

Technical sheet

Pallet transfer system TLM 1500



Conveying unit 24 V
p 73



Positioning unit for
station 24 V
p 93



Positioning unit, lift
p 94



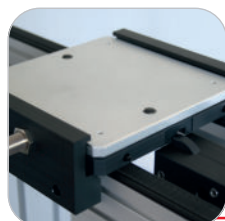
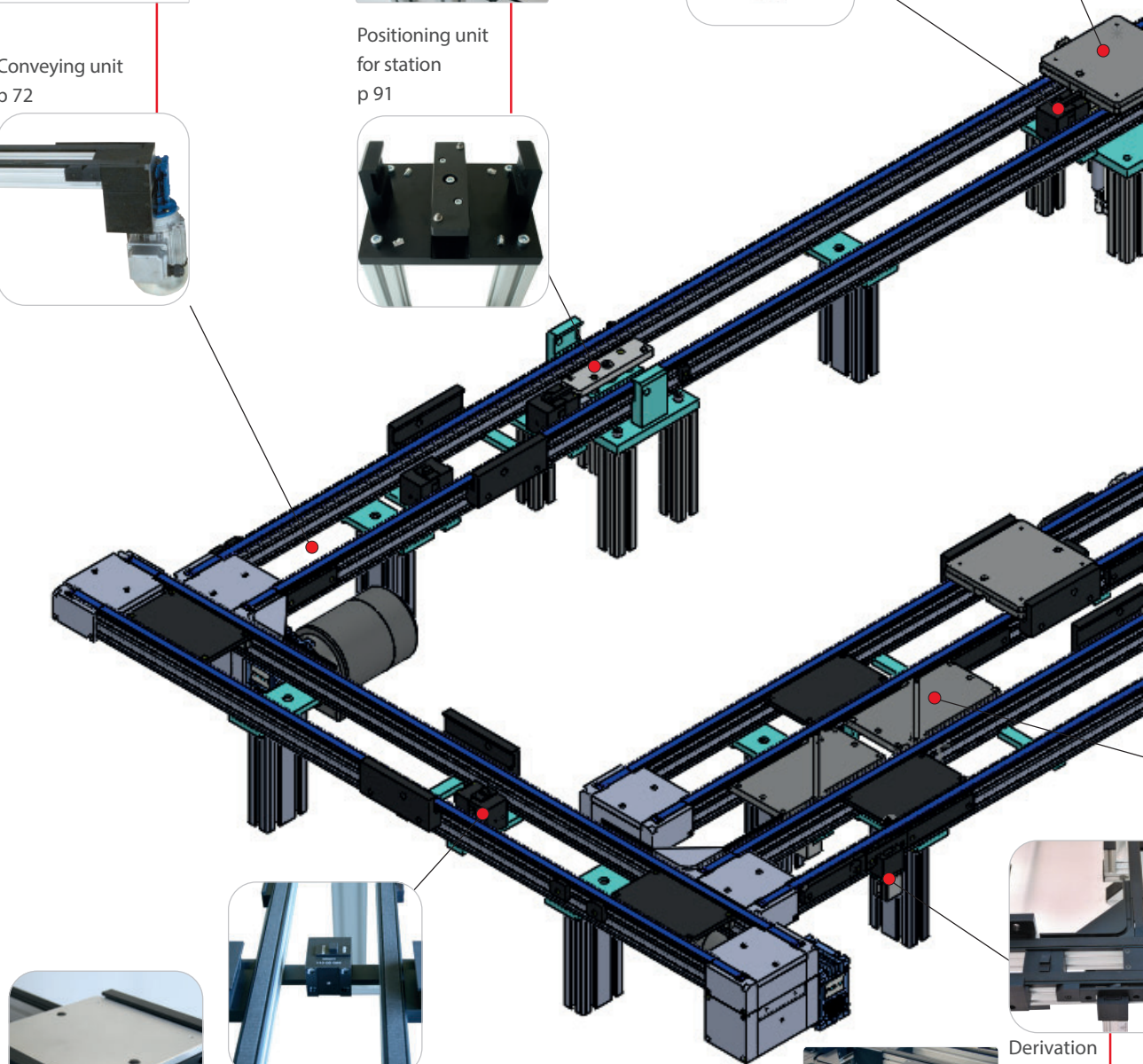
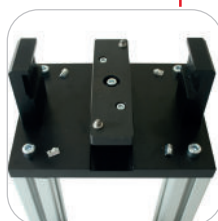
Workpiece carrier
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Conveying unit
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Positioning unit
for station
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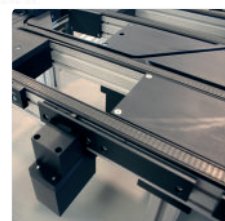
Stopper 24 V
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Stopper
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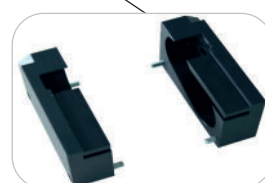
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Cap for motorization
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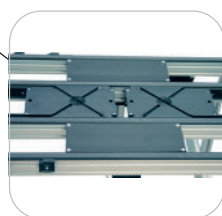
Cam 90°
p 78



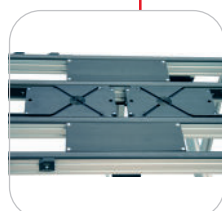
Cap for idling unit
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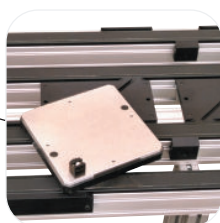
Conveying unit
stand
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Cam double
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Cam double 24 V
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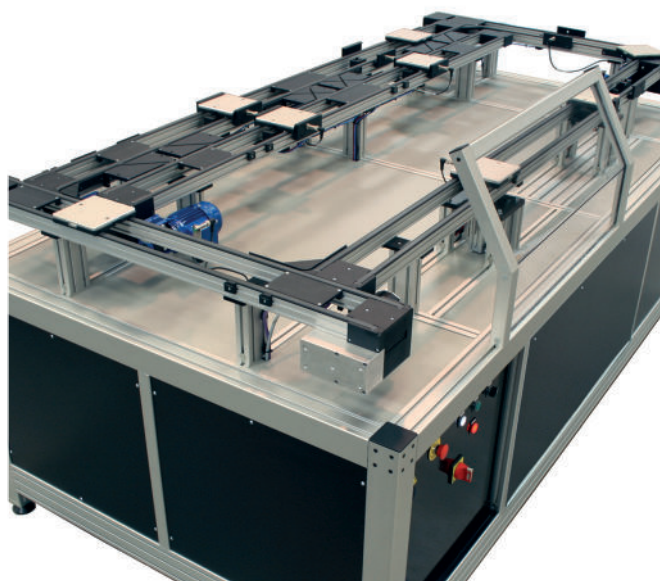
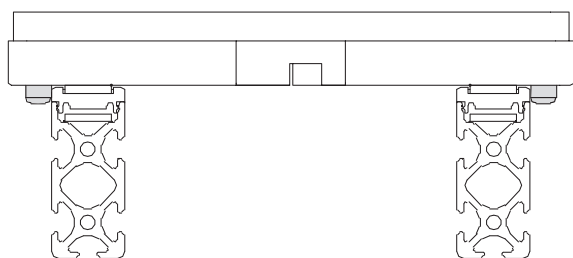


Cam short
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Data

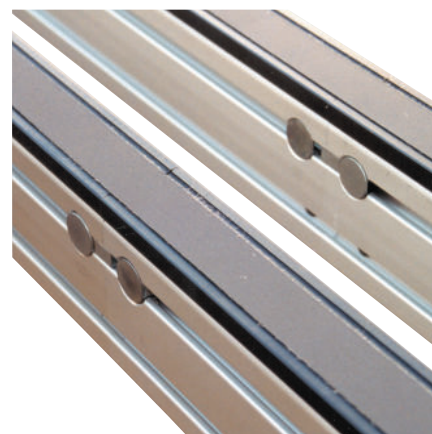
	TLM 1500
Workpiece carriers (mm)	155 x 155
Load/workpiece carrier (daN)	4
Speed (m/min) - Timing belt	12 - 16
Length of conveying unit	
Mini	500
Maxi	3 160
Maximum accumulation load per motor (daN)	
Timing belt	35
Absolute maximum load (daN)	
Timing belt	70 daN / 3m
Motor power (380 V three-phase)	0,09 KW - 0,4 A

The maximum length of the conveying units is: 3160 mm.
For long spans, several elements can be butted end to end.
For important accumulations, the length of the conveying units must be adapted to the load.

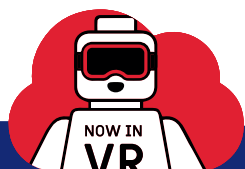
It is recommended to place sensors in order to control accumulation of the load.

Pneumatic cylinders must be equipped with flow rate controllers.

It is possible for long spans to have conveyor's cut done in order to facilitate the dismantling of the machines.



Conveyor's cut profile butted end to end



Tip

Download all CAD 3D files



Workpiece carriers

Applications

The workpiece carriers allow the mounting of holders which ensure an accurate positioning of the assembly during the process.

The workpiece carriers consists of two plates.

The upper aluminium plate allows the fastening of workpieces, ensures the geometrical behaviour workpiece carrier as well as the positioning accuracy. Machining (drillings and tappings) can be made according to the customer's wish.

Stainless steel bushes located in the aluminium plate

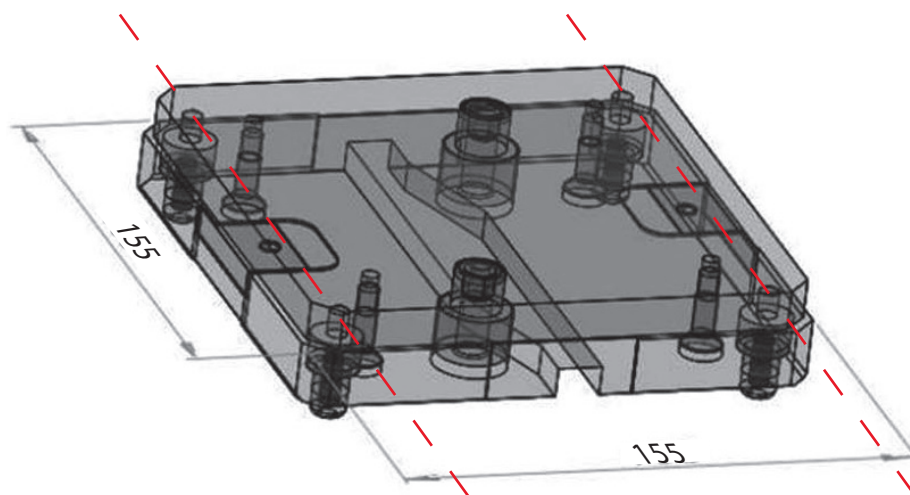
guarantee resistance to wear and a perfect accuracy. The PA base has an extremely low friction coefficient and lays on the conveying belts. This base hosts 4 guiding pins (specific to **elcom**) and has the necessary shape to ensure stoppers proper functioning.

Metallic bars are located on each side of the workpiece carrier in order to detect them at several workstations. The characteristics of stoppers, guiding pins with springs can be found in the next pages.

Variable length of **elcom**'s workpiece carriers and specific workpiece carriers

Standard workpiece carriers are available to install the workpieces that will be conveyed. In many cases, the surface area of workpiece carrier is not sufficient. Specific workpiece carriers can be supplied. The use of 4 guiding pins makes it possible to vary the length

of workpiece carrier and to optimize cycle times. The guiding pins remain in the position of the nearest standard workpiece carrier. So, all the standard elements such as cams are usable without modification.



Workpiece carriers U and M

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 ensure perfect accuracy and resistance against deterioration.

On each side of workpiece carrier, small metallic bars allow detection of workpiece carriers at various positions.

Unidirectional workpiece carriers

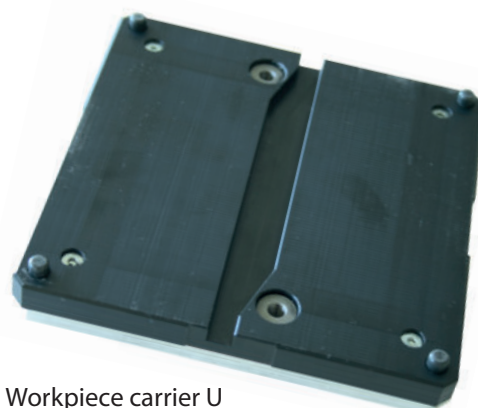
They are perfectly compatible with a 180° swivelling.

Possibility of adding shock absorbers to limit the shock between the workpiece carriers and to reduce the noise (T).

Workpiece carriers multidirectionnelles (M)

For square workpiece carriers only.

They are perfectly compatible with 90°, 180° and 270° swivellings, delivered with 2 bushes and 2 additional detection bars.



Workpiece carrier U



Workpiece carrier M

Workpiece carriers with shock absorber T

The PA base is provided with two drills on the side in the direction of motion. Shock absorbers are inserted in these drills.

These damp the impact between two workpiece carriers and therefore reduce noise pollution.

The workpiece carrier with shock absorber T corresponds to the standard U-type workpiece carrier.



The use of workpiece carrier with shock absorbers requires the installation of a stopper before each positioning unit. This avoids the shearing of shock absorbers.



Workpiece carrier with shock absorber

Workpiece carrier U Width 150

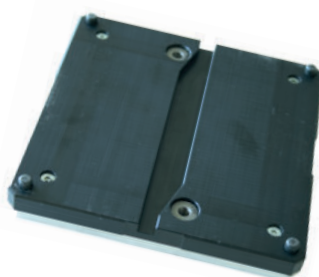
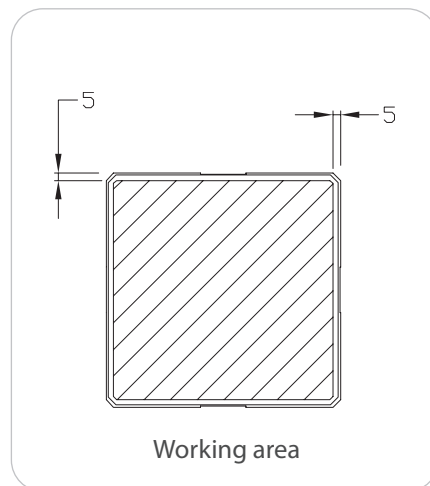
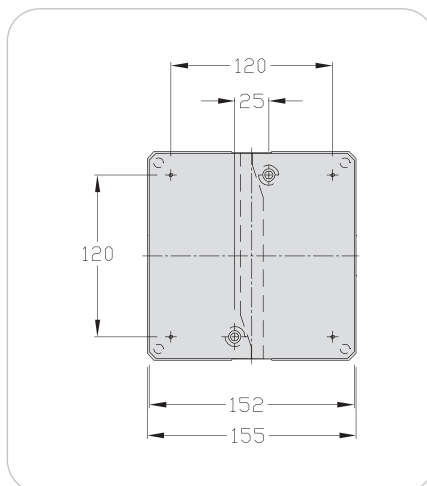
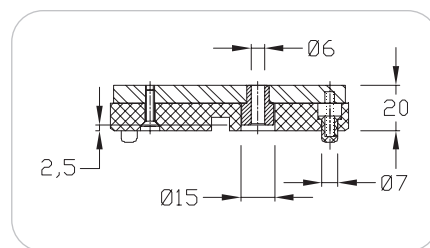
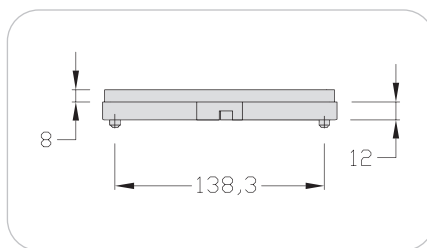
Technical data

- ✗ Plate Al
- ✗ Base, PA black
- ✗ 2 steel bushes
- ✗ 4 pins PA
- ✗ 4 springs
- ✗ 4 countersunk screws M4x16
- ✗ 2 detection bars
- ✗ 2 plugs

Add T at the end of reference to mention shock absorber option.

 **Maximum load: 4 daN**

Weight: 0,83 kg



Designation / Dimensions	Order unit	Reference
Workpiece carrier U 150x150	1 pce	150.62.000
Workpiece carrier U 150x150 T	1 pce	150.62.000.T

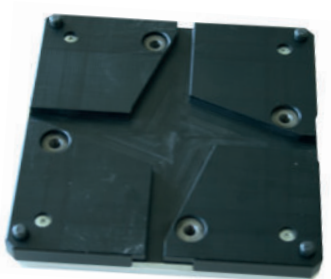
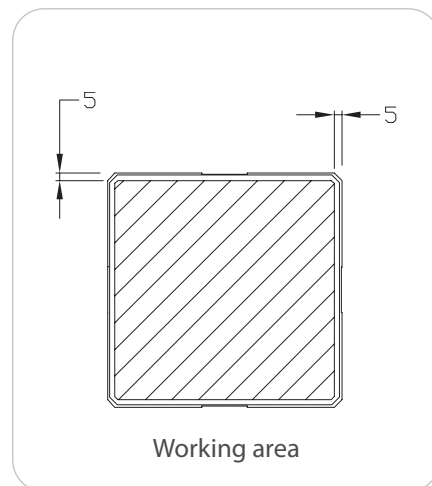
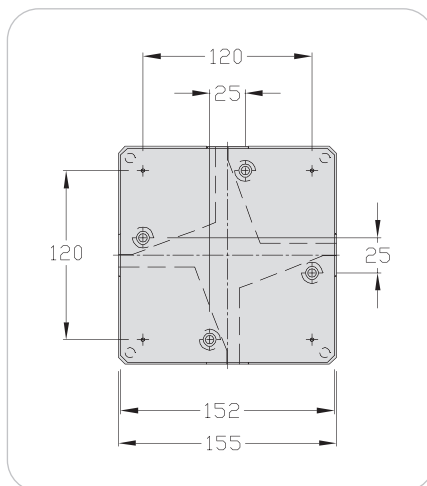
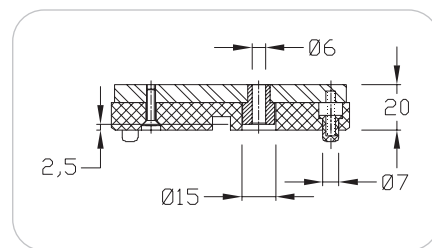
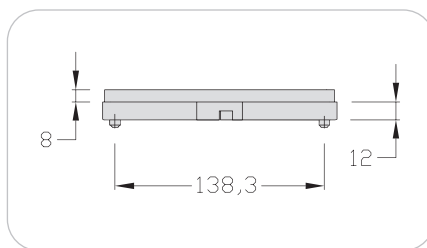
Workpiece carrier M Width 150

Technical data

- ✗ Plate Al
- ✗ Base, PA black
- ✗ 4 steel bushes
- ✗ 4 pins PA
- ✗ 4 springs
- ✗ 4 countersunk screws M4x16
- ✗ 4 detection bars
- ✗ 4 plugs

⚠ Maximum load: 4 daN

Weight: 0,92 kg



Designation / Dimensions	Order unit	Reference
Workpiece carrier M 150x150	1 pce	150.64.000

Conveying unit timing belt

Applications

Moving and accumulating of workpiece carriers 150x150.

The motor can be fitted either vertically or horizontally, on the right or the left side.

The use of timing belts enables to increase the carried load and facilitates the maintenance when changing belts.

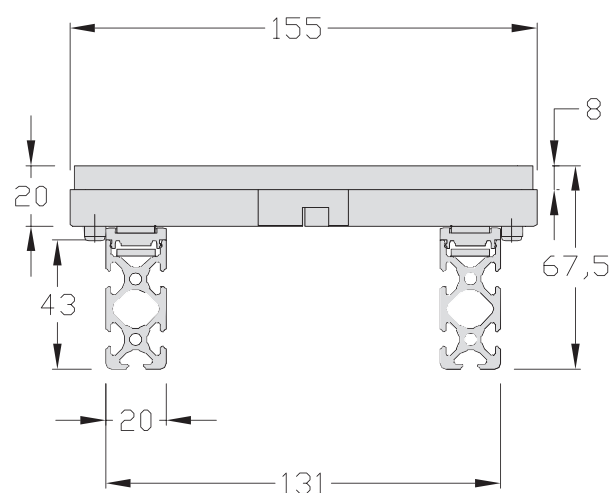
Belt guides are pressed into aluminium profile housing.

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

The cuttings of conveyors allow division of the lengths, making transport and installation of the lines easier.

The installation is facilitated thanks to the use of timing belts.

Spacers have to be fitted between the profiles every 1 meter to ensure a perfect parallelism of the profiles.



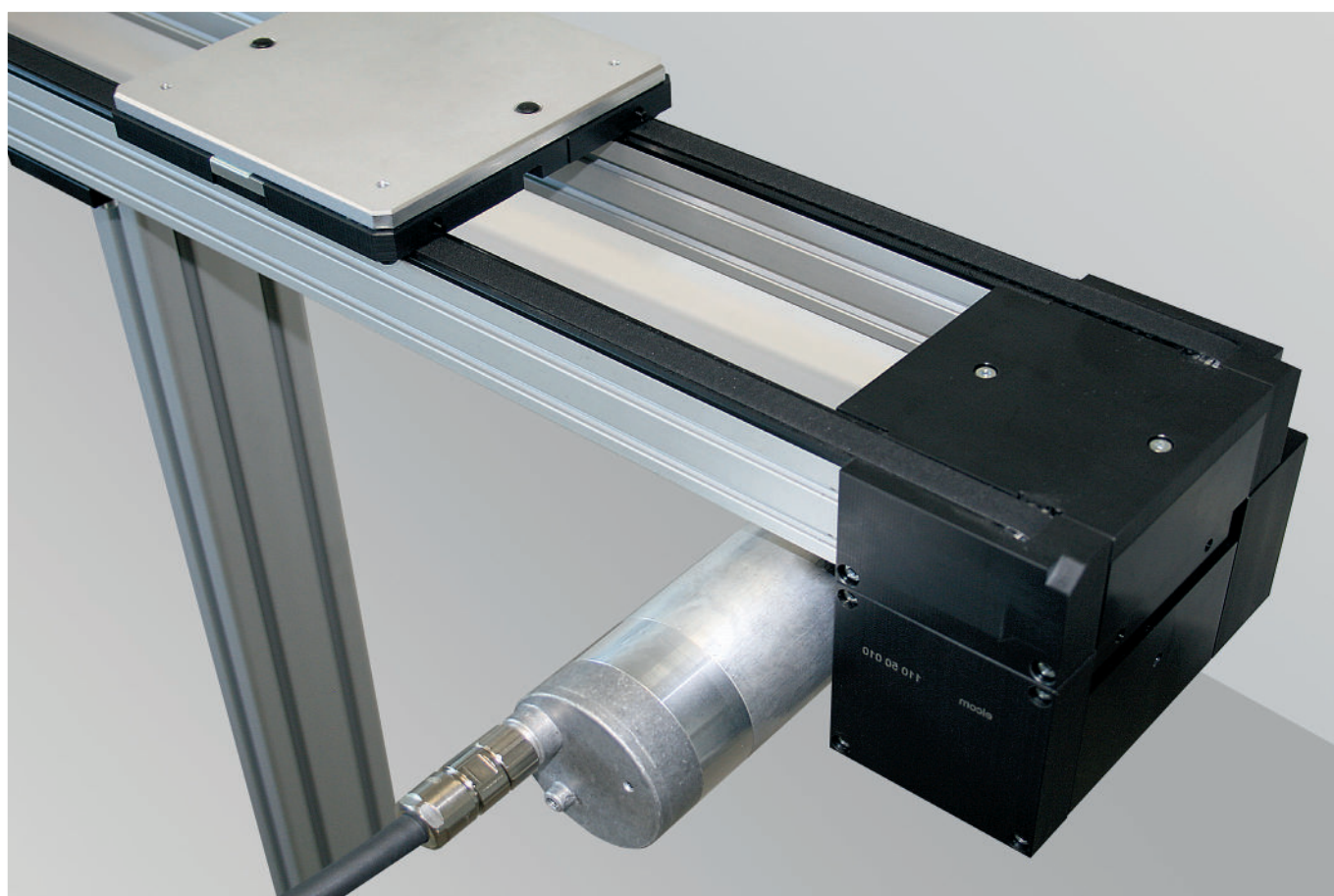
Conveying unit 24 V timing belt

Moving and accumulating of workpiece carriers 150x150. The use of antistatic timing belts increases the load being transported and facilitates the maintenance when changing belts. Belt guides are pressed into aluminium profile housings. According to the load, longer

spans can be joined end to end by straight joinings. The cuttings of conveyors allow division of the lengths, making transport and installation lines easier. The reassembly is greatly facilitated thanks to the use of timing belts. Spacers have to be fitted between the profiles every meter to ensure

a perfect parallelism of the two profiles.

This conveying unit is supplied with a Brushless motor factory-programmed according to your speed and acceleration ramp requirements. The use of a Brushless gear motor facilitates the wiring.



NEW:

This process allows to divide the electric consumption by 10 to 15.



Conveying unit timing belt Width 150

Technical data

Length mini L = 500 mm

Length maxi L = 3160 mm

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

Conveying unit including

- ✗ 1 idling unit
- ✗ 1 driving unit
 - speed: 12 or 16 m/min
- ✗ 1 motor 380 V three-phase
 - 0,09 KW I: 0,4 A

Conveyor length

- ✗ 2 profiles 5 43x20, al anodized
- ✗ 2 belt guides, PA black
- ✗ 2 antistatic timing belts
 - width 12 mm, 5 mm step

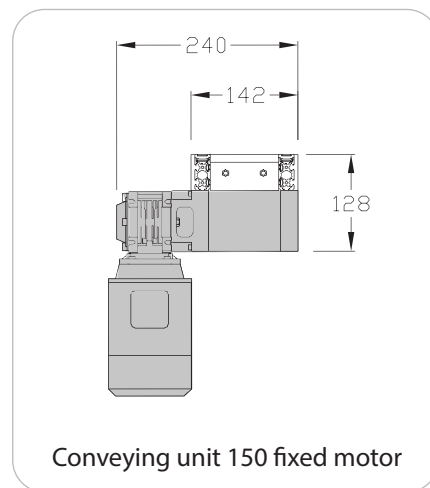
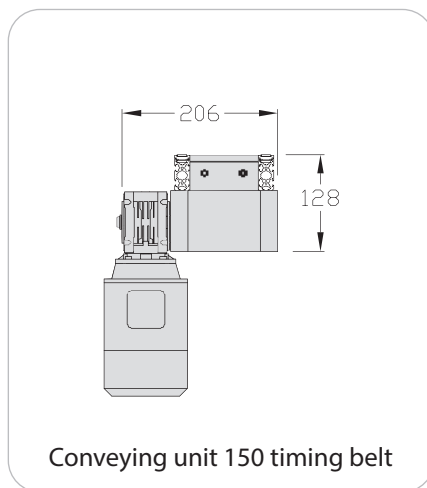
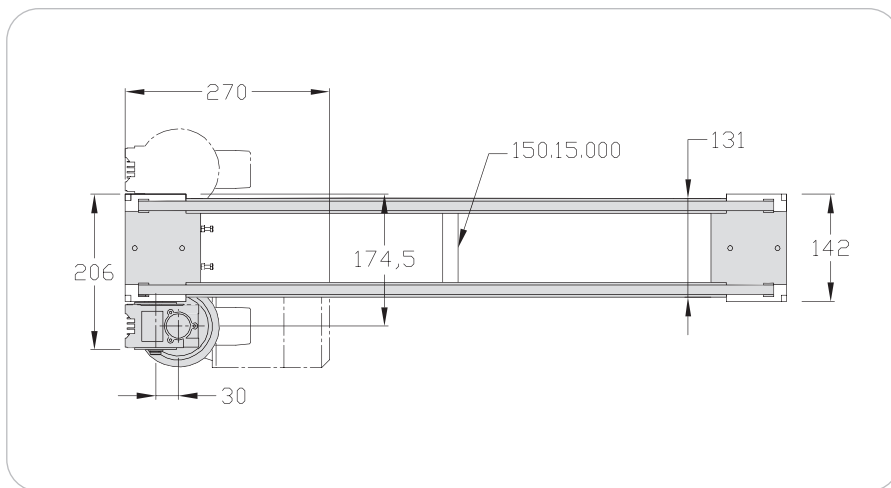
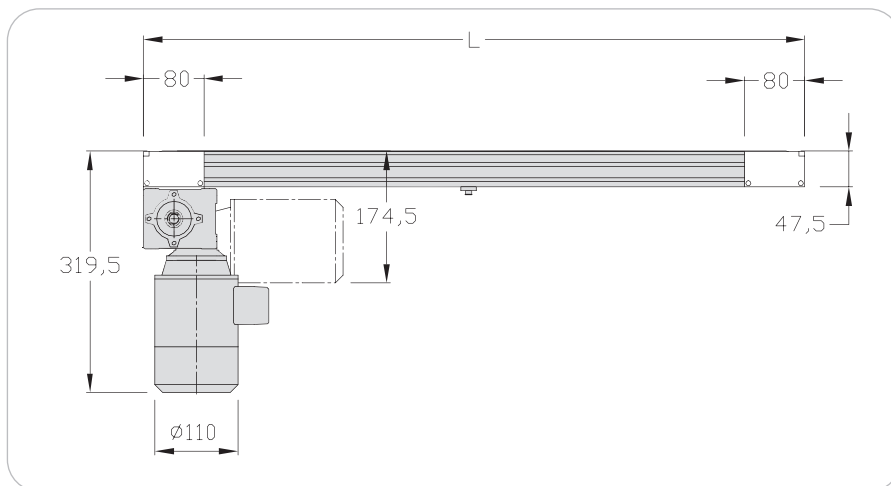
Maximum load / 3 m: 70 daN

Maximum accumulation load / 3 m:
35 daN

Belt length in mm

$$L_c = [(L-160) \times 2 + 526] \times 0,9995$$

Weight: 9,5 kg + 2,07 kg / m



Designation / Dimensions	Order unit	Reference
Conveying unit 150 timing belt	1 pce	150.50.000.**
Conveying unit 150 timing belt fixed motor	1 pce	150.42.000.**
Conveying length	m	110.50.000.A

(** = speed of motor m/min: 12 or 16 eg: 150.50.000.12)

Conveying unit 24 V timing belt Width 150

Technical data

Length mini L = 500 mm

Length maxi L = 3160 mm

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

Conveying unit

- ✗ 1 idling unit
- ✗ 1 driving unit
 - speed: 9 to 19 m/min
 - programmable en usine,
- ✗ 1 motor 24 V
 - 0,09 KW
 - I: minimum supply voltage 5 A

Conveyor length

- ✗ 2 profiles 5 43x20, al anodized
- ✗ 2 belt guides, PA black
- ✗ 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

$$L_c = [(L-160) \times 2 + 526] \times 0,9995$$

Power supply: 24 VDC

Supply current: 8,5 A

Control voltage: 24 VDC

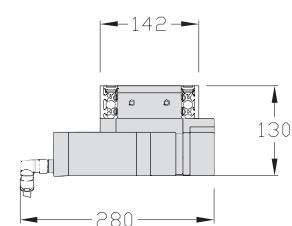
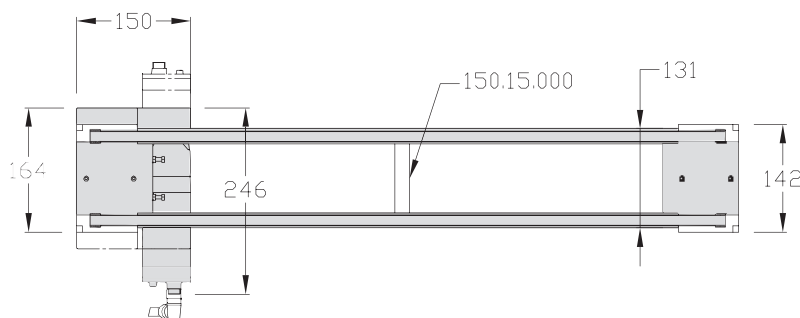
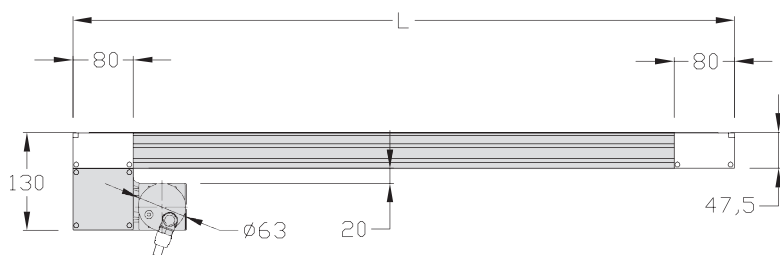
Control current: 10 mA

2 control outputs

2 status inputs



A straight or angled connector is required



Weight: 8 kg + 2,07 kg /m

Designation / Dimensions	Order unit	Reference
Conveying unit 24 V 150 timing belt motor Papst right	1 pce	150.50.000 EDP
Conveying unit 24 V 150 timing belt motor Papst left	1 pce	150.50.000 EGP
Conveying length	m	110.50.000 A

Spacer Width 150

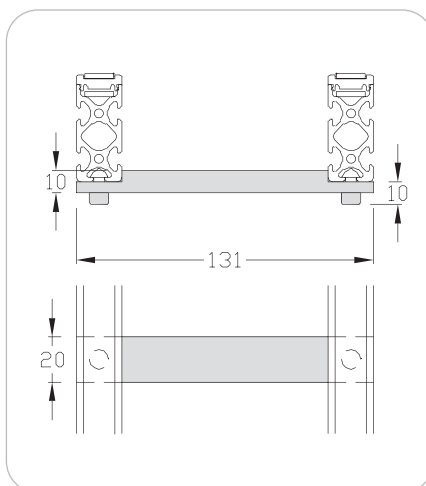
Applications

Spacers have to be fitted every 1 meter to ensure a perfect parallelism of profiles.

Technical data

✗ 1 aluminium part + fastening parts

Weight: 0,065 kg



Designation / Dimensions	Order unit	Reference
Spacer 150	1 pce	150.15.000

Caps Width 150

Applications

Allow to protect the direct driving and the idling unit.

When using a cam, the opposite cap is delivered with the cam set.

Technical data

Cap for mtorization 100 adapt themselves on the motorization150.

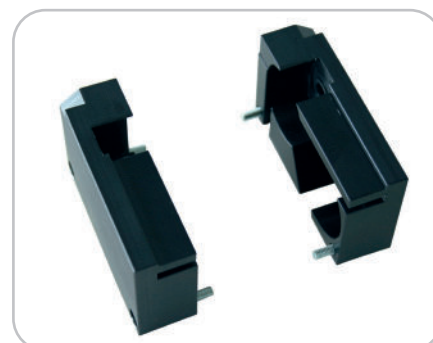
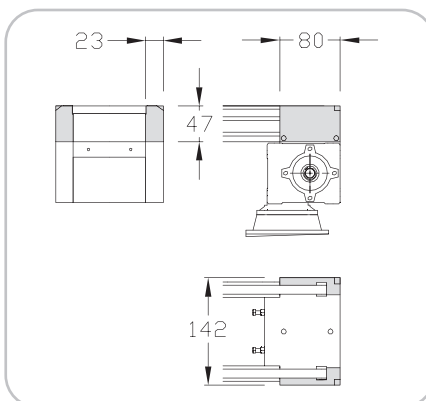
Cap for motorization

✗ 1 part + 1 symmetrical part, PA black + fastening parts

Cap for idling unit

✗ 1 part and 1 symmetrical part, PA black + fastening parts

Weight: 0,07 kg



Designation / Dimensions	Order unit	Reference
Cap for motorization 150 timing belt	1 set	110.50.100
Cap for idling unit 150 timing belt	1 set	110.50.200

Straight joining Width 150

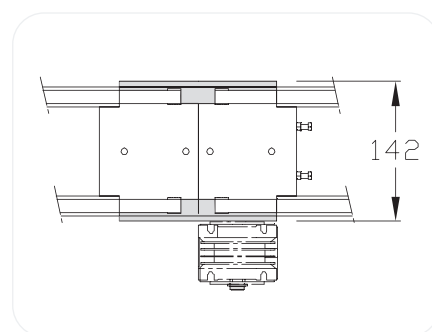
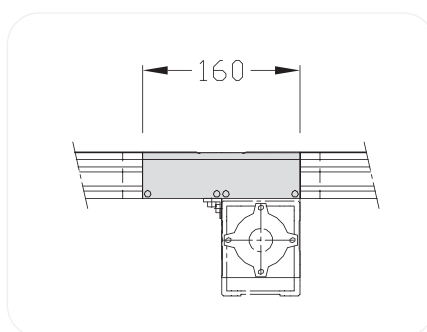
Applications

Allow to butt end to end two conveying units.

Technical data

- ✗ Guide PA black
- ✗ Joining set aluminium

Weight: 0,16 kg

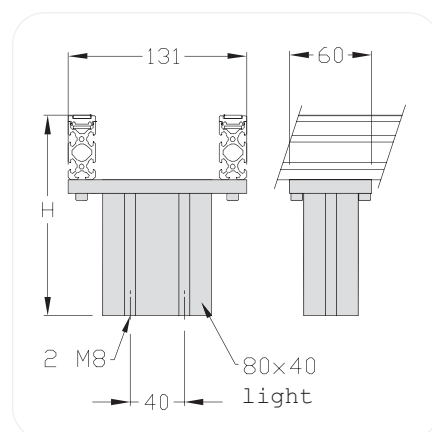


Designation / Dimensions	Order unit	Reference
Straight joining 150 timing belt	1 set	150.52.000

Conveying unit stand

Applications

Support to fit conveying units on table or frame.



Designation / Dimensions	Order unit	Reference
Conveying unit stand 150	1 set	150.16.000

Cams 90° Width 150

Applications

The cams **ED, EG, SD, SG** allow a perpendicular transfer of workpiece carriers from one conveying unit to the other without automatism.

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

They are also used for derivations.

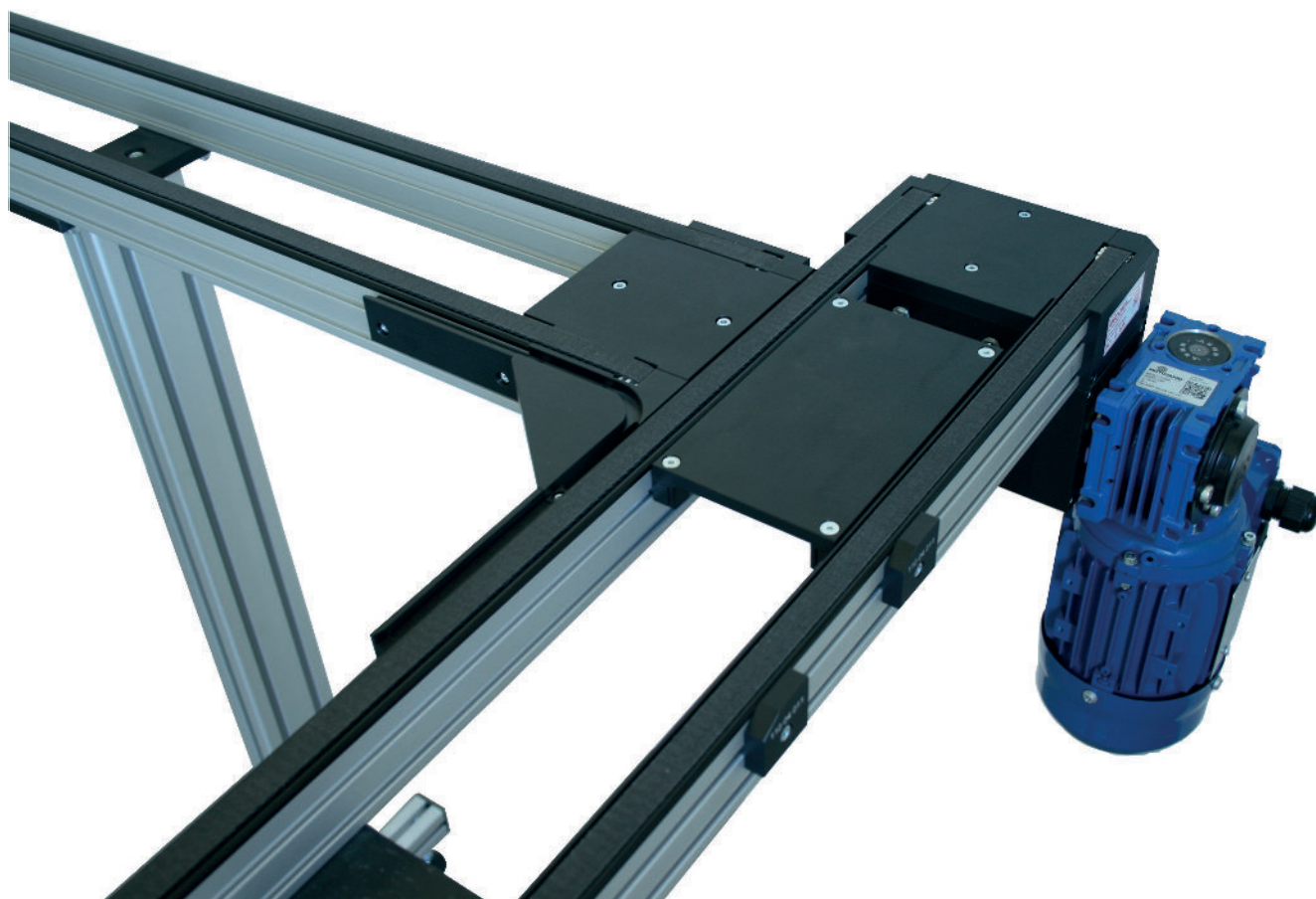
Do not accumulate the workpiece carriers in the cams.

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

Cams short SD-EG SG-ED - Cams double

The short cams and the double cams allow deviation of workpiece carriers from a main line to a secondary line without additional motorization.

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



Cams 90° Width 150

Technical data

Complete set including:

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

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

Lp = workpiece carrier length

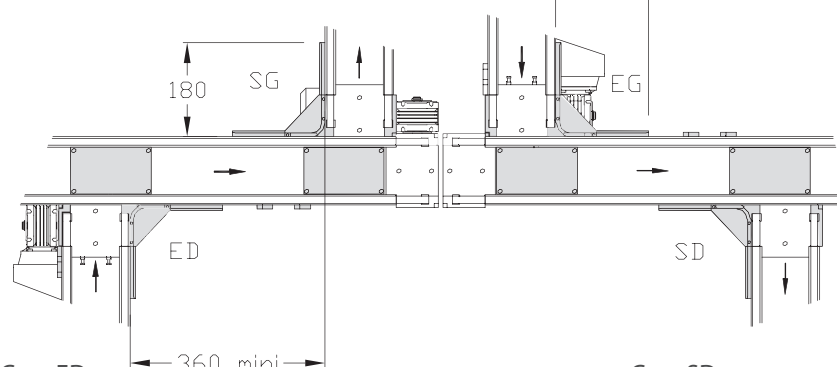
Weight:

Cams ED and EG: 0,50 kg

Cams SD and SG: 0,44 kg

Cam SG

Left outlett on
the main line

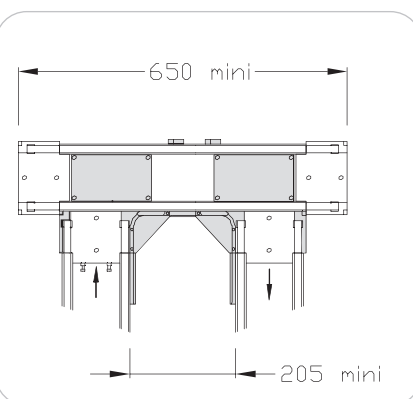


Cam ED

Right inlet on
the main line

Cam SD

Right outlet on
the main line



Designation / Dimensions	Order unit	Reference
Cam 90° ED 150	1 kit	150.53.100
Cam 90° EG 150	1 kit	150.53.200
Cam 90° SD 150	1 kit	150.53.300
Cam 90° SG 150	1 kit	150.53.400

Derivations Width 150

Applications

Derivations have to be used with a cam. They allow potential 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.

Technical data

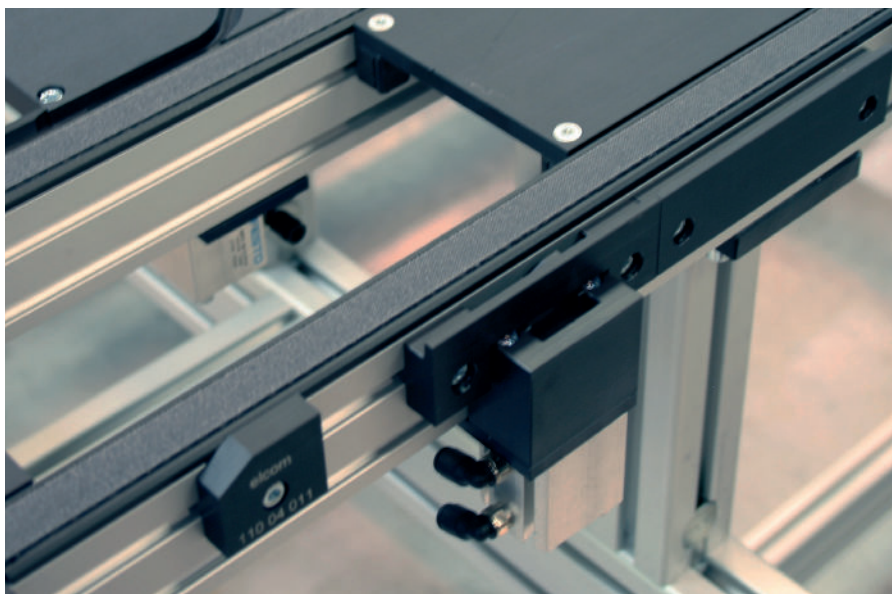
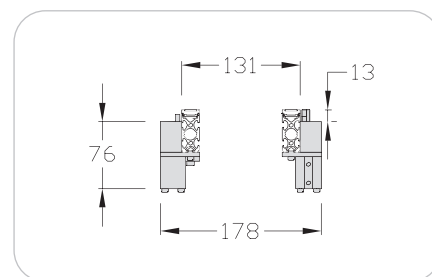
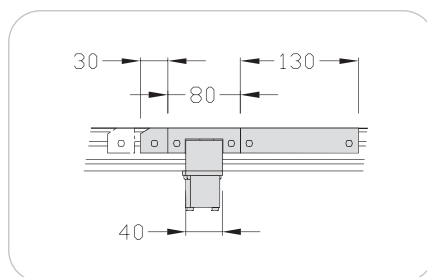
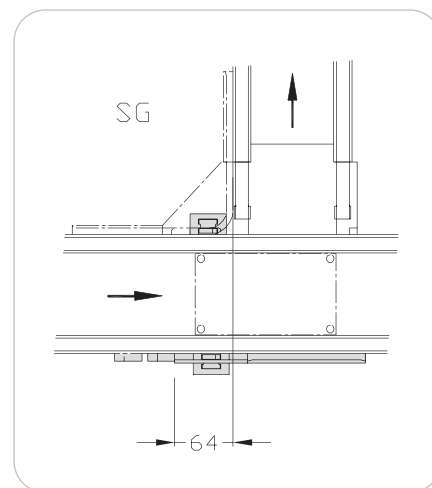
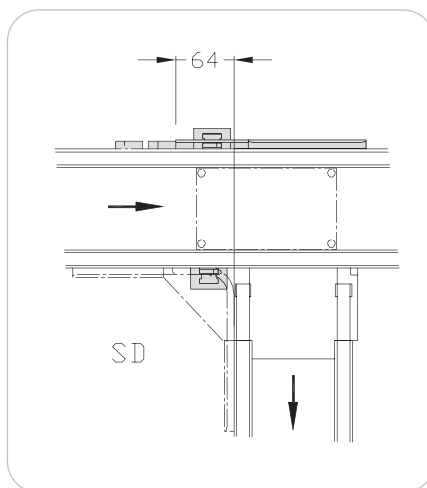
Complete set including:

- ✗ 2 plates Al
- ✗ 2 nuts 5 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



Designation / Dimensions	Order unit	Reference
Derivation 150 SD	1 kit	150.07.000
Derivation 150 SG	1 kit	150.13.000

Derivations 24 V Width 150

Applications

Necessarily combined with a cam, they allow the deviation of workpiece carriers, or not, by retracting the pins on one side or the other of the conveyor.

2 Brushless gear motors controlled by a control box ensure the movement. A single output for logic controller is necessary.

Control module 24 V output: automation, bus module, splitter...
Standard connectors M12.

An extension for connection M8 male/female 3 pins between the motor and the control box is required.

Technical data

Complete set including:

- ✗ 2 plates Al
- ✗ 2 nuts 5 St M4
- ✗ 2 screws M4x10
- ✗ Body, levers and guides PA
- ✗ 2 servomotors



**Cams are not included
(must be ordered separately).**

Supply voltage of of the control box:

24 volt +/- 15%

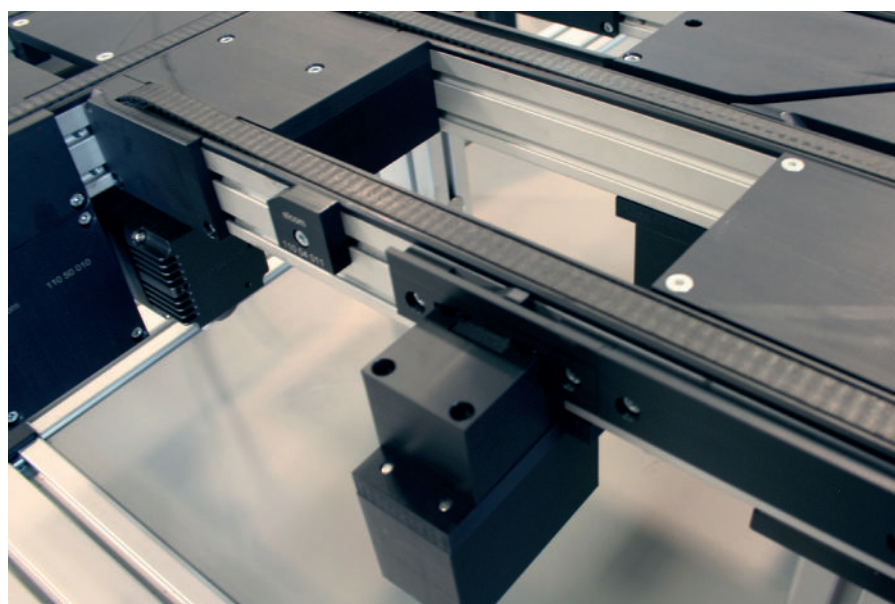
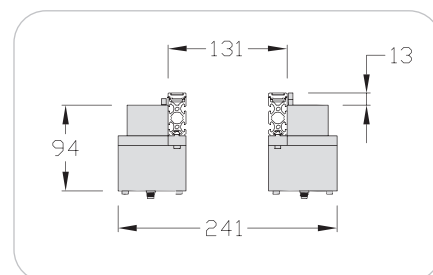
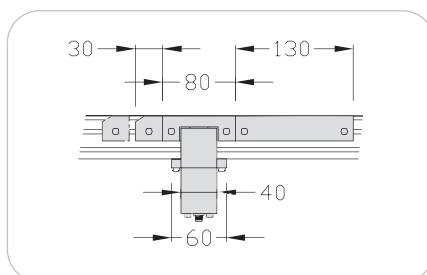
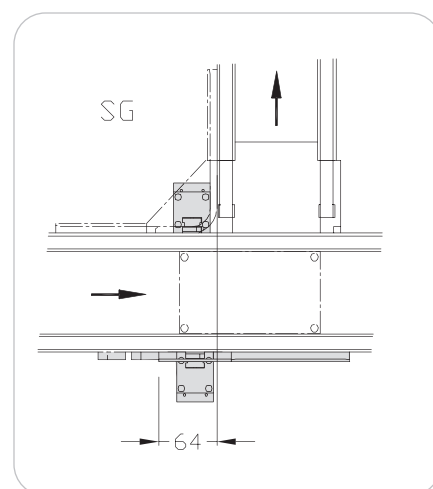
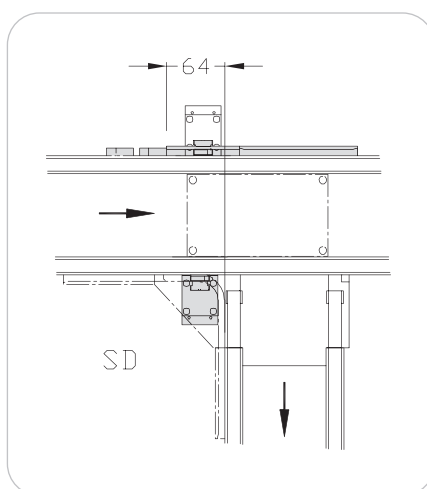
Power supply: 1,6 A maxi

Control voltage: 24 volt +/- 10 %

Control current: 5 mA maxi

Electrical connection: see detailed specification sheet included with the material.

Weight: 0,8 kg



Designation / Dimensions	Order unit	Reference
Derivation 24 V 150 SD	1 kit	150.07.000.E
Derivation 24 V 150 SG	1 kit	150.13.000.E

Stoppers, simple-double effect Width 150

Applications

They stop workpiece carriers during processing requiring no accuracy. They are perfectly adapted for manual work stations.

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

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

The anti bouncing back is integrated in the lateral guides.

Technical data

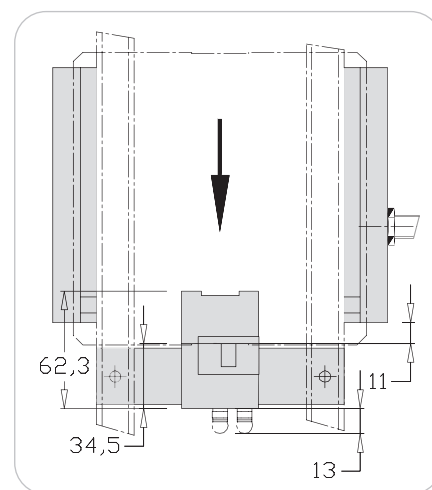
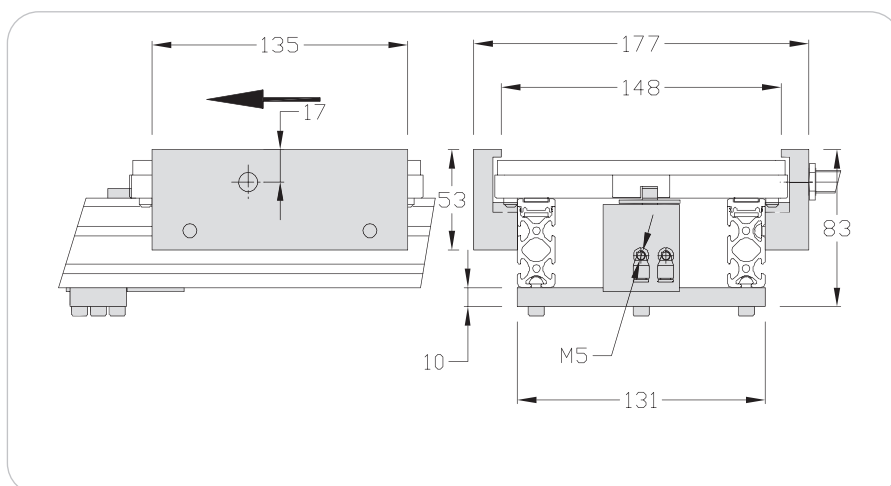
- ✗ Plate, al black
- ✗ Body and stopper PA
- ✗ Nuts 5 St M5 + screws
- ✗ Hole for shielded mounting sensor M12x100
- ✗ Detection range: 4 mm

Maximum load: 10 daN
(in accumulation)



Flow rate controllers M5 should be adapted.

Weight: 0,5 kg



Designation / Dimensions	Order unit	Reference
Stopper 150 simple effet	1 pce	150.02.000
Stopper 150 double effet	1 pce	150.22.000

Stopper damped, pneumatic Width 150

Applications

Stops workpiece carriers during processing requiring no accuracy. It allows reducing the shock of workpiece carrier against the stoppers thanks to the adjustable pneumatic damping.

Pneumatic control of the stopper with spring return.

Stopper supplied with sensor bracket.

Technical data

- ✗ Stopper
- ✗ Stopper bracket
- ✗ Sensor bracket
- ✗ Screws and nuts

Minimum load / workpiece carrier:
12-16 m/min

Maximum load/workpiece carrier
(workpiece carrier included):

- 7,5 kg to 16 m/min
- 9 kg to 12 m/min

Air consumption: 0,036 l to 6 bars.

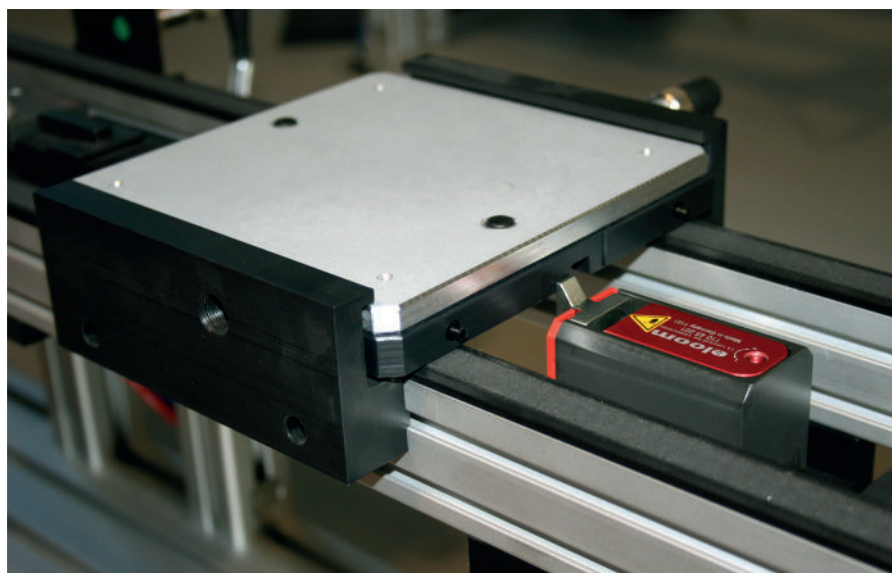
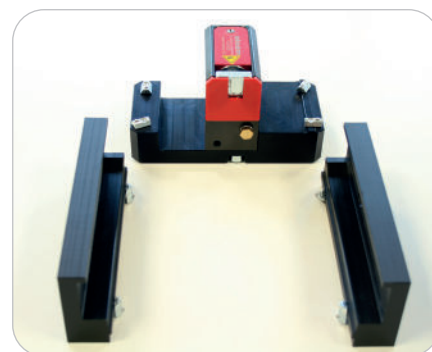
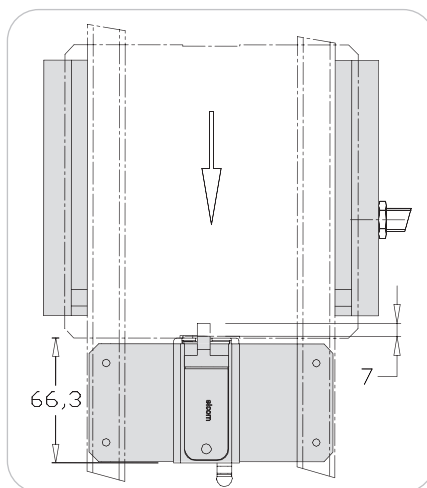
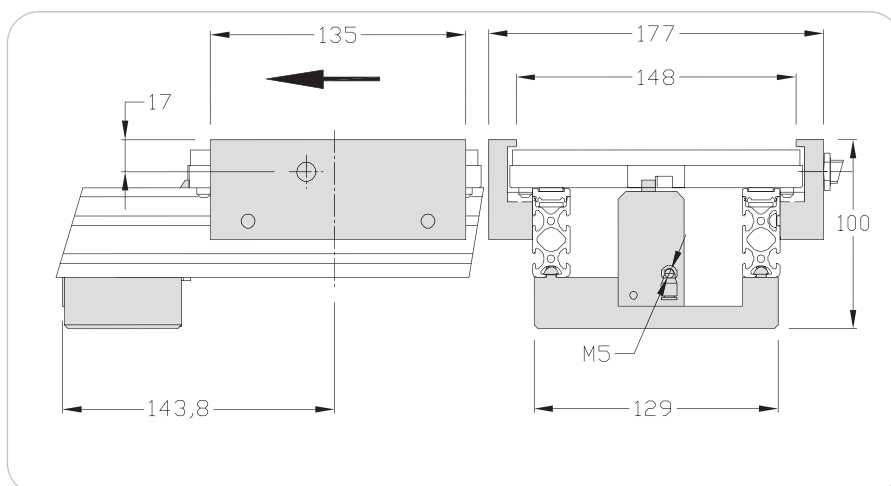
Operating pressure: 4 to 8 bars.

Longitudinal damping stroke: 7 mm



A connection M5 is required.

Weight: 1,06 kg



Designation / Dimensions	Order unit	Reference
Stopper damped 150 pneumatic	1 pce	150.45.000.RAP

Stopper 24 V Width 150

Applications

Stopper 24 V stops workpiece carriers requiring no accuracy during processing, perfectly adapted to manual work stations.

Workpiece carriers are stopped to respect conveying priorities at the end of the derivation.

Simple effect stopper with spring return. Supplied with lateral guides and sensor bracket for the detection of workpiece carriers.

A servomotor controlled by a control box ensures the change in position.

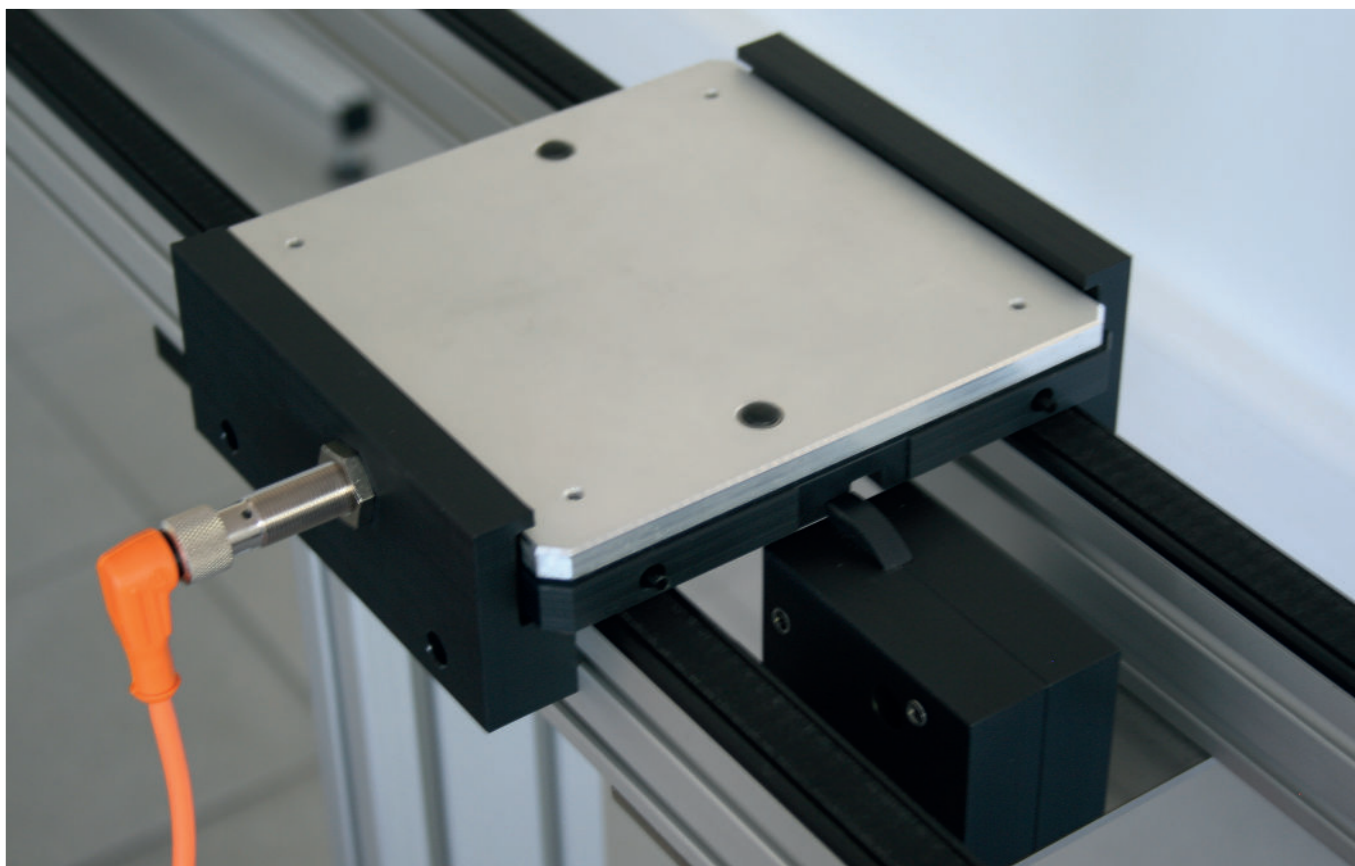
A single output for logic controller is necessary.

Control module 24 V output: automation, bus module, splitter...

Standard connectors M12.

An extension for connection M8 male/female 3 pins between the stopper and the control box is required.

The anti-bouncing back part is integrated into the lateral guides.



Technical data

- ✗ Plate, stainless steel
- ✗ Body and stopper PA
- ✗ Nuts 5 St M5 + screws
- ✗ Hole for shielded sensor M12x100
- ✗ Detection range: 4 mm

Supply voltage of of the control box:

24 VDC +/- 15%

Maximum power supply: 0.9 A

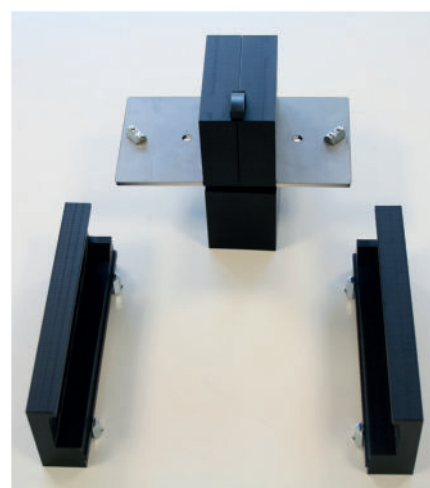
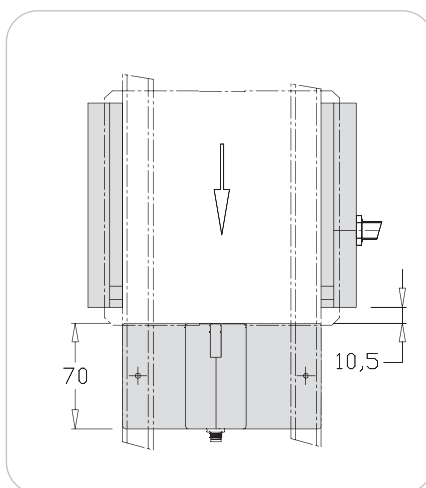
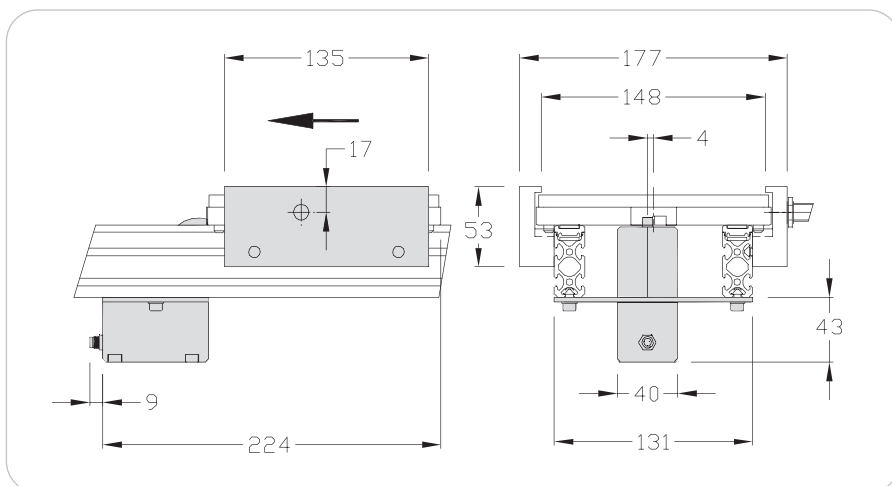
Control voltage: 24 VDC +/- 10 %

Control current: 5 mA maxi

Maximum load: 20 daN (in accumulation)

Electrical connection: see detailed specification sheet included with the material.

Weight: 0,75 kg

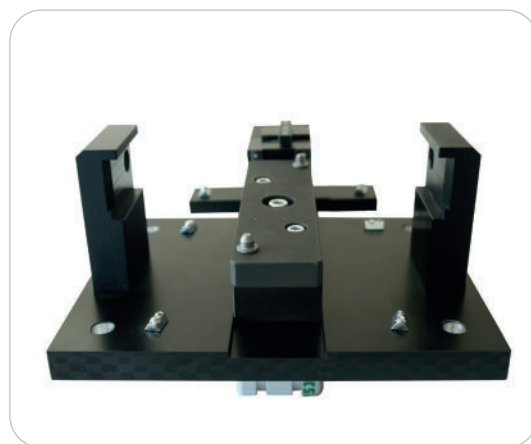


elcom ITS 24 V

Designation / Dimensions	Order unit	Reference
Stopper 24 V 150	1 pce	150.02.000.E

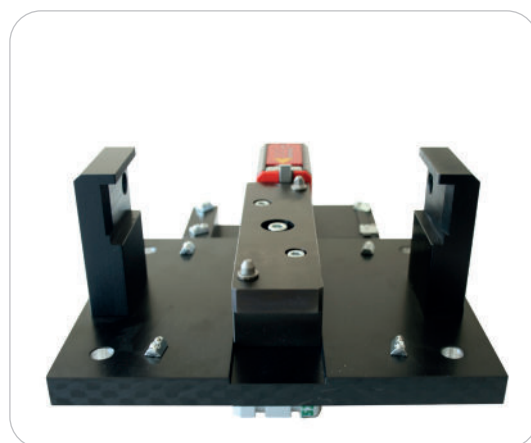
Positioning unit

- The positioning unit is directly fitted on the conveying units.
- 2 possibilities: stopper simple effect and stopper double effect.



Positioning unit, damped pneumatic stopper

- It is directly fitted on the conveying units.
- Shocks are reduced between the workpiece carrier and the stopper thanks to the adjustable damped function.
- Pneumatic control of the stopper, spring return.

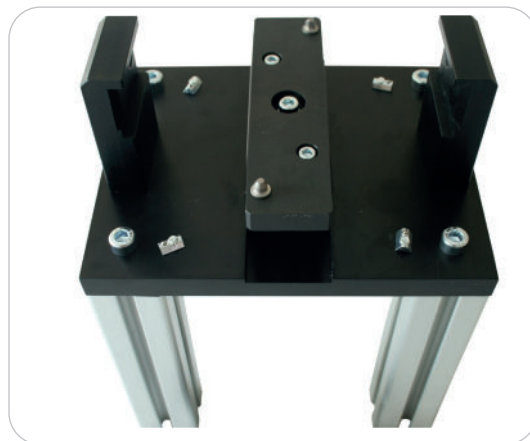


Positioning unit for station

They are settled on a table or a frame to ensure accuracy with the other surrounding elements.

A positioning set is necessary for operations requiring accuracy.

2 possibilities: simple effect stopper and double effect stopper.

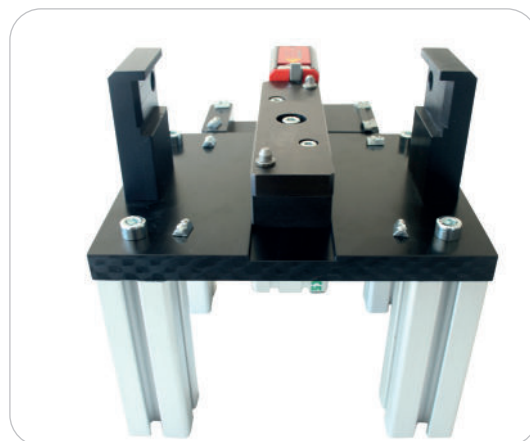


Positioning unit for station, damped pneumatic stopper

It is fixed to a table or a frame to ensure accuracy with the other peripheral elements.

A positioning kit is required for accurate operations.

Shocks are reduced between the workpiece carrier and the stopper thanks to the adjustable damped function. Pneumatic control of the stopper, spring return.



Positioning unit for station 24 V, automatic stopper



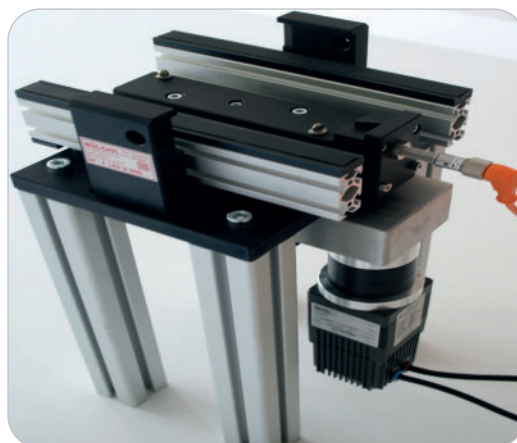
It is fixed to a table or a frame to ensure accuracy with the other peripheral elements.

A positioning kit is required for accurate operations.

The stopper of workpiece carriers is positioned by the vertical movement (no stopper control needed).

A Brushless gear motor ensures the control of the stopper and the positioning unit.

Irreversible system.



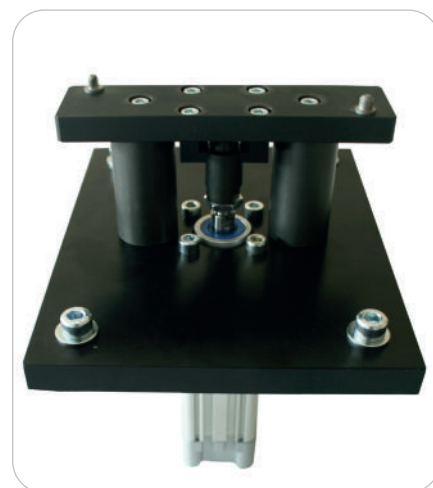
Positioning units lift

Stop and positioning of workpiece carriers at an significant height above the conveyor.

The workpiece carrier is stopped, then elevated to a specific height, while being held by two centering pieces.

An upstream stopper is required.

2 possibilities: simple effect stopper and double effect stopper.



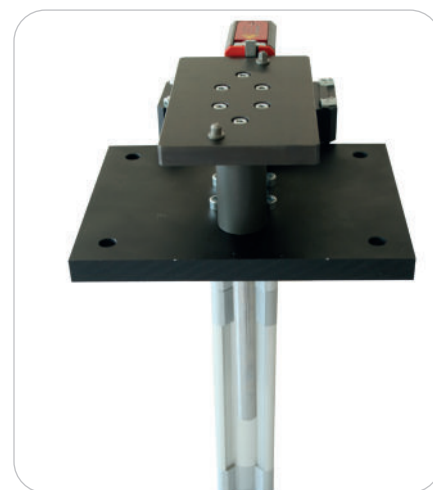
Positioning unit lift, damped pneumatic stopper

Stops and positions workpiece carriers at a significant height above the conveyor.

The workpiece carrier is stopped, centered by 2 specific parts and then lifted.

Shocks are reduced between the workpiece carrier and the stopper thanks to the adjustable damped function. An upstream stopper is required due to the lifting of the workpiece carrier (not supplied). Pneumatic control of the stopper, spring return.

The dead man's option is used to lock the lift positioning unit in case of air cut-off and therefore avoids the lowering of the load.



Positioning units Width 150

Technical data

Complete set including:

- ✗ Stopper
- ✗ Positioning unit
- ✗ 1 double effect cylinder ø 32, detectable positions
- ✗ Holes for shielded mounting sensor M12x100
- ✗ Detection range: 4 mm

Maximum vertical strain: 40 daN for a pressure of 6 bars

Repeatability: +/- 0,03 mm

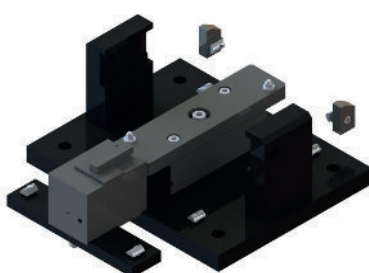
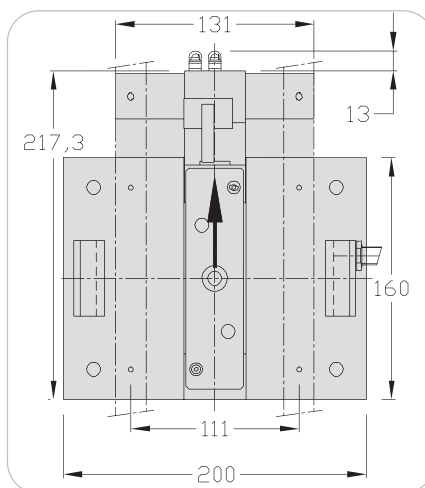
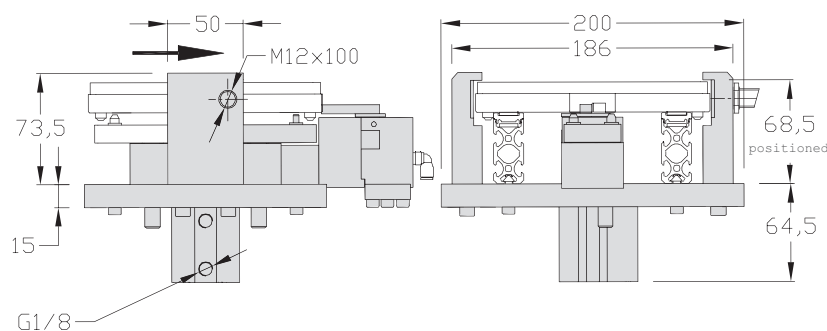
2 possibilities:

Stiopper simple effect or stopper double effect



2 flow rate controllers G 1/8 for positioning unit cylinder and controllers for the stopper should be adapted.

Weight: 3,4 kg



Designation / Dimensions	Order unit	Reference
Positioning unit 150 simple effect	1 pce	150.24.000
Positioning unit 150 double effect	1 pce	150.25.000

Positioning unit damped pneumatic stopper Width 150

Technical data

Complete set including:

- ✗ Stopper
- ✗ Positioning unit
- ✗ 1 double effect cylinder ø 32, detectable positions
- ✗ Holes for shielding mounting sensors M12x100
- ✗ Detection range: 4 mm

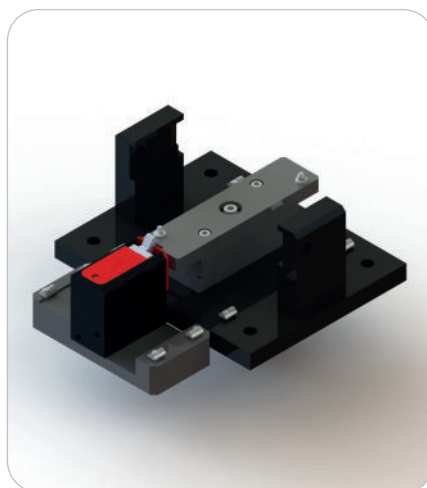
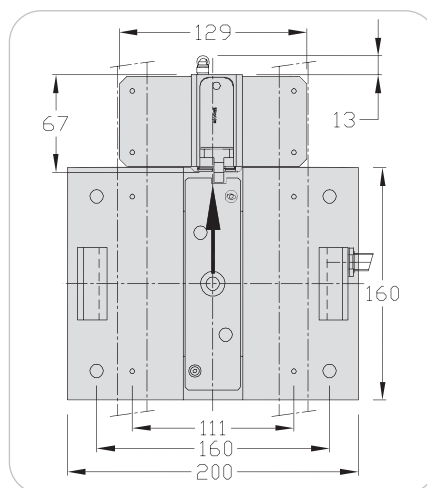
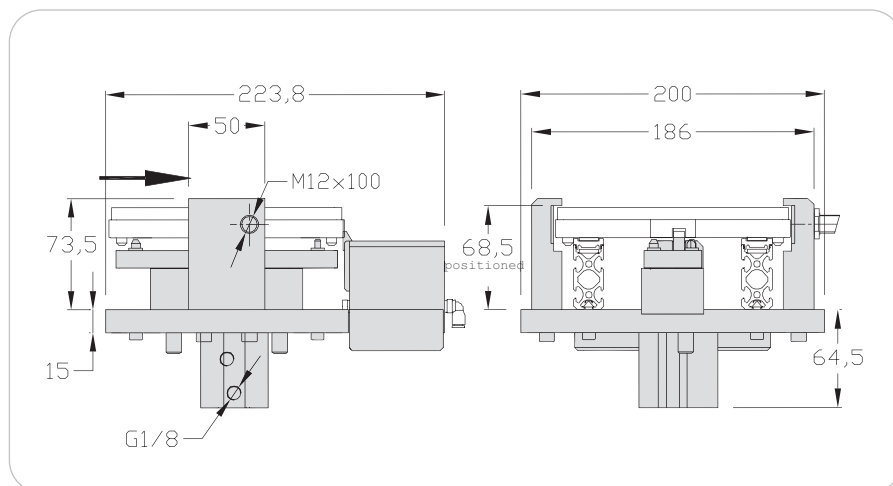
Maximum vertical strain: 40 daN to 6 bars

Repeatability: +/- 0,03 mm



2 flow rate controllers G 1/8 for the cylinder of the positioning unit + 1 connection M5 for the stopper are required.

Weight: 3,6 kg



Designation / Dimensions	Order unit	Reference
Positioning unit 150 damped pneumatic stopper	1 pce	150.24.000.RAP

Positioning units for station Width 150

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 feet in profile 40x40
- ✗ Fastening elements

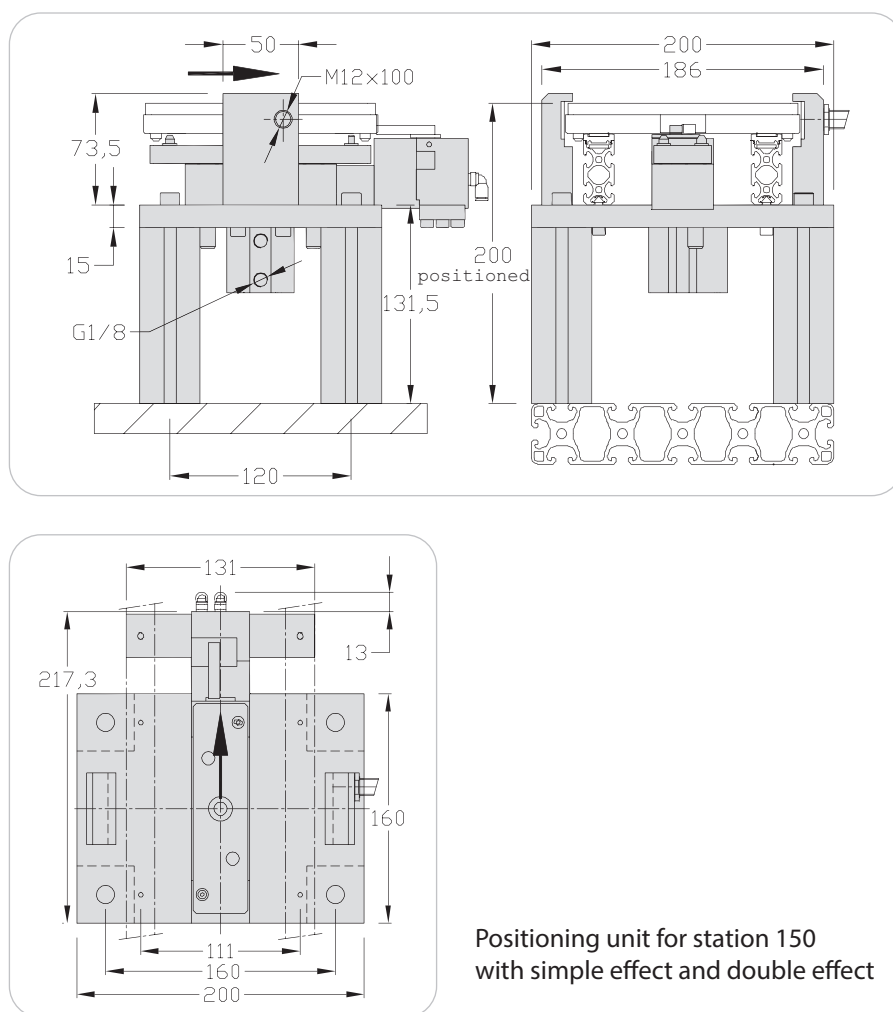
Maximum vertical strain: 40 daN for a pressure of 6 bars

Repeatability: +/- 0,03 mm



2 flow rate controllers M5 and G 1/8 for positioning unit cylinder and controllers for the stopper should be adapted.

Weight: 4,3 kg



Positioning unit for station 150 with simple effect and double effect

Designation / Dimensions	Order unit	Reference
Positioning unit for station 150 simple effect	1 pce	150.26.000
Positioning unit for station 150 double effect	1 pce	150.27.000

Positioning unit for station, damped pneumatic stopper Width 150

Technical data

Complete set including:

- ✗ Stopper
- ✗ 1 double effect cylinder ø 32, detectable positions
- ✗ Holes for shielding mounting sensors M12x100
- ✗ Detection range: 4 mm
- ✗ 4 profile stands 8 40x40
- ✗ Fastening parts

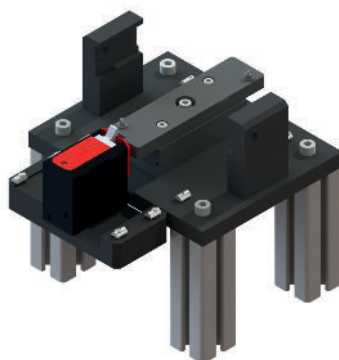
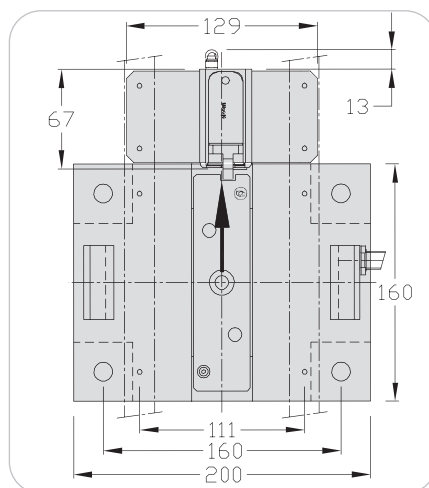
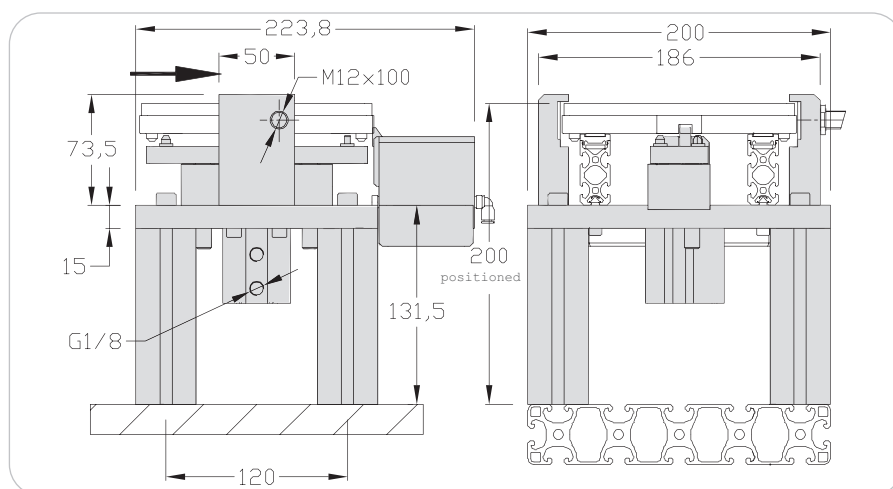
Maximum vertical strain: 40 daN to 6 bars

Repeatability: +/- 0,03 mm



2 flow rate controllers G1/8 for the cylinder of the positioning unit + flow rate controllers for the stopper are required.

Weight: 4,6 kg



Designation / Dimensions	Order unit	Reference
Positioning unit for station 150 damped pneumatic stopper	1 pce	150.26.000.RAP

Positioning unit for station 24 V, automatic stopper Width 150

Technical data

Complete set including:

- ✗ 1 gear motor 24 V
- ✗ Vertical movement provided by an irreversible screw-nut system
- ✗ Vertical position controlled by encoder
- ✗ Housing for shielded mounting sensors M12X100
- ✗ Detection range: 4 mm
- ✗ 4 profile stands 8 40x40
- ✗ Fastening parts

Maximum vertical strain: 100 daN

Repeatability: +/- 0,03 mm

Tension d'alimentation motor :
24 VDC

Courant d'alimentation motor : 4 A

Control voltage: 24 VDC

Control current: 10 mA

5 positioning input status

4 output status

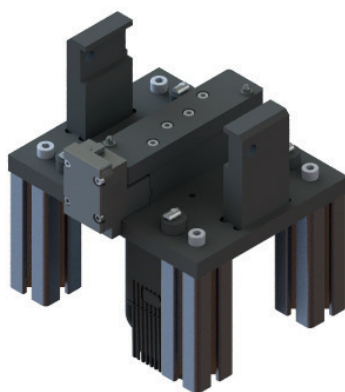
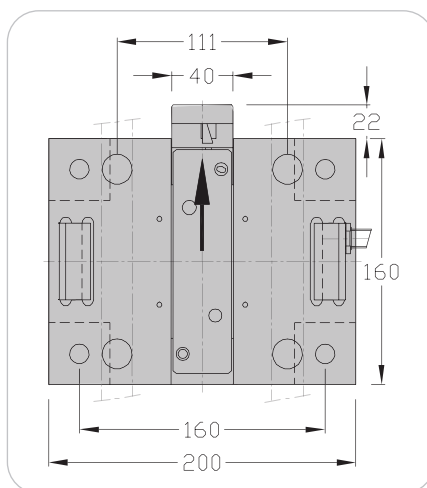
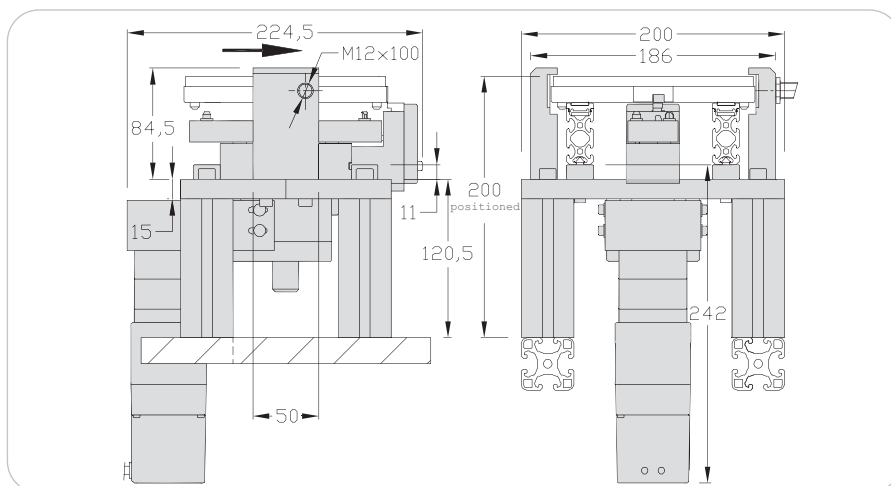
The stopper of workpiece carriers is positioned by the vertical movement (no stopper control needed).

A Brushless gear motor ensures the control of the stopper and the positioning unit.

Irreversible system.

Electrical connection: see detailed specification sheet included with the material.

Weight: 7,5 kg



elcom ITS 24 V

Designation / Dimensions	Order unit	Reference
Positioning unit for station 24 V 150 automatic stopper	1 pce	150.10.000.E

Positioning units lift Width 150

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 support for shielded mounting sensor M12x100
- ✗ Detection range: 4 mm

Available cylinder strokes:

25 - 50 - 100 - 160 - 200 mm

Maximum vertical strain: 40 daN

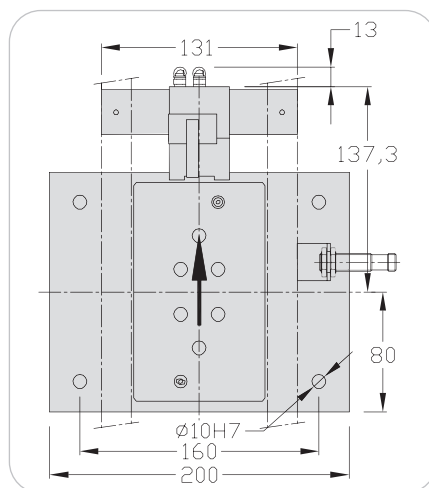
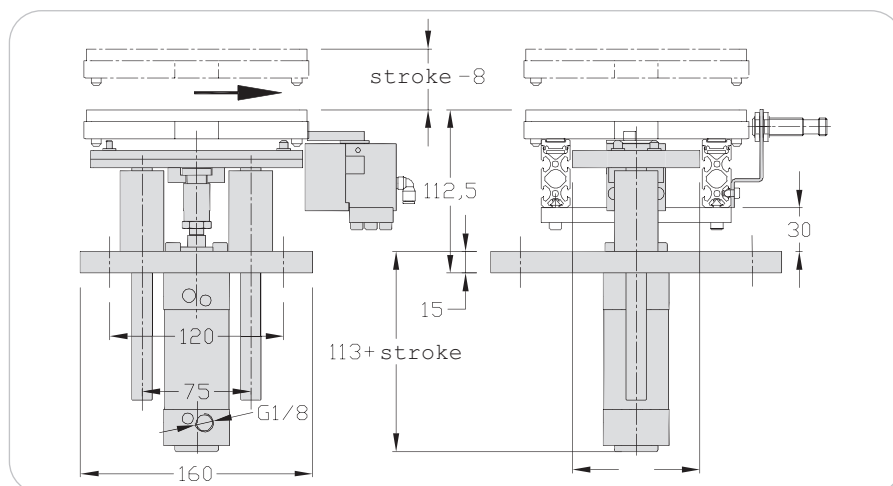
Repeatability: +/- 0,06 mm



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



2 flow rate controllers G 1/8 for positioning unit cylinder and controllers M5 for the stopper should be adapted.



Weight: 4,6 kg

Designation / Dimensions	Order unit	Reference
Positioning unit lift 150 simple effect	1 pce	150.12.000
Positioning unit lift 150 double effect	1 pce	150.31.000

Positioning unit lift, damped pneumatic stopper Width 150

Technical data

Complete set including:

- ✗ Stopper
- ✗ 1 double effect cylinder ø 32
- ✗ 1 ball bearing guide bush ø 14
- ✗ 1 bracket for shielded mounting sensor M12x10
- ✗ Detection range: 4 mm

Available cylinder strokes:
25 - 50 - 100 - 160 - 200 mm

Maximum vertical strain: 40 daN

Repeatability: +/- 0,06 mm

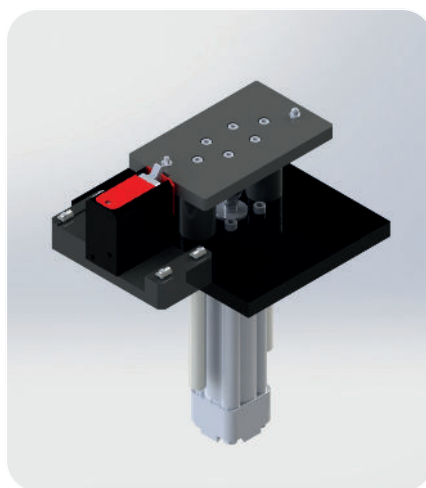
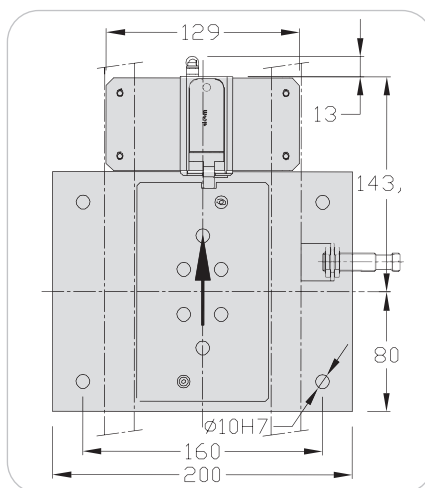
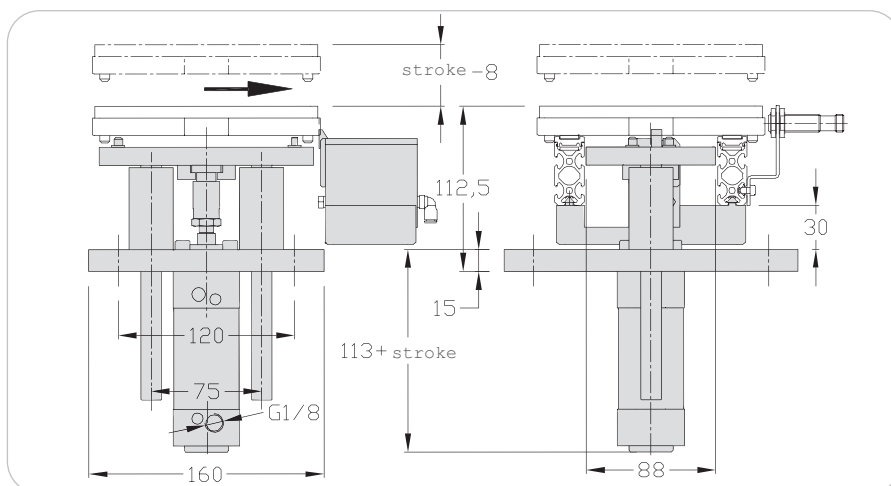


An upstream stopper is required to prevent the inlet of a workpiece carrier during the lifting.



2 flow rate controllers G 1/8 for the cylinder of the positioning unit + 1 connection M5 for the stopper are required.

Weight: 5 kg



Designation / Dimensions	Order unit	Reference
Positioning unit lift 150 damped pneumatic stopper	1 pce	150.12.000.RAP

Dead man option, Positioning unit lift Width 150

Applications

This option is available for all lift positioning units width 150 (references 150.12.000 - 150.12.000.RAP - 150.31.000).

Locking by springs.

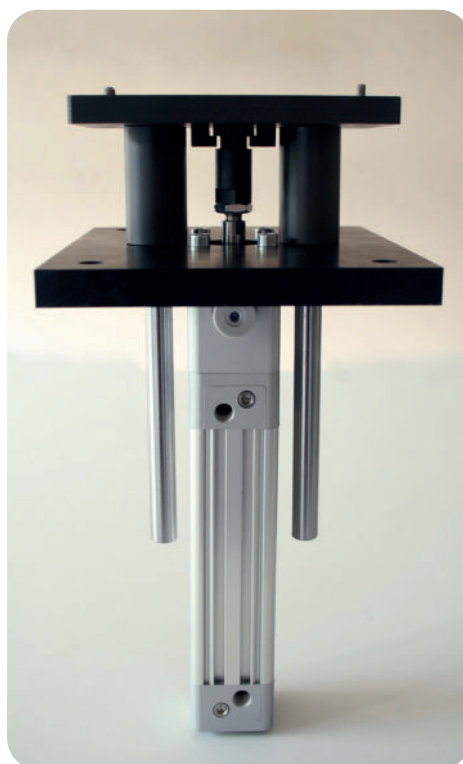
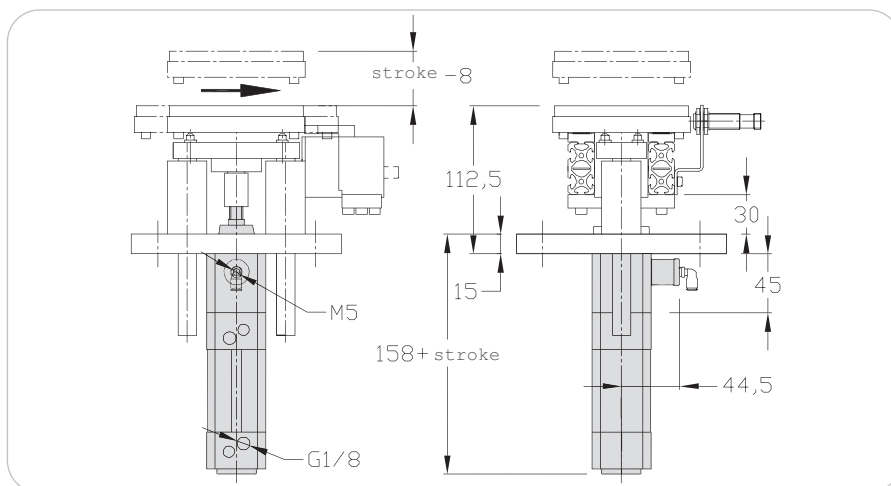
Retaining force: 600 N

Useful pressure range: 6 bars.



2 flow rate controllers G1/8 + 1 connection M5 are required.

Weight: 1,25 kg (stroke 200).



Designation / Dimensions	Order unit	Reference
Dead man option, Positioning unit lift 150	1 pce	110.75.000

Sensor bracket M12x100

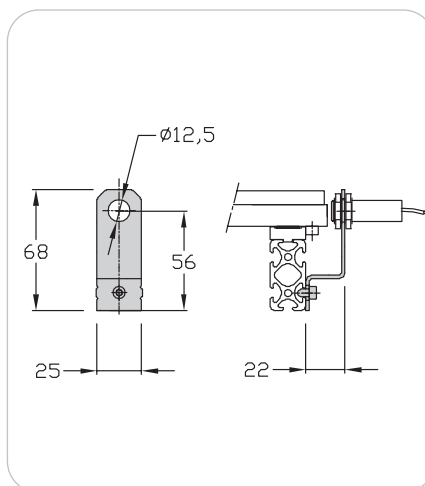
Applications

Bracket for workpiece carrier M12x100 sensor.

Technical data

- ✗ Stainless steel 2 mm
- ✗ Nut 5 St M4 + screws
- ✗ Detection range: 4 mm

Weight: 0,035 kg



Designation / Dimensions	Order unit	Reference
Sensor bracket 150	1 pce	110.17.000

Anti bouncing back

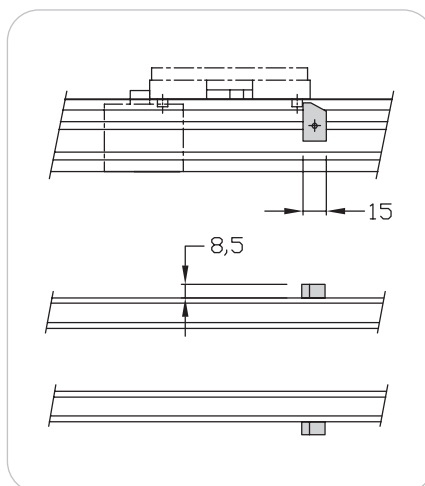
Applications

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 units..

Technical data

- ✗ Parts, PA black
- ✗ Fastening parts

Weight: 0,1 kg



Designation / Dimensions	Order unit	Reference
Anti bouncing back	1 kit	110.30.000

Cams short - Width 150

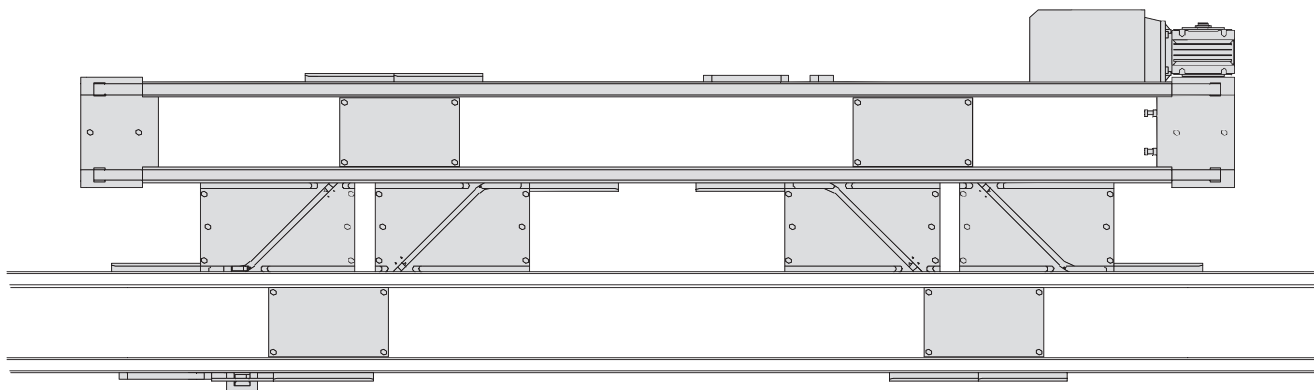
Applications

Short cams SD-EG SG-ED - Double cams

The short cams and the double cams allow deviation of workpiece carriers from a main line to a secondary line without additional motorization. Economical, compact and very easily managed, they are ideal to set up work stations in derivation.



Do not accumulate the workpiece carriers in the cams.



Short cam 150

The double cams allow deviation of workpieces carriers from a main line to a secondary line without additional motorization.

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

Cam double 24 V - Width 150

Two Brushless gear motors controlled by a control box ensure the rotation of the selector.

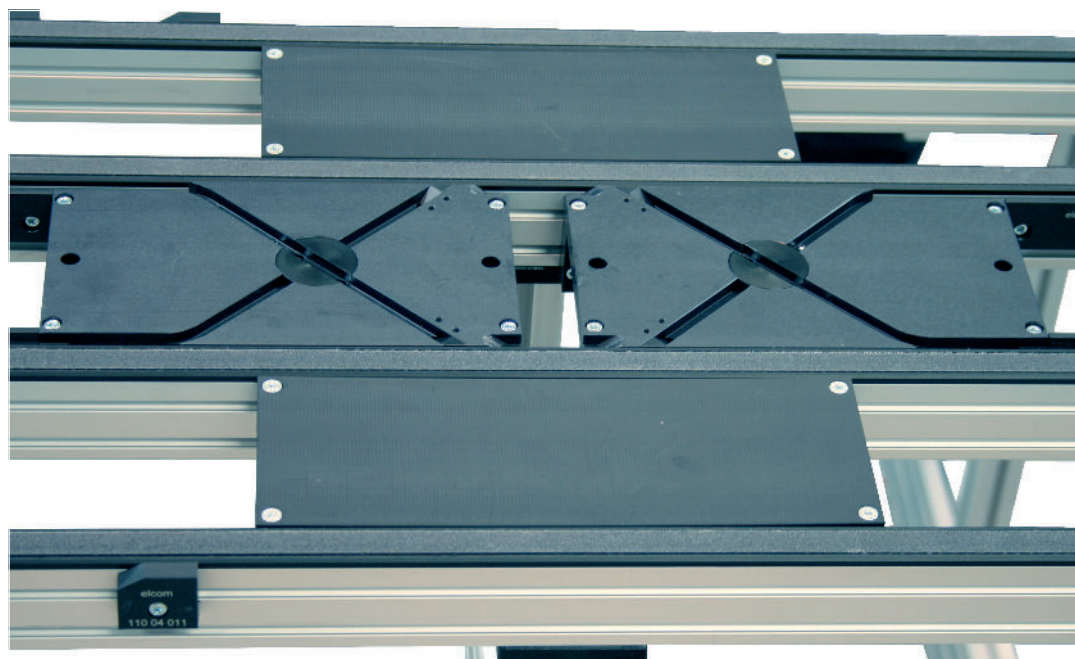
A single output for logic controller is necessary.

Combined with a derivation kit, control and supply can be used on the box of the derivation kit.

Control module 24 V output: automation, bus module, splitter...

Standard connectors M12.

An extension for connection M8 male/female 3 pins between the motor and the control box is required.



Double cam 150



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Cams short SD-EG/SG-ED Width 150

Technical data

Complete set including:

- ✗ Cams and guides, PA black
- ✗ Fastening parts
- ✗ Screw and nuts 5 St M4

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

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

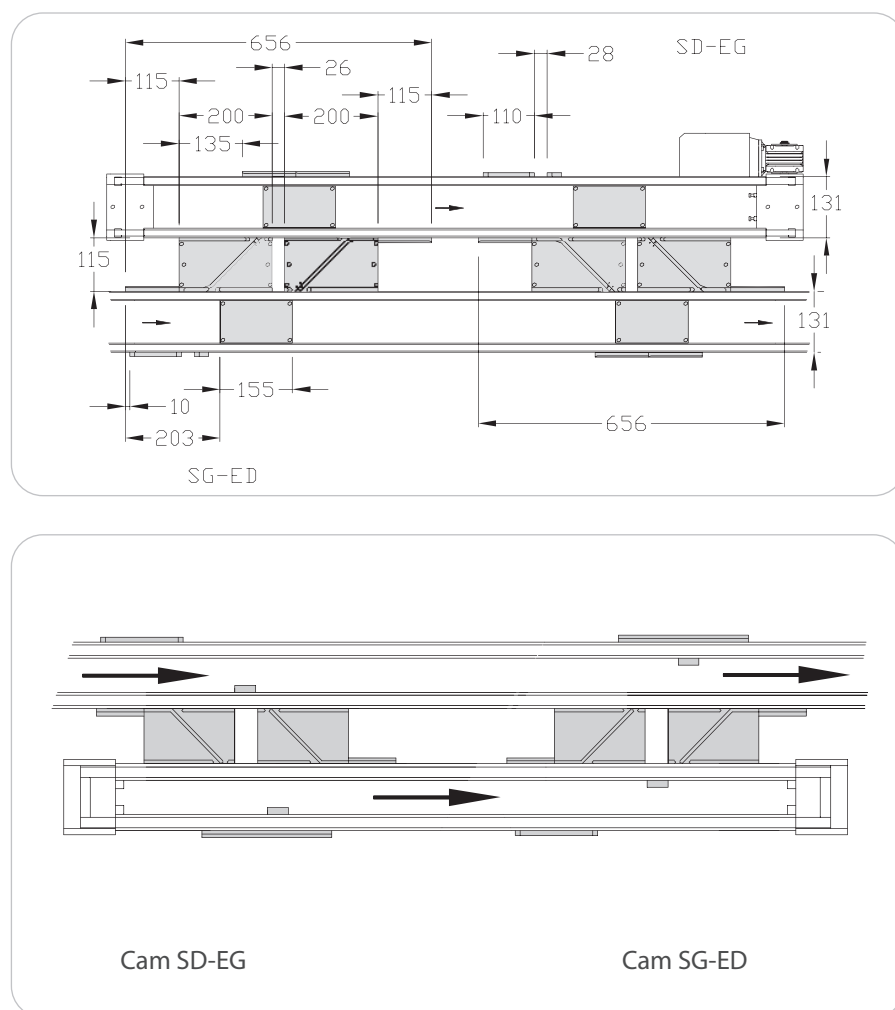


Maximum load: 2 daN



Do not accumulate the workpiece carriers in the cams.

Weight: 1,14 kg



Designation / Dimensions	Order unit	Reference
Cam short 150 SD-EG	1 kit	150.46.000
Cam short 150 SG-ED	1 kit	150.17.000

Cam double Width 150

Technical data

Complete set including:

- ✗ Cam, selectors, ramps and guides, PA black
- ✗ 2 rotative cylinders, (M5)
- ✗ Fastening parts
- ✗ Screw and nuts 5 St M4

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

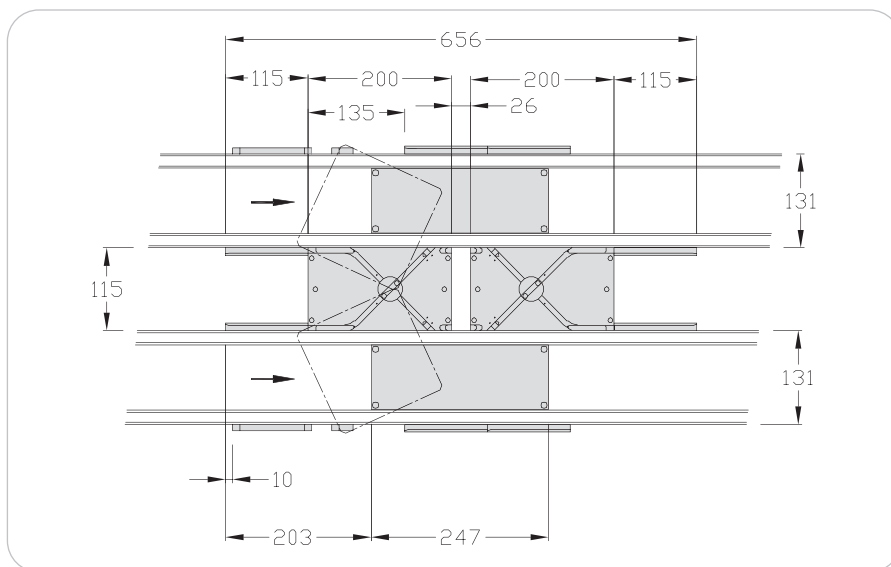


Maximum load: 2 daN



Do not accumulate the workpiece carriers in the cams.

Weight: 1,72 kg



Designation / Dimensions	Order unit	Reference
Cam double 150	1 kit	150.21.000

Cam double 24 V Width 150

Technical data

Complete set including:

- ✗ Cam, selectors, ramps and guides, PA black
- ✗ 2 Brushless gear motors
- ✗ Interface : standard 3-pins M8 connector
- ✗ Fastening parts
- ✗ Screws and nuts 5 St M4

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

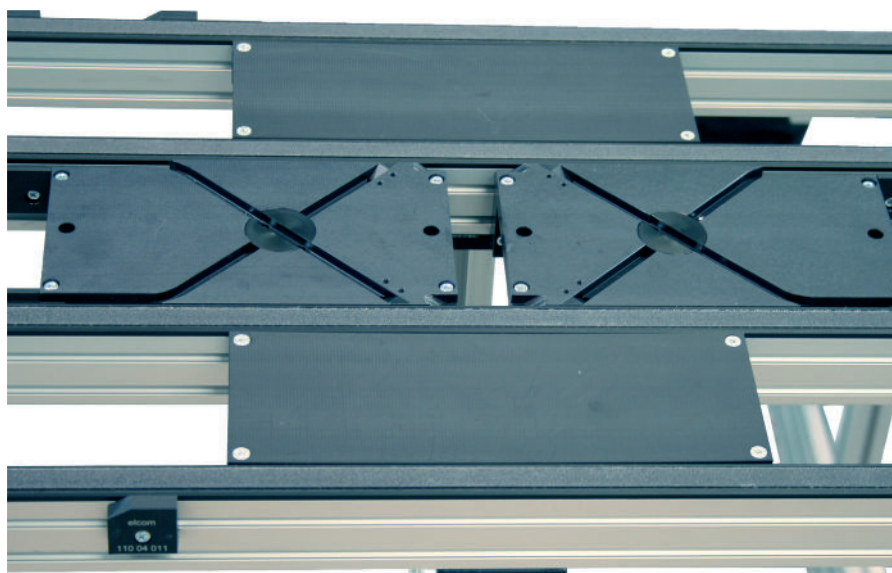
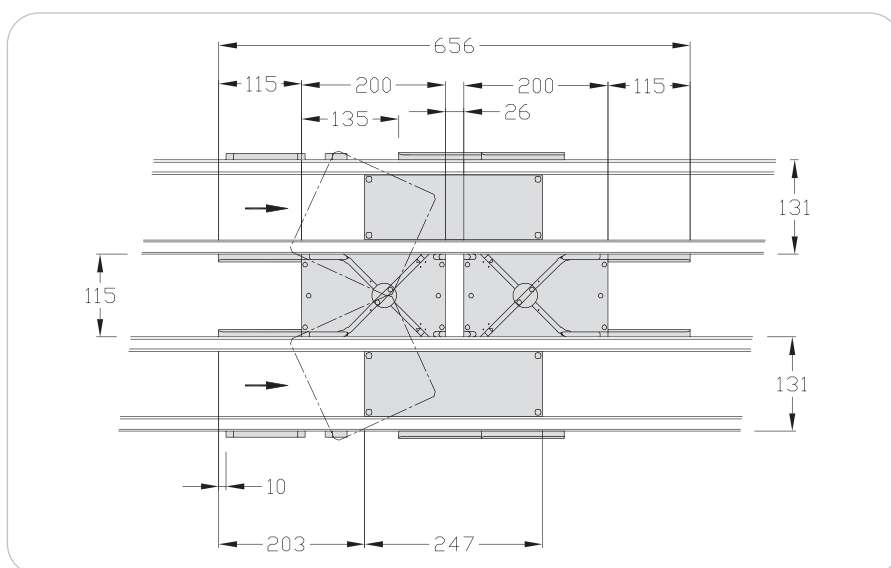
Supply voltage of the control box:

24 VDC +/- 15%

Power supply: 1,6 A maxi

Control voltage: 24 VDC +/- 10 %

Control current: 5 mA maxi



Load mini/workpiece carrier:
2 daN



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

Electrical connection: see detailed specification sheet included with the material.

Weight: 1,95 kg



elcom ITS 24 V

Designation / Dimensions	Order unit	Reference
Cam double 24 V 150	1 pce	150.21.000.E

Positioning kit

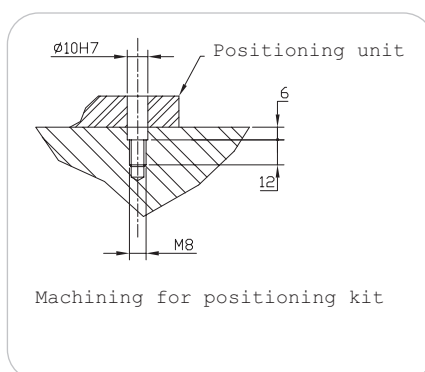
Applications

Allows accurate positioning unit on station.

Technical data

- ✗ 2 axis screws M8
- ✗ 2 hexagonal socket head cap screws M8

Weight: 0,08 kg



Designation / Dimensions	Order unit	Reference
Positioning kit	1 kit	120.62.000

Inductive sensor M12x100

Applications

Detection for the workpiece carrier.

Technical data

- ✗ Shielded mounting sensor M12x100
- ✗ LED control display
- ✗ PNP-10-30 VDC
- ✗ Screwed connection
- ✗ Cable 5 m



Designation / Dimensions	Order unit	Reference
Inductive sensor M 12x 100	1 kit	200.10.200

Inductive sensor

Applications

Detection the position of cylinders, stoppers or positioning units.

Technical data

- ✗ 12-27 V-LED control display

Designation / Dimensions	Order unit	Reference
Cylinder sensor, positioning unit	1 kit	200.10.201
Cylinder sensor, lift positioning unit	1 kit	200.10.202