FRENCH INDUSTRIAL LEADER

elcom has brought innovating solutions to the industry. Our approach offers a complete freedom of design thanks to a unique range of flat belt conveyors and modular transfer system.

EXCLUSIVE item PARTNER

Our partnership with the German firm item since 1986 has opened a large expertise field and a worldwide recognized network. elcom’s flat belt conveyor design, constructed from item’s range of profiles, enables a great modularity.

GEOGRAPHICAL PRESENCE

Europe  Scandinavia  North America  Asia
France  Denmark  USA  India
Benelux  Finland  Canada  China
Italy  Norway  South America  Malaysia
Germany  Sweden  Australia  Singapore
Spain

COMPLETE RANGE AND NEW PRODUCTS

Our creations result from a wide range of products which is regularly enlarged by novelties. They offer unlimited possibilities in terms of industrial modularity.

SERVICES

- Strong production capacity and very high reactivity
- Important stock, fast delivery
- Preparation for kit delivery
- Assembly of complete sets
- Quotations based on customers’ plans and sketches
- Technical advices
- CAD files library
- Fast prototype abilities

All services on our website

www.elcom.fr
NEW PRODUCTS

1
CONVEYING UNITS TLM 1000
6 to 10

2
WORKPIECE CARRIERS TLM 1000
11 to 13

3
MULTIPLE UNITS TLM 1000
14 to 17

4
CONVEYING UNITS TLM 2000
18 to 27

5
WORKPIECE CARRIERS TLM 2000
28

6
STOPPERS WITH SHOCK ABSORBER TLM 2000
29 to 30

7
POSITIONING UNITS TLM 2000
31 to 36
Conveying unit timing belt

Moving and accumulating of workpiece carriers 100x100 and 100x150.
The motor can be fitted either vertically or horizontally.
The use of timing belts enables to increase the carried load and facilitates the maintenance when changing belts. Belt guides are pressed into aluminium profile housing.
According to the load, longer spans can be joined end to end by a straight joining.
The cutting of conveyors allows division of the lengths, making transport and installation of the lines easier.
Spacers have to be fitted between the profiles every 1 m or 1.5 m to ensure a perfect parallelism of the profiles.
Width 100

Technical data
Mini length \( L = 500 \) mm
Maxi length \( L = 3160 \) mm
For longer spans and according to the load, use several conveying units.

Conveying unit including:
\( \times 1 \) idling unit
\( \times 1 \) driving unit
- Motor 380 V three-phase
- 0.09 kW  I : 0.4 Ampere
- Speed : 12 or 16 m/min

Conveyor length:
\( \times 2 \) profiles 543x20, al anodized
\( \times \) belt guides, PA black
\( \times 2 \) antistatic timing belts
width 12 mm, 5 mm step

Maximum load /3 m : 70 daN

Maximum accumulation load /3 m : 35 daN

Belt length in mm:
\[ L_c = \left( (L-160) \times 2 + 526 \right) \times 0.9995 \]

Weight : 7.5 kg + 2.07 kg/m

### Designation / Dimensions | Order unit | Reference
---|---|---
Conveying unit 100 cc | 1 pce | 110.50.000.**
Conveying length cc | m | 110.50.000.A

(** = speed of motor : 12 or 16  ex. : 110.50.000.12)
**Width 100**

**APPLICATIONS**

Caps allow to close the driving unit and the idling unit. When using cam, the opposite cap of this one is delivered with the set cam.

**Technical data**

- Cap for gearmotor 100 timing belt
  - x 1 part and 1 symmetric part, PA black

- Cap for idling unit 100 timing belt
  - x 1 part and 1 symmetric part, PA black

Weight: 0.11 kg

<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cap for gearmotor 100 cc</td>
<td>1 pce</td>
<td>110.50.100</td>
</tr>
<tr>
<td>Cap for idling unit 100 cc</td>
<td>1 pce</td>
<td>110.50.200</td>
</tr>
</tbody>
</table>

**APPLICATIONS**

Spacers ensure a perfect parallelism of profiles. They must be positioned every meter.

**Technical data**

- x Aluminium part
- x Fastening part

Weight: 0.042 kg

<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spacer 100</td>
<td>1 pce</td>
<td>110.15.000</td>
</tr>
</tbody>
</table>
Width 100

**APPLICATIONS**

Allows to join end to end two conveying units.

**Technical data**

- Guide PA, black
- Joining set, aluminum

Weight : 0,25 kg

<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight joining 100 cc</td>
<td>1pce</td>
<td>110.52.000</td>
</tr>
</tbody>
</table>

**APPLICATIONS**

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.

**Technical data**

- Maxi length 5 m
- 6 double universal fastenings 5

Weight : 0,06 kg

<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conveyor cut 100</td>
<td>1pce</td>
<td>110.05.000B</td>
</tr>
</tbody>
</table>
**APPLICATIONS**

Cams ED, EG, SD, SG timing belt for conveying unit with timing belt. They allow a perpendicular transfer of workpiece carriers from one conveying unit to other without automatism.

The workpiece carrier is guided by the two inside pins, the outside pins are retracted. They are also used for derivations.

⚠️ **Do not accumulate the workpiece carriers in the cams.**

For a good operating, the workpiece carrier which is coming in the cam mustn’t be pushed by the other workpiece carriers.

**Technical data**

Complete set including:

- x Guiding cam and pin retracting plates, PA black
- x Fastening parts
- x Joining parts
- x A cap for gearmotor or for idling unit

Different cams according to the length of workpiece carriers.

If a selection is necessary (derivation or not), add the derivation set (page 31 of general catalogue).

Weight:

- Cam 100 cc : 0.42 kg
- Cam 150 cc : 0.45 kg

<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cam ED 100 cc</td>
<td>1 set</td>
<td>110.53.100</td>
</tr>
<tr>
<td>Cam EG 100 cc</td>
<td>1 set</td>
<td>110.53.200</td>
</tr>
<tr>
<td>Cam SD 100 cc</td>
<td>1 set</td>
<td>110.53.300</td>
</tr>
<tr>
<td>Cam SG 100 cc</td>
<td>1 set</td>
<td>110.53.400</td>
</tr>
<tr>
<td>Cam ED 150 cc</td>
<td>1 set</td>
<td>115.53.100</td>
</tr>
<tr>
<td>Cam EG 150 cc</td>
<td>1 set</td>
<td>115.53.200</td>
</tr>
<tr>
<td>Cam SD 150 cc</td>
<td>1 set</td>
<td>115.53.300</td>
</tr>
<tr>
<td>Cam SG 150 cc</td>
<td>1 set</td>
<td>115.53.400</td>
</tr>
</tbody>
</table>
The 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. On each side of workpiece carrier, small metallic bars allow detection of workpiece carriers at different positions.

**Unidirectional workpiece carriers**
They are perfectly compatible with a 180° swivelling.
Possibility of adding shock absorbers to limit the shock between the workpiece carriers and to reduce the noise [T].

⚠️ **If you use shock absorbers, set up a stopper before each positioning unit.**

**Multidirectional workpiece carriers**
For square workpiece carriers only.
They are perfectly compatible with 90°, 180° and 270° swivellings, delivered with 2 bushes and 2 additional detection bars.

⚠️ **The use of shock absorbers is not possible.**
Width 100

Technical data

Unidirectional workpiece carrier (U)
- Plate Al
- Base, PA black
- 2 steel bushes
- 4 pins PA
- 4 springs
- 4 countersunk screws M4x10
- 2 detection bars
- 2 plugs

Multidirectional workpiece carrier (M)
- Plate Al
- Base, PA black
- 4 steel bushes
- 4 pins PA
- 4 springs
- 4 countersunk screws M4x10
- 4 detection bars
- 4 plugs

⚠️ Maximum load : 2 daN

Weight : 0.41 kg

<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workpiece carrier U 100x100</td>
<td>1 pce</td>
<td>110.62.000</td>
</tr>
<tr>
<td>Workpiece carrier U 100x100 T</td>
<td>1 pce</td>
<td>110.62.000.T</td>
</tr>
<tr>
<td>Workpiece carrier M 100x100</td>
<td>1 pce</td>
<td>110.64.000</td>
</tr>
</tbody>
</table>
Width 150

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

⚠️ Maximum load : 2 daN

Weight : 0.53 kg

<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workpiece carrier U 100x150</td>
<td>1 pce</td>
<td>115.62.000</td>
</tr>
<tr>
<td>Workpiece carrier U 100x150 T</td>
<td>1 pce</td>
<td>115.62.000.T</td>
</tr>
</tbody>
</table>
Multiple Units 100

**Multiple unit L 100**
The use of unit L 100 enables to drive two conveyors with only one motor.
Reduction of wiring system and suppression of one contactor.

**Multiple unit U 100**
The use of unit U 100 enables to drive three conveyors with only one motor and thus to make a derivation.
Reduction of wiring system and suppression of two contactors.
Space saving.

**Multiple unit C 100**
The use of unit C 100 enables to drive three conveyors with only one motor and thus to make a derivation.
Reduction of wiring system and suppression of two contactors.
Space saving.
Width 100

Technical data

- Maximum accumulation load:
  - Pulling conveyor: 25 kg
  - Pushing conveyor: +10 kg

- Maxi length:
  - On pulling conveyor: 3,160 mm
  - On pushing conveyor: 1,000 mm

Conveying unit including:

- 2 idling units
- 2 driving units
- 1 conic torque
  - Motor: 380V three-phase
  - 0.09 kW
  - I: 0.4 Ampere
  - Speed: 10.15 or 20 m/min

Conveyor length

- 2 profiles 540x20, al anodized
- Belt guides, PA black
- 2 flat belts width 12.5 mm
  - Thickness 1 mm

Mention lengths L1 and L2.

Belt length in mm:

L welded = [(L-160) x 2 + 490] x 0.97

Weight: 13.4+(L1+L2)x2.07 kg/m

<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple unit L 100</td>
<td>1 pce</td>
<td>110.39.000.* *</td>
</tr>
</tbody>
</table>

( ** = speed of motor: 10, 15 or 20 ex: 110.39.000.10)
**Width 100**

**Technical data**
- **Maximum accumulation load:**
  - Pulling conveyor: 20 kg
  - +5 kg on each perpendicular conveyor
- **Maxi length:**
  - On pulling conveyor: 2,000 mm
  - On perpendicular conveyors: 600 mm

**Conveying unit including:**
- 2 idling units
- 4 driving units
- 2 conic torques
  - Motor: 380V three-phase
  - 0.09 KW, I: 0.4 Ampere
  - Speed: 10, 15 or 20 m/min

**Conveyor length**
- 2 profiles 5 40x20, al anodized
- Belt guides, PA black
- 2 flat belts width 12.5 mm
  - Thickness 1 mm

Mention lengths L1, L2 and L3.

**Belt length in mm:**
- For length L1:
  - \( L_{welded} = \left( (L - 160) \times 2 + 678 \right) \times 0.97 \)
- For lengths L2 and L3:
  - \( L_{welded} = \left( (L - 160) \times 2 + 490 \right) \times 0.97 \)

Weight: \( 18.8 + (L1 + L2 + L3) \times 2.07 \) kg/m.

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<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple unit U 100</td>
<td>1 pce</td>
<td>110.38.000.**</td>
</tr>
</tbody>
</table>

(** = speed of motor: 10, 15 or 20, ex.: 110.38.000.10)
Width 100

- Maximum accumulation load:
  - On pulling conveyor: 20 kg
  - + 10 kg on pushing conveyor
- Maxi length: 2 000 mm

Conveying unit including:
- x 2 idling units
- x 2 driving units
- x 1 180° swivelling 100
- x 2 conic torques
  - Motor 380V three-phase
  - 0.09 KW
  - I: 0.4 Ampere
  - Speed: 10, 15 or 20 m/min

Conveyor length
- x 2 profiles 5 40x20, anodized
- x belt guides, PA black
- x 2 flat belts width 12.5 mm
  - thickness 1 mm

⚠️ Do not accumulate in the return

Mention length L.

Belt length in mm:
L welded = [(L-160) x 2 + 490] x 0.97

Weight: 20.2 + L x 4.14 kg/m

<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple unit C 100</td>
<td>1 pce</td>
<td>110.35.000.**</td>
</tr>
</tbody>
</table>

[** = speed of motor: 10, 15 or 20, ex.: 110.35.000.10]
Direct conveying units

Moving and accumulating of workpiece carriers.
The motor can be fitted either vertically or horizontally.
Perfectly compatible with the other conveying units.
The use of a new antistatic belt enables to make weldings Flex-prof.
Change time is very reduced.
Provide a spacer 120.15.000 every meter.

Light conveying units timing belt

Moving and accumulating of workpiece carriers.
The motor can be fitted either vertically or horizontally.
Perfectly compatible with the other conveying units.
The use of antistatic timing belts width 25 mm facilitates the maintenance
at the time of belt changings.
Belt guides are pressed into aluminium profile housing.
Provide a spacer 120.15.000 every meter.

Heavy conveying units timing belt

Moving and accumulating of workpiece carriers.
The motor can be fitted either vertically or horizontally.
Perfectly compatible with the other conveying units.
The use of antistatic timing belts width 32 mm enables to convey important
loads and facilitates maintenance at the time of belt changings.
Belt guides are pressed into aluminium profile housing.
Provide a spacer 120.15.000 every meter.
**Width 200**

**Technical data**

Mini length L = 500 mm  
Maxi length L = 6,250 mm  
For longer spans and according to the load, use several conveying units.

**Conveying unit including:**
- 1 idling unit
- 1 driving unit  
  Motor 230/400 V three-phase  
  0.25 KW [9 m/min]  
  0.37 KW [15 m/min]  
  0.55 KW [19 m/min]  
  Speed: 9, 15 or 19 m/min

**Conveyor length**
- 2 profiles 80x40, al anodized  
- 2 belt guides, PA black  
- 2 belts width 25 mm  
  thickness 1.6 mm, welded

**Maximum load / m**: 120 daN

\[ \text{Maximum accumulation maxi / m} : 60 \text{ daN} \]

**Belt length in mm**

\[ L_{\text{welded}} = [(L-250) \times 2 + 733] \times 0.98 \]

Weight: 16.5 kg + 6.7 kg / m

---

**Designation / Dimensions** | **Order unit** | **Reference**  
--- | --- | ---  
Direct conveying unit 200 | 1 pce | 120.11.000.**  
Conveying length | m | 120.11.000.A  
Antistatic set | 1 pce | 120.11.000.C  

(** = speed of motor: 9 - 15 or 19  ex. : 120.11.000.09)
Width 200

**Technical data**

*Mini length* $L = 500$ mm  
*Maxi length* $L = 6160$ mm  
For longer spans and according to the load, use several conveying units.

**Conveying unit including:**

- 1 idling unit  
- 1 driving unit  
  - Motor 240/400 V three-phase  
  - 0.25 KW (9 m/min)  
  - 0.37 KW (15 m/min)  
  - 0.55 KW (19 m/min)  
  - Speed: 9, 15 or 19 m/min

**Conveyor length**

- 2 profiles 82x40, al anodized  
- 2 belt guides, PA black  
- 2 antistatic belts  
  - width 25 mm, 5 mm step

**Maximum load /6 m : 120 daN**

⚠️ **Maximum accumulation**  
maxi /6 m : 60 daN

Weight: 16.7 kg + 6.8 kg/m

---

**Designation / Dimensions** | **Order unit** | **Reference**
--- | --- | ---
Light conveying unit 200 cc | 1 pce | 120.87.000.**
Conveying length cc | m | 120.87.000.A

(** = speed of motor: 9 - 15 or 19 ex. : 120.87.000.09)**
Width 200

Technical data
Mini length L = 500 mm
Maxi length L = 6250 mm
For longer spans and according to the load, use several conveying units.

Conveying unit including:
- 1 idling unit
- 1 driving unit
  Motor 240/400 V three-phase
  0.55 KW
  I : 1.6 Ampere
  Speed : 14 m/min

Conveyor length
- 2 profiles 882x40, al anodized
- belt guides, PA black
- 2 antistatic belts
  width 32 mm, 5 mm step

Maximum load /6 m : 300 daN

Maximum accumulation maxi /6 m : 150 daN

Weight : 21.2 kg + 6.9 kg/m
Cap 200

**APPLICATIONS**
Allows to close the direct driving unit and the idling unit.
When using cam, the opposite cap of this one is delivered with the set cam.
Also used for motorization 120.02.000.

**Technical data**
2 parts, PA black

Weight: 0.07 kg

---

Cap for light motorization timing belt

**APPLICATIONS**
Allows to close the light timing belt driving unit and the idling unit.
When using cam, the opposite cap of this one is delivered with the set cam.

**Technical data**
1 part and 1 symmetric part, PA black

Weight: 0.07 kg

---

Cap for heavy motorization timing belt

**APPLICATIONS**
Allows to close the heavy timing belt driving unit and the idling unit.
When using cam, the opposite cap of this one is delivered with the set cam.

**Technical data**
1 part and 1 symmetric part, PA black

Weight: 0.07 kg

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<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cap 200</td>
<td>1 pce</td>
<td>120.11.100</td>
</tr>
<tr>
<td>Cap for light motorization cc</td>
<td>1 pce</td>
<td>120.87.100</td>
</tr>
<tr>
<td>Cap for heavy motorization cc</td>
<td>1 pce</td>
<td>120.80.100</td>
</tr>
</tbody>
</table>
Straight joining for direct driving unit

**APPLICATIONS**
Allows to join end to end two conveying units.

**Technical data**
- Guide, PA black
- Joining set alu

Weight : 0.2 kg

Straight joining for light motorization timing belt

**APPLICATIONS**
Allows to join end to end two conveying units.

**Technical data**
- Guide, PA black
- Joining set alu

Weight : 0.18 kg

Straight joining for heavy motorization timing belt

**APPLICATIONS**
Allows to join end to end two conveying units.

**Technical data**
- Guide, PA black
- Joining set alu

Weight : 0.2 kg

<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight joining for direct driving unit</td>
<td>1 pce</td>
<td>120.18.000</td>
</tr>
<tr>
<td>Straight joining for light motorization</td>
<td>1 pce</td>
<td>120.89.000</td>
</tr>
<tr>
<td>Straight joining for heavy motorization</td>
<td>1 pce</td>
<td>120.82.000</td>
</tr>
</tbody>
</table>
Cams ED, EG, SD, SG for direct driving unit and motorizations with timing belt.
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.
No automatism is required.
If a selection is necessary (derivation or not), add the derivation set (page 32 of general catalogue).

When using short cams see pages 26 and 28 of general catalogue.

⚠️ **Do not accumulate workpiece carriers in cams.**
ED, EG Width 200

Technical data
Only used on the motorization part.
For the cams which are set on idling unit, use cams page 25 of general catalogue.

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

Cams 200 also allow the passage of workpiece carriers 200x250 and 200x300.

If a selection is necessary (derivation or not), add the derivation set (page 32 of general catalogue).

Do not accumulate workpiece carriers in cams.

Weight: 1 kg

<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cam ED 200 direct</td>
<td>1 set</td>
<td>120.06.000.SC</td>
</tr>
<tr>
<td>Cam EG 200 direct</td>
<td>1 set</td>
<td>120.16.000.SC</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>
</tbody>
</table>
ED, EG, SD, SG Width 200

Technical data

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

Cams 200 also allow the passage of workpiece carriers 200x250 and 200x300.

If a selection is necessary (derivation or not), add the derivation set (page 32 of general catalogue).

⚠️ Do not accumulate workpiece carriers in cams.

Weight: 1 kg

<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cam ED 200 cc light motorization</td>
<td>1 pce</td>
<td>120.90.100</td>
</tr>
<tr>
<td>Cam EG 200 cc light motorization</td>
<td>1 pce</td>
<td>120.90.200</td>
</tr>
<tr>
<td>Cam SD 200 cc light motorization</td>
<td>1 pce</td>
<td>120.90.300</td>
</tr>
<tr>
<td>Cam SG 200 cc light motorization</td>
<td>1 pce</td>
<td>120.90.400</td>
</tr>
</tbody>
</table>
ED, EG, SD, SG Width 200

Technical data

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

Cams 200 also allow the passage of workpiece carriers 200x250 and 200x300.

If a selection is necessary (derivation or not), add the derivation set (page 32 of general catalogue).

⚠️ Do not accumulate workpiece carriers in cams.

Weight: 1 kg

Designation / Dimensions | Order unit | Reference
--- | --- | ---
Cam ED 200 cc heavy motorization | 1 pce | 120.83.100
Cam EG 200 cc heavy motorization | 1 pce | 120.83.200
Cam SD 200 cc heavy motorization | 1 pce | 120.83.300
Cam SG 200 cc heavy motorization | 1 pce | 120.83.400
Width 200 - 300 - 400

APPLICATIONS

The use of workpiece carriers with shock absorbers (workpiece carriers T) limits the shock between the workpiece carriers and reduces the noise.

The use of shocks absorbers is only possible with unidirectional workpiece carriers.

Set up a stopper before every positioning unit.

A = 200  D = 120
A = 300  D = 220
A = 400  D = 320

Weight:
200x200 : 1,75 kg
200x250 : 2,2 kg
200x300 : 2,6 kg
300x300 : 3,1 kg
300x400 : 4,1 kg
400x400 : 5,4 kg
They allow to reduce the shock of the workpiece carrier on the stoppers or on positioning unit stoppers.
Stopper rod moves in contact with the workpiece carrier and a shock absorber neutralizes the kinetic energy of workpiece carrier.
The stop position depends on the load on the workpiece carrier or the number of workpiece carriers.
On the positioning units, a cam repositions the workpiece carrier at the time of rising of positioning unit.
The maximum load on a stopper for an optimum damping is 20 kg.
Concerning the positioning units, an up stream stopper is required.
All stoppers have springs which enable to maintain stopper rod in high position in case of emergency stop.
Preferably use workpiece carriers with shock absorbers.
Possibility to adapt this system on multi-positioning units.
Width 200 - 300 - 400

Technical data

x Stopper rod, steel

Complete set with double effect cylinder
diam. 32, detectable positions.
Bracket for shielded mounting sensor
M12x100
Detection range : 4 mm

Maximum load : 20 daN

⚠️ Flow rate controller G 1/8
should be adapted

Weight :
200 : 1.4 kg
300 : 1.8 kg
400 : 2.1 kg

Designation / Dimensions | Order unit | Reference
--------------------------|------------|------------------
Stopper 200 dumped        | 1 pce      | 120.65.000.RA
Stopper 300 dumped        | 1 pce      | 130.65.000.RA
Stopper 400 dumped        | 1 pce      | 140.65.000.RA
Low positioning units dumped

**Positioning units**
The positioning unit is directly fitted on the conveying units.
An up stream stopper is required.

**Positioning units for station**
They are fixed to a table or a frame to ensure accuracy with the
other surrounding elements.
An up stream stopper is required.

**Heavy positioning units**
For operations requiring accuracy and involving important
strain [up to 1500 daN] at the center of workpiece carrier. The
positioning unit must be fixed on a frame capable of supporting
the strain applied. An up stream stopper is required.

Lift positioning units dumped

**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.

An up stream stopper is required.

Bridge positioning units dumped

**Bridge positioning units**
Allow to rise a workpiece carrier in a station and to another workpiece
carrier can flow below.

Particularly suitable at the checkpoint.

Positioning accuracy +/- 1 mm.

A refocusing of workpiece carrier is required for operations which
need an important accuracy.

An up stream stopper is required.
### Technical data

**Complete set with:**
- x stopper
- x 1 double effect cylinder diam. 32 (stopper)
- x 1 double effect cylinder diam. 50 (positioning unit)
- x detectable positions
- x holes for shielding mounting sensor M12x100, detection range : 4 mm

**Flow rate controller G 1/8 should**

be adapted

Maximum vertical strain : 100 daN for a pressure of 6 bars at the center of workpiece carrier.

Repeatability : +/- 0.03 mm.

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

**Designation / Dimensions**

<table>
<thead>
<tr>
<th>Designation / Dimensions</th>
<th>Order unit</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positioning unit 200 dumped</td>
<td>1 pce</td>
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<tr>
<td>Positioning unit 200x250 dumped</td>
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<td>125.64.000.RA</td>
</tr>
<tr>
<td>Positioning unit 200x300 dumped</td>
<td>1 pce</td>
<td>123.64.000.RA</td>
</tr>
<tr>
<td>Positioning unit 300 dumped</td>
<td>1 pce</td>
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</tr>
<tr>
<td>Positioning unit 300x400 dumped</td>
<td>1 pce</td>
<td>134.64.000.RA</td>
</tr>
<tr>
<td>Positioning unit 400 dumped</td>
<td>1 pce</td>
<td>140.64.000.RA</td>
</tr>
</tbody>
</table>

A = width of workpiece carrier
B = length of workpiece carrier
Width 200 - 300 - 400

Technical data
Complete set including:

- x stopper
- x 1 double effect cylinder diam. 32 (stopper)
- x 1 double effect cylinder diam. 50 (positioning unit)
- x holes for 2 inductive sensors M12x100, detection range : 4 mm
- x 4 supports in profile 8 40x40
- x Fastening parts

⚠️ Flow rate controller G 1/8 should be adapted

Maximum vertical strain : 100 daN for a pressure of 6 bars at the center of workpiece carrier.
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 dumped | 1 pce | 120.69.000.RA
Positioning unit for station 200x250 dumped | 1 pce | 125.69.000.RA
Positioning unit for station 200x300 dumped | 1 pce | 123.69.000.RA
Positioning unit for station 300 dumped | 1 pce | 130.69.000.RA
Positioning unit for station 300x400 dumped | 1 pce | 134.69.000.RA
Positioning unit for station 400 dumped | 1 pce | 140.69.000.RA

A = width of workpiece carrier
B = length of workpiece carrier
### Technical data

**Complete set with:**

- x stopper
- x 2 pneumatic cylinders, detectable positions
- x profile stands 8 40x40
- x fastenings parts
- x holes for 2 inductive sensors
  - M12x100, detection range : 4 mm

⚠️ **Flow rate controller G 1/8 should be adapted**

- Maximum vertical strain : 1500 daN at the center of workpiece carrier (60x60 mm)
- Repeatability : +/- 0.03 mm

**Weight:**

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

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### Designation / Dimensions

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</tr>
<tr>
<td>Heavy positioning unit 400 dumped</td>
<td>1 pce</td>
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</tr>
</tbody>
</table>

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**Width 200 - 300 - 400**

**machining**

A = width of workpiece carrier  B = length of workpiece carrier
Width 200 - 300 - 400

Technical data
Complete set with:
- x stopper and positioning unit
- x ball bearing guide bush diam. 25
- x 1 double effect cylinder diam. 32 (stopper)
- x 1 double effect cylinder diam. 50 (positioning unit), detectable positions
- x spacers
- x fastening parts
- x 2 brackets for shielded mounting sensors M12x100, detection range : 4 mm

⚠️ Flow rate controller G 1/4 should be adapted

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

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

Maximum vertical strain: 100 daN at the center of workpiece carrier
Repeatability: +/- 0,06 mm

Weight:
- 200: 10,7 kg
- 300: 19,7 kg
- 400: 22,6 kg

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<tr>
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<tr>
<td>Lift positioning unit 400 dumped</td>
<td>1 pce</td>
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</tr>
</tbody>
</table>
Width 200

Technical data

Complete set with:
- x stopper and positioning unit
- x ball bearing guide bush diam. 25
- x 1 double effect cylinder diam. 32 (stopper)
- x 1 double effect cylinder diam. 50 (positioning unit), detectable positions
- x 2 brackets for shielded mounting sensors M12x100,
  detection range : 4 mm

⚠️ Flow rate controller G 1/4 should be adapted

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

Cylinder strokes available:
100 - 125 - 160 - 200 - 250 mm

Maximum vertical strain : 60 daN at the center of workpiece carrier
Repeatability : +/- 1 mm

Weight:
200x200 : 30 kg
200x250 : 31.5 kg
200x300 : 33 kg

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Our website www.elcom.fr offers the possibility of configuring yourself on-line the transfer corresponding to your needs.

Download the requested solutions in CAD 2D-3D format.

All CAD 2D-3D files are downloadable from our website.
elcom’s flat belt conveyor design, constructed from item’s range of profiles, enables a great modularity. The perfect complementarity between flat belt conveyors, profiles and transfer system will facilitate the realization of your ideas.
**Lean Manufacturing** is a method of continuous improvement which aimed at reducing costs and production times, while improving product quality and safety of employees.

To achieve these objectives, a **Lean Manufacturing** approach consists in reduce or eliminate the wastings, the rigidities and the variabilities in order to concentrate on the activity of the company: **create value**.

The integration of conveyors in the production system allows, among other things, of:

- reduce waiting times between various stages of the manufacturing process
- simplify and secure the transport of materials, components, finished products
- eliminate useless operations
- control the stocks
- decrease the movements and displacements of employees without added value
- increase the level of product quality

The **elcom system concept**, arisen from the will of **elcom** to fight against the risks of musculoskeletal disorders (MSD), is an innovative concept combining all of our technologies:

- from work benches to modular transfer systems, via lifting boxes or modular elements such as line D30.

The modular transfer systems join perfectly into the **elcom system concept** which offers a complete, personalized, flexible and ready to use solution.

The integration of transfers, combined with our modular elements, in the environment and the production flow will enable to eliminate numerous wastings, reduce the risks of musculoskeletal MSD and improve the well-being of your employees at work.
Modular elements for industrialization

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