Modular Transfer System

TLM 1000

TLM 2000

September 2001 edition

Notes

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Lift
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Workpiece carrier
p 12

Short cam
p 23

Double cam
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Flexible and economical industrial system adapted to conveying workpiece carriers on assembly lines with automatic or manually operated work stations.

TLM 1000
TLM 2000
General principle

Workpiece carriers are conveyed on two parallel belts which leave necessary room for stoppers, positioning units... Retractable pins, located under the workpiece carrier, allow:

> guiding the workpiece carrier with four pins on straight sections,

> guiding the workpiece carrier round bends with two pins (the other being retracted).

The modular design of TLM 1000 and TLM 2000 transfer system as well as the use of standard elements allow a great flexibility in the conception of assembly lines and reduce the time necessary for survey and implementation.

Further extensions and modifications can be easily made.
Data

<table>
<thead>
<tr>
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<th>TLM 1000</th>
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<tr>
<td>Workpiece carriers (mm)</td>
<td>100x100</td>
<td>200x200</td>
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<td>100x150</td>
<td>200x250</td>
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<td>Load/workpiece carrier (daN)</td>
<td>2</td>
<td>10</td>
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<tr>
<td>Speed (m/mn)</td>
<td>10 - 15 - 20</td>
<td>9 - 15 - 19</td>
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<tr>
<td>Length of conveying unit</td>
<td>Mini</td>
<td>Maxi</td>
</tr>
<tr>
<td></td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>3 160</td>
<td>6 250</td>
</tr>
<tr>
<td>Maxi accumulation load</td>
<td>25</td>
<td>100</td>
</tr>
<tr>
<td>per motor (daN)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor power</td>
<td>0,09 KW - 0,4 A</td>
<td>V</td>
</tr>
<tr>
<td>(380 V three-phases)</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>(different powers on request)</td>
<td>0,25</td>
<td>15</td>
</tr>
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<td></td>
<td></td>
<td>15</td>
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<td>1,24</td>
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<td>0,55</td>
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<td></td>
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<td>1,60</td>
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The maximum length of the conveying units are respectively :
> 3160 mm for TLM 1000
> 6250 mm for TLM 2000

For long spans, several elements can be joined end to end.

For important accumulations, the length of the conveying units is adapted to the load.

It is recommended to place sensors in order to control accumulation of the load.

Pneumatic cylinders must be equipped with flow rate controllers.

It is possible for long spans to be cut in order to facilitate the dismantling of the machines.
Sections

TLM 1000
Width 100

TLM 2000
Width 200

Width 300
400
Use:

Workpiece carriers are used to support and position the components during the process. The upper plate (made of aluminium) is used to fix the components and perform an accurate positioning of the workpiece carrier. The PA base (which has a very low friction coefficient) is used to shelter the pins and to stop the workpiece carrier on the stopper. Steel bushes assure perfect accuracy and resistance against deterioration. Small metallic bars allow detection at stoppers and at positioning units.

Unidirectional workpiece carriers:
They are used in applications which don’t require any swivelling. They allow operating with only one sensor in «stopper up mode».

Multidirectional workpiece carriers:
They can be used in case of swivelling of the workpiece carrier on the line, (90° and 180° for the square workpiece carriers, only 180° for the rectangular workpiece carriers).

90° kit:
Necessary for a 90° swivelling of the workpiece carrier on the line. Including 2 bushes and 2 detection bars.
Workpiece carriers

Width 100

Technical data:

Plate Al
Base, PA black
2 steel bushes
4 pins PA
4 springs
4 countersunk screws M4x10
2 detection bars
2 plugs

Multidirectional workpiece carriers:

Plate Al
Base, PA black
4 steel bushes
4 pins PA
4 springs
4 countersunk screws M4x10
4 detection bars
4 plugs

Weight:
100x100 : 0,41 kg
100x150 : 0,53 kg

⚠ Maximum load : 2 daN

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<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
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<tbody>
<tr>
<td>Workpiece carrier 100x100</td>
<td>1 pce</td>
<td>110.61.000</td>
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<tr>
<td>Multidirectional w. carrier 100x100</td>
<td>1 pce</td>
<td>110.63.000</td>
</tr>
<tr>
<td>Workpiece carrier 100x150</td>
<td>1 pce</td>
<td>115.61.000</td>
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</table>
Workpiece carriers
Unidirectional
Width 200

Technical data

Plate Al
Base, PA black
2 steel bushes
4 pins PA
4 springs
3 countersunk screws M6x25
1 countersunk screw M6x16
2 detection bars
2 plugs

Weight:
200x200 : 1,75 kg
200x250 : 2,20 kg
200x300 : 2,63 kg

⚠️ Maximum load : 10 daN

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<td>Workpiece carrier U 200x200</td>
<td>1 pce</td>
<td>120.61.000</td>
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<td>Workpiece carrier U 200x250</td>
<td>1 pce</td>
<td>125.62.000</td>
</tr>
<tr>
<td>Workpiece carrier U 200x300</td>
<td>1 pce</td>
<td>123.62.000</td>
</tr>
</tbody>
</table>
**Workpiece carriers**

**Multidirectional**

**Width 200**

### Technical data

Plate Al  
Base, PA black  
2 steel bushes  
4 pins PA  
4 springs  
4 countersunk screws M6x25  
2 detection bars  
2 plugs

### Weight:

- 200x200 : 1,75 kg  
- 200x250 : 2,20 kg  
- 200x300 : 2,63 kg

⚠️ Maximum load : 10 daN

### Option : 90° kit

- 2 detection bars  
- 2 steel bushes  
- 2 plugs

### Designation/Dimensions

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<th>Reference</th>
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<td>Workpiece carrier M 200x200</td>
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<tr>
<td>Workpiece carrier M 200x250</td>
<td>1 pce</td>
<td>125.73.000</td>
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<tr>
<td>Workpiece carrier M 200x300</td>
<td>1 pce</td>
<td>123.73.000</td>
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<tr>
<td>90° kit 200x200</td>
<td>1 pce</td>
<td>900.00.001</td>
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Workpiece carriers

Unidirectional

Width 300
400

Technical data

Plate Al
Base, PA black
2 steel bushes
4 pins PA
4 springs
9 countersunk screws M6x16
2 detection bars
2 plugs

Weight:
300x300 : 3,10 kg
300x400 : 4,10 kg
400x400 : 5,40 kg

⚠️ Maximum load : 10 daN

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<tr>
<td>Workpiece carrier U 400x400</td>
<td>1 pce</td>
<td>140.61.000</td>
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Workpiece carriers

Multidirectional

Width 300
400

Technical data

Plate Al
Base, PA black
2 steel bushes
4 pins PA
4 springs
8 countersunk screws M6x16
2 detection bars
2 plugs

Weight:
300x300 : 3,10 kg
300x400 : 4,10 kg
400x400 : 5,40 kg

⚠️ Maximum load : 10 daN

Option : 90° kit
• 2 detection bars
• 2 steel bushes
• 2 plugs

Designation/Dimensions
<table>
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<td>Workpiece carrier M 300x400</td>
<td>1 pce</td>
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<tr>
<td>Workpiece carrier M 400x400</td>
<td>1 pce</td>
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<tr>
<td>90° kit 300 et 400</td>
<td>1 pce</td>
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Use

Moving and accumulating workpiece carriers.

The motor can be fitted either vertically or horizontally.

According to the load, longer spans can be joined end to end by a straight joining.

The cutting of the conveyors allow division of the length, making transport and installation of the lines easier.

They also allow to make important lengths for reduced loads.

Spacers have to be fitted between the profiles every 1 m or 1,5 m to ensure a perfect parallelism of the profiles.
Conveying units

Width 100

Technical data

Mini length :  \( L = 500 \text{ mm} \)
Maxi length :  \( L = 3 \, 160 \text{ mm} \)

For longer spans and according to the load, use several conveying units

Including :
1 idling unit
1 driving unit
motor 380 V three-phases
0,09 KW
Speed : 10, 15 or 20 m/mm
(other speeds on request)

Conveyor length :
2 profiles 40x20, al anodized
2 belt guides PA, black
2 welded belts
width 12,5 mm
thickness 1 mm, welded

Maximum load /3 m : 50 daN

⚠ Maximum accumulation load /3m : 25 daN

Belt length in mm :
\[ L \, \text{welded} = \left( \frac{L - 160}{2} + 490 \right) \times 0,97 \]

Weight : 8 kg
\(+/m : 2,07 \text{ kg} \)

⚠ For L > 1 m : spacers ref. 110.15.000, have to be fitted between the two profiles 5 40x20 (about 1 per metre).

Weight : 0,042 kg

Designation/Dimensions | Order unit | Reference
--- | --- | ---
Conveying unit 100 | 1 pce | 110.05.000.**
Conveying length | m | 110.05.000.A
Spacer 100 | 1 pce | 110.15.000

(\(** = \text{speed of motor : 10 - 15 ou 20 ex. : 110.05.000.10} \)
Conveying units

### Width

- **200**
- **300**
- **400**

#### Technical data

**Minimum length:**
- \( L = 500 \text{ mm} \)

**Maximum length:**
- \( L = 6250 \text{ mm} \)

For longer spans and according to the load, use several conveying units.

**Including:**
- 1 idling unit
- 1 driving unit:
  - Speed: 9, 15 or 19 \( \text{m/mm} \)
  - (Other speeds on request)
  - Motor: 230/400 V 3-phases
  - 0.25 KW (9\( \text{m/mm} \))
  - 0.37 KW (15\( \text{m/mm} \))
  - 0.55 KW (19\( \text{m/mm} \))

**Conveyor length:**
- 2 profiles 80x40, Al anodized
- 2 belt guides PA, black
- 2 welded belts
- Width 25 mm
- Thickness 1,6 mm, welded

**Maximum load \( /6 \text{ m} \): 200 daN**

**Maximum accumulation load \( /6 \text{ m} \): 100 daN**

**Belt length in mm:**
\[
L_{\text{welded}} = [(L-100) \times 2 + 173] \times 0.98
\]

**Weight**
- **200**: 15,7 kg
- **300**: 18,5 kg
- **400**: 21,1 kg
- \( +/- \text{m} \): 6,7 kg

### Antistatic option:

To be ordered with the initial assembling:
- machining of the blocks
- 2 shouldered screws
- 2 steel rollers

#### Designation/Dimensions

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<th>Reference</th>
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<tbody>
<tr>
<td>Conveyor unit 200</td>
<td>1 pce</td>
<td>120.02.000.**</td>
</tr>
<tr>
<td>Conveyor unit 300</td>
<td>1 pce</td>
<td>130.02.000.***</td>
</tr>
<tr>
<td>Conveyor unit 400</td>
<td>1 pce</td>
<td>140.02.000.**</td>
</tr>
<tr>
<td>Conveyor length</td>
<td>m</td>
<td>120.02.000.A</td>
</tr>
<tr>
<td>Antistatic set</td>
<td>1 pce</td>
<td>120.02.000.C</td>
</tr>
</tbody>
</table>

\(** = \text{motor speed: 9 - 15 or 19} \quad \text{ex: 120.02.000.09} \)
Spacers

Width 200
300
400

Use
⚠️ If the length of the conveying unit is > 1.5 m spacers have to be fitted between the profiles 8 80x40. (1 spacer /1.5 m).

Technical data

Width 200:
Cast aluminium

Width 300 et 400:
Profile 8 40x40 light
2 universal fastenings

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<td>Spacer 200</td>
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<tr>
<td>Spacer 300</td>
<td>1 pce</td>
<td>130.15.000</td>
</tr>
<tr>
<td>Spacer 400</td>
<td>1 pce</td>
<td>140.15.000</td>
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</tbody>
</table>

Straight joinings

Width 100
200
300
400

Use
Allow to join end to end two conveying units.

Technical data
Guide PA, black
Joining set alu

Weight
100 : 0,16 kg
200 : 0,18 kg

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<tr>
<td>Straight joining 100</td>
<td>1 pce</td>
<td>110.18.000</td>
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<tr>
<td>Straight joining 200 - 300 - 400</td>
<td>1 pce</td>
<td>120.18.000</td>
</tr>
</tbody>
</table>
Height reductions

Use
For ergonomic manual stations (from a seated position). Enable reduction of the height of the conveyor in front of the worker.

Technical data
Including:
- 2 spacers
- 2 reducings PA
- 1 profile 40x16
- 1 conduit profile 40x20

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<th>Designation/Dimensions</th>
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<td>Height reduction 200</td>
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<td>Height reduction 300</td>
<td>1 pce</td>
<td>130.98.000</td>
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<tr>
<td>Height reduction 400</td>
<td>1 pce</td>
<td>140.98.000</td>
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</tbody>
</table>

Conveyor cuts

Use
They allow division of the conveyor lengths to make the transport and installation of the lines easier.

They also enable the making of important lengths when the load is limited.

TLM 1000:
length maximum 5 m
6 double universal fastenings 5

TLM 2000:
length maximum 12 m
6 double universal fastenings 8

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<thead>
<tr>
<th>Lengths</th>
<th>Loads</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>maxi daN</td>
</tr>
<tr>
<td>TLM 1000</td>
<td></td>
</tr>
<tr>
<td>4 m</td>
<td>40</td>
</tr>
<tr>
<td>5 m</td>
<td>30</td>
</tr>
<tr>
<td>TLM 2000</td>
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</tr>
<tr>
<td>7 m</td>
<td>180</td>
</tr>
<tr>
<td>8 m</td>
<td>160</td>
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<tr>
<td>9 m</td>
<td>140</td>
</tr>
<tr>
<td>10 m</td>
<td>120</td>
</tr>
<tr>
<td>11 m</td>
<td>100</td>
</tr>
<tr>
<td>12 m</td>
<td>80</td>
</tr>
</tbody>
</table>

Designation/Dimensions | Order unit | Reference |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Conveyor cut 100</td>
<td>1 pce</td>
<td>110.05.000B</td>
</tr>
<tr>
<td>Conveyor cut 200 - 300 - 400</td>
<td>1 pce</td>
<td>120.02.000B</td>
</tr>
</tbody>
</table>
Cams

Use

**Cams ED, EG, SD, SG**
Allow a perpendicular transfer of workpiece carriers from one conveying unit to the other.

The workpiece carrier is guided by the two inside pins, the outside pins are retracted.

They are also used for derivations.

**Short cams**
SD-EG  SG-ED

**Double cams**

Short cams and double cams allow deviation of workpiece carriers from a main line to a parallel secondary line without additional motorization.

Economical, compact and very easily managed, they are ideal to set up work stations in derivations.

⚠️ Do not accumulate the workpiece carriers in the cams.
Cams
ED, EG, SD, SG

Width 100

Technical data

Complete set including:
Guiding cam and pin retracting plates PA black
Fastening parts
Joining parts

Different cams according to the dimensions of the workpiece carriers.

If a selection is necessary (derivation or not) add the derivation set (p31).

⚠️ Do not accumulate the workpiece carriers in the cams.

Weight
ED - EG 100 : 0,36 kg
SD - SG 100 : 0,32 Kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cam ED 100</td>
<td>1 set</td>
<td>110.04.100</td>
</tr>
<tr>
<td>Cam EG 100</td>
<td>1 set</td>
<td>110.04.200</td>
</tr>
<tr>
<td>Cam SD 100</td>
<td>1 set</td>
<td>110.04.300</td>
</tr>
<tr>
<td>Cam SG 100</td>
<td>1 set</td>
<td>110.04.400</td>
</tr>
<tr>
<td>Cam ED 150</td>
<td>1 set</td>
<td>115.04.100</td>
</tr>
<tr>
<td>Cam EG 150</td>
<td>1 set</td>
<td>115.04.200</td>
</tr>
<tr>
<td>Cam SD 150</td>
<td>1 set</td>
<td>115.04.300</td>
</tr>
<tr>
<td>Cam SG 150</td>
<td>1 set</td>
<td>115.04.400</td>
</tr>
</tbody>
</table>
Cams
ED, EG, SD, SG

Width 200
300
400

Technical data
Complete set including:
Guiding cam and pin retracting plates PA black
Fastening parts
Joining parts

Different cams according to the dimensions of the workpiece carriers.

The cams 200 also allow the use of workpiece carriers 200x250 and 200x300.

The cams 300 also allow the use of workpiece carriers 300x400.

If a selection is necessary (derivation or not) add the derivation set (p32).

⚠️ Do not accumulate the workpiece carriers in the cams.

Weight 200: 0.91 kg
300: 1.5 kg
400: 1.9 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cam ED 200</td>
<td>1 set</td>
<td>120.06.000</td>
</tr>
<tr>
<td>Cam EG 200</td>
<td>1 set</td>
<td>120.16.000</td>
</tr>
<tr>
<td>Cam SD 200</td>
<td>1 set</td>
<td>120.26.000</td>
</tr>
<tr>
<td>Cam SG 200</td>
<td>1 set</td>
<td>120.36.000</td>
</tr>
<tr>
<td>Cam ED 300</td>
<td>1 set</td>
<td>130.06.000</td>
</tr>
<tr>
<td>Cam EG 300</td>
<td>1 set</td>
<td>130.16.000</td>
</tr>
<tr>
<td>Cam SD 300</td>
<td>1 set</td>
<td>130.26.000</td>
</tr>
<tr>
<td>Cam SG 300</td>
<td>1 set</td>
<td>130.36.000</td>
</tr>
<tr>
<td>Cam ED 400</td>
<td>1 set</td>
<td>140.06.000</td>
</tr>
<tr>
<td>Cam EG 400</td>
<td>1 set</td>
<td>140.16.000</td>
</tr>
<tr>
<td>Cam SD 400</td>
<td>1 set</td>
<td>140.26.000</td>
</tr>
<tr>
<td>Cam SG 400</td>
<td>1 set</td>
<td>140.36.000</td>
</tr>
</tbody>
</table>
Short cams
SD-EG, SG-ED

Width 200

Technical data

Complete set including:
Cams and guides PA, black
Fastening parts
Screw and nut St PA M6

(1 set SD-EG + 1 set SG-ED are necessary to make a complete derivation)

⚠ Minimum load on workpiece carrier : 2 daN

They also allow the use of workpiece carriers 200x250 and 200x300.

If a selection is necessary (derivation or not) add the derivation set (p.32).

⚠ Do not accumulate the workpiece carriers in the cams.

Weight : 2,2 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short cam 200 SD-EG</td>
<td>1 set</td>
<td>120.46.000</td>
</tr>
<tr>
<td>Short cam 200 SG-ED</td>
<td>1 set</td>
<td>120.17.000</td>
</tr>
</tbody>
</table>
Short cams
SD-EG, SG-ED

Width 300
400

Technical data

Complete set including:
Cam and guides PA
Fastening parts
Screw and nut St PA M6

(1 set SD-EG + 1 set SG-ED are necessary to make a complete derivation)

⚠️ Minimum load on workpiece carrier: 2 daN

The short cams 300 also allow the use of workpiece carriers 300x400.

If a selection is necessary (derivation or not) add the derivation kit (p.32).

⚠️ Do not accumulate the workpiece carriers in the cams.

Weight 300: 6,1 kg
400: 13,2 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short cam 300 SD-EG</td>
<td>1 set</td>
<td>130.46.000</td>
</tr>
<tr>
<td>Short cam 300 SG-ED</td>
<td>1 set</td>
<td>130.17.000</td>
</tr>
<tr>
<td>Short cam 400 SD-EG</td>
<td>1 set</td>
<td>140.46.000</td>
</tr>
<tr>
<td>Short cam 400 SG-ED</td>
<td>1 set</td>
<td>140.17.000</td>
</tr>
</tbody>
</table>
**Double cams**

**Width 200**

**Technical data**

Complete set including:
- Cam, selectors, ramps and guides PA black
- 2 rotative cylinders, (M5)
- Fastening parts
- Screw and nut St PA M6

⚠️ Minimum load on workpiece carrier: 2 daN

They also allow the use of workpiece carriers 200x250 and 200x300.

If a selection is necessary (derivation or not) add the derivation kit (p.32).

⚠️ Do not accumulate the workpiece carriers in the cams.

**Weight**: 3,6 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double cam 200</td>
<td>1 set</td>
<td>120.21.000</td>
</tr>
</tbody>
</table>
Double cams

Width 300  
400

Technical data

Complete set including:
Cam, selectors, ramps and guides PA black
2 rotative cylinders, (M5)
Fastening parts
Screw and nut St PA M6

⚠️ Minimum load on workpiece carrier : 2 daN

The double cams 300 also allow the use of workpiece carriers 300x400.

If a selection is necessary (derivation or not) add the derivation kit (p.32).

⚠️ Do not accumulate the workpiece carriers in the cams.

Weight 300 : 5,4 kg
400 : 12,2 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double cam 300</td>
<td>1 set</td>
<td>130.21.000</td>
</tr>
<tr>
<td>Double cam 400</td>
<td>1 set</td>
<td>140.21.000</td>
</tr>
</tbody>
</table>
Derivations

Use

Derivations have to be used with a cam. They allow diversion or not of the workpiece carrier by retraction of the pins on one side or the other of the conveyor.

The two cylinders are controlled by only one solenoid valve.
Derivations

Width 100

Technical data

Set including:
- 2 plates Al
- 2 nuts St M4
- 2 screws M4x10
- Body, levers and guides PA
- 2 cylinders ø 16 - 5 (M5), detectable positions

⚠️ Cams are not included (must be ordered separately)

Weight: 0.4 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Derivation 100</td>
<td>1 set</td>
<td>110.07.000</td>
</tr>
</tbody>
</table>
Derivations

Width 200
300
400

Technical data

Set including:
2 plates Al
2 nuts St PA M6
2 screws M6x10
Body, levers, guides PA and screws and bolts
2 cylinders φ 20 - 10 (G1/8), detectable positions
1 protection Ac black

⚠️ Cams are not included (must be ordered separately)

Weight
200 : 1,4 kg
300 : 1,5 kg
400 : 1,5 kg

## Designation/Dimensions

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Derivation 200</td>
<td>1 set</td>
<td>120.07.000</td>
</tr>
<tr>
<td>Derivation 300</td>
<td>1 set</td>
<td>130.07.000</td>
</tr>
<tr>
<td>Derivation 400</td>
<td>1 set</td>
<td>140.07.000</td>
</tr>
</tbody>
</table>
Returns 180°

Use

Allow the return of the workpiece carrier on a parallel conveyor with a reduced space between the two conveyors.

The workpiece carrier is conveyed always keeping the same side towards the outside of the line.

Width 100

Technical data

Housing aluminium
2 parallel belts driven by a bevel gear pair on a conveyor unit. (No additional motor)

⚠ Minimum load on the workpiece carrier : 0,3 daN

Do not accumulate the workpiece carriers in the returns.

Weight : 8 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Return 180° 100</td>
<td>1 pce</td>
<td>110.34.000</td>
</tr>
</tbody>
</table>
Returns 180°

**Width 200 300**

**Technical data**

Motor plates alu black.
2 parallel belts driven by a gear motor.
Plates and lateral guide supports PA, black.
Screws and bolts.

⚠️ Do not accumulate the workpiece carriers in the returns.

**Weight**
- 200 : 16 kg
- 300 : 18.2 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Return 180° 200</td>
<td>1 pce</td>
<td>120.34.000</td>
</tr>
<tr>
<td>Return 180° 300</td>
<td>1 pce</td>
<td>130.34.000</td>
</tr>
</tbody>
</table>
Returns 180°

Width 400

Technical data

Motor plates alu black.
2 parallel belts driven by a gear motor.
Plates and lateral guide supports PA, black.
Screws and bolts.

⚠️ Do not accumulate the workpiece carriers in the returns.

Weight: 20 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Return 180° 400</td>
<td>1 pce</td>
<td>140.34.000</td>
</tr>
</tbody>
</table>
### Swivellings

#### 90° - 180°

**Use**

90° swivelling of workpiece carriers by blocking and retracting the pins.

180° swivelling of workpiece carriers by a linear rotating cylinder.

#### Swivellings

#### 90°

**Width 100**

**Technical data**

- Plates and guides PA, black
- 2 cylinders ø 16-5 (M5)
- 2 brackets for shielded mounting sensor M12x100
- 1 cylinder ø 12-10 (M5)

A stopper situated before the swivelling unit is generally necessary to avoid the arrival of another workpiece carrier during swivelling.

⚠ Minimum load on workpiece carrier: 0.3 daN

**Weight**: 1.8 kg

**Designation/Dimensions**

- **Swivelling 100 90°**

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swivelling 100 90°</td>
<td>1 set</td>
<td>110.14.000</td>
</tr>
</tbody>
</table>

---

![Image of swivelling mechanism](image-url)
Swivellings

90°

Width
200
300
400

Technical data

Plates and guides PA black
3 cylinders ø 20-10 (M5)
1 stopper
2 brackets for shielded mounting sensor M12x100

⚠ Minimum load on workpiece carrier : 2 kg

A stopper situated before the swivelling unit is generally necessary to avoid the arrival of another workpiece carrier during swivelling.

Weight
200 : 3,8 kg
300 : 5,8 kg
400 : 6,9 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swivelling 200 90°</td>
<td>1 set</td>
<td>120.27.000</td>
</tr>
<tr>
<td>Swivelling 300 90°</td>
<td>1 set</td>
<td>130.27.000</td>
</tr>
<tr>
<td>Swivelling 400 90°</td>
<td>1 set</td>
<td>140.27.000</td>
</tr>
<tr>
<td>Specify (R) for spring stopper ex. : 130.27.000 (R)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Swivellings

180°

Width 200
300
400

Technical data

Stopper
Linear rotating cylinder
Sensor braket

A stopper situated before the swivelling unit is generally necessary to avoid the arrival of another workpiece carrier during swivelling.

⚠️ Flow rate controller should be adapted.

Weight
- 200 : 5.6 kg
- 300 : 6.7 kg
- 400 : 7.6 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swivelling 200 180°</td>
<td>1 set</td>
<td>120.28.000</td>
</tr>
<tr>
<td>Swivelling 300 180°</td>
<td>1 set</td>
<td>130.28.000</td>
</tr>
<tr>
<td>Swivelling 400 180°</td>
<td>1 set</td>
<td>140.28.000</td>
</tr>
</tbody>
</table>

Specify (R) for spring stopper ex. : 130.28.000 (R)
Lifts

Use

Allow the return of workpiece carriers above or below a line, or the transfer of workpiece carriers on several levels.

Constructed from standard elements, each lift is adapted to the size of the workpiece carriers, the strokes and other line-specific parameters.

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift</td>
<td></td>
<td>Only by consulting</td>
</tr>
</tbody>
</table>
Conveying unit stand

Use
Support to fit conveying units on table or frame.

Simple stand

Use
Support for one conveying unit. Built with profile 80 x 40, it is compatible with all *item* profiles and modular elements.

Double stand

Use
To support two parallel conveying units. Built with profiles 80 x 40, it is compatible with all *item* profiles and modular elements.

Designation/Dimensions | Order unit | Référence
--- | --- | ---
Conveying unit stand 100 | 1 set | 110.16.000
Conveying unit stand 200 | 1 set | 120.20.000
Conveying unit stand 300 | 1 set | 130.20.000
Conveying unit stand 400 | 1 set | 140.20.000
Simple stand 200 | 1 set | 120.12.000
Simple stand 300 | 1 set | 130.12.000
Simple stand 400 | 1 set | 140.12.000
Double stand 200 | 1 set | 120.19.000
Double stand 300 | 1 set | 130.19.000
Double stand 400 | 1 set | 140.19.000

(Specify H and F in mm)
Stoppers

Use

Stopping workpiece carriers during processing requiring no accuracy.

Stopping the workpiece carriers in order to respect conveying priorities at the end of the derivation.

Stoppers 100
Stopper with simple or double effect, supplied with lateral guides and sensor bracket for detection of workpiece carriers.

Stoppers 200 - 300 - 400
Can be supplied with a spring to make the stopper rod pop out in case of an emergency stop. Supplied with sensor bracket for detection of workpiece carriers.

Short stoppers 200 - 300 - 400
Thanks to the combination of small size and reduced height, the short stopper allows construction of ergonomic work stations along the line.

Reduced accumulated load.
Stoppers

Simple effect - Double effect

Width 100

Technical data

Plate Al, black
Body and stopper PA
Nuts 5 St M5 + screws
Holes for shielded mounting sensor M12x100
Detection range : 4 mm

Maximum load : 10 daN
(in accumulation)

⚠️ Flow rate controller M5 should be adapted

Weight : 0,14 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stopper 100 simple effect</td>
<td>1 pce</td>
<td>110.02.000</td>
</tr>
<tr>
<td>Stopper 100 double effect</td>
<td>1 pce</td>
<td>110.22.000</td>
</tr>
</tbody>
</table>
Stoppers

Width 200
300
400

Technical data

Stopper rod (polyurethane coated)
Complete set with double effect cylinder ø 32 mm, detectable positions
Bracket for shielded mounting sensor M12x100
Detection range : 4 mm

Maximum load : 50 daN
(in accumulation)

⚠️ Flow rate controller G 1/8 should be adapted

Weight 200 : 1.3 kg
300 : 1.7 kg
400 : 2 kg

Designation/Dimensions | Order unit | Reference
--- | --- | ---
Stopper 200 | 1 pce | 120.65.000
Stopper 300 | 1 pce | 130.65.000
Stopper 400 | 1 pce | 140.65.000
Specify (R) for stopper with spring ex. : 120.65.000 (R)
Short stoppers

Width 200  
300  
400

Technical data

Stopper rod (polyurethane coated).
Complete set with double effect cylinder ø 20 mm, detectable positions.
Bracket for shielded mounting sensor M12x100.
Detection range : 4 mm.

Stoppers 300 - 400 :
1 profile 8 40 x 40 light
2 universal fastening set 8

⚠ Maximum load : 50 daN (in accumulation).

Flow rate controller G 1/8 should be adapted.

Weight  200 : 0,9 kg
300 : 1,4 kg
400 : 1,8 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short stopper 200</td>
<td>1 pce</td>
<td>120.32.000</td>
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<tr>
<td>Short stopper 300</td>
<td>1 pce</td>
<td>130.32.000</td>
</tr>
<tr>
<td>Short stopper 400</td>
<td>1 pce</td>
<td>140.32.000</td>
</tr>
<tr>
<td>Specify (R) for spring stopper</td>
<td>ex. : 120.32.000 (R)</td>
<td></td>
</tr>
</tbody>
</table>
Positioning units

Use

Stopping and positioning workpiece carriers for operations requiring accuracy. The workpiece carrier is stopped, then lifted off the belts and positioned by two centering pieces.

Positioning units:
The positioning unit is directly fitted on the conveying units.

Positioning units for station:
They are fixed to a table or a frame in order to assure accuracy with the other surrounding elements.

Heavy positioning units:
For operations requiring accuracy, and involving important strain (up to 1500 daN) at the center of the workpiece carrier. The positioning unit must be fixed on a frame capable of supporting the strain applied.

Lift positioning units:
Stop and positioning of workpiece carriers at an important height above the conveyor. The workpiece carrier is stopped, then elevated to a specific height, while being held by two centering pieces.

Press positioning units:
Support important strain (5000 daN) on the surface between the 2 belts. The positioning unit must be fixed on a frame capable of supporting the strain applied.

Multi-positioning units:
Allow two accurate positionings of the workpiece carrier at the same station.
Positioning units

Width 100

Technical data

Complete set including:
Stopper
Positioning unit
Anti bouncing back device
1 double effect cylinder Ø 32, detectable positions
Holes for shielded mounting
sensor M12x100
Detection range: 4 mm

⚠️ Flow rate controller
G 1/8 should be adapted

Maximum vertical strain:
40 daN for a pressure of 6 bars
Repeatability: +/- 0.03 mm

Weight: 2 kg

Designation/Dimensions	Order unit	Reference
Positioning unit 100	1 pce	110.09.000
Simple effect	1 pce	110.24.000
Double effect	1 pce	110.25.000
Positioning units

**Width**
- 200
- 300
- 400

**Technical data**

Complete set including:
- Stopper
- Positioning unit
- 1 double effect cylinder Ø 32 (stopper)
- 1 double effect cylinder Ø 50 (positioning unit)
- Detectable positions
- Holes for shielding mounting sensor M12x 100
- Detection range: 4 mm

⚠ Flow rate controller G 1/8 should be adapted

Maximum vertical strain:
- 100 daN for a pressure of 6 bars
- Repeatability: +/- 0.03 mm

**Weight**
- 200: 8.7 kg
- 300: 10.5 kg
- 400: 12.2 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positioning unit 200</td>
<td>1 pce</td>
<td>120.64.000</td>
</tr>
<tr>
<td>Positioning unit 300</td>
<td>1 pce</td>
<td>130.64.000</td>
</tr>
<tr>
<td>Positioning unit 300x400</td>
<td>1 pce</td>
<td>134.64.000</td>
</tr>
<tr>
<td>Positioning unit 400</td>
<td>1 pce</td>
<td>140.64.000</td>
</tr>
</tbody>
</table>

Specify (R) for spring stopper ex.: 130.64.000 (R)
Positioning units

Positioning units for station

Width 100

Technical data

Complete set including:
Stopper and positioning unit
1 double effect cylinder ø 32, detectable positions
Holes for shielded mounting sensor M12x100
Detection range : 4 mm

4 supports in profile 8 40x40
Fastening parts

⚠️ Flow rate controller G 1/8 should be adapted

Maximum vertical strain:
40 daN for a pressure of 6 bars
Repeatability : +/- 0.03 mm

Weight : 3.4 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positioning unit for station 100</td>
<td>1 pce</td>
<td>110.10.000</td>
</tr>
<tr>
<td>Pos. unit for station 100 simple effect</td>
<td>1 pce</td>
<td>110.26.000</td>
</tr>
<tr>
<td>Pos. unit for station 100 double effect</td>
<td>1 pce</td>
<td>110.27.000</td>
</tr>
</tbody>
</table>
Positioning units

Positioning units for station

Width 200  
300  
400

Technical data

Complete set including:
Stopper
1 double effect cylinder ø 32 (stopper)
1 double effect cylinder ø 50 (positioning unit)
detectable positions
Holes for 2 inductive sensors
M12x100
Detection range: 4 mm

4 supports in profile 8 40x40
Fastening parts

⚠️ Flow rate controller G 1/8 should be adapted

Maximum vertical strain: 100 daN for a pressure of 6 bars
Repeatability: +/- 0,03 mm

Weight 200: 10,2 kg
300: 11,2 kg
400: 13 kg

Designation/Dimensions | Order unit | Reference
---|---|---
Positioning unit for station 200 | 1 pce | 120.69.000
Positioning unit for station 300 | 1 pce | 130.69.000
Positioning unit for station 300x400 | 1 pce | 134.69.000
Positioning unit for station 400 | 1 pce | 140.69.000
Specify (R) for spring stopper ex.: 130.69.000 (R)
Positioning units

Heavy positioning units

Width 100

Technical data

Complete set including:
- Stopper
- Positioning unit
- 1 double effect cylinder ø 25, detectable positions
- Holes for shielded mounting sensor M12x100
- Detection range: 4 mm

⚠️ Flow rate controllers
G 1/8 should be adapted

Maximum vertical strain:
500 daN at the center of the workpiece carrier
Repeatability: +/- 0.03 mm

Weight: 8.7 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy positioning unit 100</td>
<td>1 pce</td>
<td>110.11.000</td>
</tr>
<tr>
<td>Heavy pos. unit 100 simple effect</td>
<td>1 pce</td>
<td>110.28.000</td>
</tr>
<tr>
<td>Heavy pos. unit 100 double effect</td>
<td>1 pce</td>
<td>110.29.000</td>
</tr>
</tbody>
</table>
### Positioning units

**Heavy positioning units**

**Width**
- 200
- 300
- 400

**Technical data**

Complete set including:
- Stopper
- Positioning unit
- 2 pneumatic cylinders, detectable positions
- Profile stands 8 40x40
- Fastening parts
- Holes for shielded mounting sensors M12x100.

Detection range: 4 mm

⚠️ Flow rate controllers G 1/8 should be adapted

Maximum vertical strain: 1500 daN at the center of the workpiece carrier (60x60 mm)

Repeatability: +/- 0.03 mm

**Weight**
- 200: 18.3 kg
- 300: 19.6 kg
- 400: 21.8 kg

---

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy positioning unit 200</td>
<td>1 pce</td>
<td>120.68.000</td>
</tr>
<tr>
<td>Heavy positioning unit 300</td>
<td>1 pce</td>
<td>130.68.000</td>
</tr>
<tr>
<td>Heavy positioning unit 300x400</td>
<td>1 pce</td>
<td>134.68.000</td>
</tr>
<tr>
<td>Heavy positioning unit 400</td>
<td>1 pce</td>
<td>140.68.000</td>
</tr>
<tr>
<td>Specify (R) for spring stopper</td>
<td>ex. : 134.68.000 (R)</td>
<td></td>
</tr>
</tbody>
</table>
Positioning units

Lift positioning units

Width 100

Technical data

Complete set including:
- Impulse controlled stopper and anti bouncing back devices
- 1 double effect cylinder ø 32
- Ball bearing guide bush ø 14
- 1 bracket for shielded mounting sensor M12x100.
- Detection range : 4 mm

Cylinder strokes available:
25 - 50 - 100 - 160 - 200 mm

⚠️ Flow rate controller M5 and G 1/8 should be adapted

Maximum vertical strain:
40 daN for a pressure of 6 bars
Repeatability : +/- 0,06 mm

Weight : 3,4 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift positioning unit 100 simple effect</td>
<td>1 pce</td>
<td>110.12.000</td>
</tr>
<tr>
<td>Lift positioning unit 100 double effect</td>
<td>1 pce</td>
<td>110.31.000</td>
</tr>
</tbody>
</table>
Positioning units

Lift positioning units

Width 200
300
400

Technical data

Complete set including:
Stopper
Positioning unit
Ball bearing guide bush Ø 25
1 cylinder Ø 32 (stopper)
1 cylinder Ø 50 (positioning unit), detectable positions
Spacers
Fastening parts
2 brackets for shielded mounting sensor M12x100.
Detection range: 4 mm

Cylinder strokes available:
50 - 80 - 100 - 125 - 160 - 200 - 250 - 300 - 320 - 400 mm

⚠️ Flow rate controller
G 1/8 should be adapted

A stopper situated before the lift unit is generally necessary to avoid the arrival of another workpiece carrier during lifting.

Maximum vertical strain:
100 daN for a pressure of 6 bars
Repeatability: +/- 0.06 mm

Weight
200: 10.6 kg
300: 19.6 kg
400: 22.5 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift positioning unit 200</td>
<td>1 pce</td>
<td>120.66.000</td>
</tr>
<tr>
<td>Lift positioning unit 300</td>
<td>1 pce</td>
<td>130.66.000</td>
</tr>
<tr>
<td>Lift positioning unit 300x400</td>
<td>1 pce</td>
<td>134.66.000</td>
</tr>
<tr>
<td>Lift positioning unit 400</td>
<td>1 pce</td>
<td>140.66.000</td>
</tr>
<tr>
<td>Fastening set</td>
<td>1 pce</td>
<td>120.67.000</td>
</tr>
</tbody>
</table>

Specify (R) for spring stopper ex.: 140.66.000 (R)
Positioning units

Press-positioning units

Width 200 300 400

Technical data

Complete set including:
- Stopper
- Lifting cylinder
- 2 locking cylinders
- Fastening parts
- Holes for shielded mounting sensor M12x100.
- Detection range: 4 mm

⚠️ Flow rate controller G 1/8 should be adapted

The press-positioning unit must be fixed on a frame capable of supporting the strain applied.

Maximum vertical strain:
- 200x200: 3 000 daN
- 300x300: 5 000 daN
- 400x400: 5 000 daN

Repeatability: ±/- 0,03 mm

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press-positioning unit 200x200</td>
<td>1 pce</td>
<td>120.33.000</td>
</tr>
<tr>
<td>Press-positioning unit 300x300</td>
<td>1 pce</td>
<td>130.33.000</td>
</tr>
<tr>
<td>Press-positioning unit 300x400</td>
<td>1 pce</td>
<td>134.33.000</td>
</tr>
<tr>
<td>Press-positioning unit 400x400</td>
<td>1 pce</td>
<td>140.33.000</td>
</tr>
</tbody>
</table>

Specify (R) for spring stopper ex.: 120.33.000 (R)
Positioning units
Multi-positioning units
Width 100

Technical data

Complete set including:
Stopper
Positioning unit 100
Slide PS 20
Strokes: 50 - 100 ou 200

The slide is fitted with shock absorbers and stop screws with integrated sensors.

Maximum vertical strain:
Strokes 50 ou 100 : 40 daN
Stroke 200 : 20 daN

Repeatability : +/- 0,04 mm

⚠️ A stopper situated before the lift unit is generally necessary to avoid the arrival of another workpiece carrier during the slide moving.

Weight : 7.4 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-positioning unit 100</td>
<td>1 pce</td>
<td>110.19.000.***</td>
</tr>
</tbody>
</table>

(*** = strokes 50 - 100 - 200  ex. stroke 50 : 110.19.000.050)
Positioning units
Multi-positioning units
Width 200

Technical data

Complete set with:
Stopper
Positioning unit 200
Slide PS 20
Strokes: 50 - 100 ou 200

The slide is fitted with shock absorbers and stop screws with integrated sensors.

Maximum vertical strain:
Strokes 50 ou 100 : 40 daN
Stroke 200 : 20 daN

Repeatability : +/- 0.04 mm

⚠️ A stopper situated before the lift unit is generally necessary to avoid the arrival of another workpiece carrier during the slide moving.

Weight : 14.5 kg

Designation/Dimensions  Order unit  Reference
Multi-positioning unit 200 1 pce  120.72.000.***

(*** = strokes 50 - 100 - 200  ex. stroke 50 : 120.72.000.050)
**Sensor bracket M12x100**

**Use**
Bracket for workpiece carrier M12x100 sensor.

**Technical data:**
- Stainless steel 2 mm
- Nut 5 St M4 + screws
- Cast aluminium
- Nut 8 St M6 + screw

**Weight**
- 100 : 0,035 kg
- 200 : 0,1 kg
- 300 : 0,1 kg
- 400 : 0,1 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor bracket 100</td>
<td>1 pce</td>
<td>110.17.000</td>
</tr>
<tr>
<td>Sensor bracket 200</td>
<td>1 pce</td>
<td>120.10.000</td>
</tr>
<tr>
<td>Sensor bracket 300-400</td>
<td>1 pce</td>
<td>140.10.000</td>
</tr>
</tbody>
</table>

**Anti bouncing back**

**Use**
Avoids workpiece carrier bouncing back on stoppers or positioning units in case of high speed.
Allows to reduce the changing time of workpiece carriers in the positioning unit.

**Technical data**
- Parts, PA black
- Fastening parts

**Weight**: 0,1 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Anti bouncing back 100</td>
<td>1 set</td>
<td>110.30.000</td>
</tr>
<tr>
<td>Anti bouncing back 200</td>
<td>1 set</td>
<td>120.30.000</td>
</tr>
</tbody>
</table>
Use

Allows simple identification of workpiece carriers and memorising information at different stages of the line. The coder consists in a plastic body in which steel ball can only have two stable positions. Coding is done by changing the position of the ball with a micro cylinder. Reading is done by magnetic detection. Resetting can be done simply by running the coder under a fixed cam. One coder is equivalent to 1 byte of memory. Several coders can be placed side by side on the same workpiece carrier.

Technical data

Body: PA black
Steel ball Ø 10

Weight:
Logic block: 0.018 kg
RAZ: 0.19 kg

Designation/Dimensions    Order unit    Reference
Logic block                1 pce        100.00.000
R.A.Z. 200                 1 pce        100.01.000
R.A.Z. 300 - 400           1 pce        100.02.000
Inductive sensor M12x100

Use

Detection for the workpiece carrier

Technical data

Shielded mounting sensor
M12x100 detection range: 4 mm
LED control display
PNP - 10 - 30 VDC
Screwed connection, cable 5 m

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor M12x100</td>
<td>1 set</td>
<td>200.10.200</td>
</tr>
</tbody>
</table>

Cylinder sensor

Use

Detecting the position of cylinders, stoppers or positioning units.

Technical data

12-27 V
LED control display
Cable 5 m

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor for cylinder, Stopper, Positioning unit</td>
<td>1 set</td>
<td>200.10.201</td>
</tr>
<tr>
<td>Sensor for cylinder, Lift Positioning unit</td>
<td>1 set</td>
<td>200.10.202</td>
</tr>
</tbody>
</table>

Positioning kit

Use

Allows accurate positioning unit on station.

Technical data

2 axis screws M8
2 hexagon socket head cap screws M8

Weight: 0,08 kg

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positioning kit</td>
<td>1 set</td>
<td>120.62.000</td>
</tr>
</tbody>
</table>
Belt welding kit

Use

Welding bevelled conveyor belts.
Each kit includes:
- 1 belt tension system
- 1 thermic press
- 1 jar of glue

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt welding kit</td>
<td>1 set</td>
<td>900.00.002</td>
</tr>
</tbody>
</table>

Bevelling device

Use

Bevelling belts before welding.

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bevelling device</td>
<td>1 set</td>
<td>800.00.001</td>
</tr>
</tbody>
</table>

Belt

Use

Belt for the moving of pallets on conveying units
Antistatic.

TLM 1000 : 12,5 x 1 mm
TLM 2000 : 25 x 1,6 mm

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt 12,5 x 1 mm</td>
<td>m</td>
<td>110.01.201</td>
</tr>
<tr>
<td>Belt 25 x 1,6 mm</td>
<td>m</td>
<td>120.00.201</td>
</tr>
<tr>
<td>Glue (40 g)</td>
<td>1 jar</td>
<td>800.00.004</td>
</tr>
</tbody>
</table>
CAD files

Use

CAD-data as .DWG and .DXF files.

<table>
<thead>
<tr>
<th>Designation/Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>.DWG files</td>
<td></td>
<td>on request</td>
</tr>
<tr>
<td>.DXF files</td>
<td></td>
<td>on request</td>
</tr>
</tbody>
</table>
Layout example

Stopper

Positioning unit
Elcomodularity

According to the requirements of the manufacturing process, different kinds of modular designs are possible.

The design of the line can evolve in several stages.

1. Interchangeability of a module
   - 4 fixing screws only
   - No machining
   - No adjusting

2. Adding a derivation
   - 6 fixing screws
   - No machining
   - No adjusting