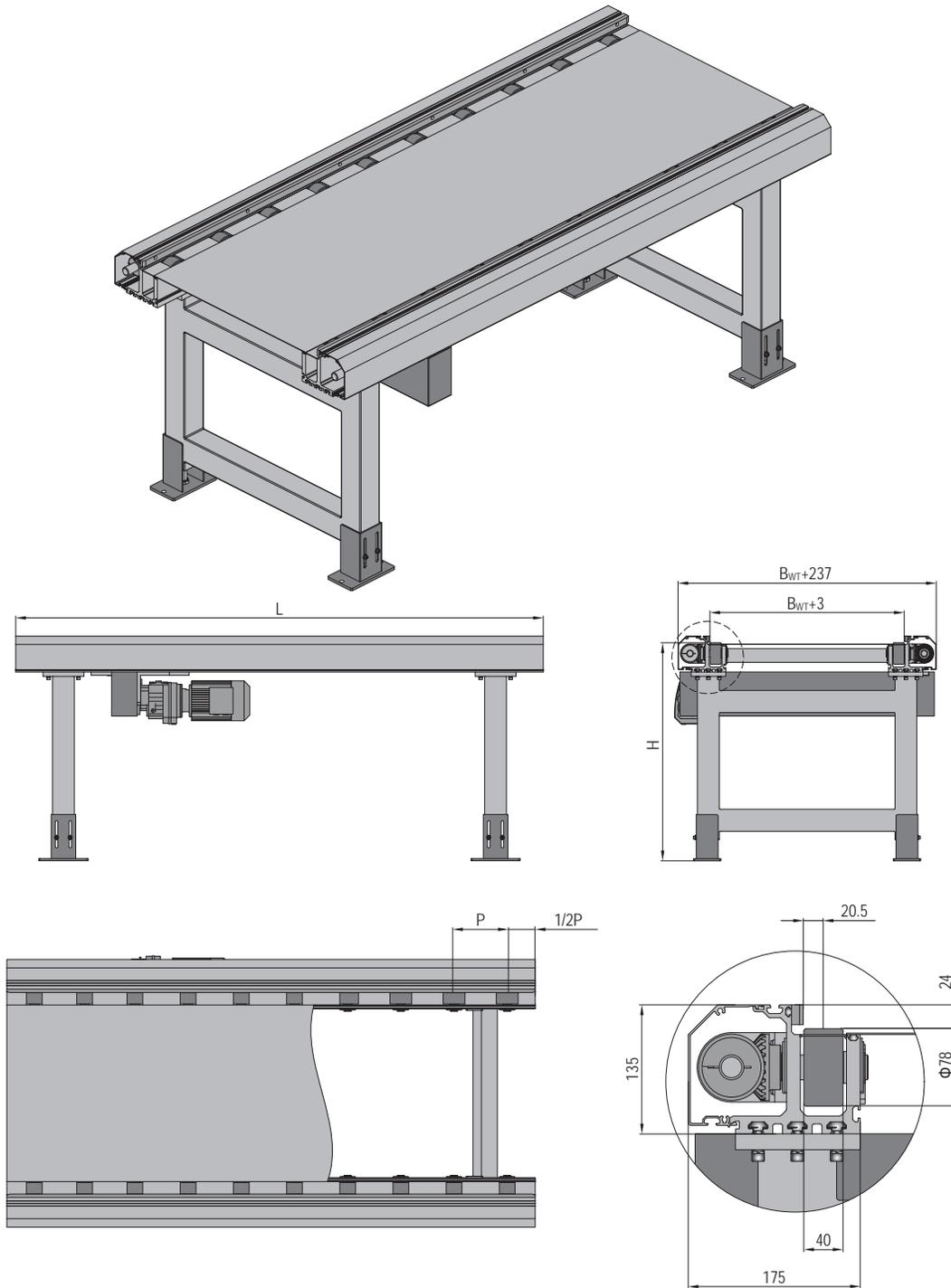
PST5---CH2---M2000---V12---B<sub>WT</sub>500---L2000---H800---N2---P158

PST5 pallet conveyor---CH2---max.load capacity 2000kg---conveyor speed 12m/min---pallet width 500mm---conveyor length 2000mm ---transport height 800mm--- 2sets of stand support---roller spacing 158mm.



PTS5 Pallet Conveyor

Double Support and Bevel Gear Drive (BG2)



⚠ We need to verify the compatibility in advance for pallet made by customer, or we don't guarantee on the main conveyor line or related units.

⚠ The maximum length of conveyor is determined by the combining of the roller spacing and the number of working rollers. In case of special needs for roller spacing, please contact with us.

## Specifications

|                     |                                       |
|---------------------|---------------------------------------|
| Conveyor Length     | $1000 \leq L \leq 6000 \text{mm}$     |
| Pallet Width        | $400 \leq B_{WT} \leq 1200 \text{mm}$ |
| Conveyor Height     | Customer Specified                    |
| Max. Load Capacity  | 4500kg                                |
| Max. Conveyor Speed | $V \text{ max.} = 3-15 \text{m/min}$  |
| Drive Medium        | Bevel Gear                            |
| Conveying Medium    | Roller                                |
| Roller Spacing      | 160/200/250mm                         |

## Features/Benefits

1. Modular design of standard unit (recommended length of standard unit is 1920mm, and 2000mm respectively according to different roller spacing).
2. Suitable for heavy load pallet conveying which can achieve flexible control.
3. In conjunction with rotary and lift transverse unit to achieve automation cycle control.

## Industries Served

Automatic assembly detection production line (automotive engine, transmission assembly line, circuit breaker etc).

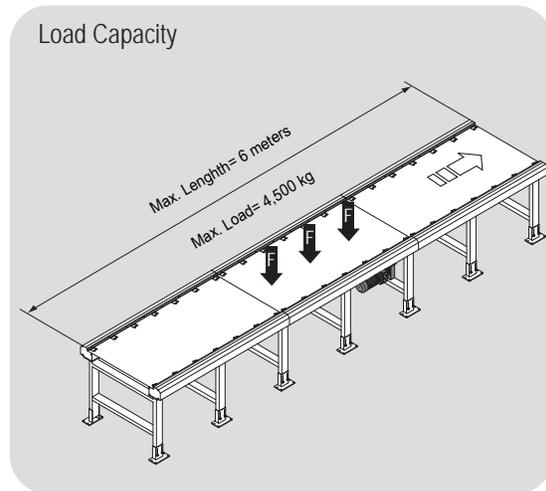
## Ordering Reference



Example:

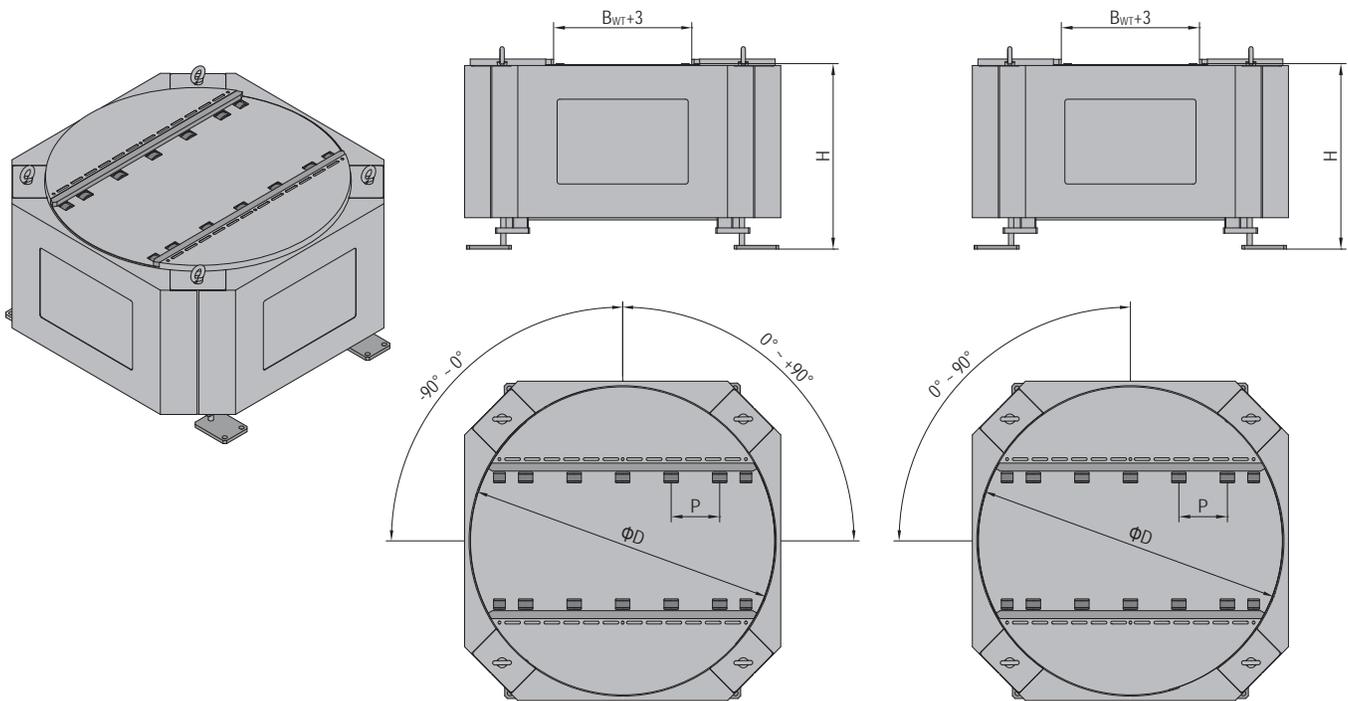
PST5---BG2---M2000---V12---B<sub>WT</sub>500---L2000---H800---N2---P160

PST5 pallet conveyor---BG2---max.load capacity 2000kg---conveyor speed 12m/min---pallet width 500mm---conveyor length 2000mm---transport height 800mm---2sets of stand support---roller spacing 160mm.



⚠ Unit Load Capacity  $\leq 200 \text{kg}$  for each pair of rollers

600kg Rotate Unit



▲ Electrical Rotation

▲ Pneumatic Rotation

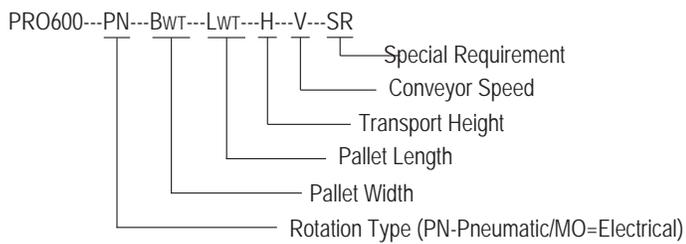
! For more details, please contact us.

Features/Benefits

1. Rotate unit of pneumatic or electrical is used to turn the orientation of the workpiece pallet 90° or 180° without changing the direction of pallet.
2. In conjunction with PTS5 pallet conveyors.



Ordering Reference

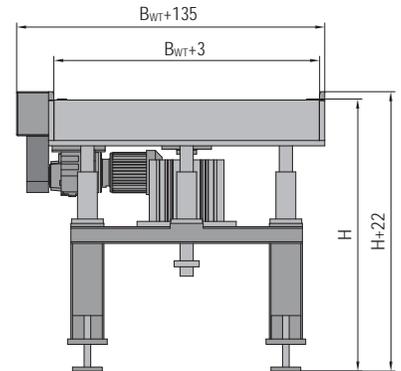
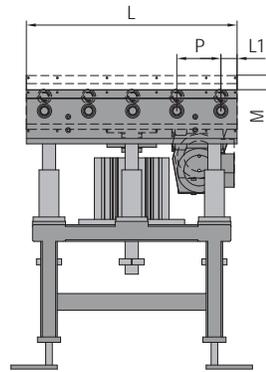
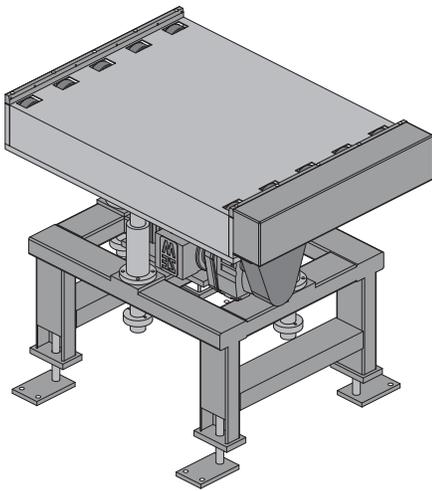


Example:

PRO600---PN---BWT600---LWT800---H600---V10

600kg rotate unit---pneumatic rotation---pallet width 600mm---pallet length 800mm---transport height 600mm---conveyor speed 10m/min.

600kg Lift and Transverse Unit



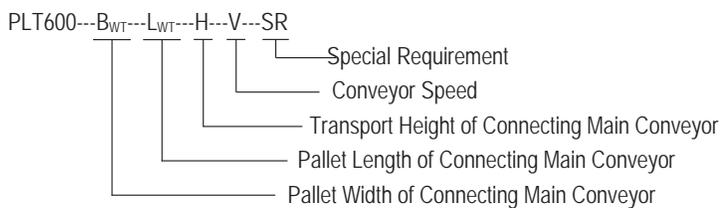
! For more details, please contact us.

Specifications

1. Modular design with practical performance.
2. Lift transverse unit move the workpiece pallets from a transverse conveyor onto a longitudinal conveyor section with changing the direction of pallet.
3. In conjunction with PTS5 pallet conveyors.



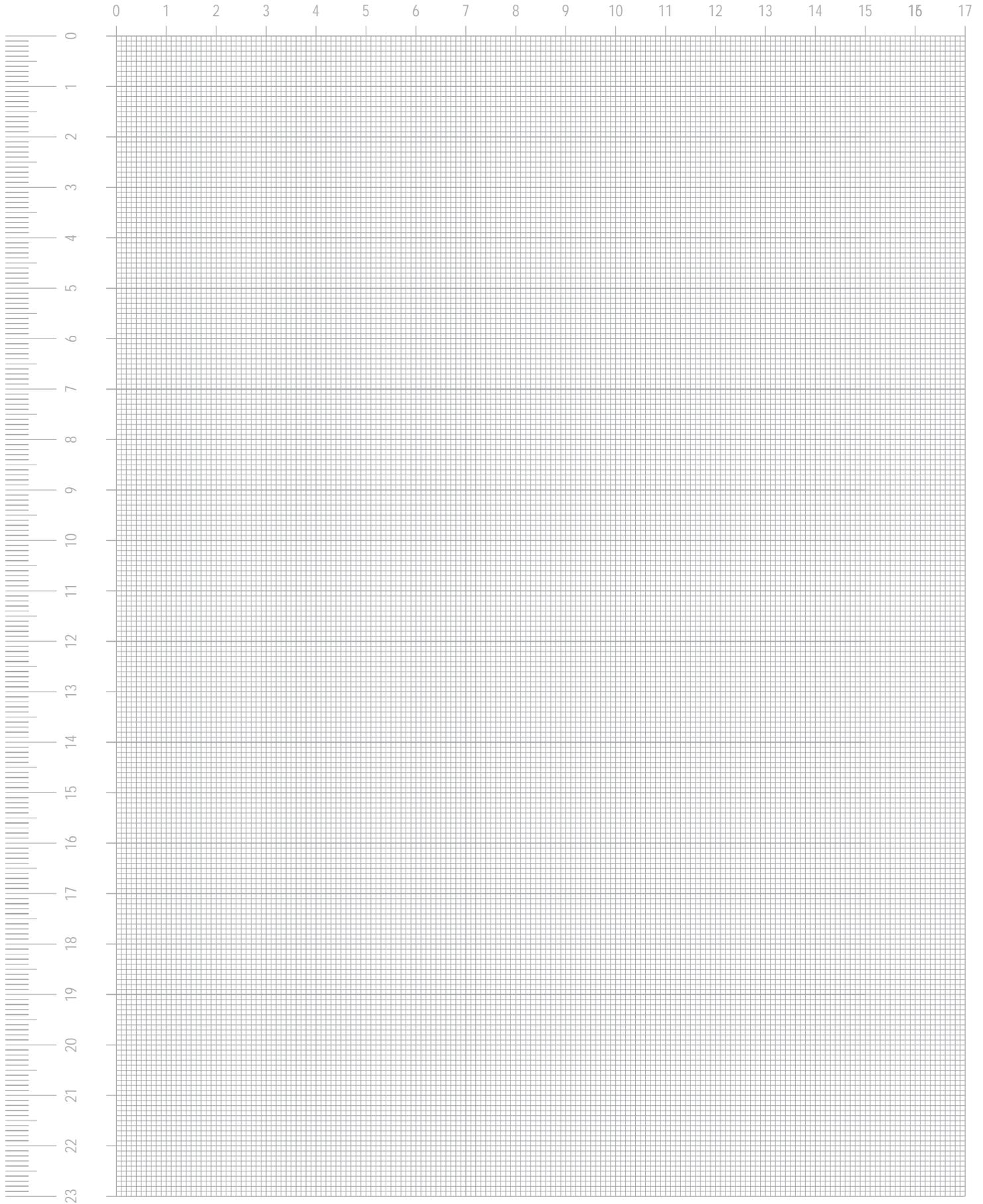
Ordering Reference



Example:

PLT600---B<sub>WT</sub>600---L<sub>WT</sub>800---H600---V10

600kg lift and transverse unit---pallet width of main conveyor 600mm---pallet length of main conveyor 800mm---transport height 600mm---conveyor speed 10m/min.





- Free Roller Conveyor
- Powered Roller Conveyor
- Flexible Chain Conveyor
- Belt Conveyor
- Toothed Belt Conveyor
- Incline Belt Conveyor

## 2 Basic Transfer System

Basic transfer system consist of varies type of conveyors to meet different production conditions.





Stainless steel roller conveyor with platform



Zinc plated steel roller conveyor

## Free Roller Conveyor

### Industries Served

Logistics, Home Appliances, Packing, Machinery, Building Material etc.

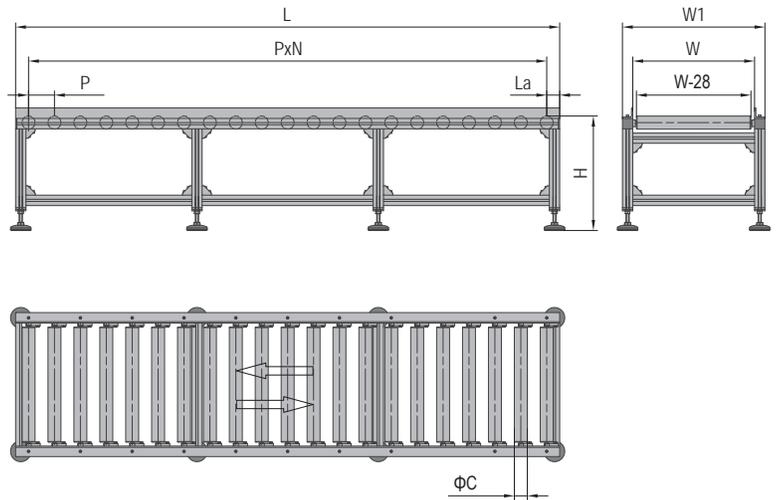


Zinc plated steel roller conveyor(automobile parts)

## Free Roller Conveyor

## Specifications

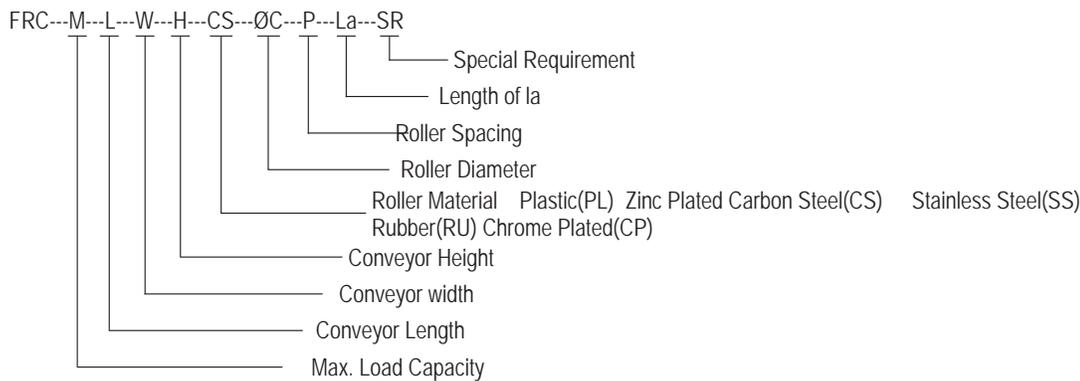
|                    |   |
|--------------------|---|
| Conveyor Length    | $600 \leq L$  |
| Roller Width       | $100 \leq W \leq 1200 \text{mm}$  |
| Conveyor Height    | Customer Specified  |
| Max. Load Capacity | $1000 \text{kg/m} (\text{ØC} \geq 76 \text{mm})$  |
| Roller Diameter    | $\text{ØC} = 38/50.6/60/76/80/89 \text{mm}$   |
| Roller Material    | Plastic(PL)/Zinc Plated Carbon Steel(CS)/<br>Stainless Steel(SS)/Rubber(RU)/<br>Chrome Plated(CP) |



## Features/Benefits

1. Simple and reliable structure with low maintenance;
2. Transfer all kinds of products from heavy, medium or light duty which can enable a high impact load;
3. T slot aluminum profile frame for easy accessory attachment(sensor, bracket etc).

## Ordering Reference



Example:

FRC---M100---L2000---W400---H800---CS---Ø38---P100---La30

 Free roller conveyor---max. load capacity 100kg---2000mm long---400mm wide---800mm high---zinc plated carbon steel roller---roller diameter Ø38  
 ---roller spacing 100mm---length of la 30mm.

 Please cancel the corresponding number if it doesn't need.



Accumulation roller conveyor



Stainless steel roller conveyor (for plastic boxes)

## Powered Roller Conveyor

### Industries Served

Logistics, Home Appliances, Packing, Machinery, Building Material etc.



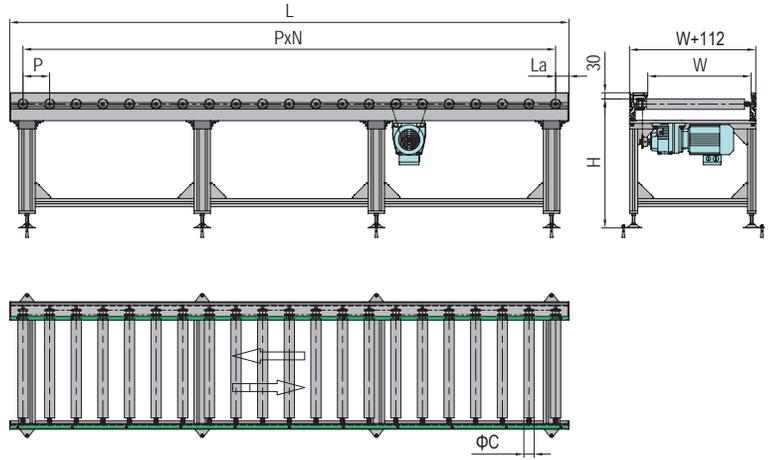
Carbon steel conveyor (for steel parts)



## Powered Roller Conveyor

## Specifications

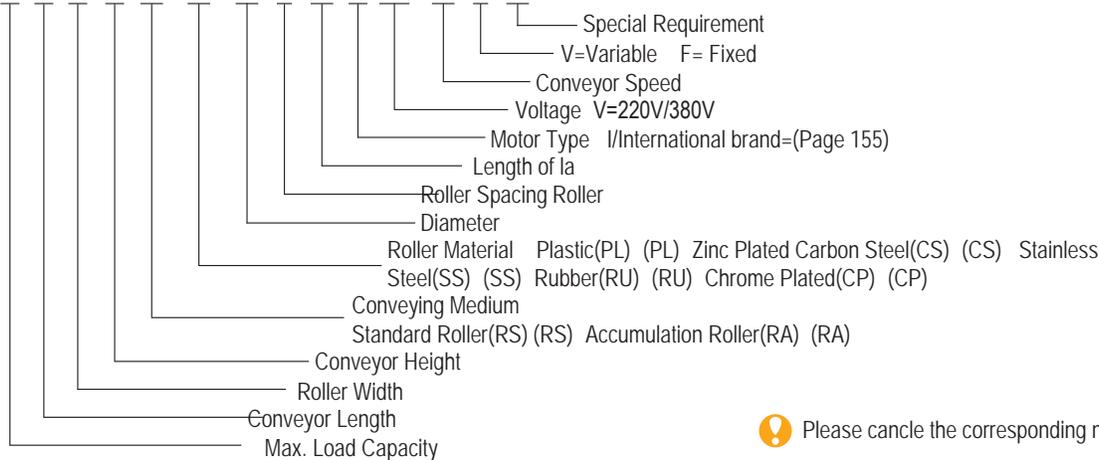
|                    |   |
|--------------------|---|
| Conveyor Length    | $600 \leq L \leq 5900\text{mm}$   |
| Roller Width       | $120 \leq W \leq 1000\text{mm}$   |
| Conveyor Height    | Customer Specified  |
| Max. Load Capacity | $250\text{kg/m} (\varnothing C \geq 76\text{mm})$   |
| Conveyor Speed     | $V \text{ max.} = 20\text{m/min}$   |
| Roller Diameter    | $\varnothing C = 38/50.6/60/76/80/89\text{mm}$  |
| Drive Model        | Indirect  |
| Conveying Medium   | Standard Roller(RS)/Accumulation Roller(RA)   |
| Roller Material    | Plastic(PL)/Zinc Plated Carbon Steel(CS)/<br>Stainless Steel(SS)/Rubber(RU)/Chrome Plated(CP) |



## Features/Benefits

1. Simple and reliable structure with low maintenance;
2. Transfer all kinds of products from heavy, medium or light duty which can enable a high impact load;
3. Adjustable accumulation function can enable automation control;
4. T slot aluminum profile frame for easy accessory attachment(sensor, bracket etc).

## Ordering Reference

 PRC---M---L---W---H---RA---CS--- $\varnothing C$ ---P---La---I---220---20---V---SR

 Please cancel the corresponding number if it doesn't needed.

 Example: PRC---M50---L2000---W400---H800---RA---CS--- $\varnothing 50.6$ ---P100---L30---I---380---20---V

 Powered roller conveyor---max. load capacity 50kg---2000mm long---400mm wide---800mm high---accumulation roller (RA)---zinc plated carbon steel roller--- $\varnothing 50.6$  roller diameter---roller spacing 100mm---length of la 30mm---imported motor---380V---conveyor speed 20m/min---variable speed.




Conveyor with aluminum structure

### Flexible Chain Conveyor



Conveyor with stainless steel structure (for medicine bottle)

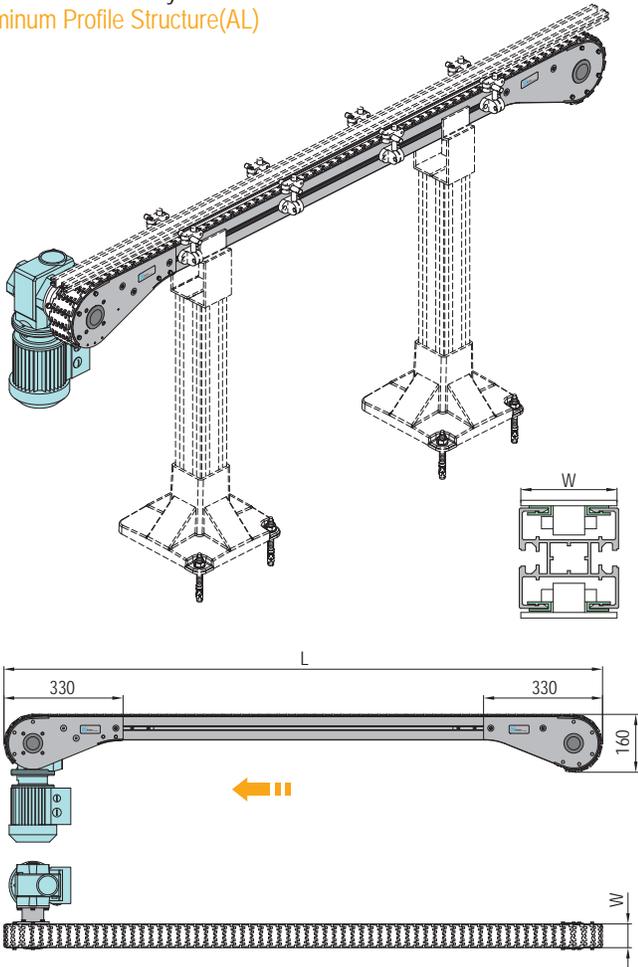


Conveyor with aluminum structure (for tooling pallet)

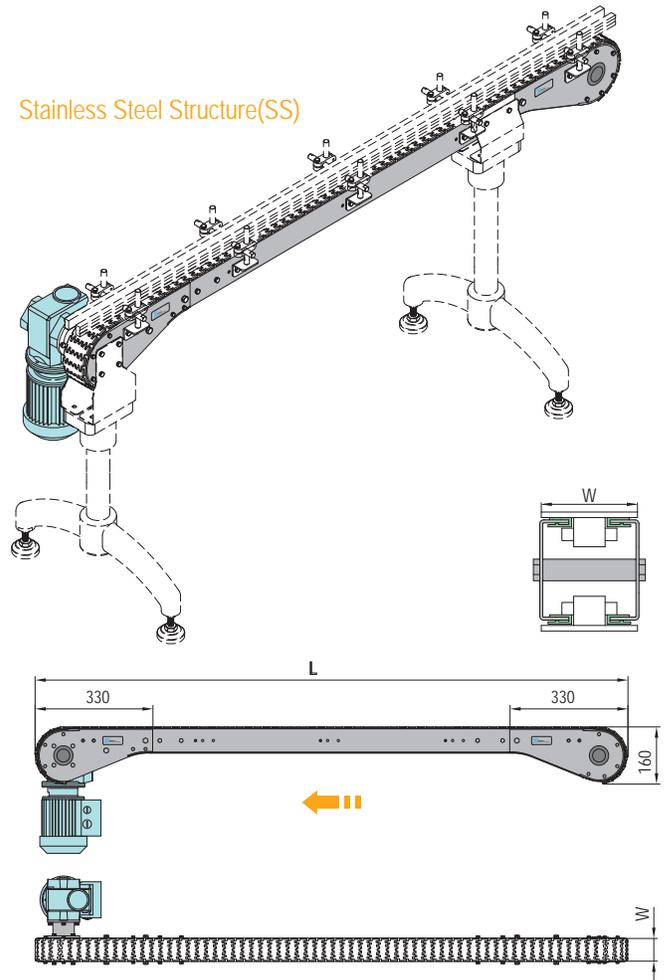
#### Industries Served

Factory Automation, Medical Equipment, Beverage, Cosmetics, Dairy etc.

Flexible Chain Conveyor  
Aluminum Profile Structure(AL)



Stainless Steel Structure(SS)



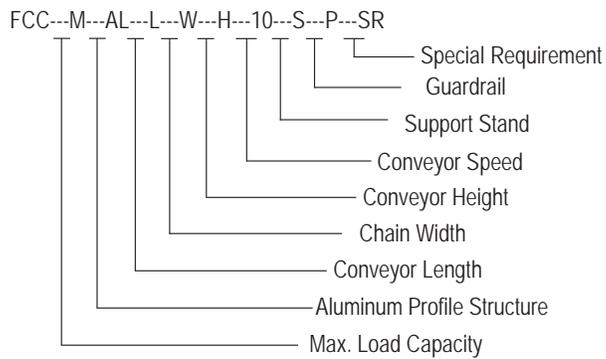
Specifications

|                    |                                   |
|--------------------|-----------------------------------|
| Conveyor Length    | $1000 \leq L \leq 20000\text{mm}$ |
| Chain Width        | $W=44/63/83/103\text{mm}$         |
| Max. Load Capacity | 120kg(W=103mm)                    |
| Belt Speed         | $2 \leq V \leq 20\text{m/min}$    |
| Drive Model        | Direct                            |
| Chain Material     | POM                               |

Features/Benefits

1. Flexible structure could enables a horizontal, inclined and curved transport;
2. Smooth surface guarantees a stable transfer of all kinds of bottle and cases.

Ordering Reference



Example:

FCC--M40---AL---L2000---W63---H800---10---S---P

Flexible chain conveyor---max. load capacity 40kg---aluminum profile structure---2000mm long  
---63mm wide---800mm high---conveyor speed 10m/min---support stand---guardrail.

⚠ Please cancel the corresponding number if it doesn't needed.

⚠ Workpiece pallets should be conveyed toward a drive unit, reversible operation is forbidden.



## Belt Conveyor

### Industries Served

Factory Automation, Automobile Parts, Electronics, Food, Logistics etc.



Toothed Belt Conveyor



Multi-station assembly line



B3200 Series



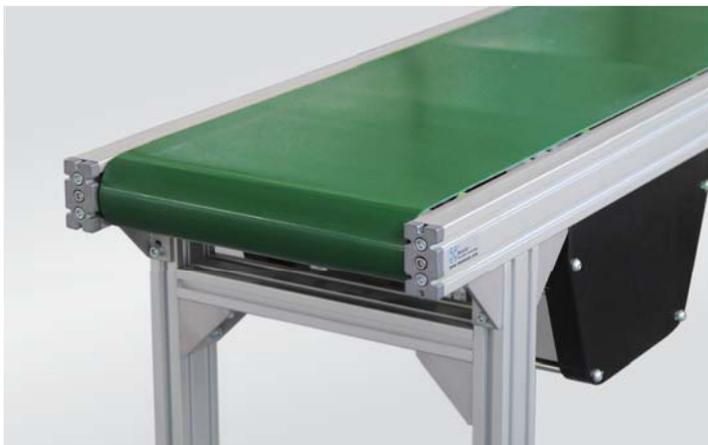
B3100 Series B3100



B1100 Series B1100



B1200 Series B1200



B2200 Series B2200



B2100 Series B2100



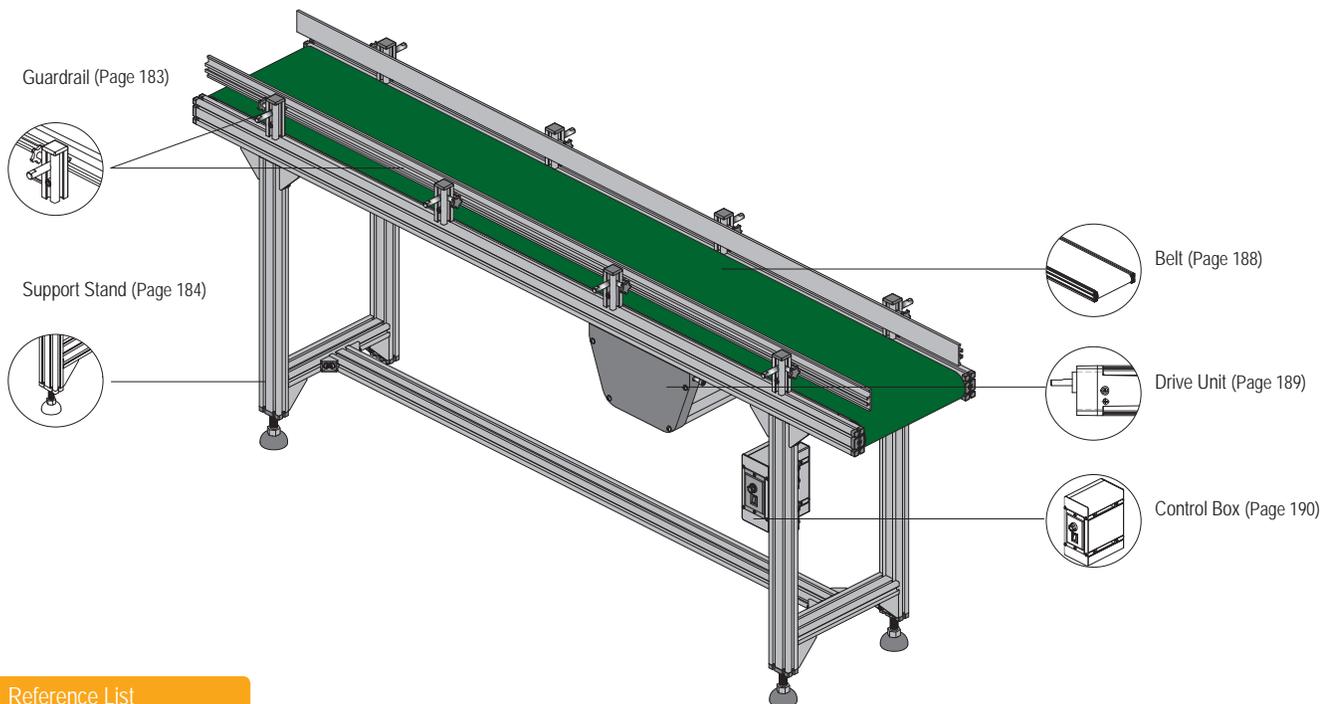
## Belt Conveyor

## Introduction

Belt conveyor is used to transfer a wide range of light or heavy products either continuously or intermittently. The structure is simple which leads to be a cost effective way to convey goods smoothly and with relatively less noise. It is suitable to use where a quiet work environment is necessary.

## Layout

Take B2200 Belt Conveyor as example:



## Reference List

| Conveyor Type | Conveyor Length (mm) | Conveyor Width (mm) | Max. Load Capacity (kg) | Max. Belt Speed (m/min) |
|---------------|----------------------|---------------------|-------------------------|-------------------------|
| B1100         | 600≤L≤3000mm         | 80≤W≤300mm          | 30                      | 40                      |
| B1200         | 600≤L≤6000mm         | 80≤W≤300mm          | 40                      | 40                      |
| B2100         | 600≤L≤6000mm         | 80≤W≤400mm          | 40                      | 40                      |
| B2200         | 600≤L≤10000mm        | 80≤W≤400mm          | 50                      | 40                      |
| B3100         | 600≤L≤6000mm         | 200≤W≤600mm         | 50                      | 40                      |
| B3200         | 1000≤L≤20000mm       | 300≤W≤1000mm        | 120                     | 40                      |

B1100

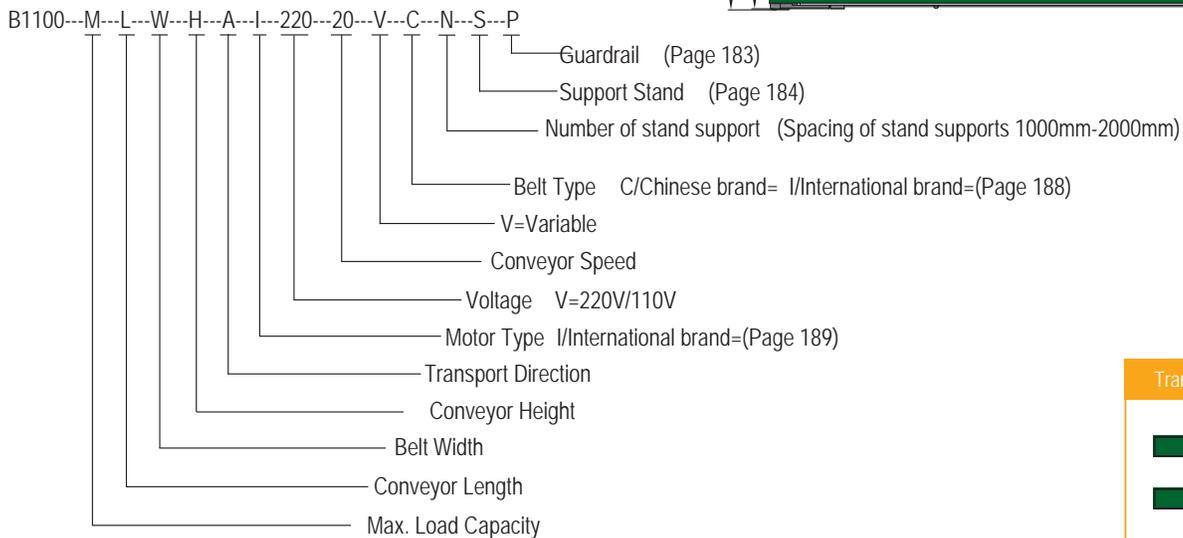
Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Conveyor Length    | $600 \leq L \leq 3000\text{mm}$ |
| Conveyor Width     | $80 \leq W \leq 300\text{mm}$   |
| Max. Load Capacity | 30kg                            |
| Max. Belt Speed    | V max.=40m/min                  |
| Pulley Diameter    | $\Phi 47\text{mm}$              |

Features/Benefits

1. Efficient installation and adjustment;
2. End drive, save space;
3. T slot aluminum profile frame for easy accessory attachment.

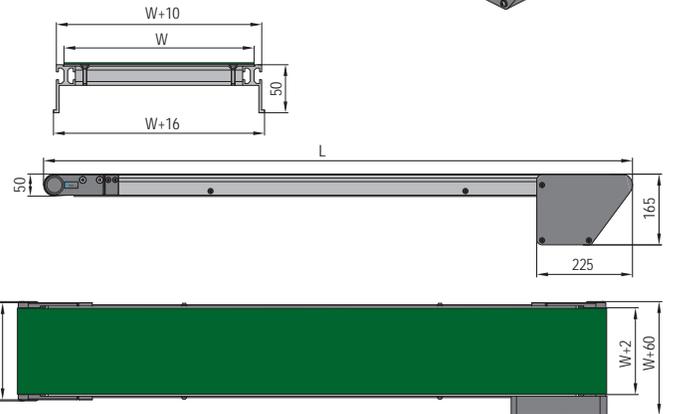
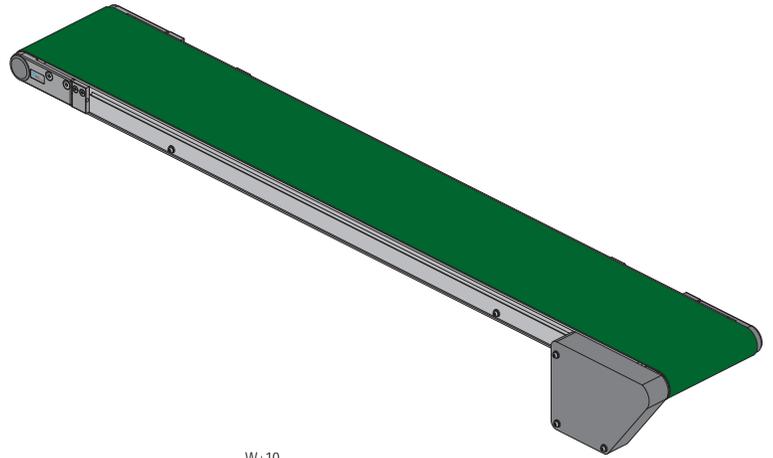
Ordering Reference



Example:

B1100---M10---L2000---W200---H800---A---I---220---20---V---C---N2---S1---P1

B1100 series end drive conveyor---max. load capacity 10kg---2000mm long---200mm wide---800mm high---transport direction A  
---imported motor---220V---conveyor speed 20m/min---variable speed---chinese brand belt--- 2sets of stand support---S1 support stand---P1 guardrail.



Transport Direction



Direction A&B preferred, if C&D needed, please contact us at: [info@moduasm.mx](mailto:info@moduasm.mx)

! Please cancel the corresponding number if it doesn't needed.

! The load capacity will be reduced when the conveyor speed exceeds 20m/min, for more details, please contact us at: [info@moduasm.mx](mailto:info@moduasm.mx)

! Please refer to page 190 when using adjustable speed motor.

! Non accumulation



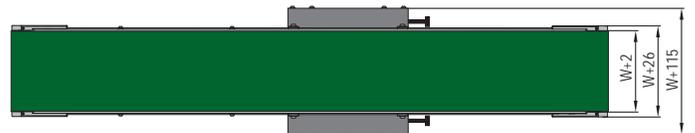
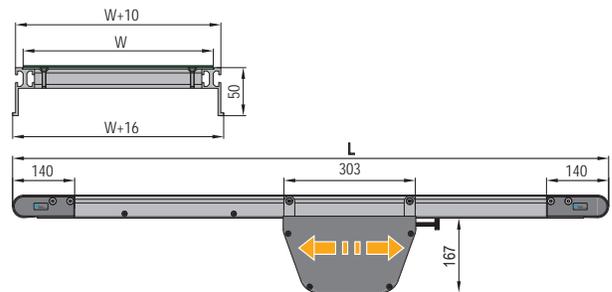
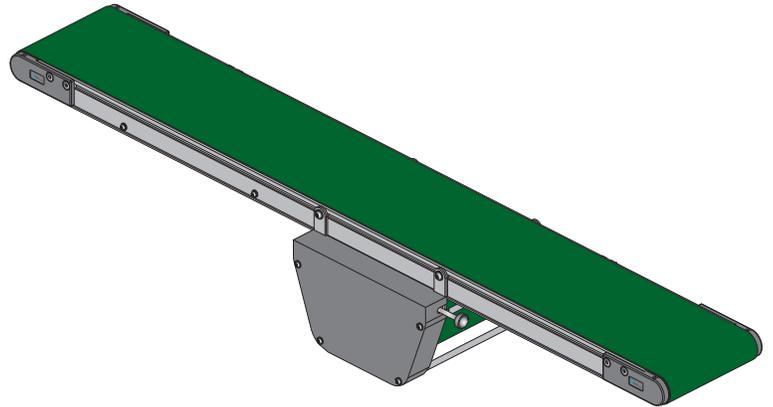
B1200

Specifications

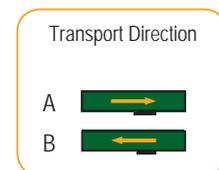
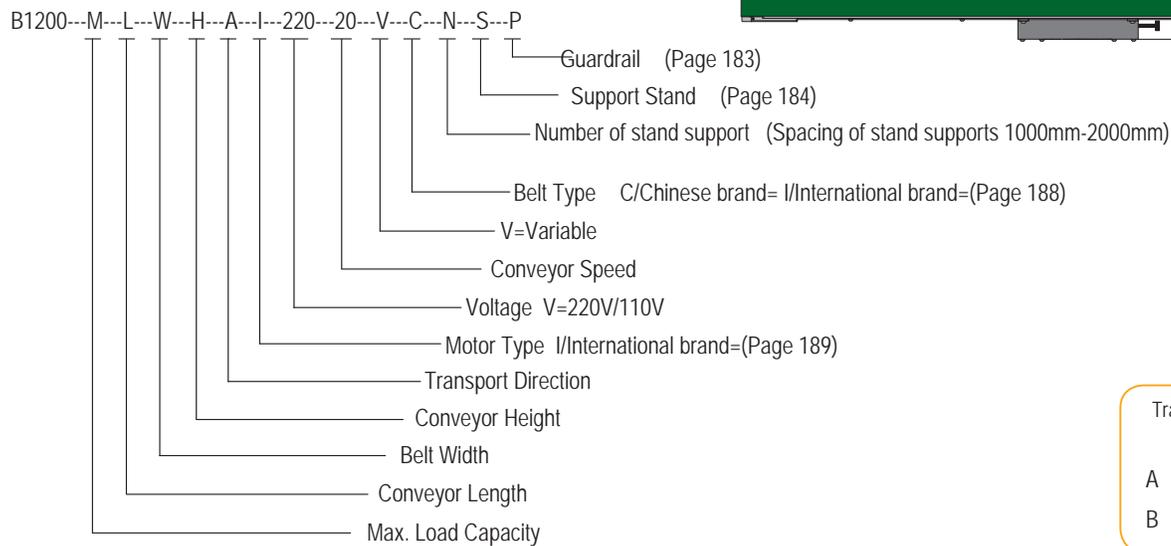
|                    |                                 |
|--------------------|---------------------------------|
| Conveyor Length    | $600 \leq L \leq 6000\text{mm}$ |
| Conveyor Width     | $80 \leq W \leq 300\text{mm}$   |
| Max. Load Capacity | 40kg                            |
| Max. Belt Speed    | V max.=40m/min                  |
| Pulley Diameter    | $\Phi 80\text{mm}$              |

Features/Benefits

1. Quick adjust belt tensioning;
2. Center drive models make conveyor more safe and reliable; operation in both directions
3. T slot aluminum profile frame for easy accessory attachment.



Ordering Reference



Example :

B1200---M10---L2000---W200---H800---A---I---220---20---V---C---N2---S1---P1

B1200 series center drive conveyor---max. load capacity 10kg---2000mm long---200mm wide---800mm high---transport direction A  
---imported motor---220V---conveyor speed 20m/min---variable speed---chinese brand belt--- 2sets of stand support---S1 support stand---P1 guardrail.

- ⚠ Please cancel the corresponding number if it doesn't needed.
- ⚠ The load capacity will be reduced when the conveyor speed exceeds 20m/min,for more details, please contact us at: info@moduasm.mx
- ⚠ Please refer to page 190 when using adjustable speed motor.

 Non accumulation



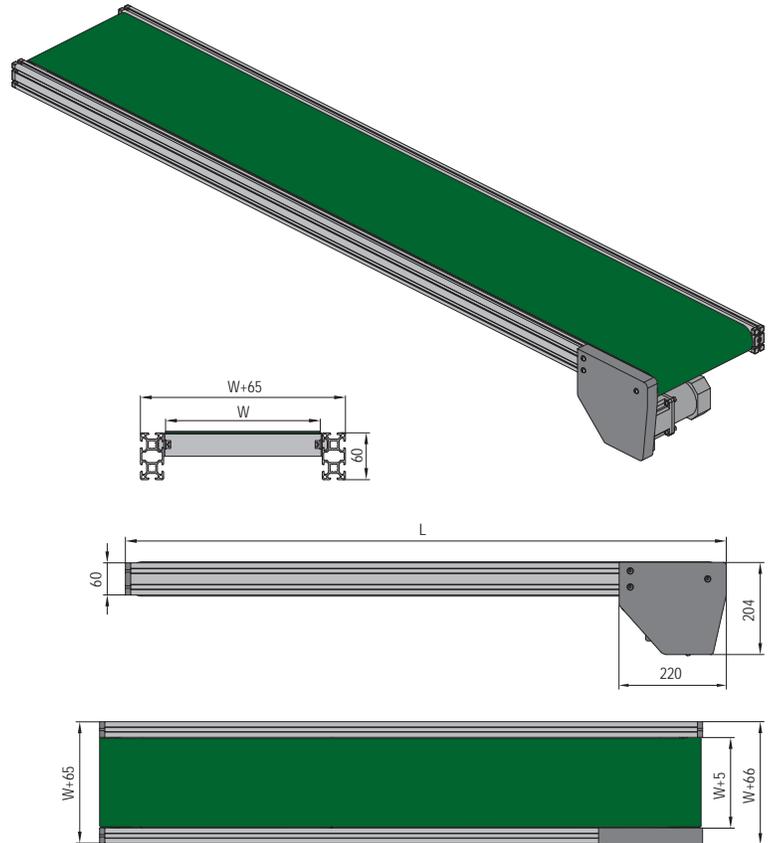
B2100

Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Conveyor Length    | $600 \leq L \leq 6000\text{mm}$ |
| Conveyor Width     | $80 \leq W \leq 400\text{mm}$   |
| Max. Load Capacity | 40kg                            |
| Max. Belt Speed    | V max.=40m/min                  |
| Pulley Diameter    | $\Phi 60\text{mm}$              |

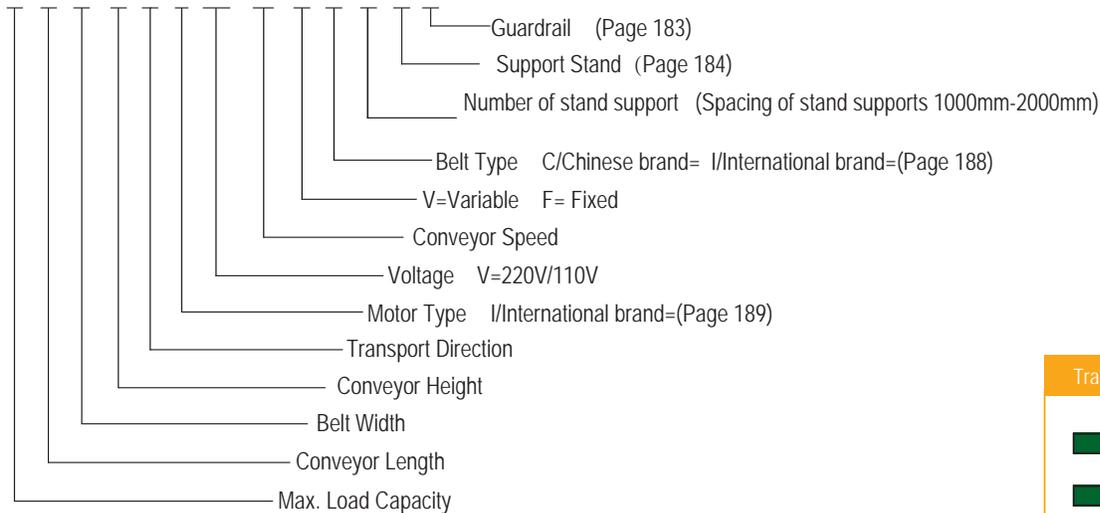
Features/Benefits

1. Efficient installation and adjustment;
2. End drive, save space;
3. T slot aluminum profile frame for easy accessory attachment.



Ordering Reference

B2100---M---L---W---H---A---I---220---20---V---C---N---S---P

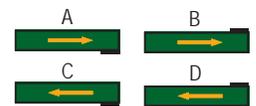


Example:

B2100---M10---L2000---W200---H800---A---I---220---20---V---C---N2---S1---P1

B2100 series end drive conveyor---max. load capacity 10kg---2000mm long---200mm wide---800mm high---transport direction A  
---imported motor---220V---conveyor speed 20m/min---variable speed---chinese brand belt--- 2sets of stand support---S1  
support stand---P1 guardrail.

Transport Direction



Direction A&B preferred, if C&D needed, please contact us at: info@moduasm.mx

⚠ Please cancel the corresponding number if it doesn't needed.

⚠ The load capacity will be reduced when the conveyor speed exceeds 20m/min, for more details, please contact us at: info@moduasm.mx

⚠ Please refer to page 190 when using adjustable speed motor.

⚠ Non accumulation



B2200

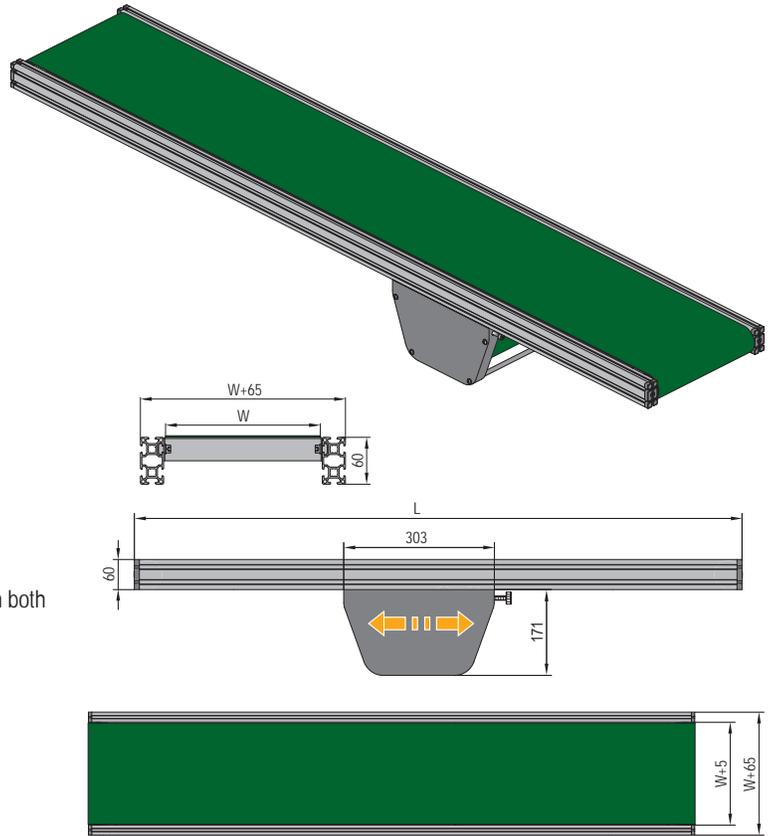
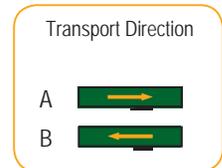
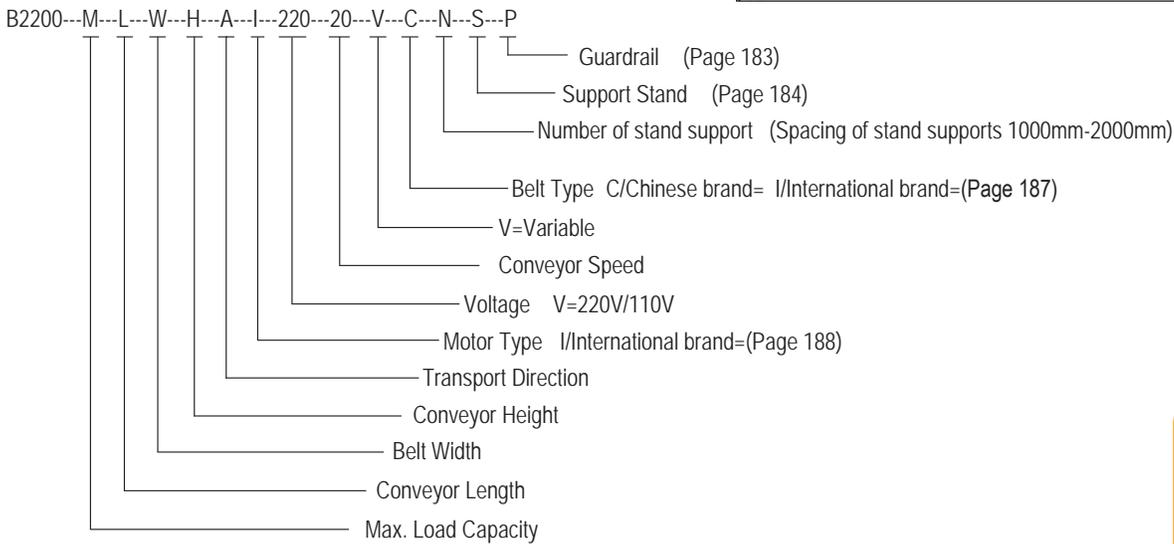
Specifications

|                    |                                  |
|--------------------|----------------------------------|
| Conveyor Length    | $600 \leq L \leq 10000\text{mm}$ |
| Conveyor Width     | $80 \leq W \leq 400\text{mm}$    |
| Max. Load Capacity | 50kg                             |
| Max. Belt Speed    | V max.=40m/min                   |
| Pulley Diameter    | $\Phi 80\text{mm}$               |

Features/Benefits

1. Quick adjust belt tensioning;
2. Center drive models make conveyor more safe and reliable, operation in both directions;
3. T slot aluminum profile frame for easy accessory attachment.

Ordering Reference



Example:

B2200---M20---L2000---W200---H800---A---I---220---20---V---C---N2---S1---P1

B2200 series center drive conveyor---max. load capacity 20kg---2000mm long---200mm wide---800mm high---transport direction A  
---imported motor---220V---speed 20m/min---variable speed---chinese brand belt--- 2sets of stand support---S1 support stand---P1 guardrail.

⚠ Please cancel the corresponding number if it doesn't needed.

⚠ The load capacity will be reduced when the conveyor speed exceeds 20m/min,for more details, please contact us at: info@moduasm.mx

⚠ Please refer to page 190 when using adjustable speed motor.

⚠ Non accumulation



B3100

Specifications

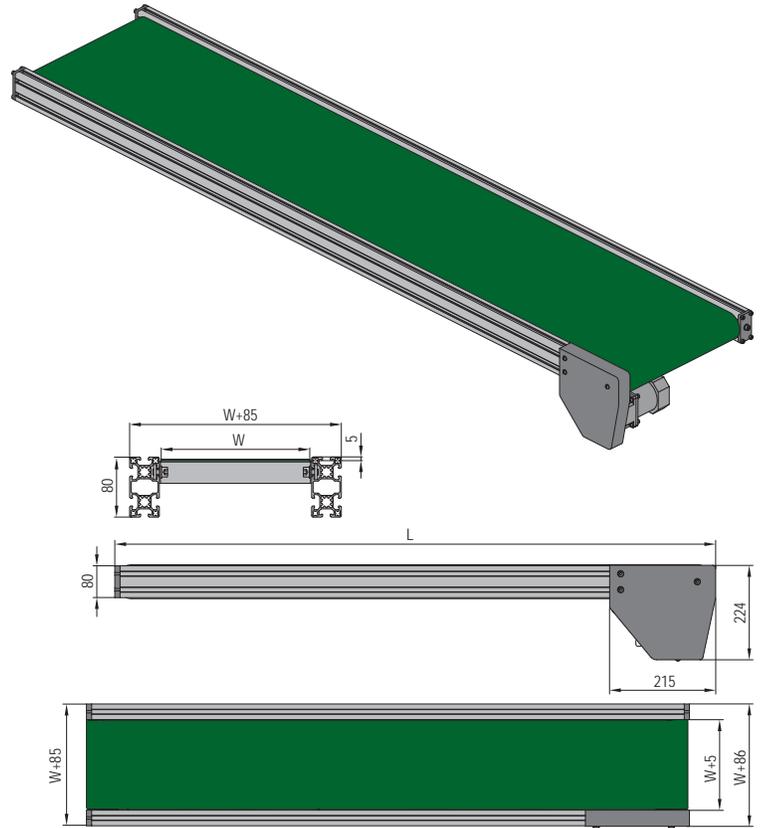
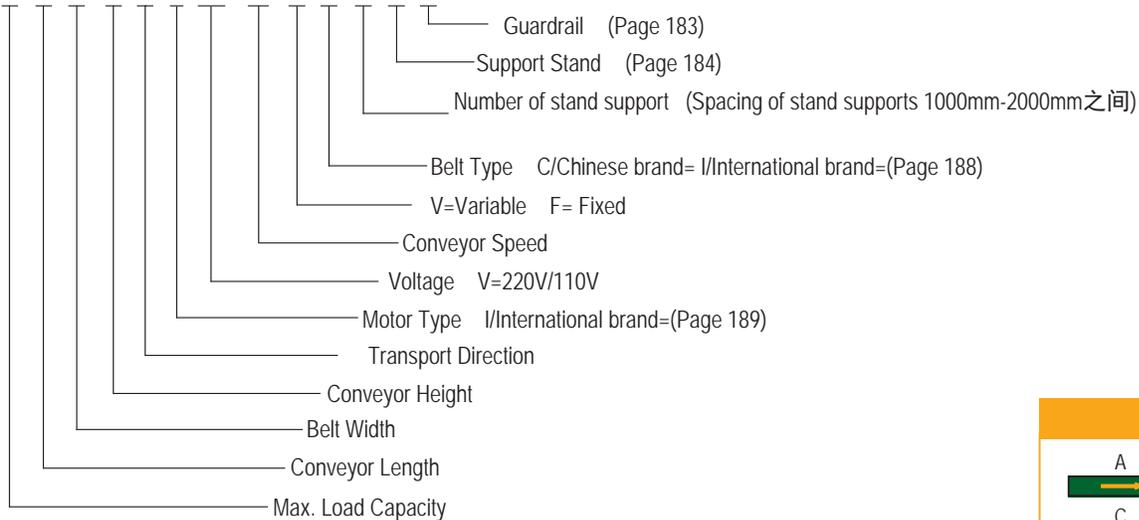
|                    |                                 |
|--------------------|---------------------------------|
| Conveyor Length    | $600 \leq L \leq 6000\text{mm}$ |
| Conveyor Width     | $200 \leq W \leq 600\text{mm}$  |
| Max. Load Capacity | 50kg                            |
| Max. Belt Speed    | V max.=40m/min                  |
| Pulley Diameter    | $\Phi 70\text{mm}$              |

Features/Benefits

1. Efficient installation and adjustment;
2. End drive, save space;
3. T slot aluminum profile frame for easy accessory attachment.

Ordering Reference

B3100---M---L---W---H---A---I---220---20---V---C---N---S---P

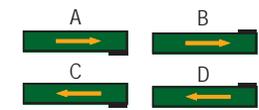


Example:

B3100---M20---L2000---W200---H800---A---I---220---20---V---C---N2---S1---P1

B3100 series end drive conveyor---max. load capacity 20kg---2000mm long---200mm wide---800mm high---transport direction A  
---imported motor---220V---conveyor speed 20m/min---variable speed---chinese brand belt--- 2sets of stand support---S1  
support stand---P1 guardrail.

**Direction**



Direction A&B preferred, if C&D needed, please contact us at: info@moduasm.mx

⚠ Please cancel the corresponding number if it doesn't needed.

⚠ Please refer to page 190 when using adjustable speed motor.

⚠ The load capacity will be reduced when the conveyor speed exceeds 20m/min, for more details, please contact us at: info@moduasm.mx

⚠ Non accumulation



B3200

Specifications

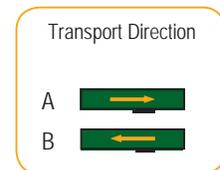
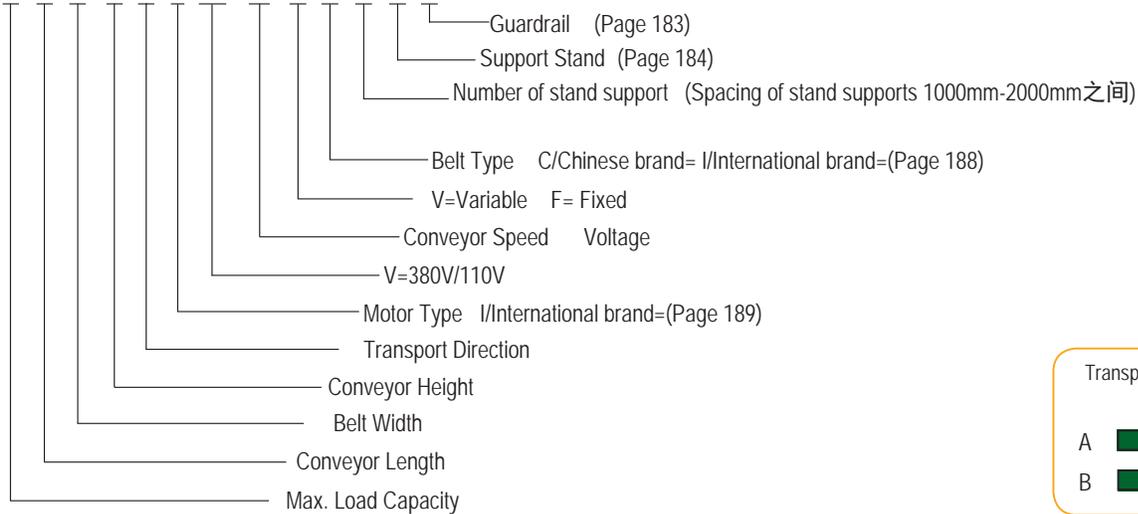
|                    |                                   |
|--------------------|-----------------------------------|
| Conveyor Length    | $1000 \leq L \leq 20000\text{mm}$ |
| Conveyor Width     | $300 \leq W \leq 1000\text{mm}$   |
| Max. Load Capacity | 120kg                             |
| Max. Belt Speed    | V max.=40m/min                    |
| Pulley Diameter    | $\Phi 120\text{mm}$               |

Features/Benefits

1. Quick adjust belt tensioning;
2. Center drive models make conveyor more safe and reliable, operation in both directions;
3. T slot aluminum profile frame for easy accessory attachment.

Ordering Reference

B3200---M---L---W---H---A---I---380---20---V---C---N---S---P



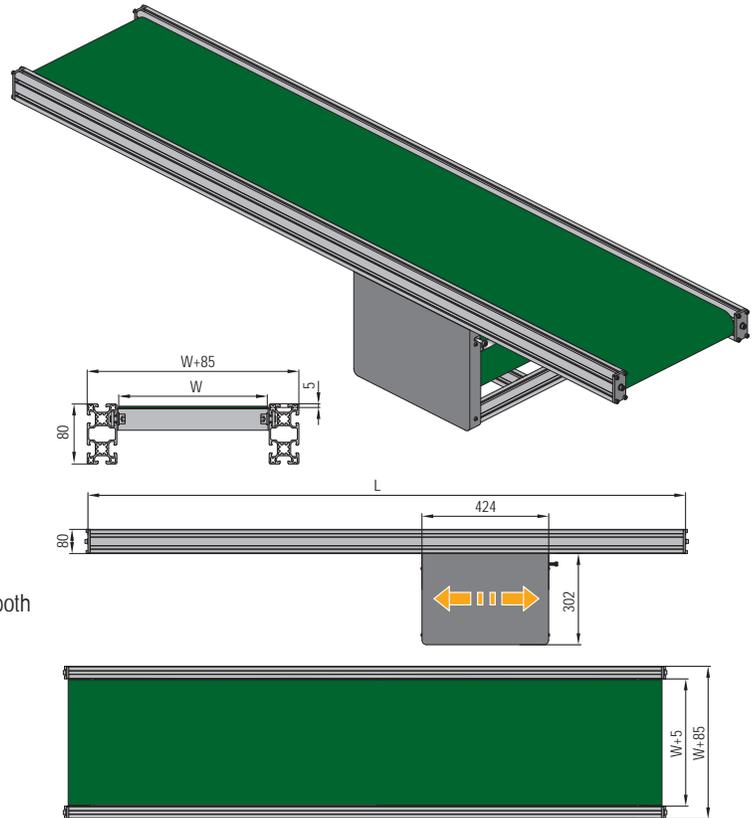
Example:

B3200---M60---L2000---W200---H800---A---I---380---20---V---C---N2---S1---P1

B3200 series center drive conveyor---max. load capacity 60kg---2000mm long---200mm wide---800mm high---transport direction A  
---imported motor---380V---conveyor speed 20m/min---variable speed---chinese brand belt---2sets of stand support---S1 support stand---P1 guardrail.

- ⚠ Please cancel the corresponding number if it doesn't needed.
- ⚠ The load capacity will be reduced when the conveyor speed exceeds 20m/min, for more details, please contact us at: info@moduasm.mx.
- ⚠ Please refer to page 190 when using adjustable speed motor.

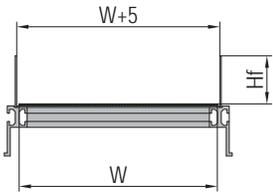
⚠ Non accumulation



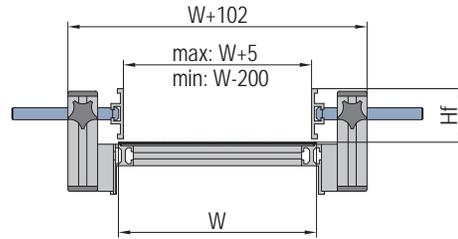
Guardrail

**B1100/B1200 Guardrail**

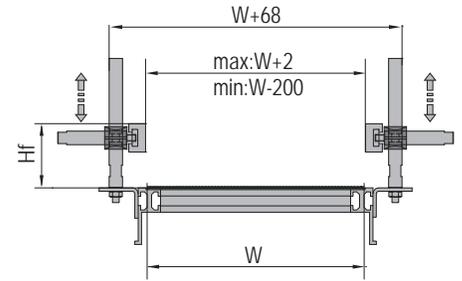
P1-Fixed Guardrail



P2-Adjustable Guardrail

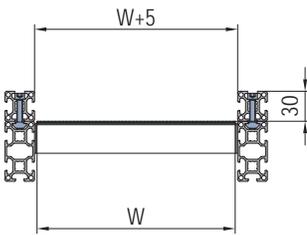


P3-Adjustable Guardrail

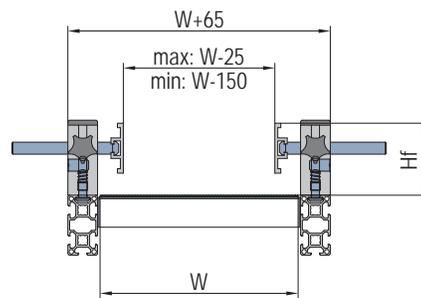


**B2100/B2200 Guardrail**

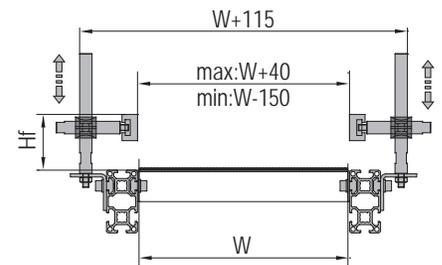
P1-Fixed Guardrail



P2-Adjustable Guardrail

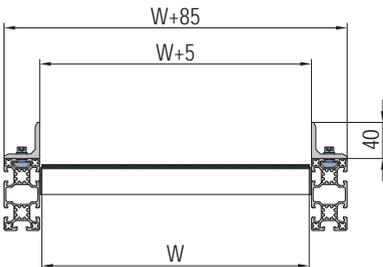


P3-Adjustable Guardrail

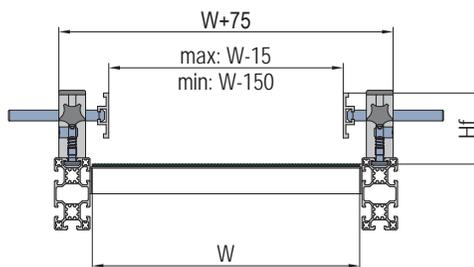


**B3100/B3200 Guardrail**

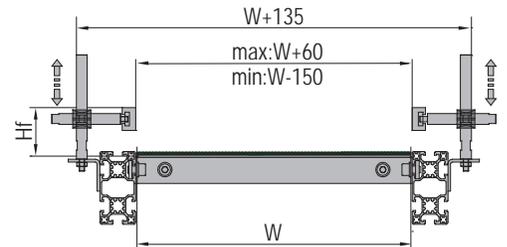
P1-Fixed Guardrail



P2-Adjustable Guardrail

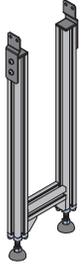


P3-Adjustable Guardrail



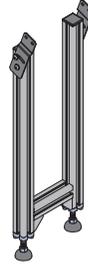
Support Stand

B1100/B1200 Support Stand



S1-Angle Fixed

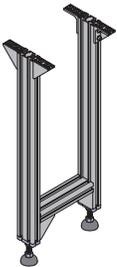
1. 40x40 aluminum profile support frame;
2.  $\pm 30$ mm height adjustment.



S2-Angle Adjustable

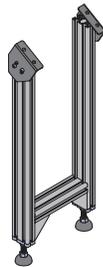
1. 40x40 aluminum profile support frame;
2.  $\pm 30$ mm height adjustment;
3.  $\pm 15^\circ$  angle adjustment.

B2100/B2200 Support Stand



S1-Angle Fixed

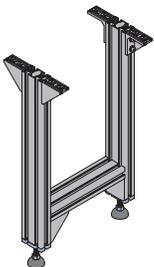
1. 30x60 aluminum profile support frame;
2.  $\pm 30$ mm height adjustment.



S2-Angle Adjustable

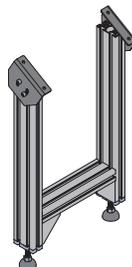
1. 30x60 aluminum profile support frame;
2.  $\pm 30$ mm height adjustment;
3.  $\pm 15^\circ$  angle adjustment.

B3100/B3200 Support Stand



S1-Angle Fixed

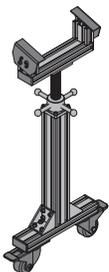
1. 40x80 aluminum profile support frame;
2.  $\pm 30$ mm height adjustment.



S2-Angle Adjustable

1. 40x80 aluminum profile support frame;
2.  $\pm 30$ mm height adjustment;
3.  $\pm 15^\circ$  angle adjustment.

All Types Support Stand



Height Adjustable

1.  $\pm 120$ mm height adjustment;
2.  $\pm 15^\circ$  angle adjustment;

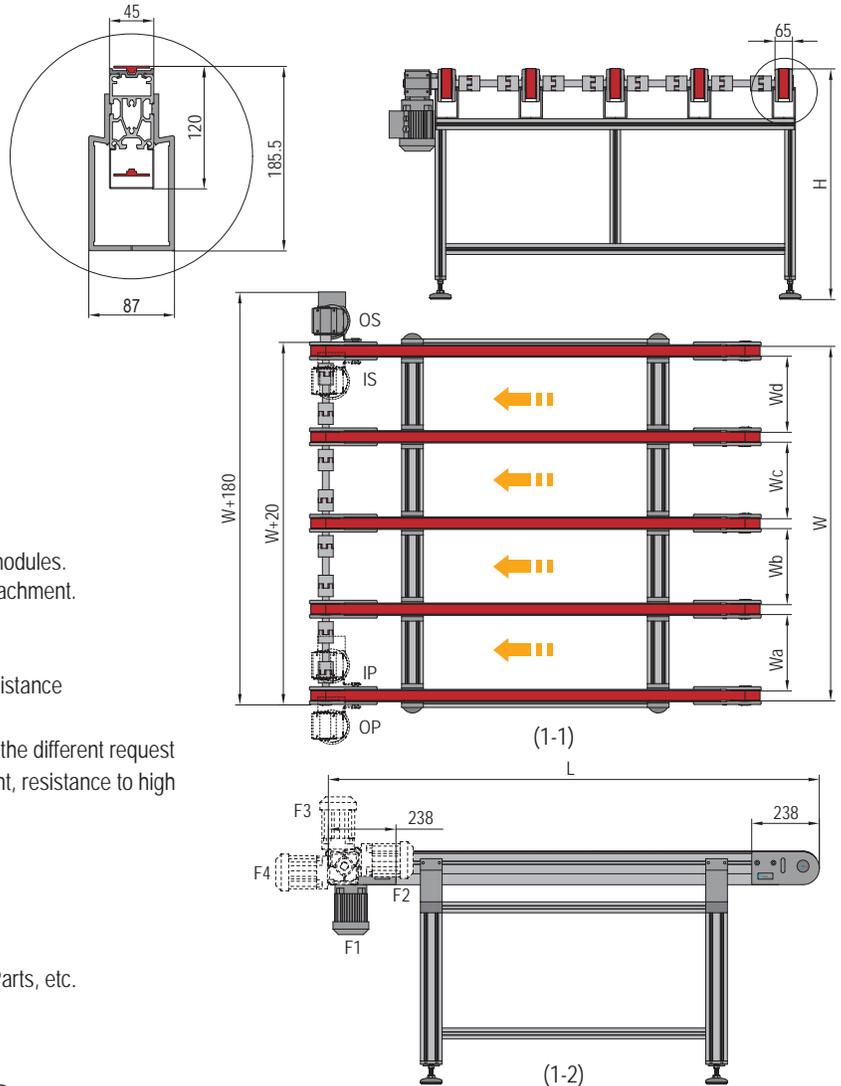
Toothed Belt Conveyor

Specifications

|                     |                                    |
|---------------------|------------------------------------|
| Conveyor Length     | $700 \leq L \leq 4000\text{mm}$    |
| Conveyor Width      | $260 \leq W \leq 3000\text{mm}$    |
| Conveyor Height     | Customer Specified                 |
| Max. Load Capacity  | 120kg                              |
| Max. Conveyor Speed | $V_{\text{max.}} = 30\text{m/min}$ |
| Drive Model         | Direct                             |
| Conveying Medium    | PU Toothed Belt                    |

Features/Benefits

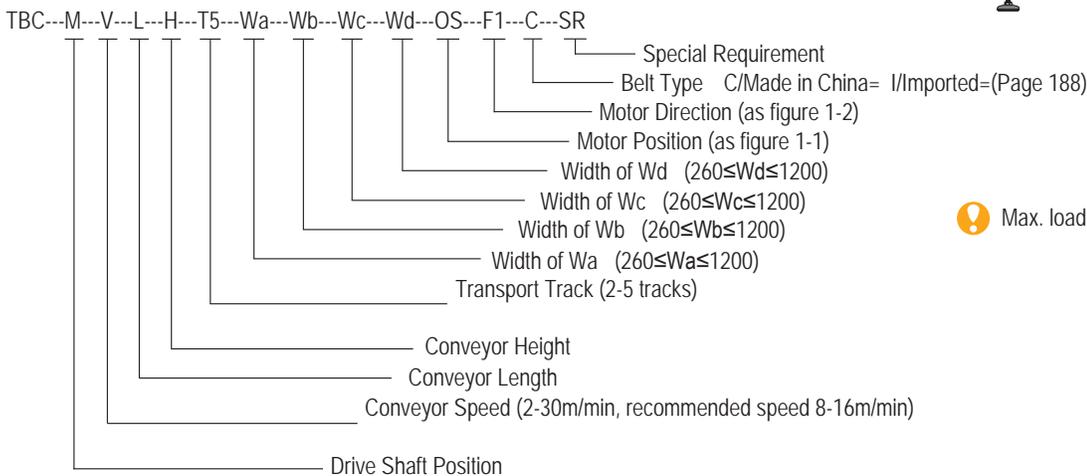
1. The drive and return units are constructed from standardized modules. T slot aluminum profile frames are used for easy accessory attachment.
2. Belt section with two to five tracks (maximum five tracks), the distance between tracks can be determined individually.
3. The surface treatment of toothed belt can be specified to meet the different request from customers such as increase or reduce the friction coefficient, resistance to high temperature up to 160°C or antistatic.



Industries Served

Photovoltaic Industry, Electronics, Glass Conveying, Automobile Parts, etc.

Ordering Reference



Example:

TBC---M60---V16---L2000---H800---T5---Wa300---Wb300---Wc300---Wd300---OS---F1---C

Toothed belt conveyor---max. load capacity 60kg---16m/min---2000mm long---800mm high---five transport tracks---width of Wa 300mm---width of Wb 300mm support---width of Wc 300mm---width of Wd 300mm---motor position at OS---motor direction of F1---chinese brand belt.

! Max. load capacity of each toothed belt is 60kg



Incline belt conveyor with sidewall

## Incline Belt Conveyor

### Industries Served

Light Industry, Food, Chemical Industry, Machinery etc.



Incline belt conveyor with stainless steel sidewall



Incline belt conveyor with sidewall



Incline belt conveyor with sidewall

Incline Belt Conveyor

Specifications

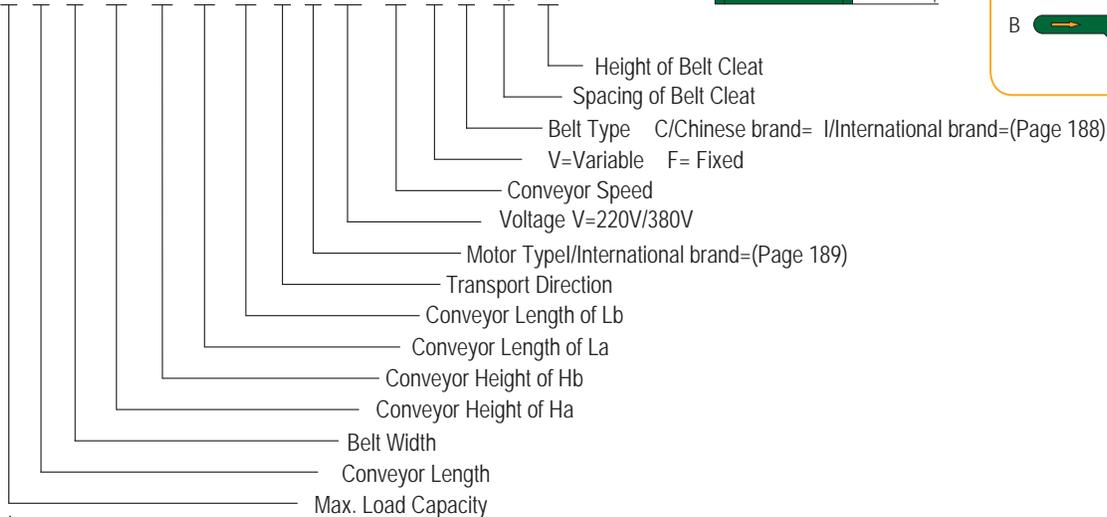
|                    |                                   |
|--------------------|-----------------------------------|
| Conveyor Length    | $1500 \leq L \leq 10000\text{mm}$ |
| Conveyor Width     | $200 \leq W \leq 800\text{mm}$    |
| Max. Load Capacity | 60kg                              |
| Belt Speed         | $2 \leq V \leq 20\text{m/min}$    |
| Drive Model        | Direct/Indirect                   |
| Belt Material      | Rubber/PU/PVC                     |

Features/Benefits

1. Simple structure with low cost;
2. Belt with sidewall and cleat can transfer very small products;
3. T slot aluminum profile frame for easy accessory attachment.

Ordering Reference

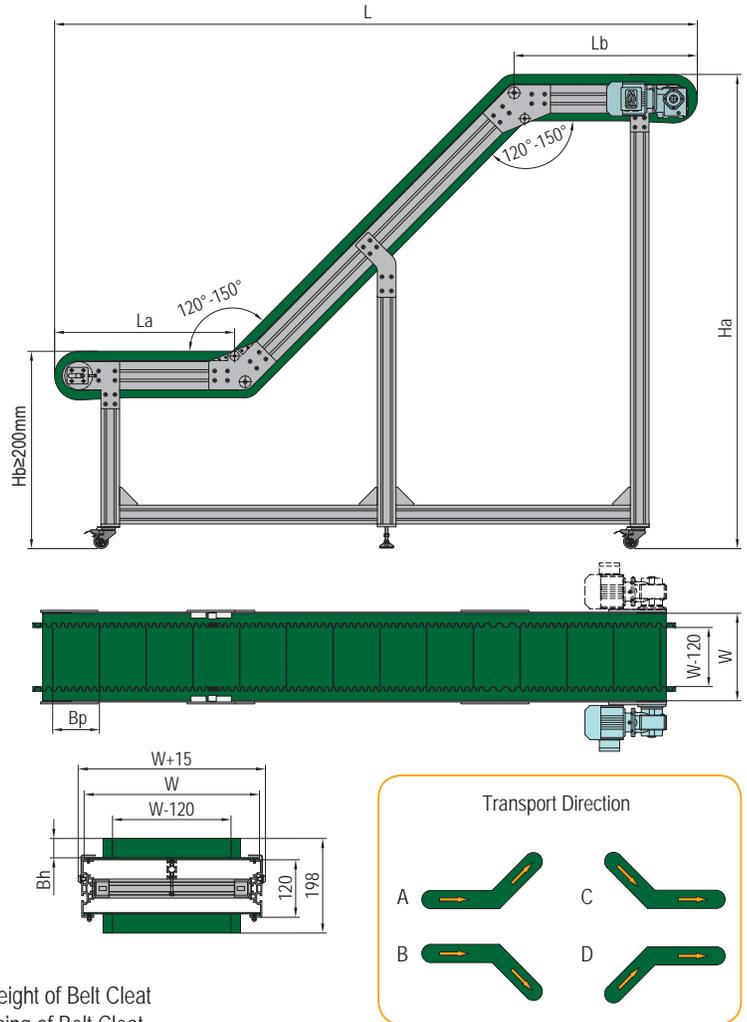
INC---M---L---W---Ha---Hb---La---Lb---A---I---220---20---V---C---Bp---Bh



Example:

INC---M30---L2000---W400---Ha1452---Hb300---La520---Lb520---A---I---220---20---V---C---Bp50---Bh30

Incline conveyor---max. load capacity 30kg---2000mm long---400mm wide---height of Ha 1452mm---height of Hb 300mm--- length of La 520mm---length of Lb 520mm  
---transport direction of A---imported motor---220V---conveyor speed 20m/min---variable speed---chinese brand belt---spacing of belt cleat 50mm---height of belt cleat 30mm.



⚠ Please cancel the corresponding number if it doesn't needed.

⚠ The load capacity will be reduced when the conveyor speed exceeds 20m/min, for more details, please contact us at: [info@moduasm.mx](mailto:info@moduasm.mx)

⚠ Workpiece pallets should be conveyed toward a drive unit, reversible operation is forbidden.

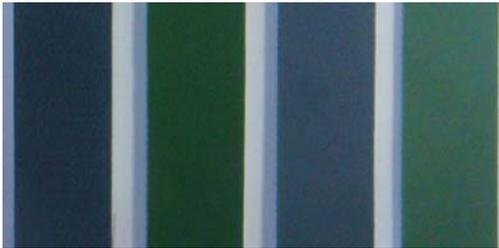
⚠ Non accumulation



Belt

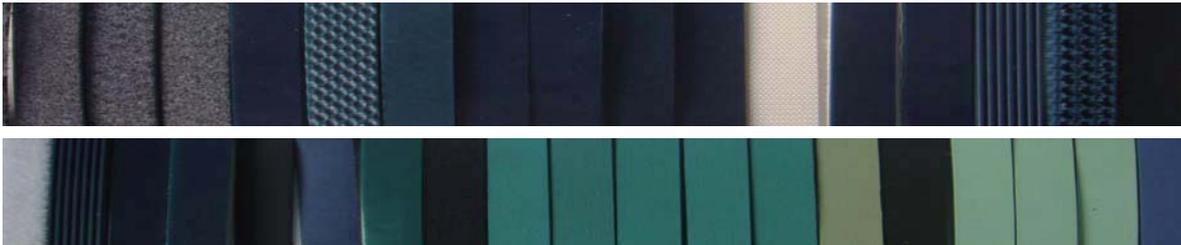
Seglin Belt

 Standard conveyor belt



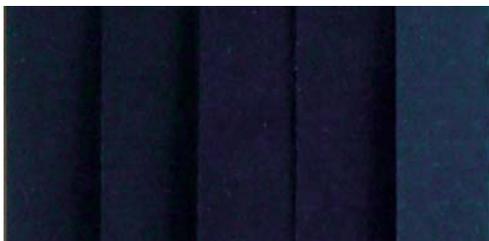
| Colour     | Thickness (mm) | Temperature range | Application types    |
|------------|----------------|-------------------|----------------------|
| atrovirens | 1              | -10~70°           | B1100/B1200          |
| atrovirens | 2              | -10~70°           | all types            |
| atrovirens | 3              | -10~70°           | B2100/2200/3100/3200 |

 Other conveyor belt



Yongli Belt

 Standard conveyor belt



| Colour     | Thickness (mm) | Temperature range | Application types    |
|------------|----------------|-------------------|----------------------|
| green      | 1              | -10~80°           | B1100/B1200          |
| green      | 2              | -10~80°           | all types            |
| atrovirens | 3              | -10~80°           | B2100/2200/3100/3200 |

 Other conveyor belt



 For more details, please contact us at: [info@moduasm.mx](mailto:info@moduasm.mx)

Motor

 Import Motor

**Orientalmotor**



| Power | Voltage(single-phase) |
|-------|-----------------------|
| 25W   | 110/220V              |
| 40W   | 110/220V              |
| 60W   | 110/220V              |
| 90W   | 110/220V              |

**SEW**  
EURODRIVE



| Power | Voltage(three-phase) |
|-------|----------------------|
| 180W  | 380V                 |
| 250W  | 380V                 |
| 370W  | 380V                 |
| 750W  | 380V                 |

**NORD**  
DRIVESYSTEMS



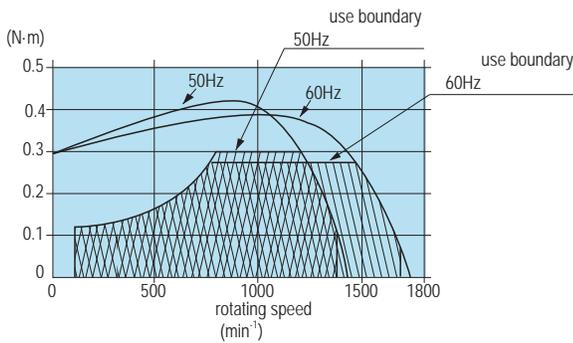
| Power | Voltage(three-phase) |
|-------|----------------------|
| 180W  | 380V                 |
| 250W  | 380V                 |
| 370W  | 380V                 |
| 750W  | 380V                 |

 Adjustable speed could be achieved by selecting the adjustable speed motors with control box.

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Instruction of small motor with speed controller (Example of Output 60W)

Motor speed vs. Torque

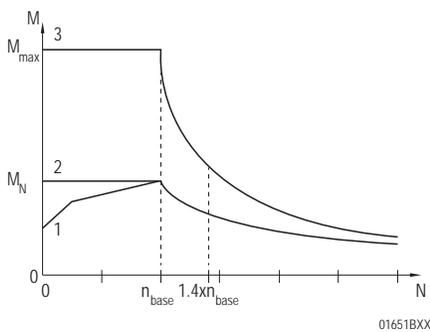


The use boundary of variable speed motor

The graph shows the allowed torque should be within the range of the shaded area. If the motor is used at torque outside the range, it could either cause the motor loss due to operating temperature rise or cause the gear tooth broken or etc. So please be aware to avoid such use.

**Important Note:** Optimum running speed should be at more than 60% of the speed range. If low speed is needed, it is better to change the gear head with a larger reduction ratio or to apply a forced-cooling fan to maintain the best performance of the motor.

Instruction of 380V three phase motor with forced cooling fan



- High start frequency
- With flywheel Z of high inertia
- Adjusting range >20
- Low speed or static state reaches the normal output torque
- Working frequency of long-term under 25Hz

$M_N$  =Rated torque of the motor

$M_{max}$  =Maximum torque of the motor

$M_{base}$  =Rated speed (transition speed) of the motor

1 =With integrated cooling

2 =With forced cooling

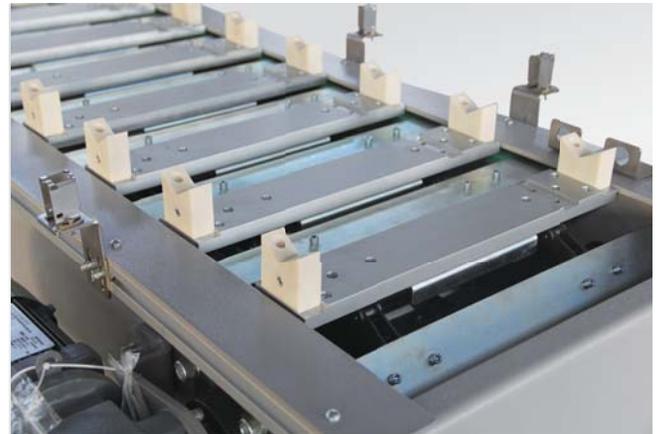
3 =Maximum torque

**Important Note:** The motor proposed are SEW and NORD which could use frequency controller, and the recommended frequency should be more than 25HZ for Motor of 50HZ. Otherwise, a forced-cooling fan is needed to achieve the best performance of the motor.

Other Type of Conveyors



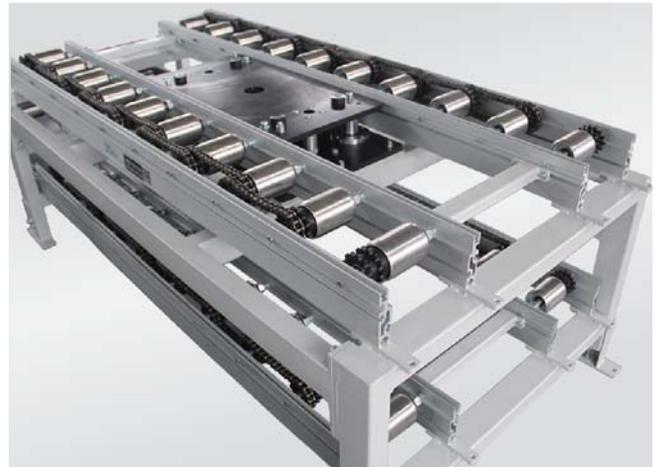
Chain conveyor with workpiece



Chain conveyor with workpiece



Automation assembly line (for rubber coating)



Double roller pallet conveyor



Heavy load capacity of chain conveyor (for 3000kg)



Shaft conveyor for heavy load



Electrical Control System



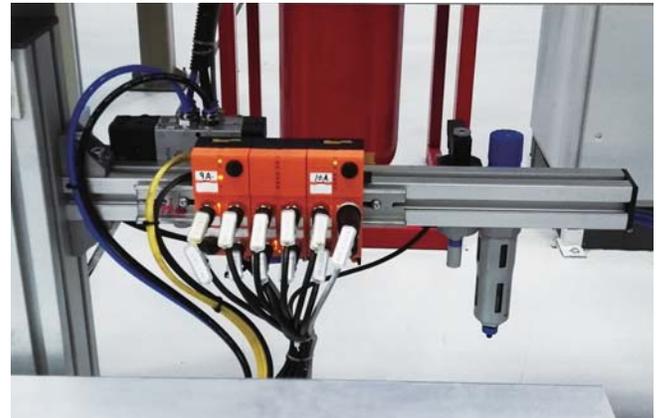
Centralized control system



Pallet conveying control system



AS-i Distribution control system



AS-i Distribution control system



Electrical Control Cabinet



Bearing production line



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# Modular Conveyor System

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