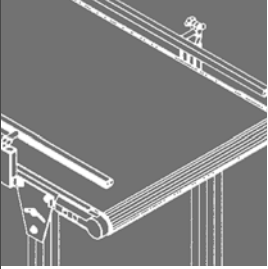
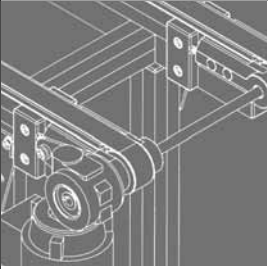
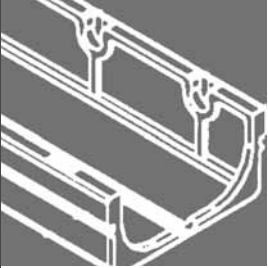
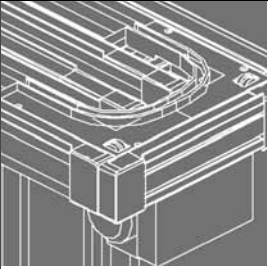


CONVEYORS

Part. N 95.0254/0

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ABOUT US



The Company

MiniTec was founded on the sales of miniature linear guides. Now we also design complete machines and devices, but we kept the name MiniTec.

In addition to our factories in Germany, France, UK and the US, we have customer service partners in more than 25 countries. They are in prime locations to provide consultation, on time delivery and on-site assembly.

The Production Program

Our linear technique combined with the Profile System is the ideal partnership. The components work together to provide optimum performance. The modular assembly system makes it possible to manufacture to unique specifications and can be produced quickly and cost effectively.



The Quality

Linear technique requires rigorous precision. Therefore we work with up-to-date machines and use the newest technologies. As quality is very important at MiniTec, we set the same high standards for all of our products, design and administrative procedures. MiniTec is certified in DIN EN ISO 9001 and 14001.

The Environment

Our company mission stresses an active role in environmental protection and the conservation of our natural resources. As an example, we choose our service locations in close proximity to our customers to avoid long transits. Our environmental management system is certified in DIN EN ISO 9001 and 14001.



The Occupational Health and Safety

Since 2006 is our company certified with the OHSAS 18001 – Occupational Health and Safety Assessment Series.



The Innovation

For MiniTec, innovation doesn't just mean better products. We strive to continually improve our processes as well. Constant training of our staff and a solid working relationship with Research and Education Institutions create the foundation for ongoing innovation.

MiniTec CAD Support

Our CAD tools are the logical supplement to the hardware of our construction system. All planning and assembly requirements are comprehensively considered. The combination of components and software opens up the full potential for efficient, flexible, and modern machinery construction.

Time is a key factor in modern and economic machine construction. The time expended for a construction affects the costs to a great extent as well as the speed of implementation. It is not unusual that the expenditure for calculation, design, operation scheduling, and assembly to amount to more than half of the total costs. The ergonomic design of all the components of our system and the ease of assembly with our power-lock fastener without drilling results in a significant saving of time.

Planning and operations scheduling often offer an even greater potential for saving time. A fundamental step forward with regard to planning and avoidance of errors are our MiniTec CADmenu for AutoCAD and MiniTec iCAD design tools with more than 50 formats for all other CAD systems. The design time is reduced by more than 60% with these tools compared with conventional designing.

All components are contained in 2D and 3D in the electronic catalog. Defined insertion points facilitate positioning in the drawing. Any processing and the connectors that may be required are displayed for each of the components and can be added if desired. A parts-list is automatically created in which the overmeasurements for panel elements are correctly calculated. Identical parts are summarized in an order list. The weight of the individual items and the total weight is displayed. The parts list can be generated in German, English, or French. Interfaces to Word and Excel enable the data-transfer to planning systems and the creation of documentations or the further processing of the data.

MiniTec CADmenu for AutoCAD* 2004 | 2005 | 2006 | 2007

Part N° 95.0857/0



- Design tool using AutoCAD commands
- Automated design modules for
 - Linear axes
 - Safety equipment
 - Conveyor belts
 - Roller belts
 - Workplaces

° Installation routine for AutoCAD 2002 can be downloaded from our website www.minitec.de/cadsupport

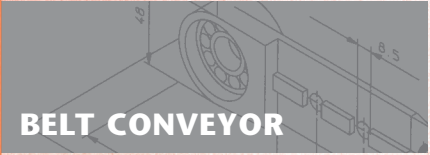
MiniTec iCAD 3.4 for all CAD Systems

Part N° 95.0863/0



- Autonomous design tool that can also be used without a CAD system
- Direct interfaces to all common CAD systems such as Mechanical Desktop, ProEngineer, Solid Works, Solid-Edge, MegaCAD, etc.
- More than 50 data output formats in 2D and 3D
- Automated design module for linear axes

*AutoCAD is a registered trademark of AUTODESK, Inc. - Word and Excel are registered trademarks of Microsoft



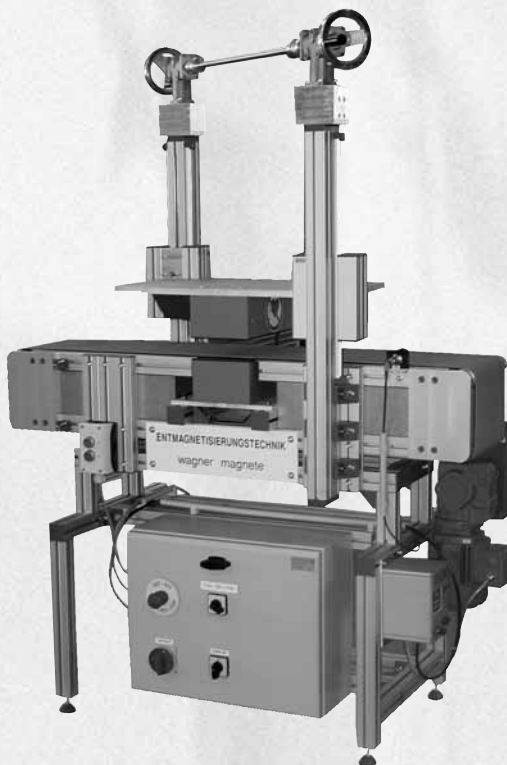
BELT CONVEYOR - EXAMPLES



Belt conveyor with
cylindermotor

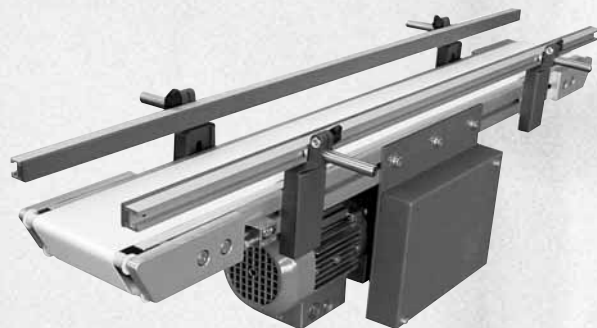


Belt conveyor angled



Special conveyor
with inbuilt demagnetizer

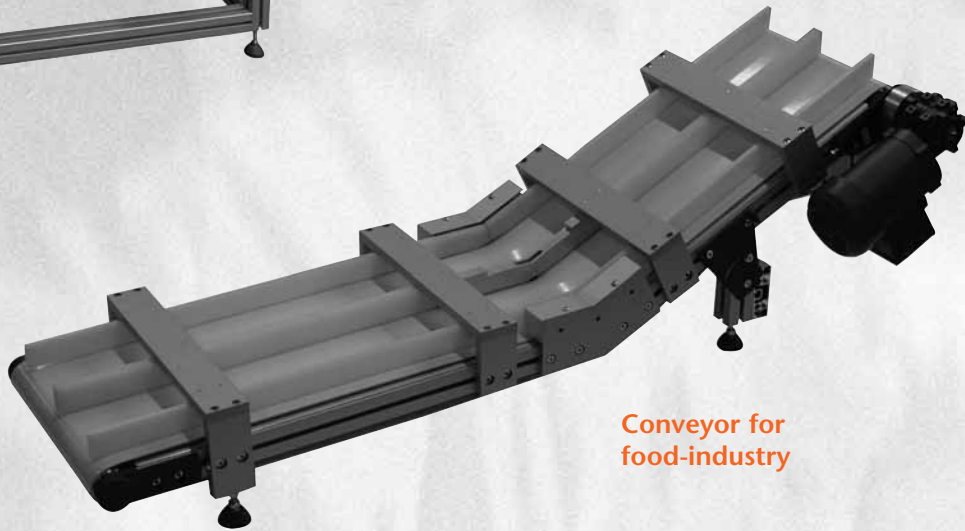
Conveyor
with nosebar



BELT CONVEYOR - EXAMPLES



Roller conveyor with pneumatic stoppers



Conveyor for food-industry

Belt conveyor with vacuum grip



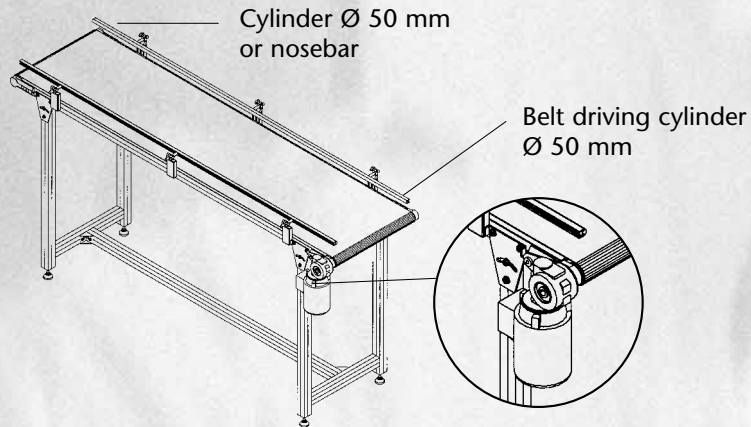
Special conveyor

BELT CONVEYOR - SERIES 45

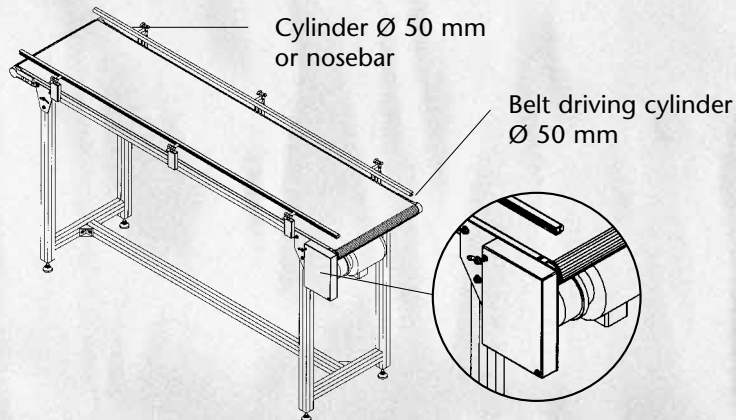
The belt conveyor module in our MiniTec CADmenu construction software designs your belt conveyor automatically according to your requirements. Furthermore it calculates the deflection, suggests the number of supports and generates the perspective part list - within a few minutes. Assembly can be carried out quickly and easily as a result of our proven components.

Motor arrangement

Plug-on motor



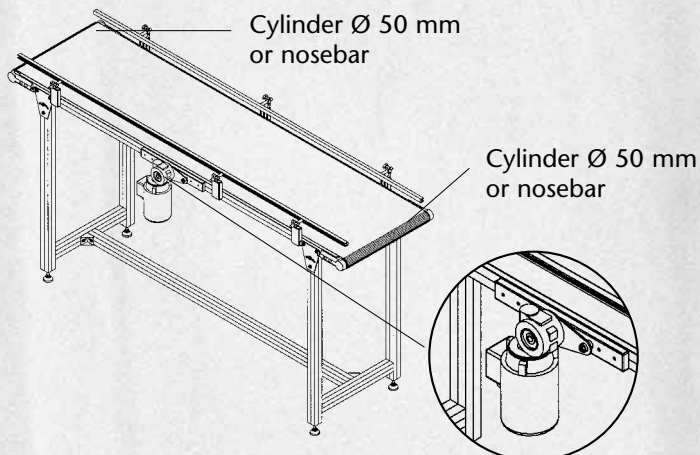
Covered flanged motor



Center drive

- Belt width max. 300 mm with nosebar

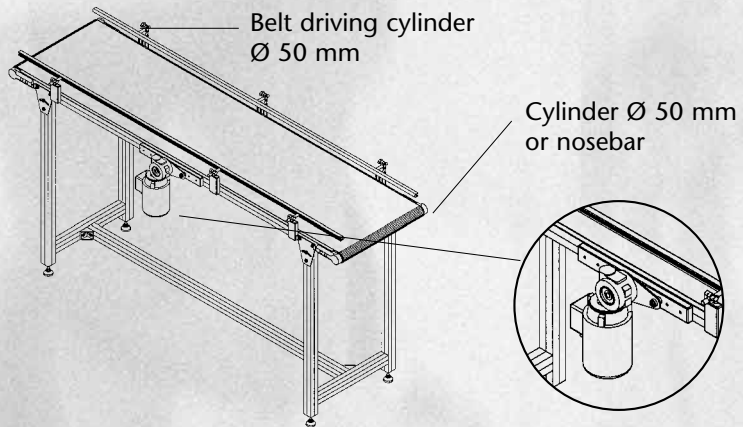
- Belt width max. 800 mm with cylinder Ø 50



BELT CONVEYOR - SERIES 45

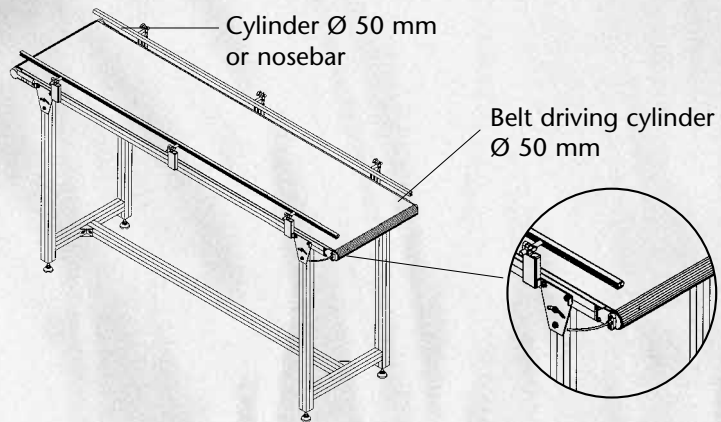
Center drive

Belt width max. 800 mm

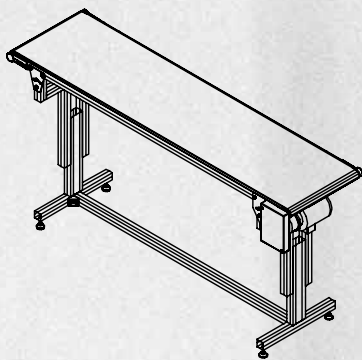


Cylinder drive

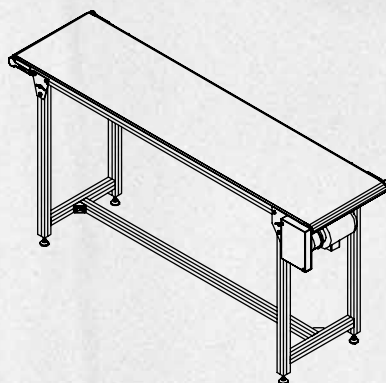
Belt width min. 260 mm
Belt width max. 500 mm
max.length 2000 mm
max. load 20 kg



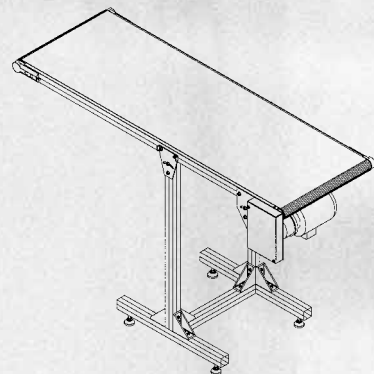
Subconstructions



Height-adjustable



Standard



one foot

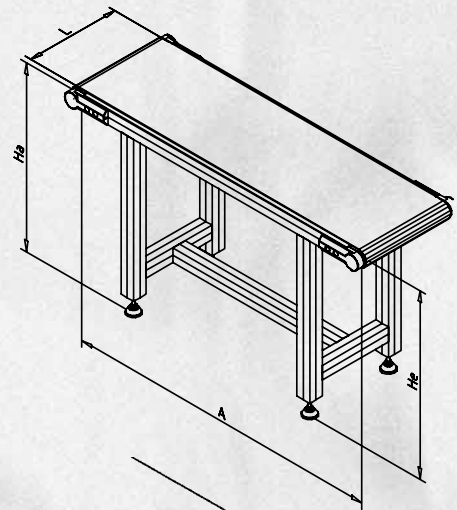
INQUIRY STANDARD BELT CONVEYOR 45

Standard dimension

Axial distance A mm

Belt width L mm

Lmax see page 4



Operating conditions

Goods to be conveyed

Weight/piece kg

Total belt load kg

Temperature °C

Subconstructions

Charging side height He mm

Discharging side height Ha mm

Number of supports Pcs.

Height adjustable sup. from mm to mm

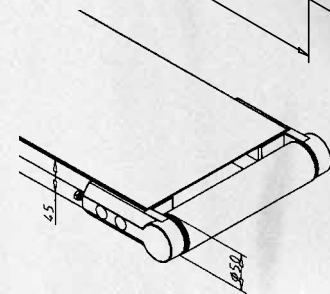
Lateral guide one side both sides short long

Angle bracket for floor fastening Part N° 21.1112/0

Floor anchor 12 Part N° 21.1115/0

Wheels Part N°

Feet Part N°



Options

Conveyor belt Part N°

Supporting sheet Aluminium Inox

Drive

Motor arrangement Plug-on motor Flanged motor

Cylinder motor Center drive

Speed m/min.

Adjustable speed from m/min. to m/min.

Company

Please call me back

Name

Please send me an offer

Phone no.

Fax no.

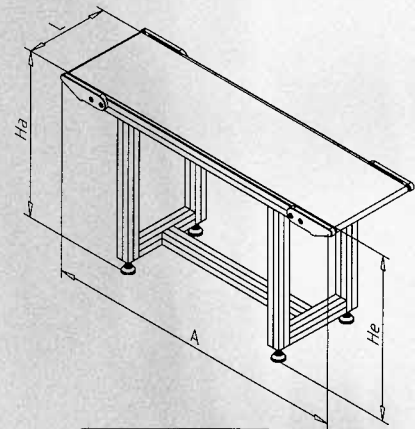
E-Mail

INQUIRY NOSEBAR CONVEYOR

Standard dimension

Axial distance A mm

Belt width L mm



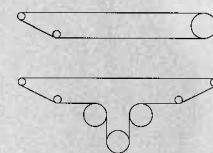
Type with nosebar

Goods to be conveyed

Weight/piece kg one side

Total belt load kg both sides

Temperature °C



Subconstructions

Charging side height He mm

Discharging side height Ha mm

Number of supports Pcs.

Height adjustable sup. from mm to mm

Lateral guide one side both sides short long

Angle bracket for floor fastening Part N° 21.1112/0

Floor anchor 12 Part N° 21.1115/0

Wheels Part N°

Feet Part N°

Options

Conveyor belt Part N°

Supporting sheet Aluminium Inox

Drive

Motor arrangement Plug-on motor

Flanged motor

Center drive (Directdrive)

nosebar (both sides)

Center drive
3 Wheels-System

Speed m/min.

Adjustable speed from m/min. to m/min.

Company

Please call me back

Name

Please send me an offer

Phone no.

Fax no.

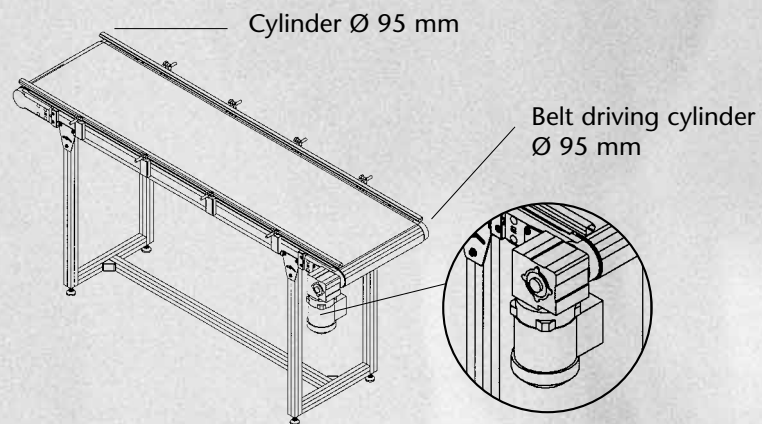
E-Mail

BELT CONVEYOR - SERIES 90

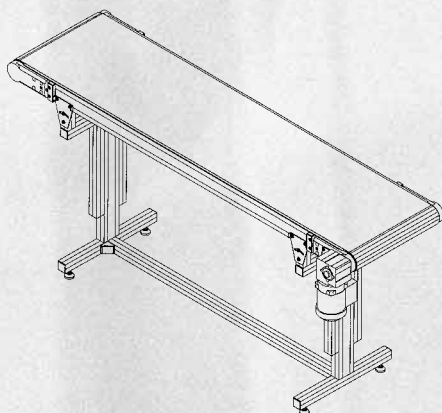
The belt conveyor module in our MiniTec CADmenu construction software designs your belt conveyor automatically according to your requirements. Furthermore it calculates the deflection, suggests the number of supports and generates the correct parts list - within a few minutes. Assembly can be carried out quickly and easily as a result of our proven components.

Motor arrangement

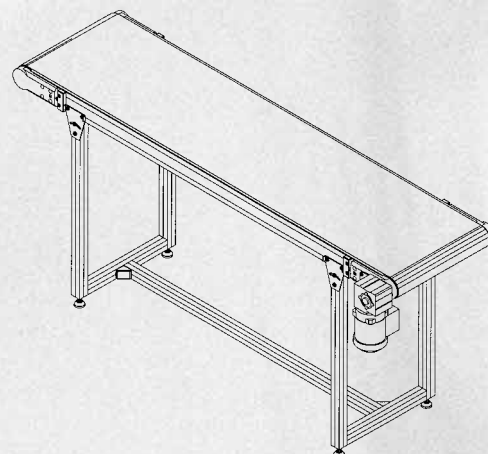
Plug-on motor



Subconstructions



Height-adjustable



Standard

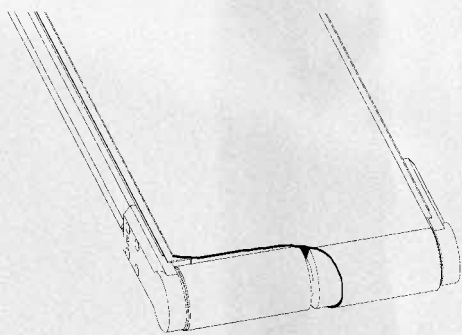
Conveyor belts - Standard

Belt PVC, black, smooth, antistatic	Part N° 29.5019/1
Belt PVC, green, grip, antistatic	Part N° 29.5019/2
Belt PVC, green, grip, adhesive, antistatic	Part N° 29.5019/3
Belt PVC, green, smooth, antistatic	Part N° 29.5019/4
Belt PU, blue, smooth	Part N° 29.5019/5
Belt PU, white, smooth, antistatic	Part N° 29.5019/6
Belt PVC, white, smooth, antistatic	Part N° 29.5019/7
Belt PU, green, smooth, antistatic	Part N° 29.5019/8
Belt fabric, white, antistatic	Part N° 29.5019/9

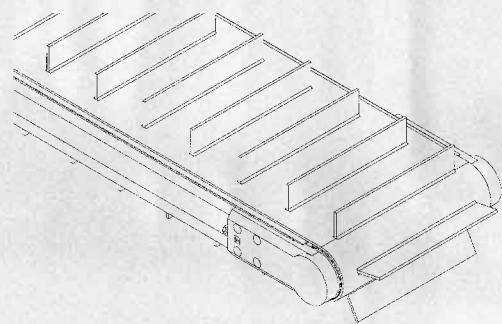
Conveyor belt - Special

Special belt on customers request	Part N° 29.5019/0
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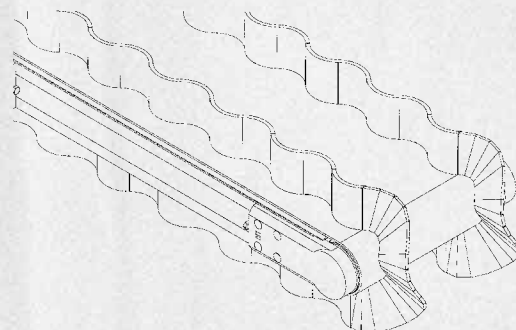
Example - Series 90



V-Ledge



Welded on cams



Corrugated edge

INQUIRY STANDARD BELT CONVEYOR 90

Standard dimension

Axial distance A mm
 Belt width L mm

Operating conditions

Goods to be conveyed
 Weight/piece kg
 Total belt load kg
 Temperature °C

Subconstructions

Charging side height He mm
 Discharging side height Ha mm
 Number of supports Pcs.
 Height adjustable sup. from mm to mm
 Lateral guide one side both sides short long
 Angle bracket for floor fastening Part N° 21.1112/0
 Floor anchor 12 Part N° 21.1115/0
 Wheels Part N°
 Feet Part N°

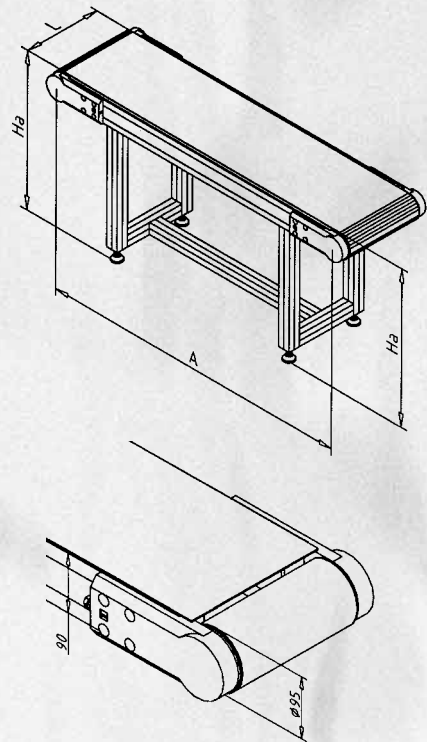
Options

Conveyor belt Part N°
 Supporting sheet Aluminium Inox

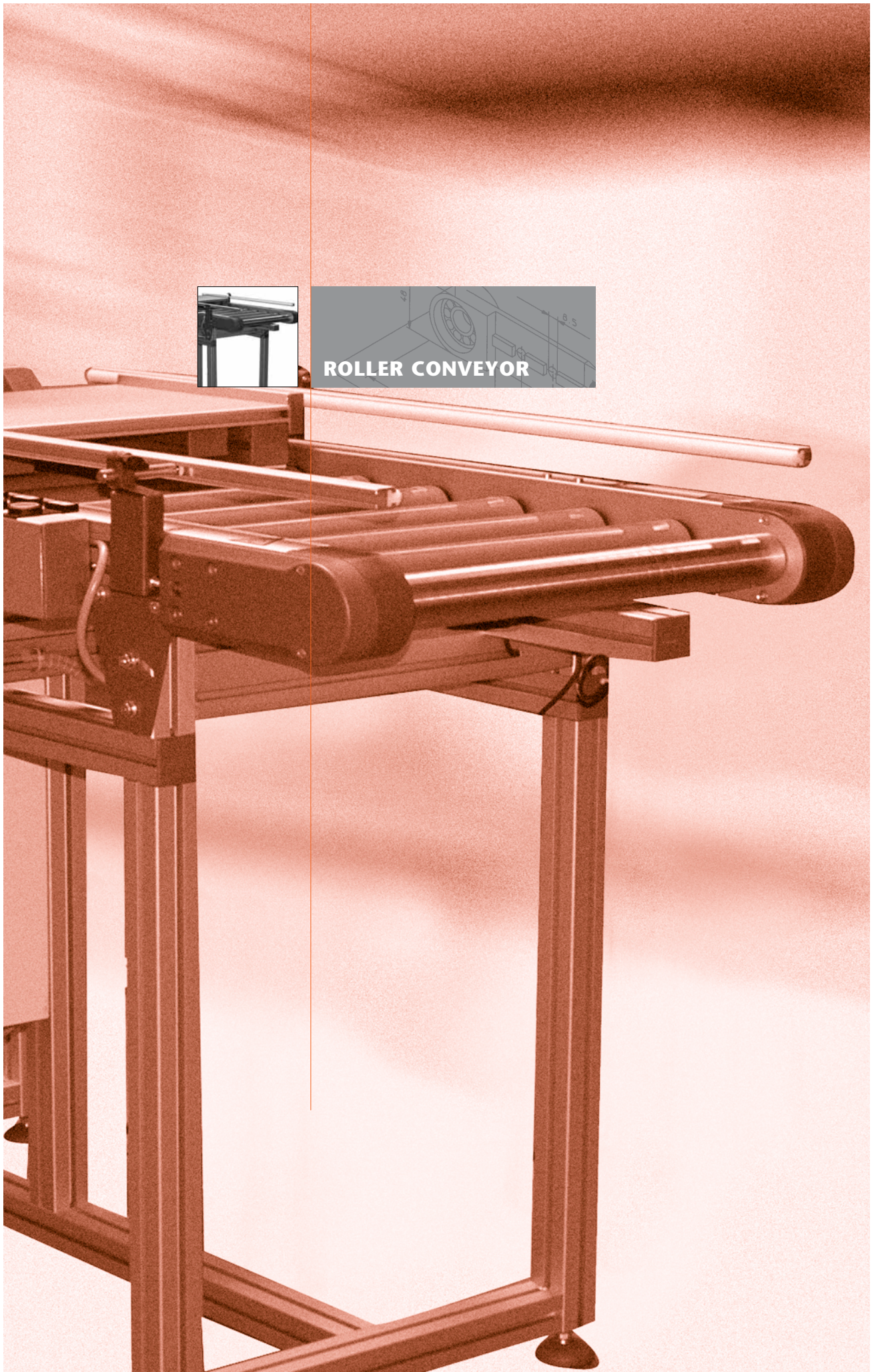
Drive

Motor arrangement Plug-on motor

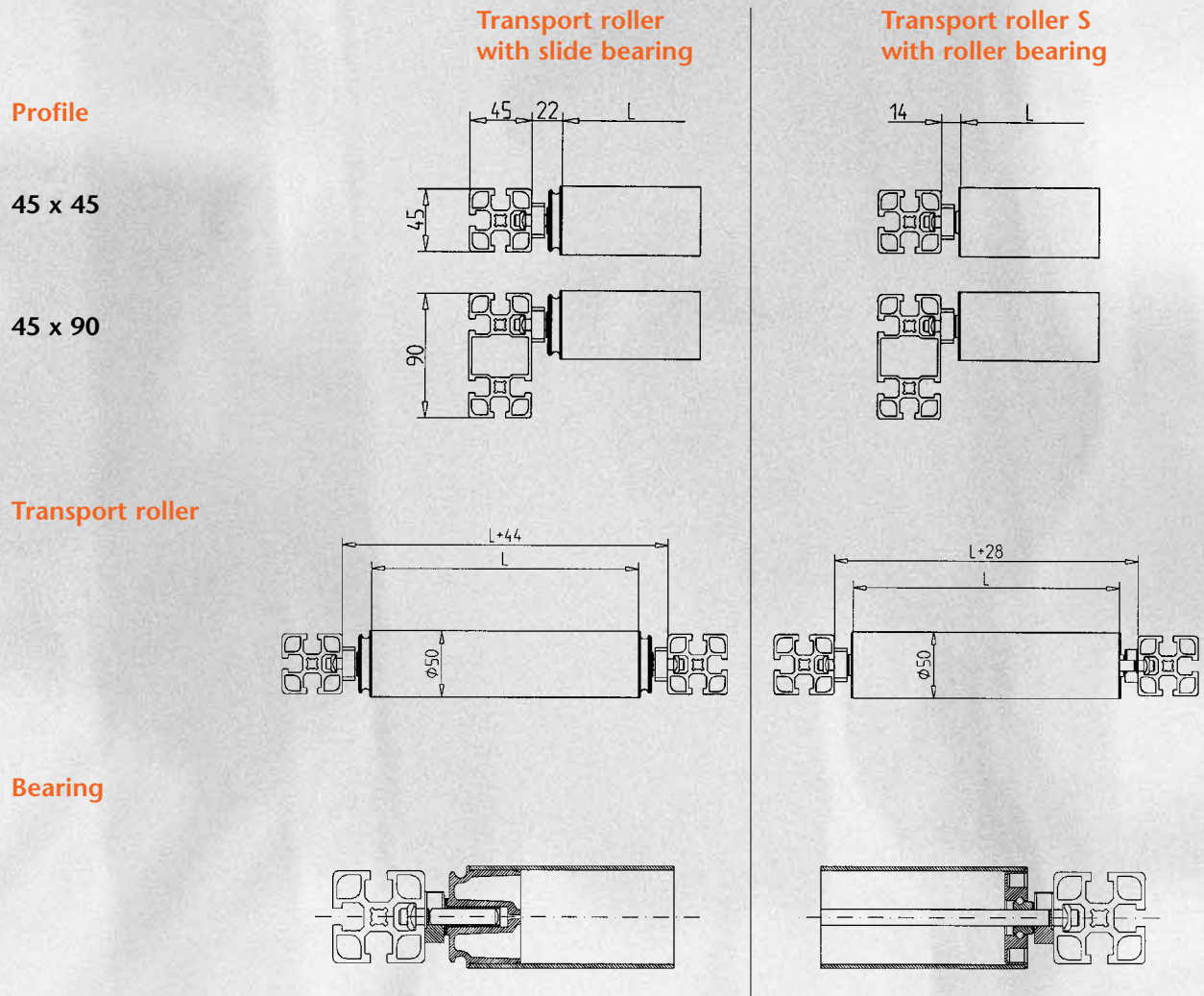
Speed m/min.
 Adjustable speed from m/min. to m/min.



Company Please call me back
 Name Please send me an offer
 Phone no.
 Fax no.
 E-Mail



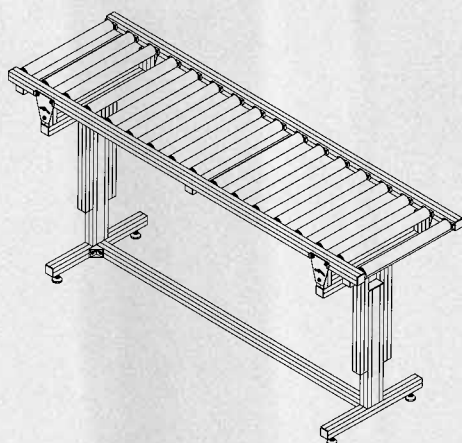
ROLLER CONVEYOR WITHOUT DRIVE



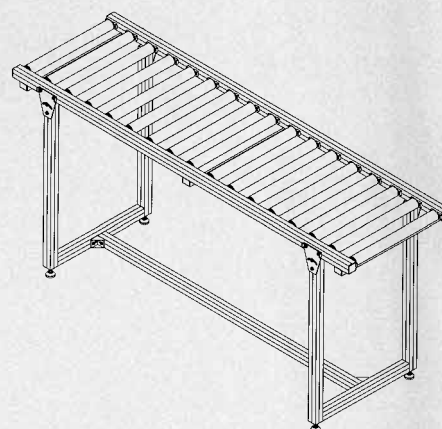
Tube length L

max. tube length L	PVC tube	600	mm
	AL tube	1000	mm
	Steel tube	1000	mm

Subconstructions



Height-adjustable



Standard

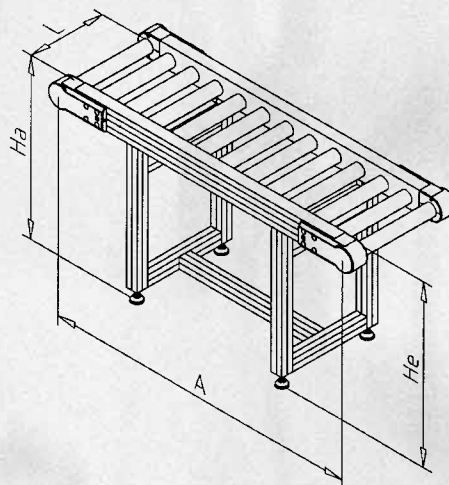
INQUIRY ROLLER CONVEYOR WITH DRIVE

Standard dimension

Axial distance A mm
 Roller distance mm
 Roller width L mm

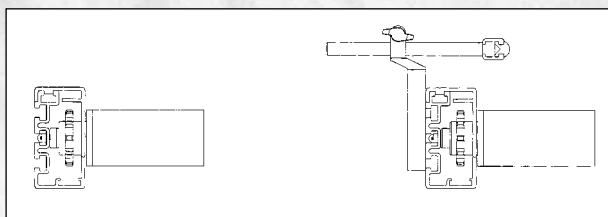
Operating conditions

Goods to be conveyed
 Weight/piece kg
 Total belt load kg
 Temperature °C



Subconstructions

Charging side height He mm
 Discharging side height Ha mm
 Distance A mm
 Number of supports Pcs.
 Height adjustable sup. from mm to mm
 Lateral guide one side both sides long
 Lateral guide



Angle bracket for floor fastening Part N° 21.1112/0
 Floor anchor 12 Part N° 21.1115/0
 Wheels Part N°
 Feet Part N°

Drive

Speed m/min.
 Adjustable speed from m/min. to m/min.

Options

Material of roller PVC AL Steel

Company
 Name
 Phone no.
 Fax no.
 E-Mail

Please call me back
 Please send me an offer

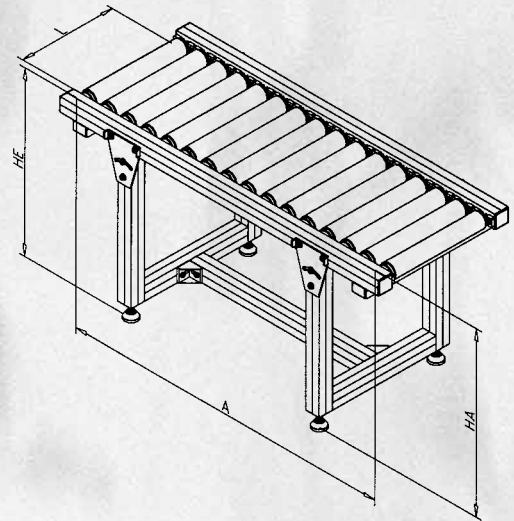
INQUIRY ROLLER CONVEYOR WITHOUT DRIVE

Standard dimension

- Axial distance A mm
 Roller distance mm
 Roller width L mm
 Profile 45 x 45 45 x 90

Operating conditions

- Goods to be conveyed
 Weight/piece kg
 Total belt load kg
 Temperature °C



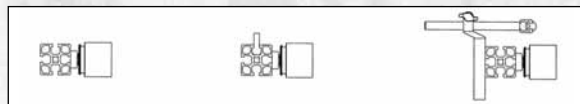
Subconstructions

- Charging side height He mm
 Discharging side height Ha mm
 Distance A mm
 Number of supports Pcs.

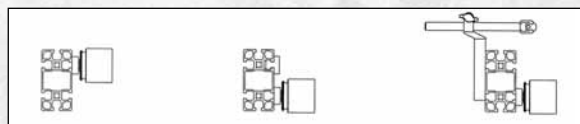
Height adjustable sup. from mm to mm

Lateral guide one side both sides

Lateral guide 45 x 45 without low variable



Lateral guide 45 x 90 without high variable



Angle bracket for floor fastening Part N° 21.1112/0

Floor anchor 12 Part N° 21.1115/0

Wheels Part N°

Feet Part N°

Options

Roller material PVC AL Steel

Bearings slide bearing roller bearing

Company	<input type="text"/>	<input type="checkbox"/> Please call me back
Name	<input type="text"/>	<input type="checkbox"/> Please send me an offer
Phone no.	<input type="text"/>	
Fax no.	<input type="text"/>	
E-Mail	<input type="text"/>	

ROLLER CONVEYOR WITH DRIVE

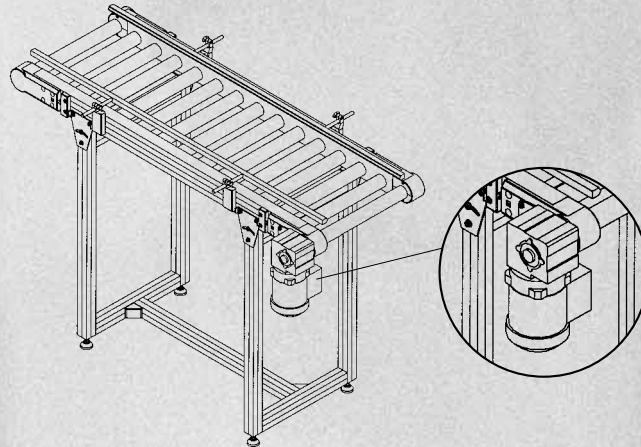
Motor arrangement

Plug-on motor

Max. load:

max. 40 kg/roller

max. 300kg/drive



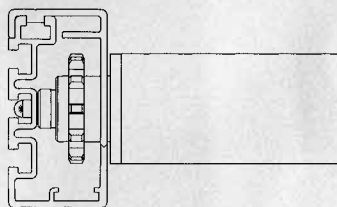
Tubelength L

max. tube length L	PVC tube	600	mm
	AL tube	1000	mm
	Steel tube	1000	mm

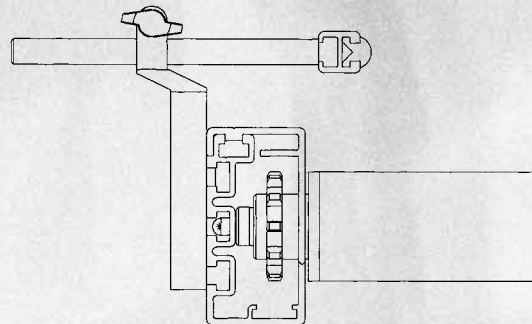
Available roller types

fixed drive
friction drive
friction drive adjustable

Lateral guide

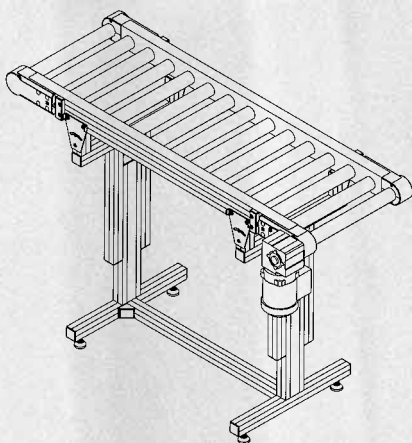


Without

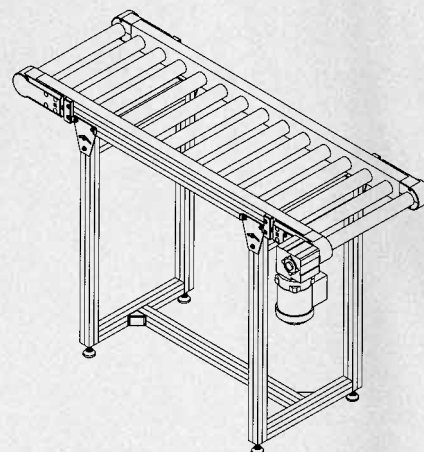


Variable

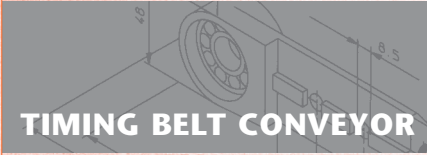
Subconstructions



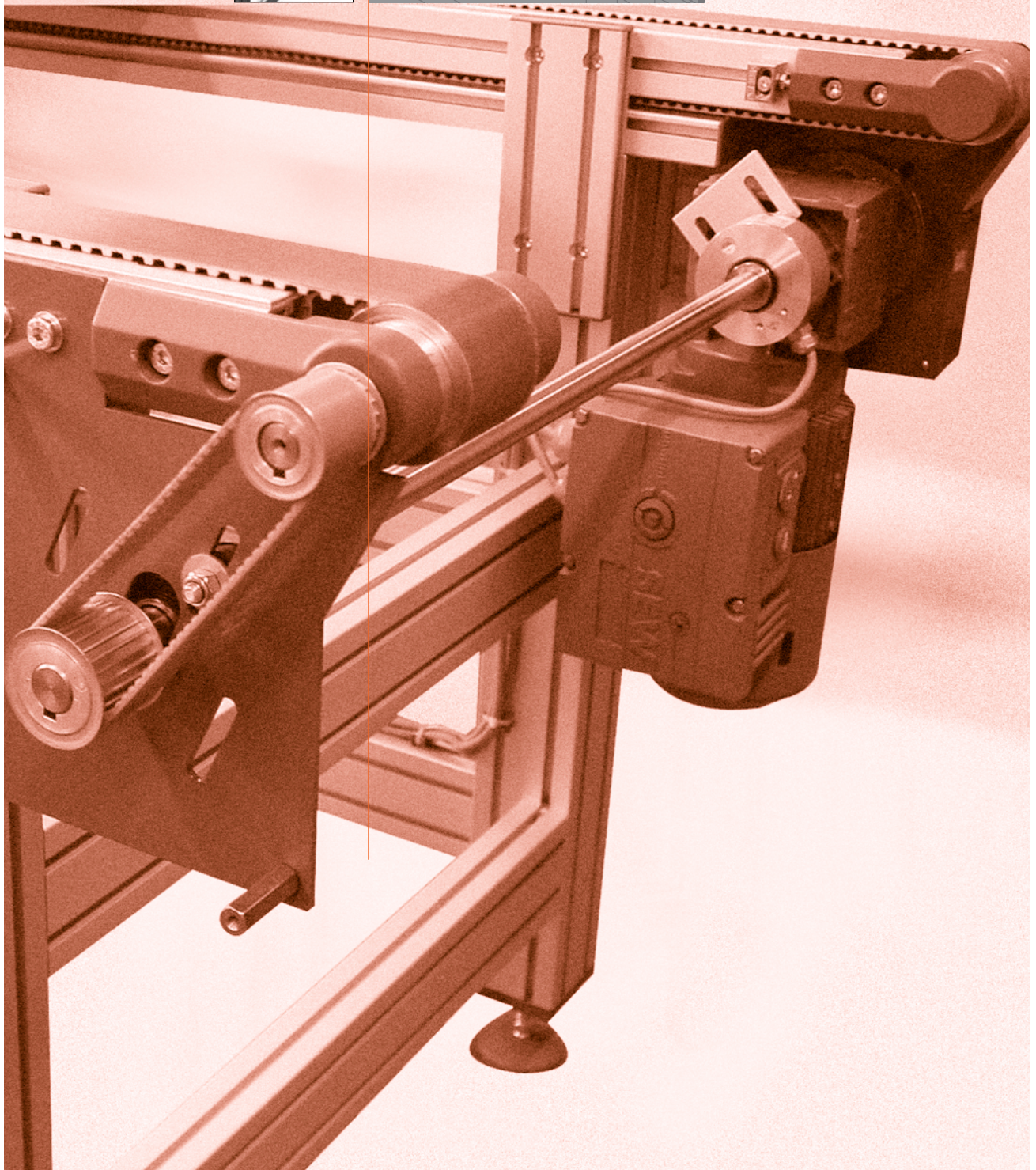
Height-adjustable



Standard

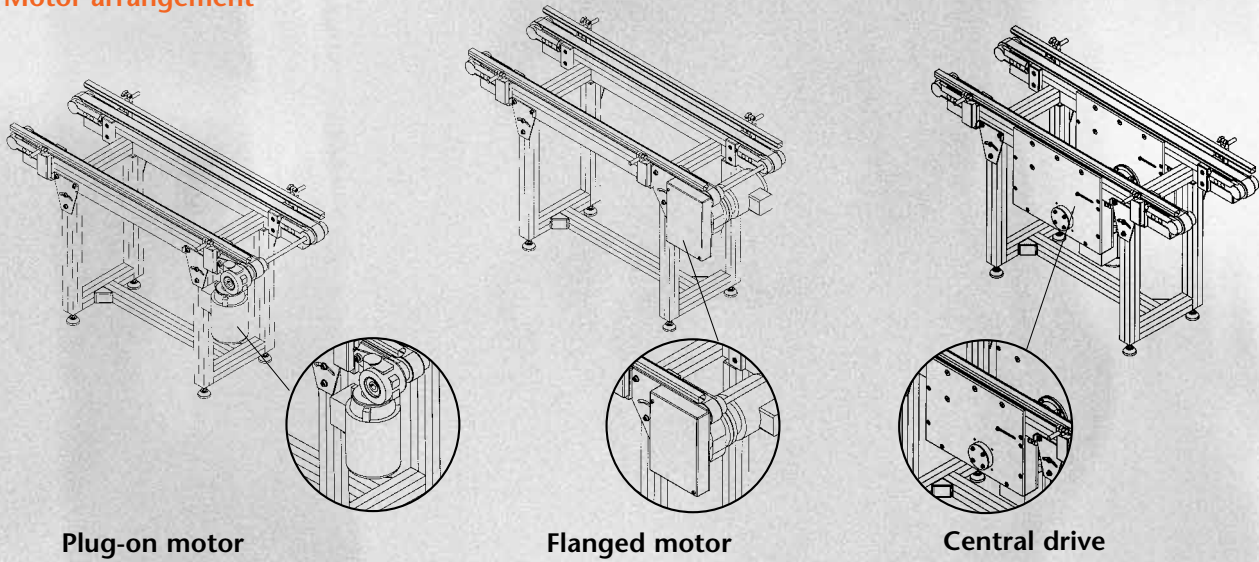


TIMING BELT CONVEYOR

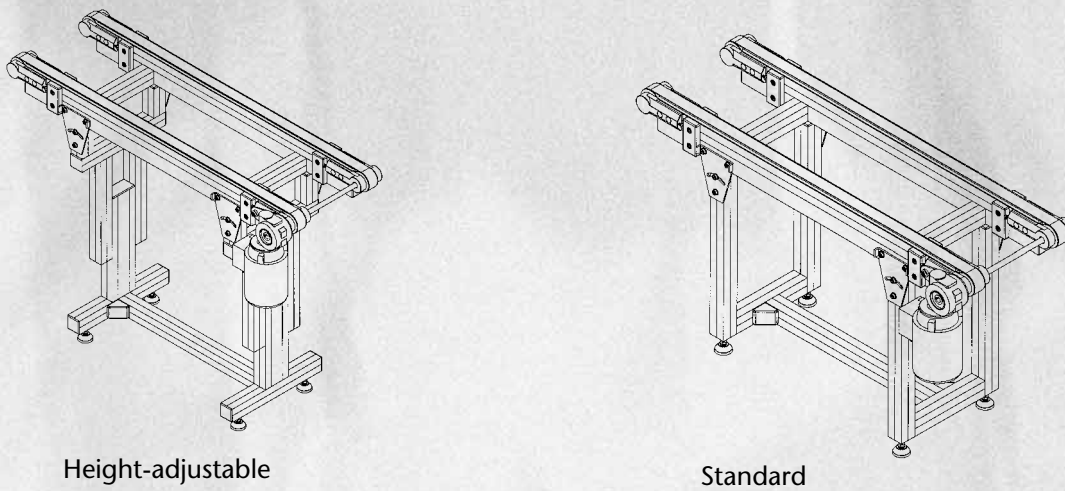


TIMING BELT CONVEYOR 32

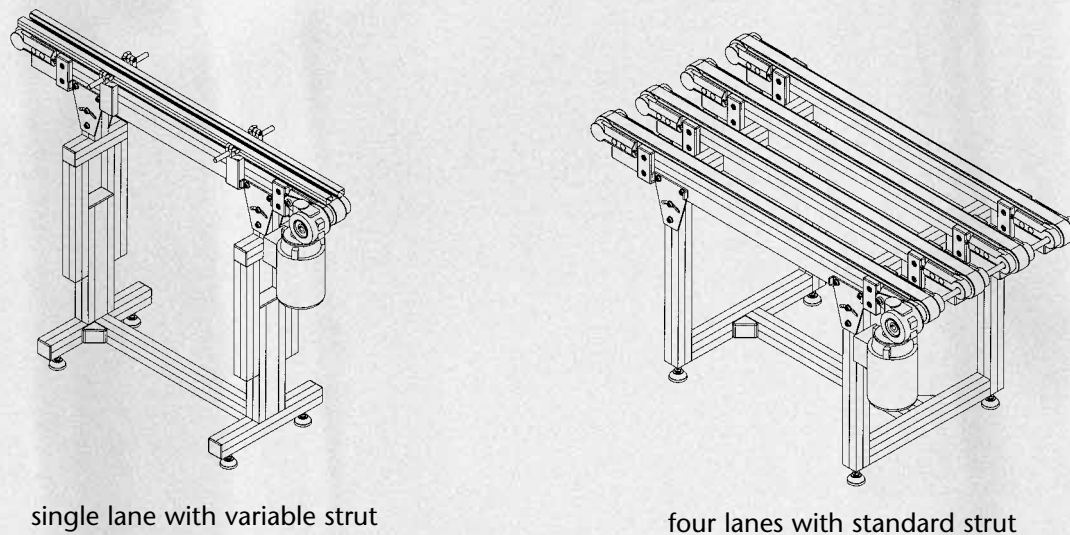
Motor arrangement



Subconstructions



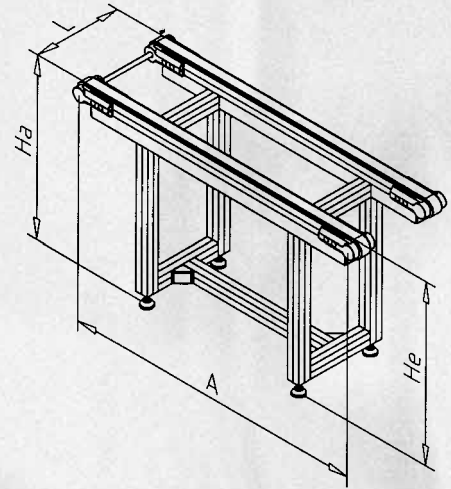
Example timing belt conveyor



INQUIRY TIMING BELT CONVEYOR 32, STANDARD

Standard dimension

Axial distance A mm
 External distance timing belt L mm
 single lane multi-track
 belt width 32 (both sides fabric)



Operating conditions

Goods to be conveyed
 Weight/piece kg
 Total belt load kg
 Temperature °C

Subconstructions

Charging side height He mm
 Discharging side height Ha mm
 Number of supports Pcs.
 Height adjustable sup. from mm to mm
 Lateral guide one side both sides short long
 Angle bracket for floor fastening Part N° 21.1112/0
 Floor anchor 12 Part N° 21.1115/0
 Wheels Part N°
 Feet Part N°

Options

Special coatings for timing belt

Drive

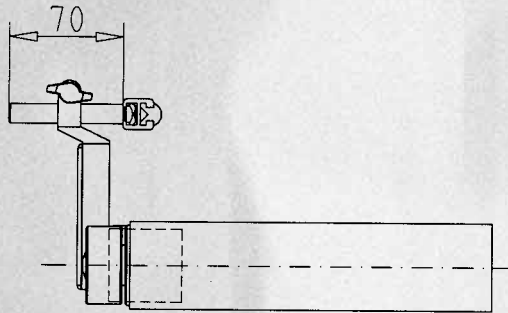
Motor arrangement Plug-on motor Flanged motor Central drive

Speed m/min.
 Adjustable speed from m/min. to m/min.

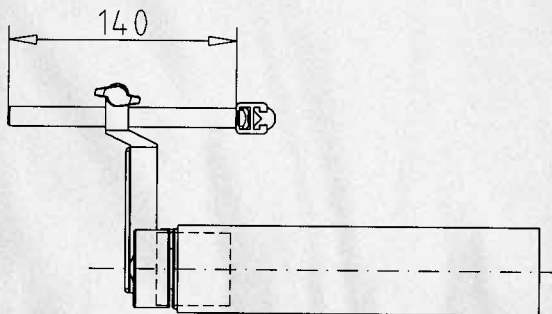
Company Please call me back
 Name Please send me an offer
 Phone no.
 Fax no.
 E-Mail

LATERAL GUIDE

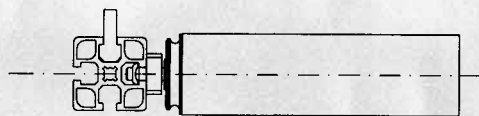
Short



Long



Low



High





FEET PA

Items supplied

- Plate PA, grey
- Anti-skid insert NBR
- Threaded bolt, steel, galvanized
- Locknut, steel, galvanized
- All bolts are suitable for all plates

Applications

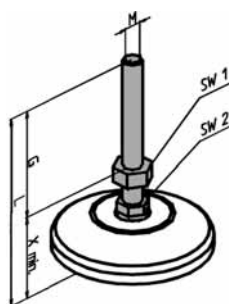
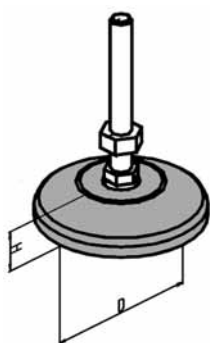
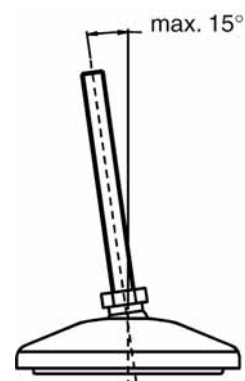
- Levelling of machine bases or constructions
- Boards, partitions, enclosures
- Tables, conveyors and work benches

Assembly

- Directly on core boring of profiles, reborable up to M12
- On larger threads use base and transport plate
- For profiles 45 x 90 und 90 x 90 a base and transport plate is required, if the feet are to be positioned centrally.



threaded bolt	Part-Numbers			
	Ø 30	Ø 45	Ø 60	Ø 80
M8	21.1851/0	21.1871/0	21.1881/0	21.1891/0
M10	21.1852/0	21.1872/0	21.1882/0	21.1892/0



Dimensions

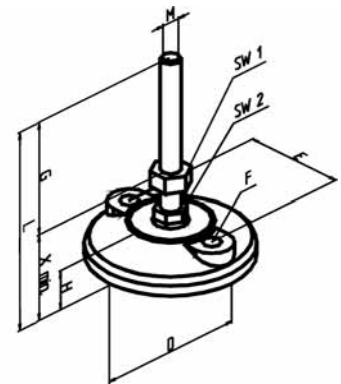
Plate			Threaded bolt						
D mm	H mm	max. load	M	G	X	SW1	SW2	L	
30	20	300 kg	M8	34	35,4	13	14	69	
45	20	500 kg	M10	37,5	38	17	14	75,2	
60	20	1000 kg							
80	20	1000 kg							

FEET PA WITH ATTACHMENT BORES



Items supplied

- Plate PA, grey
- Anti skid insert NBR
- Threaded bolt, steel, galvanized
- Locknut, steel, galvanized
- Feet with load 1800 kg are supplied without anti-skid insert NBR



Part no.	Colour	M	G	X	SW1	SW2	L	E	F	D	Load
21.1846/0	grau	M10	82,9	41,2	17	14	124	74	Ø 9	100	1000 kg
21.1847/0	grau	M12	141	41,7	19	14	181,9	74	Ø 9	100	1000 kg

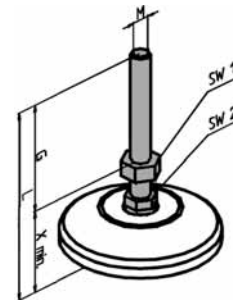
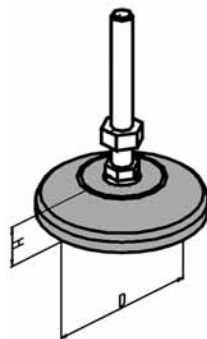
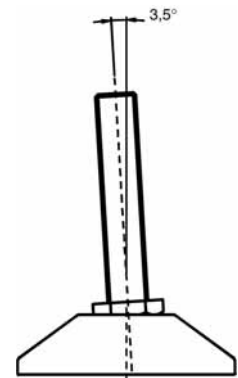
FEET GD

Items supplied

- Plate, aluminium, pressure die casting, powder-coated, grey
- Anti skid insert NBR
- Threaded bolt, steel, galvanized
- Locknut, steel, galvanized
- All bolts are suitable for all plates



threaded bolt	Part-Numbers	
	Plate Ø 45	Plate Ø 90
M10	21.1842/0	21.1862/0



Dimensions

Plate

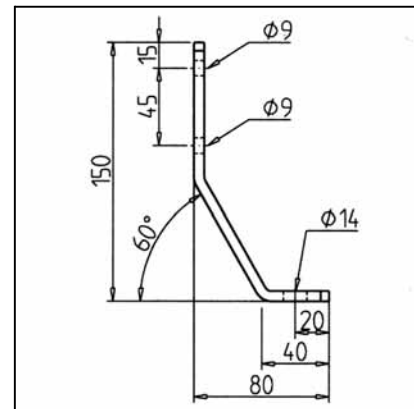
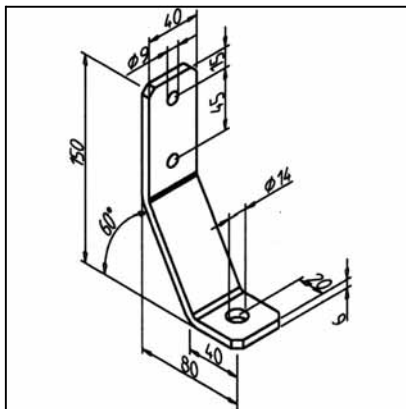
D mm	H mm	max. load
45	25	3000 kg
90	27	4000 kg

Threaded bolt

M	G	X	SW1	SW2	L
M10	52,6	37,5	17	17	89,5
M12	50,5	41	19	19	91,2

ANGLE BRACKET FOR FLOOR FASTENING

Part. N 21.1112/0



TECHN. DATA / ITEMS SUPPLIED

- Steel, powder coated, grey
- Without fixing kit
- Weight 0,355 kg

APPLICATIONS

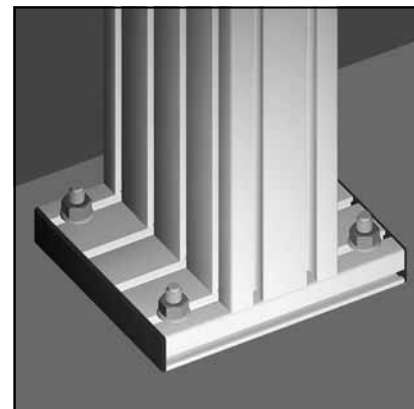
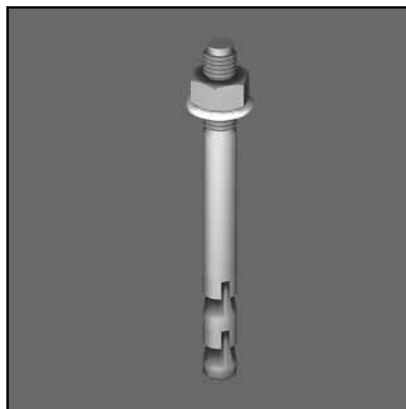
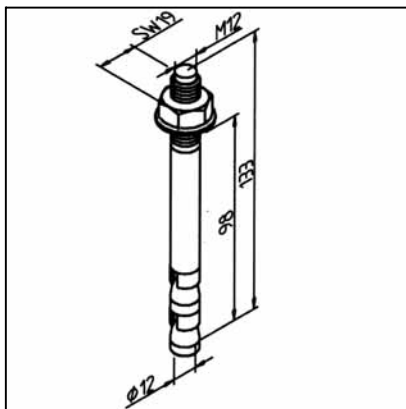
- Securing and fastening of constructions on floor or wall

ASSEMBLY

- On profile side: Use hex socket cap screws M8 x 20 5 A/F
- On floor side: Use floor anchor 12 **Part N° 21.1115/0**
- Also suitable for subsequent mounting

FLOOR ANCHOR 12

Part. N 21.1115/0



TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated
- Ø 12
- Complete with nut and washer
- Weight 0,116 kg

APPLICATIONS

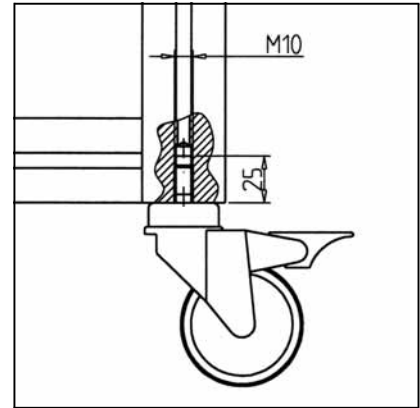
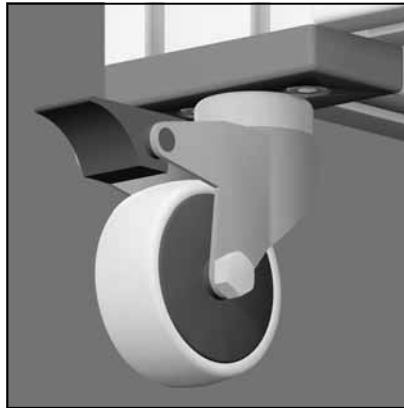
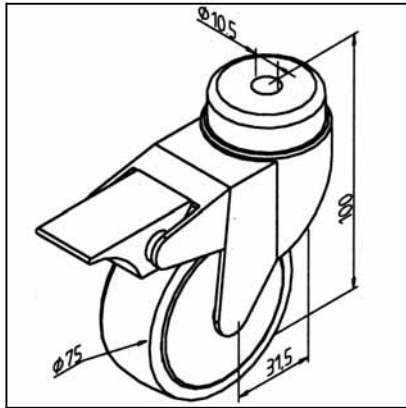
- Attachment of stand-profiles to floor or wall. To be used together with angle bracket for floor fastening, levelling plate or floor mounting plate

ASSEMBLY

- Fit bore in the bottom
- Screw floor anchor in connection with angle, levelling plate or floor mounting plate

WHEEL SWIVEL TYPE WITH BRAKE

Part. N 21.1120/0



TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated
- Tire, rubber, grey
- Fixing kit
- Weight 0,25 kg
- Load max. 50 kg
- Further constructions on demand

APPLICATIONS

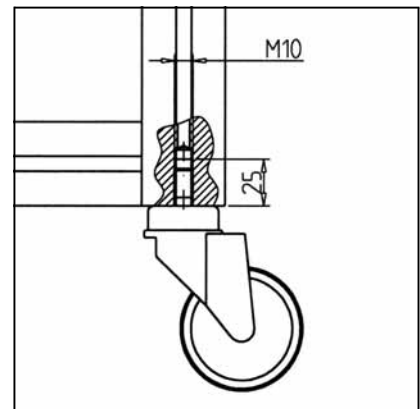
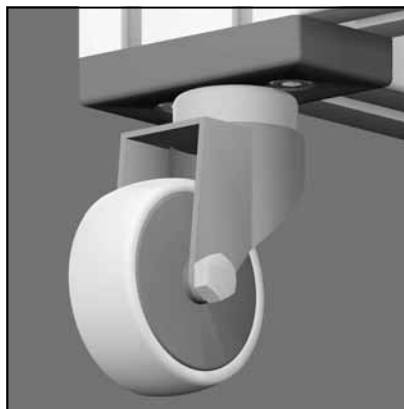
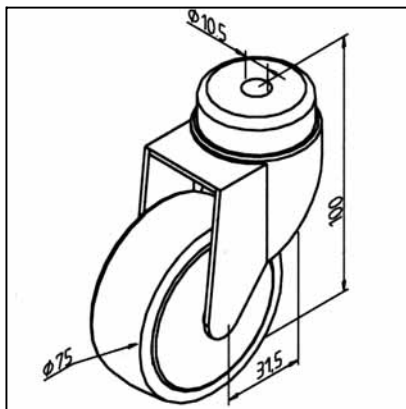
- Movable tables
- Material-pillars
- Show cases etc.

ASSEMBLY

- Directly on central bore of the vertical profile; thread M10 required
- With profiles 45 x 45 or bigger use base plate M10

WHEEL SWIVEL TYPE WITHOUT BRAKE

Part. N 21.1118/0



TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated
- Tire, rubber, grey
- Fixing kit
- Weight 0,225 kg
- Load max. 50 kg
- Further constructions on demand

APPLICATIONS

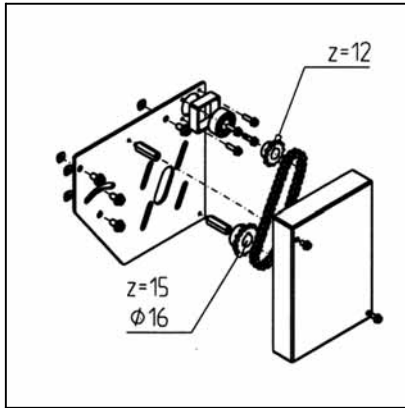
- Movable tables
- Material-pillars
- Show cases etc.

ASSEMBLY

- Directly on central bore of the vertical profile; thread M10 requested
- If the wheel is to be positioned centrally, for profiles 45 x 45 or bigger a base plate is required

MOTOR ATTACHMENT KIT Ø 16

Part. N 29.5030/0



TECHN. DATA / ITEMS SUPPLIED

- Motor plate and cover, steel, powder coated, grey
- Housing with self aligning
- Chain wheel bored for motor-shaft Ø 16
- 2 chain wheels with driving chain
- Fixing kit
- Weight 3,06 kg

APPLICATION

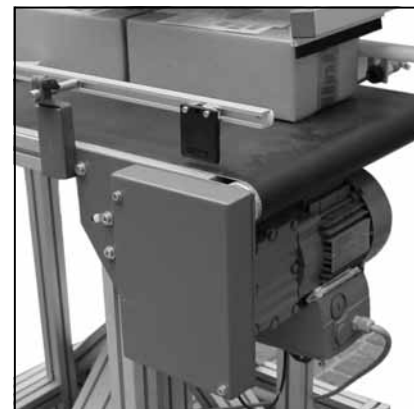
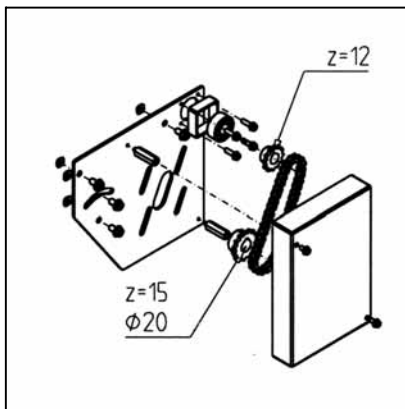
- Belt-conveyors made of MiniTec aluminium profiles
- Suitable for attachment of spur wheel back-geared motors; flange Ø 120 mm
- Belt driving cylinder **Part N° 29.5022/0** and belt tensioning cylinder **Part N° 21.0994/0**

ASSEMBLY

- Screw flange plate on basic frame; mount housing with bearing
- Insert belt driving cylinder; on the opposite side use conveyor bearing **Part N° 21.0993/0**
- Mount motor and chain wheels and tension chain
- Mount cover

MOTOR ATTACHMENT KIT Ø 20

Part. N 29.5031/0



TECHN. DATA / ITEMS SUPPLIED

- Motor plate and cover, steel, powder coated, grey
- Housing with self aligning
- Chain wheel bored for motor-shaft Ø 16
- 2 chain wheels with driving chain
- Fixing kit
- Weight 3,06 kg

APPLICATION

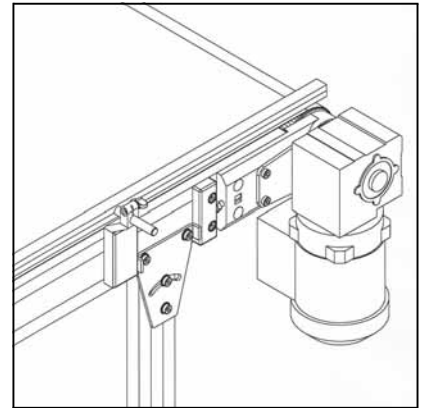
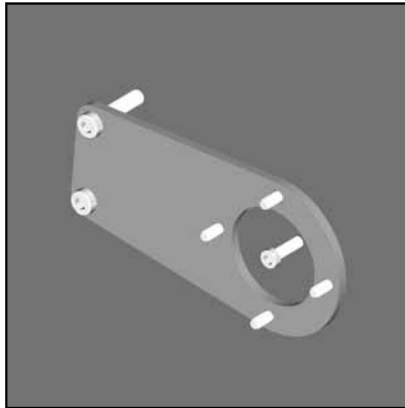
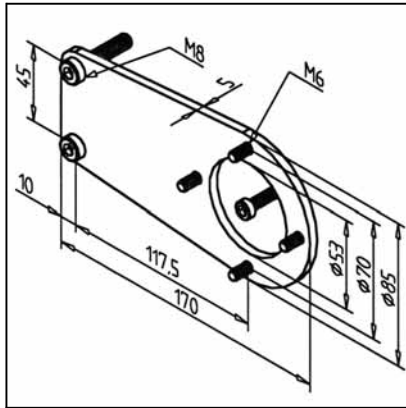
- Belt-conveyors made of MiniTec aluminium profiles
- Suitable for attachment of spur wheel back-geared motors; flange Ø 120 mm
- Belt driving cylinder **Part N° 29.5022/0** and belt tensioning cylinder **Part N° 21.0994/0**

ASSEMBLY

- Screw flange plate on basic frame; mount housing with bearing
- Insert belt driving cylinder; on the opposite side use conveyor bearing **Part N° 21.0993/0**
- Mount motor and chain wheels and tension chain
- Mount cover

TORQUE SUPPORT WA 20

Part. N 29.5036/0



TECHN. DATA / ITEMS SUPPLIED

- Torque support steel, powder coated grey
- Fixing kit
- Weight 0,432 kg

APPLICATION

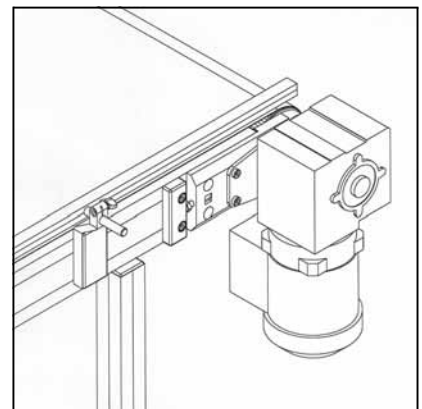
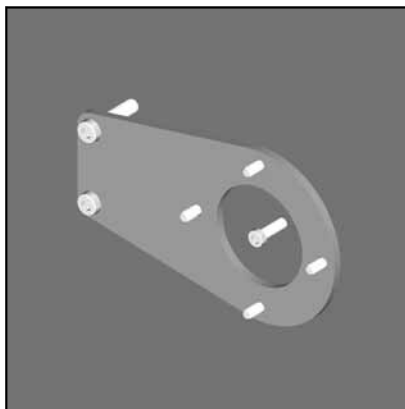
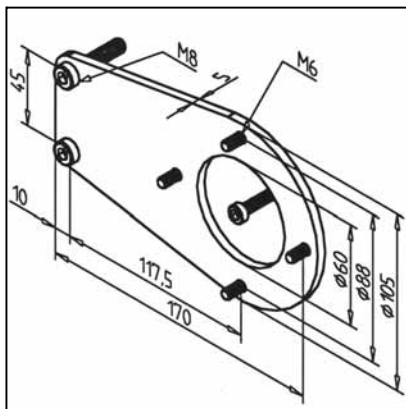
- Minitec belt conveyors
- Attachment of plug-on motor DSGM 180 and DSGM 250 for MiniTec belt conveyors 90
- Use suitable belt driving cylinder Part N° 29.5039/0 and conveyor bearing Part N° 21.0985/1

ASSEMBLY

- Fix torque support onto motor
- Attach motor on belt driving cylinder
- Fix torque support
- Secure shaft end in hollow shaft

TORQUE SUPPORT WA 30

Part. N 29.5037/0



TECHN. DATA / ITEMS SUPPLIED

- Torque support steel, powder coated grey
- Fixing kit
- Weight 0,516 kg

APPLICATION

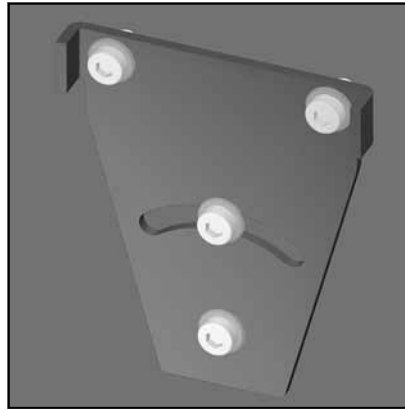
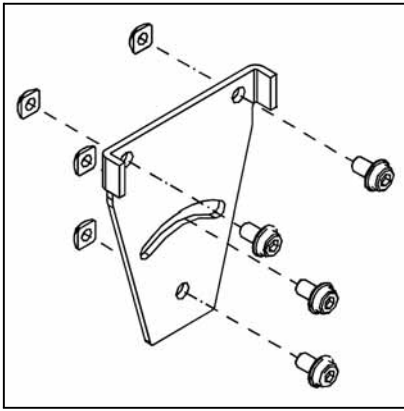
- MiniTec belt conveyors
- Attachment of plug-on motor DSGM 180 and DSGM 250 for MiniTec belt conveyors 90
- Use suitable belt driving cylinder Part N° 29.5039/0 and conveyor bearing Part N° 21.0985/1

ASSEMBLY

- Fix torque support onto motor
- Attach motor on belt driving cylinder
- Fix torque support
- Secure shaft end in hollow shaft

SWIVEL PLATE

Part. N 29.5001/0



TECHN. DATA / ITEMS SUPPLIED

- Steel, powder coated, grey
- Fixing kit
- Weight 0,377 kg
- **Stainless version Part N° 29.5012/0**

APPLICATION

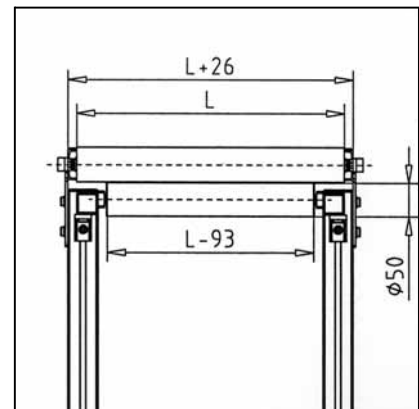
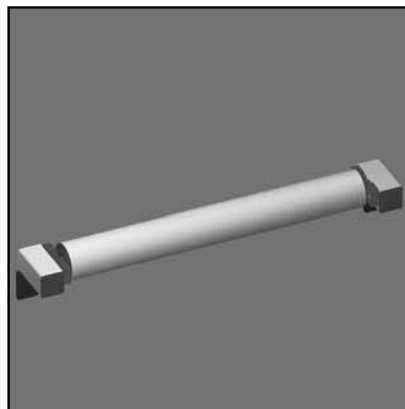
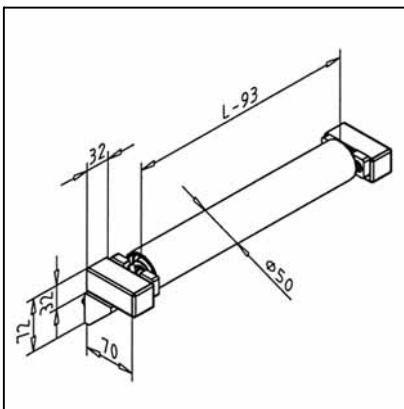
- Attachment of the sub-construction on MiniTec belt conveyor
- Also suitable for inclined belt conveyors
- The swivel plate is also used as a counterbearing to tighten the belt
- Range ± 35

ASSEMBLY

- Fasten at the conveyor profiles at the subconstruction with fixing kit from supply schedule

SUPPORT ROLLER KIT

Part. N 29.5002/0



TECHN. DATA / ITEMS SUPPLIED

- Support roller kit, PVC
- Ball bearings on both sides
- Two profile supports
- 2 mounting angles
- Fixing kit
- Weight 0,487 kg
- **Please specify dimension L (belt width)**

APPLICATION

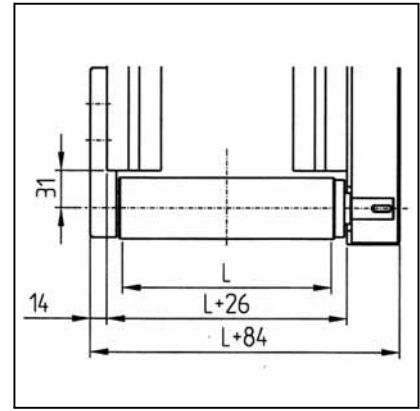
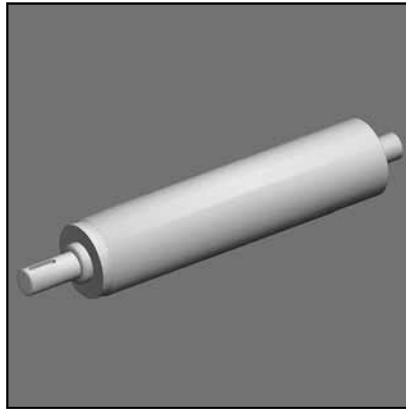
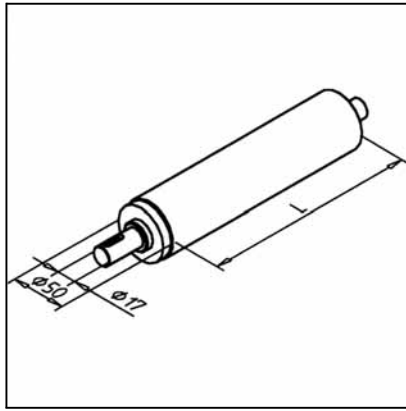
- MiniTec belt conveyor system
- As a support for the lower side of long belt conveyors
- We recommend to install one support roller for each intermediate support on the belt conveyor
- Use this support roller kit only with belt width > 115 mm

ASSEMBLY

- Preassemble the profile roller support on the conveyor supports; use the angles
- Clip the support roller fixing kit
- Slide the roller in appropriate position and tighten the screws

BELT DRIVING CYLINDER 45 FOR MOTOR KIT

Part. N 29.5022/0



TECHN. DATA / ITEMS SUPPLIED

- Steel, zink-plated
- Turned spherically
- Axle $\varnothing 17$, driving side suitable for fastening the chain wheel of motor attachment kit
- Weight 15,3 kg/m
- Please specify dimension L (belt width)

APPLICATION

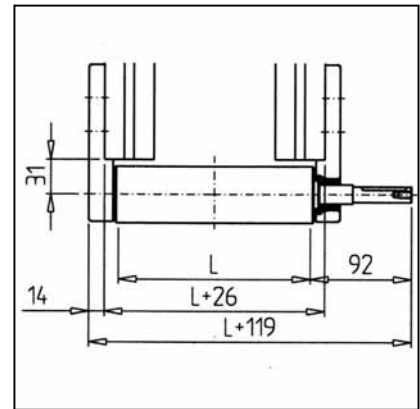
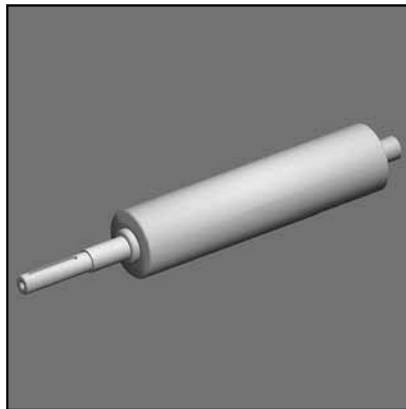
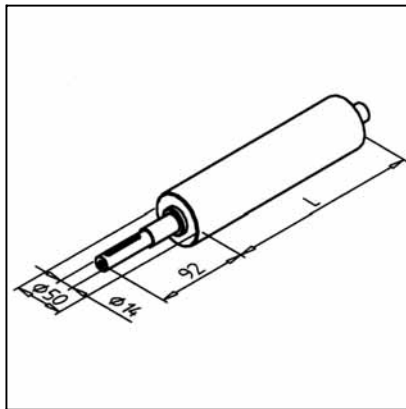
- Can only be used with the MiniTec belt conveyor kit

ASSEMBLY

- Insert the belt driving cylinder in the bearing housing on the motor side
- Mount the conveyor bearing Part N° 21.0993/0 on the opposite side
- The self-aligning ball bearings compensate light misalignments

BELT DRIVING CYLINDER 45 FOR PLUG-ON MOTOR

Part. N 29.5023/0



TECHN. DATA / ITEMS SUPPLIED

- Steel, zink-plated
- Turned spherically
- Axle $\varnothing 14$, driving side suitable for fastening the plug-on motor
- Weight 15,3 kg/m
- Inquiry basic circuit 90

APPLICATION

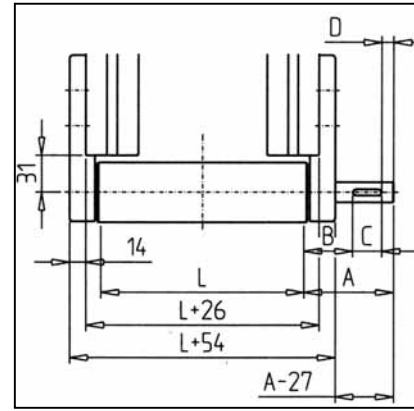
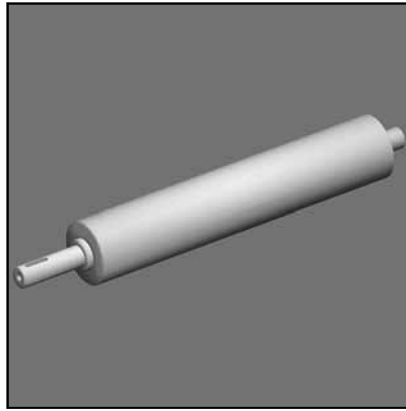
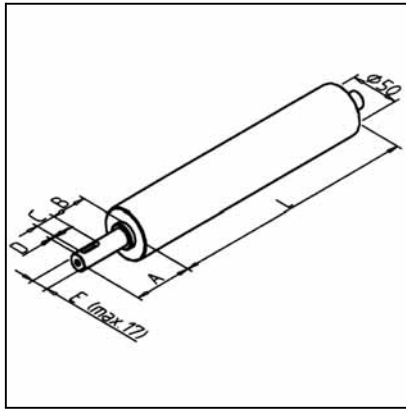
- MiniTec belt conveyor systems DSGM with torque support
- Suitable for MiniTec plug-on motor with torque support

ASSEMBLY

- Insert the belt driving cylinder in the conveyor bearing for plug-on motor
- Mount the conveyor bearing Part N° 21.0993/0 on the opposite side

BELT DRIVING CYLINDER 45

Part. N 21.0995/0



TECHN. DATA / ITEMS SUPPLIED

- Steel, zink-plated
- Turned spherically
- Journal max. Ø 17
- Weight 15,3 kg/m
- Please indicate belt width L and dimensions A, B, C, D and E (if > 17 mm)

APPLICATION

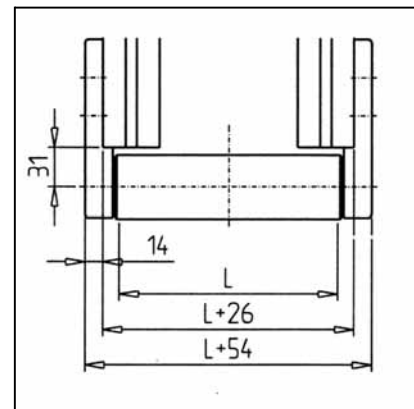
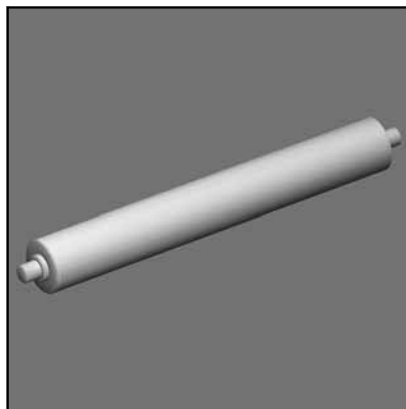
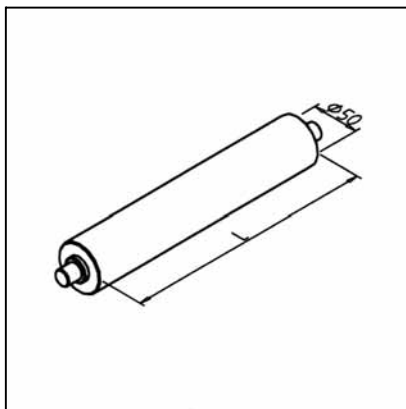
- MiniTec belt conveyor system
- Use suitable conveyor bearing Part N° 21.0993/0

ASSEMBLY

- Insert belt driving cylinder in conveyor bearing with bore Part N° 21.0993/1
- Mount on opposite conveyor bearing Part N° 21.0993/0
- The self-aligning ball bearings compensate light misalignments

BELT TENSIONING CYLINDER 45

Part. N 21.0994/0



TECHN. DATA / ITEMS SUPPLIED

- Aluminium
- Turned spherically
- Journal Ø 17
- Weight 4,8 kg/m
- Please specify dimension L (belt width)

APPLICATION

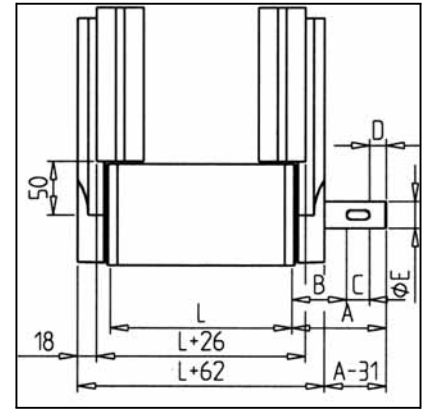
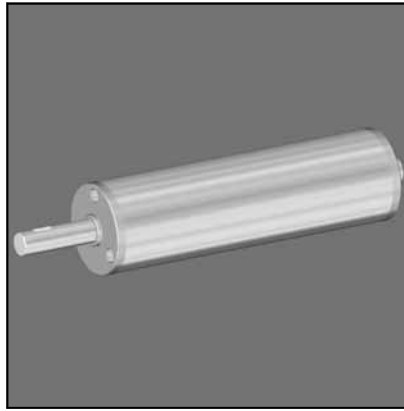
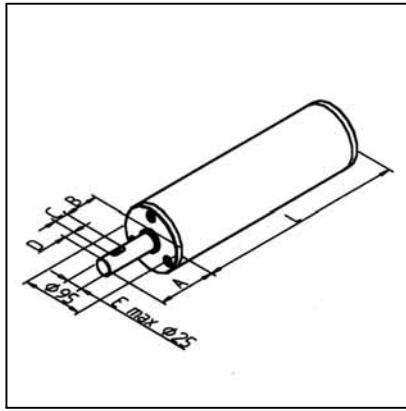
- MiniTec belt conveyor system
- Use suitable conveyor bearing Part N° 21.0993/0

ASSEMBLY

- Insert the axle in the conveyor bearing assembly bore
- The cylinder is fixed axially by the self-aligning ball bearings
- The self-aligning ball bearings compensate light misalignments

BELT DRIVING CYLINDER 90

Part. N 21.0981/0



TECHN. DATA / ITEMS SUPPLIED

- Aluminium with shaft made of steel
- Turned spherically
- Axle Ø 25
- Weight 16,2 kg/m
- Please specify dimension L (belt width)

APPLICATION

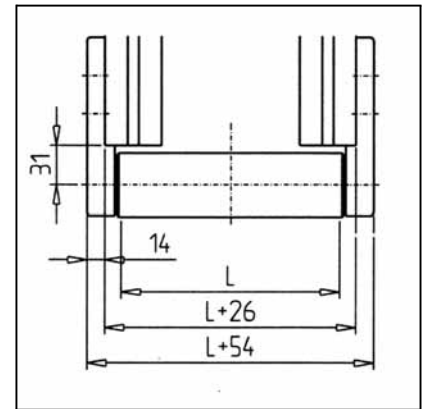
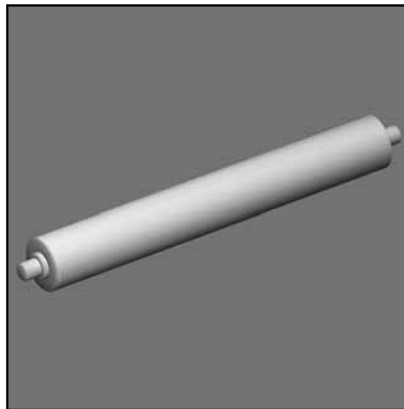
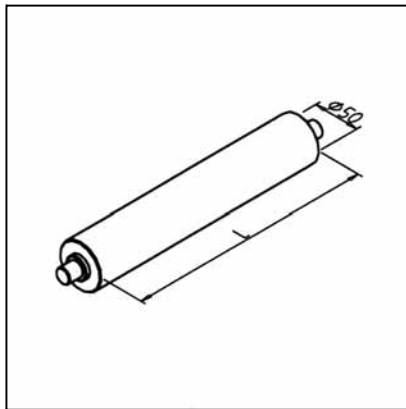
- MiniTec belt conveyor system
- Use suitable conveyor bearing Part N° 21.0985/0 and Part N° 21.0985/1

ASSEMBLY

- Insert belt driving cylinder in conveyor bearing with bore Part N° 21.0985/1
- Mount on opposite conveyor bearing Part N° 21.0985/0
- The self-aligning ball bearings compensate light misalignments

BELT TENSIONING CYLINDER 90

Part. N 21.0982/0



TECHN. DATA / ITEMS SUPPLIED

- Aluminium with shaft made of steel
- Turned spherically
- Axle Ø 25
- Weight 15,8 kg/m
- Please specify dimension L (belt width)

APPLICATION

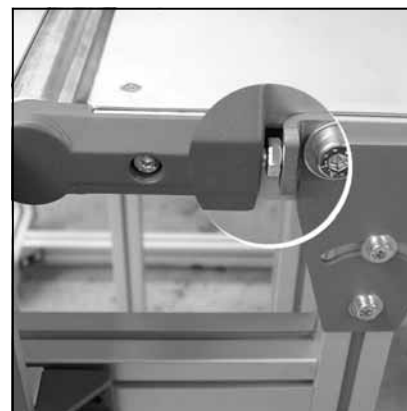
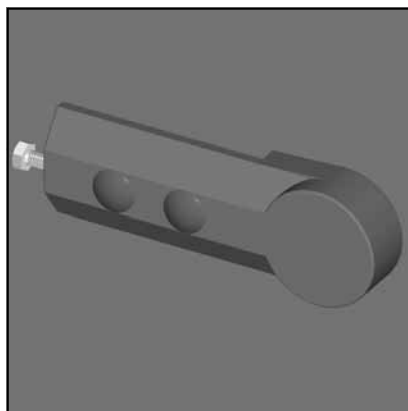
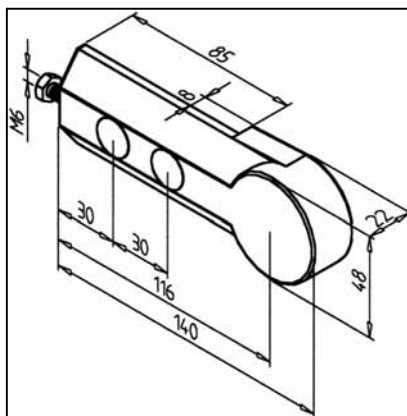
- MiniTec belt conveyor system
- Use suitable conveyor bearing Part N° 21.0985/0

ASSEMBLY

- Insert axes in the bore of the self-aligning bearings of the conveyor bearing
- The cylinder is fixed axially by the self-aligning ball bearings
- The self-aligning ball bearings compensate light misalignments

CONVEYOR BEARING 45

Part. N 21.0993/0



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey
- Self-aligning ball bearing with \varnothing 17 mm, both sides sealed
- Weight 0,275 kg
- Version in aluminium GD, with stainless bearing and fixing kit, conveyor bearing 45 H, Part N° 21.0993/5
- Stainless version, conveyor bearing 45 VA, Part N° 21.0979/0
- Weight 0,685 kg

APPLICATION

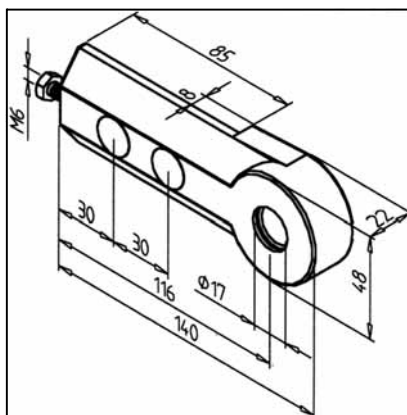
- Bearing for belt-tensioning cylinders

ASSEMBLY

- Pretighten at the profile groove
- If swivel plates Part N° 29.5001/0 for support fastening are used, they serve as counter bearing for tightening purpose; if not, use multiblock or angles
- Tighten the conveyor belt by unscrewing the set screw, if necessary reset the tool as often as needed
- Firmly tighten the conveyor bearing (Recommended locking torque: 25 Nm)

CONVEYOR BEARING 45 WITH BORE

Part. N 21.0993/1



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey
- With bore for shaft end (add on motor)
- Self-aligning ball bearing with \varnothing 17 mm, both sides sealed
- Weight 0,268 kg
- Version in aluminium GD, with stainless bearing and fixing kit, conveyor bearing 45 H, Part N° 21.0993/6
- Stainless version, conveyor bearing 45 VA with bore, Part N° 21.0980/0
- Weight 0,681 kg

APPLICATION

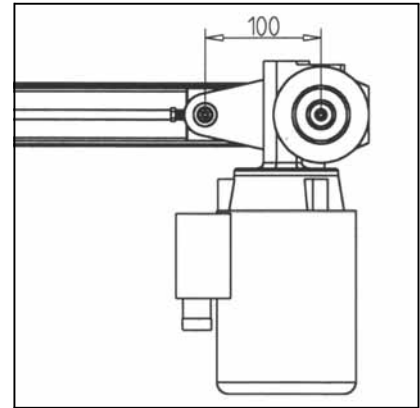
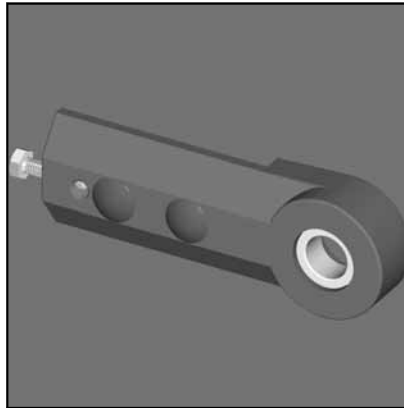
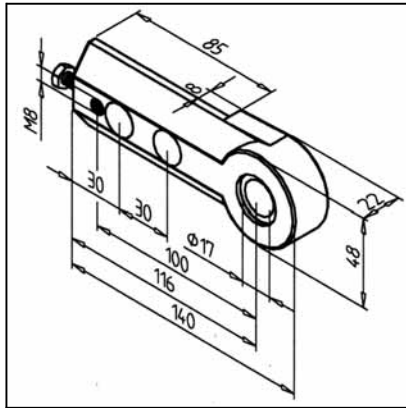
- Bearing for belt-tensioning cylinders
- Attachment of plug-on motors or chain wheels on shaft; max. \varnothing 17 mm

ASSEMBLY

- Pretighten at the profile groove
- If swivel plates Part N° 29.5001/0 for support fastening are used, they serve as counter bearing for tightening purpose; if not, use multiblock or angles
- Tighten the conveyor belt by unscrewing the set screw, if necessary reset the tool as often as needed
- Firmly tighten the conveyor bearing (Recommended locking torque: 25 Nm)

CONVEYOR BEARING 45 FOR PLUG ON MOTOR

Part. N 29.5029/0



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey
- Self-aligning ball bearing with $\varnothing 17$ mm, both sides sealed
- With thread M8 for torque support
- Fixing kit
- Weight 0,269 kg

APPLICATION

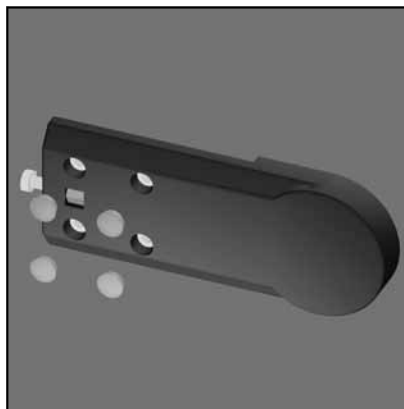
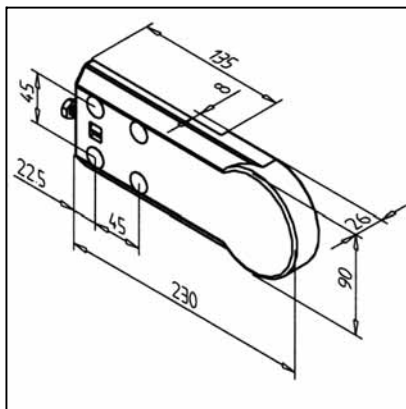
- MiniTec belt-conveyors with plug on motor (hollow shaft)

ASSEMBLY

- Fasten the torque support on thread M8
- Preassemble conveyor bearing at profile end
- If swivel plates **Part N° 29.5001/0** for floor fastening are used, they serve as counter bearing for tightening purpose; if not, use multiblock or angles
- Tighten the conveyor belt by unscrewing the set screw, if necessary reset the tool as often as needed
- Firmly tighten the conveyor bearing (Recommended locking torque: 25 Nm)

CONVEYOR BEARING 90

Part. N 21.0985/0



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey
- Self-aligning ball bearing with $\varnothing 25$ mm, both sides sealed
- Weight 0,9 kg

APPLICATION

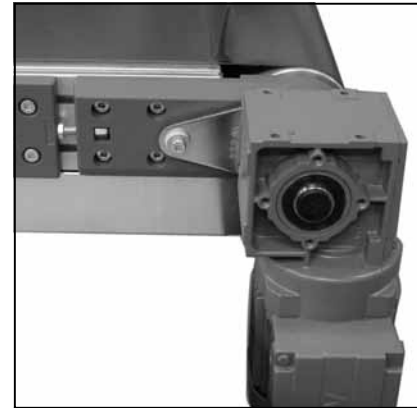
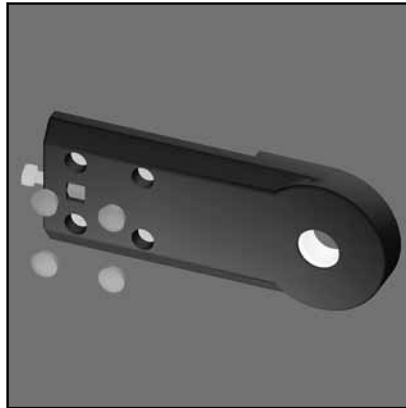
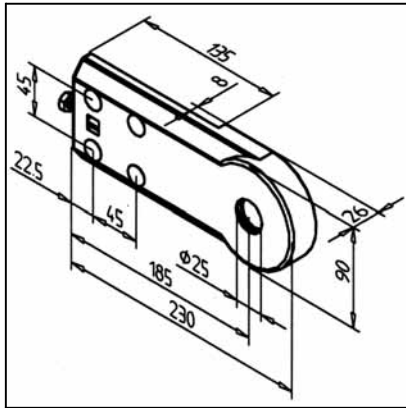
- Bearing of belt-tensioning cylinders 90 in MiniTec belt-conveyors

ASSEMBLY

- Preassemble conveyor bearing at profile end
- As counter bearing for tightening of connection plate 32 x 90 or 45 x 90
- Tighten the conveyor belt by unscrewing the set screw, if necessary reset the tool as often as needed
- Firmly tighten the conveyor bearing (Recommended locking torque: 25 Nm)

CONVEYOR BEARING 90 WITH BORE

Part. N 21.0985/1



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey
- With bore for shaft end (add on motor)
- Self-aligning ball bearing with $\varnothing 25$ mm, both sides sealed
- Weight 0,9 kg

APPLICATION

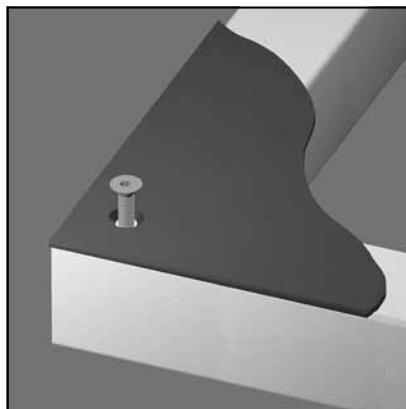
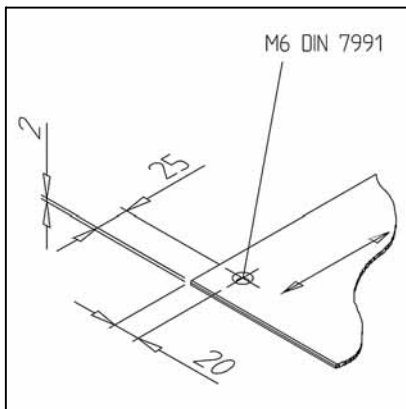
- Bearing of belt driving cylinders in MiniTec belt-conveyors
- Attachment of motors or chain wheels, or belt pulleys on shaft; max. $\varnothing 25$ mm

ASSEMBLY

- Preassemble conveyor bearing at profile end
- As counter bearing for tightening of connection plate 32 x 90 or 45 x 90
- Tighten the conveyor belt by unscrewing the set screw, if necessary reset the tool as often as needed
- Firmly tighten the conveyor bearing (Recommended locking torque: 25 Nm)

SUPPORTING SHEET

Part. N 29.5010/0



TECHN. DATA / ITEMS SUPPLIED

- Aluminium, anodized
- Thickness: 2 mm
- bored, ready for use
- Weight 5,4 kg/m²
- Stainless version Part N° 29.5010/1

APPLICATION

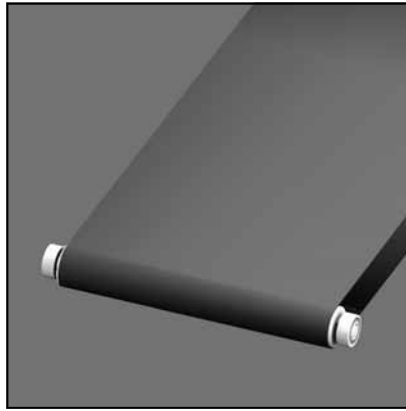
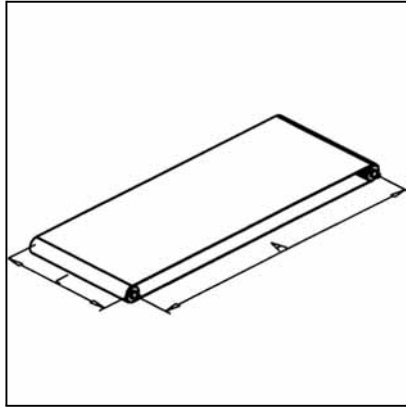
- Support for conveyor belts
- For MiniTec conveyor systems

ASSEMBLY

- Screw with counter sunk screws M6 x 16 and square nut M6 on profile

CONVEYOR BELT PVC

Part. N 29.5019/1



TECHN. DATA / ITEMS SUPPLIED

- PVC, black
- Antistatic
- Please specify dimension L (belt width) and dimension EL (endless length)
- Other versions see page 14

APPLICATION

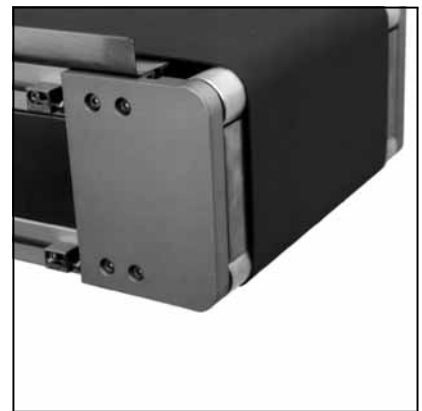
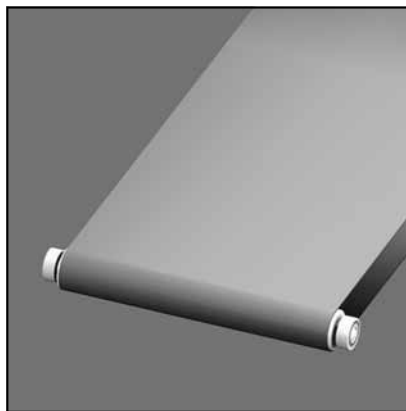
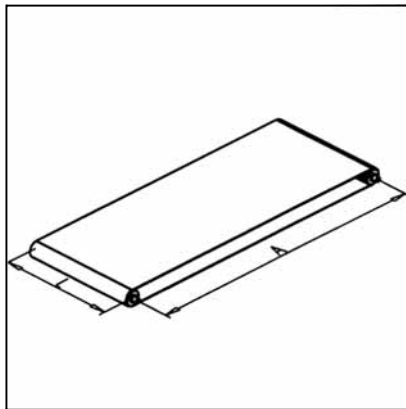
- For MiniTec belt conveyor systems
- High performance conveyor belts, seamless welded
- Special designs possible upon request: e.g. picking surface, struts etc.

ASSEMBLY

- Pull belt over belt driving cylinder and belt tensioning cylinder
- Mount belt tensioning cylinder and belt driving cylinder and tighten belt
- Calculation of endless length EL:
- For cylinder 45: $EL = 2 \times A + 165 \text{ mm}$
- For cylinder 90: $EL = 2 \times A + 305 \text{ mm}$

CONVEYOR BELT PU

Part. N 29.5019/8



TECHN. DATA / ITEMS SUPPLIED

- PU, dark green
- Antistatic
- Please specify dimension L (belt width) and dimension EL (endless length)
- Other versions see page 14

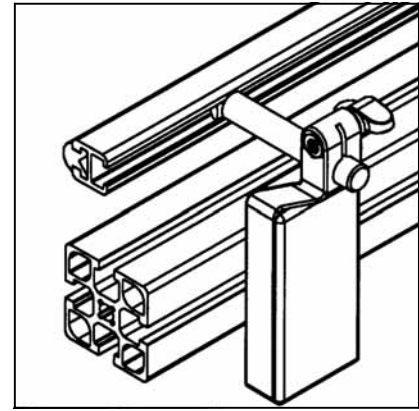
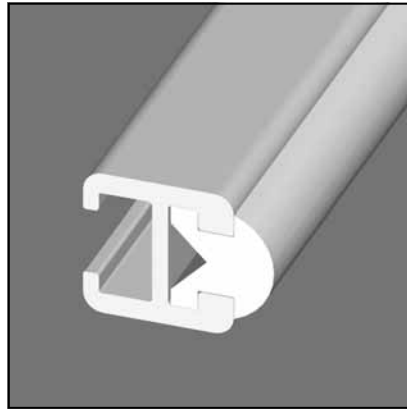
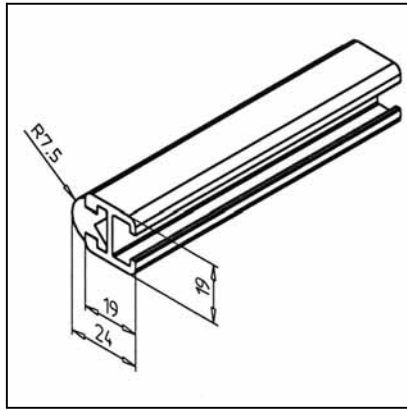
APPLICATION

- For MiniTec belt conveyor systems
- High performance conveyor belts, seamless welded
- Special designs possible upon request: e.g. picking surface, struts etc.

ASSEMBLY

- Pull belt over belt driving cylinder and belt tensioning cylinder
- Mount belt tensioning cylinder and belt driving cylinder and tighten belt
- Calculation of endless length EL:
- For cylinder 45: $EL = 2 \times A + 165 \text{ mm}$
- For cylinder 90: $EL = 2 \times A + 305 \text{ mm}$

LATERAL GUIDE



Part. N 29.5034/0

TECHN. DATA / ITEMS SUPPLIED

- Aluminium, anodized E6/EV1
- Sliding profile PE
- Weight 0,551 kg/m
- Length 3 m

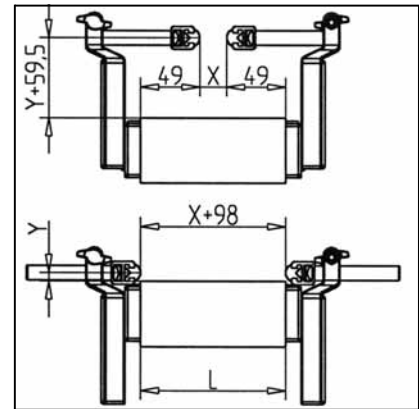
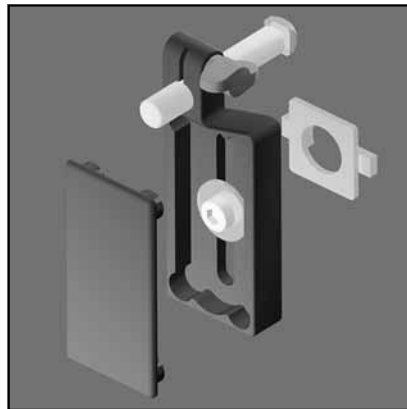
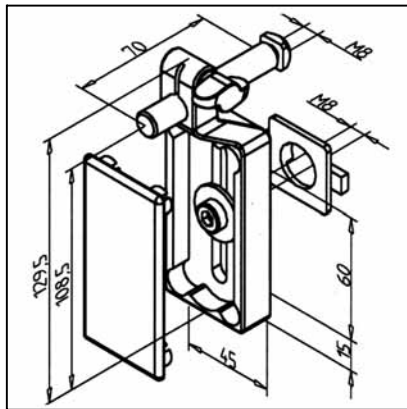
APPLICATION

- Adjustable lateral guide for conveyors
- Recommended length: axial distance A + 40 mm

ASSEMBLY

- Slide the M8 square nuts with spring steel sheet into the groove Part N° 29.5025/0
- Screw the lateral guide on the distance bolt

LATERAL GUIDE SUPPORT 70



Part. N 29.5025/0

TECHN. DATA / ITEMS SUPPLIED

- PA 6 GF, grey
- Distance bolt, stainless steel
- Securing against torsion AL GD
- Fixing kit
- Weight 0,137 kg

APPLICATION

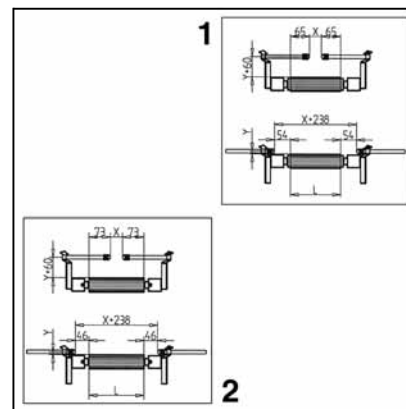
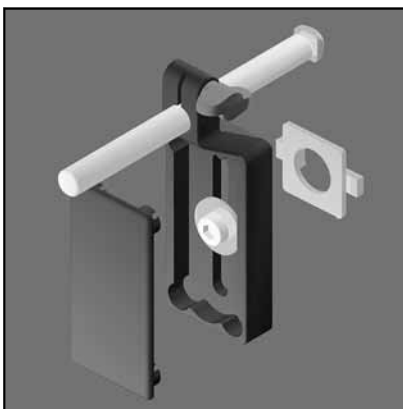
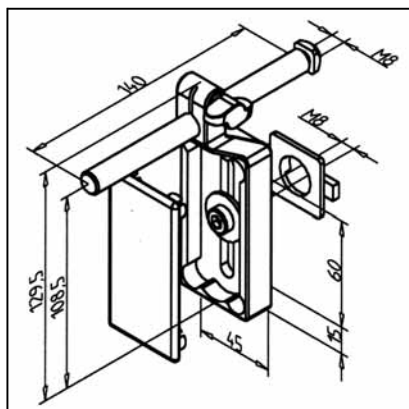
- Adjustable lateral guides for MiniTec belt conveyors
- We recommend: approx. 500 mm distance between the supports

ASSEMBLY

- Fasten support on lateral profiles
- Set the height H and tighten the screws
- Mount the lateral guide Part N° 29.5034/0
- Adjust lateral distance bolt

LATERAL GUIDE SUPPORT 140

Part. N 29.5028/0



TECHN. DATA / ITEMS SUPPLIED

- PA 6 GF, grey
- Distance bolt, stainless steel
- Securing against torsion AL GD
- Fixing kit
- Weight 0,142 kg

APPLICATION

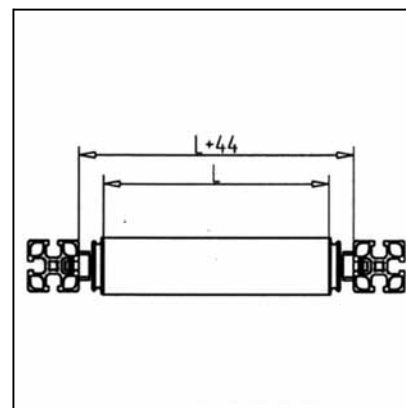
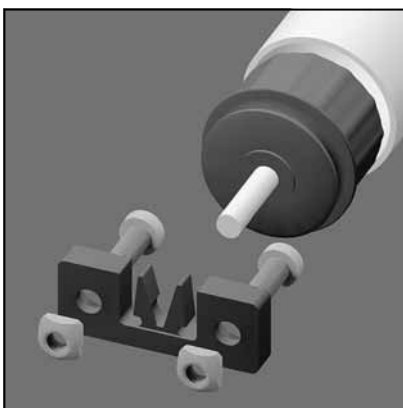
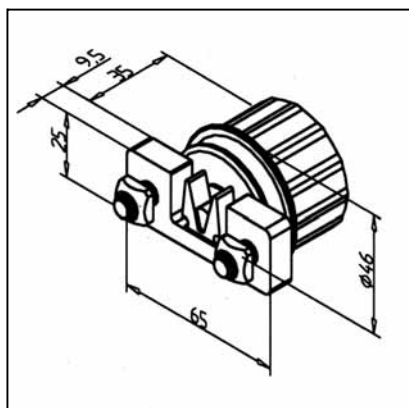
- Adjustable lateral guides for MiniTec belt conveyors
- We recommend: approx. 500 mm distance between the supports

ASSEMBLY

- Fasten support on lateral profiles
- Set the height H and tighten the screws
- Mount the lateral guide Part N° 29.5034/0
- Adjust lateral distance bolt

BEARING ASSEMBLY FOR TRANSPORT ROLLERS

Part. N 21.1056/0



TECHN. DATA / ITEMS SUPPLIED

- housing PA with slide-bearing
- Axle bolt, steel
- Roller support, PA 6
- Fixing kit
- For transport rollers of 60 - 1000 mm
- Weight 0,42 kg
- Load max. (roller) 20 kg

APPLICATION

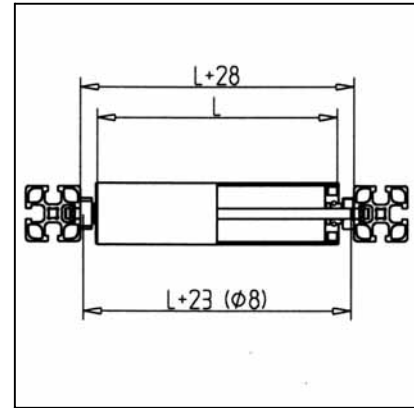
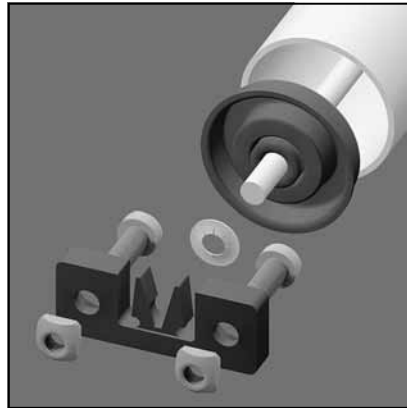
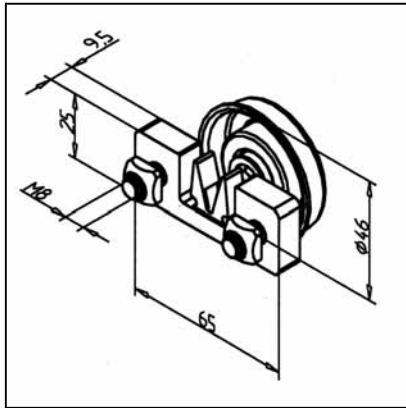
- Roller conveyors at any length
- Drive via round belt Ø 5 mm possible
- The rollers can be replaced individually

ASSEMBLY

- Attachment of the roller support on all profiles possible
- Mount roller support
- Press bearing assembly into the tube
- Insert axle bolt
- Clip in transport roller

BEARING ASSEMBLY S

Part. N 21.1722/0



TECHN. DATA / ITEMS SUPPLIED

- Housing steel with ball bearing
- Securing clip, steel
- Roller support, PA 6
- Fixing kit
- For transport rollers of 60 - 1000 mm
- Weight 0,42 kg
- Load max. (roller) max. 33 kg

APPLICATION

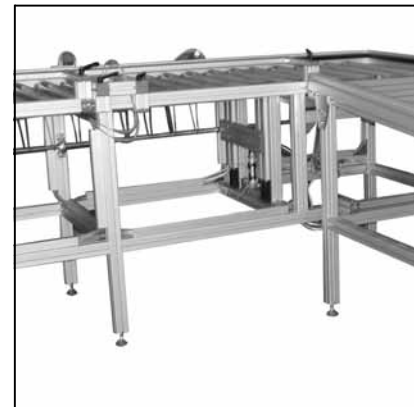
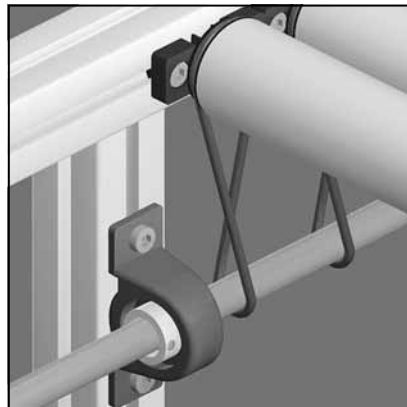
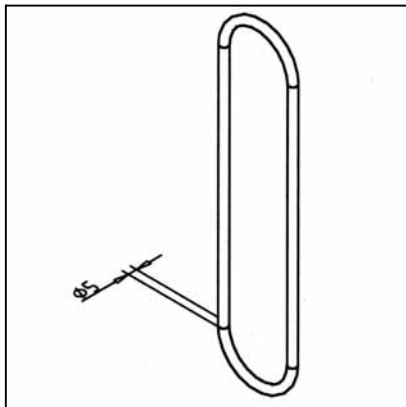
- Roller conveyors at any length
- The rollers can be replaced individually

ASSEMBLY

- Attachment of the roller support on all profiles possible
- Mount roller carrier
- Press bearing assembly into the tube
- Clip in transport roller

DRIVING BELT PU

Part. N 21.1050/7



TECHN. DATA / ITEMS SUPPLIED

- PU, green
- Ø = 5 mm
- Length 550 mm

APPLICATION

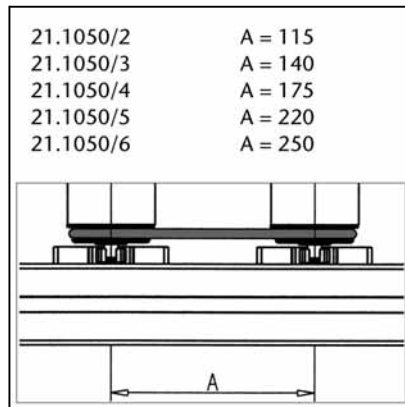
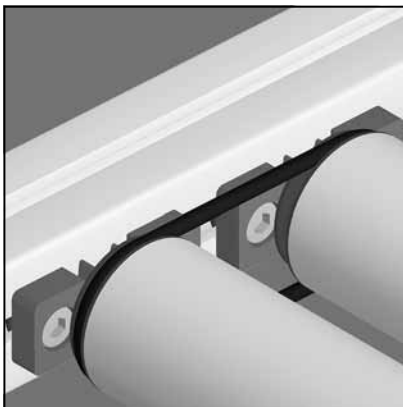
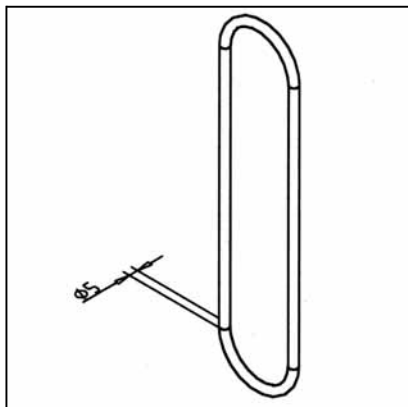
- Drive of transport rollers via groove in bearing assembly

ASSEMBLY

- Strip driving belt over driving shaft
- Lay driving belt in groove of transport
- Bind rollers at insufficient places with driving belt NBR Part N° 21.1050/1 to Part N° 21.1050/6

DRIVING BELT NBR

Part. N 21.1050/1



21.1050/2	A = 115
21.1050/3	A = 140
21.1050/4	A = 175
21.1050/5	A = 220
21.1050/6	A = 250

TECHN. DATA / ITEMS SUPPLIED

- NBR, black
- $\varnothing = 5 \text{ mm}$
- A = 80 mm
- For other length see selection table on the right

APPLICATION

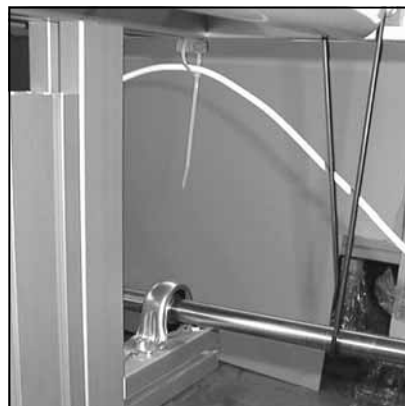
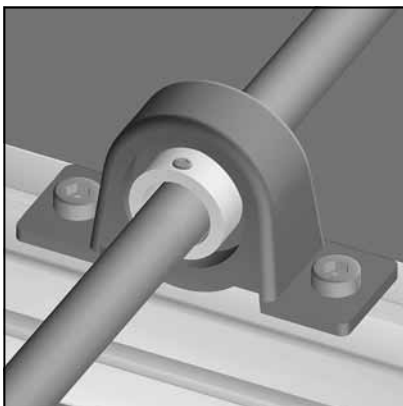
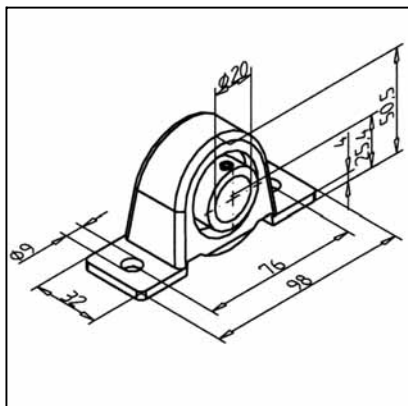
- Attachment of transport rollers at insufficient places via groove in bearing assembly from roller to roller

ASSEMBLY

- Insert belt in groove of the first roller and clip roller in the bearing
- Strip belt over second roller and clip in roller support

SUPPORT BEARING 20

Part. N 50.0128/0



TECHN. DATA / ITEMS SUPPLIED

- Pillow block, steel, zinc-plated
- Fixing kit
- Bore $\varnothing 20 \text{ mm}$
- stat. Co = 6350 N
- dyn. C = 13000 N
- Weight 0,19 kg

APPLICATION

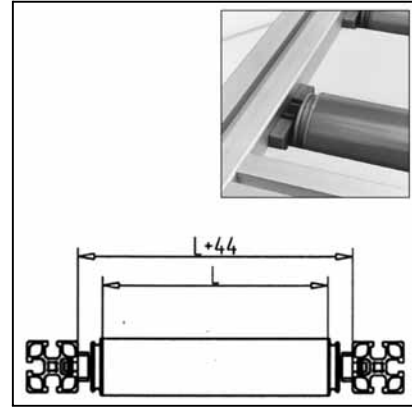
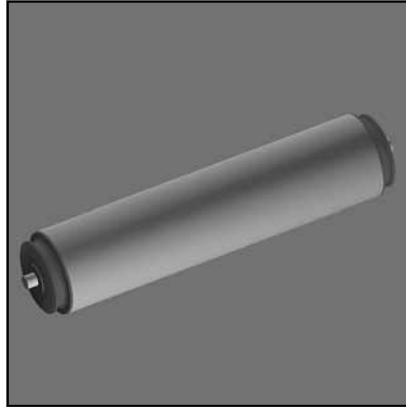
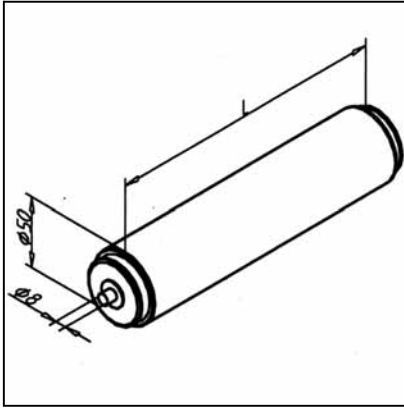
- Driving of roller-conveyors with driving belts

ASSEMBLY

- With fixing kit from supply schedule
- Lead shaft trough bearing and secure with set screw

TRANSPORT ROLLER PVC

Part. N 21.1717/0



TECHN. DATA / ITEMS SUPPLIED

- Completely mounted transport roller, PVC-tube

- Load max. (roller) 20 kg

- Inquiry compact circuit 180

APPLICATION

- Producing of roller conveyors with or without drive

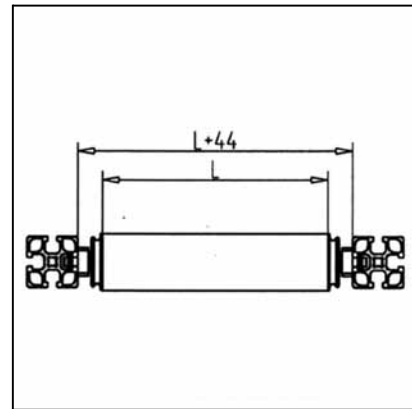
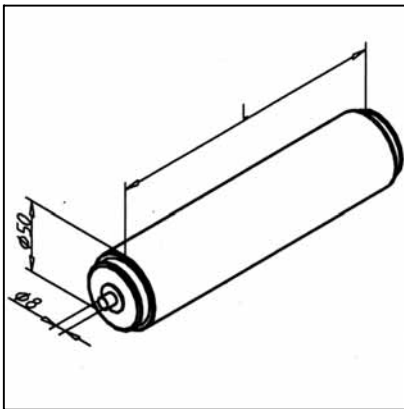
ASSEMBLY

- Clip in roller support

- As roller support we recommend door catch Part N° 21.1756/1

TRANSPORT ROLLER

Part. N 21.1716/0



TECHN. DATA / ITEMS SUPPLIED

- Completely mounted transport roller, Alu-tube

- Please indicate dimension L

APPLICATION

- Producing of roller conveyors with or without drive

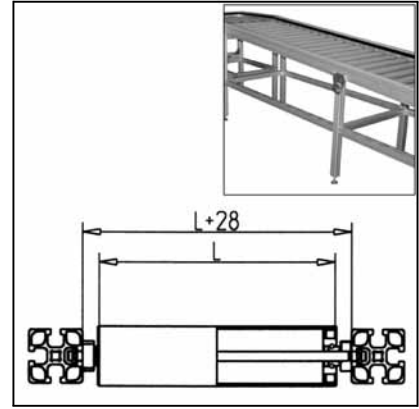
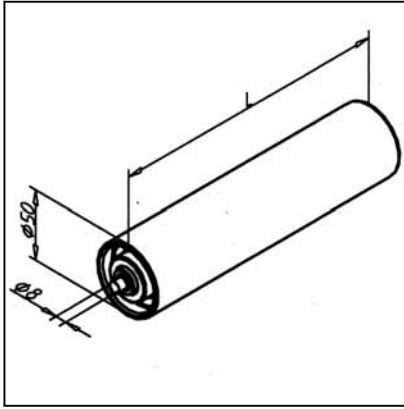
ASSEMBLY

- Clip in roller support

- As roller support we recommend door catch Part N° 21.1756/1

TRANSPORT ROLLER S PVC

Part. N 21.1719/0



TECHN. DATA / ITEMS SUPPLIED

- Completely mounted transport roller, PVC-tube
- With ball bearings and shaft
- Please indicate dimension L

APPLICATION

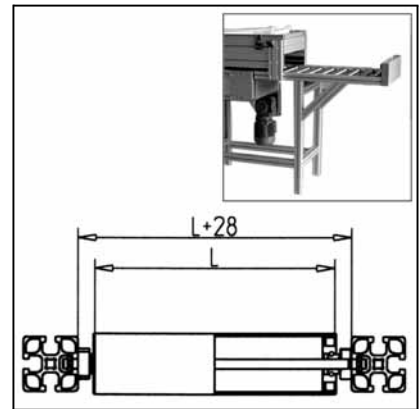
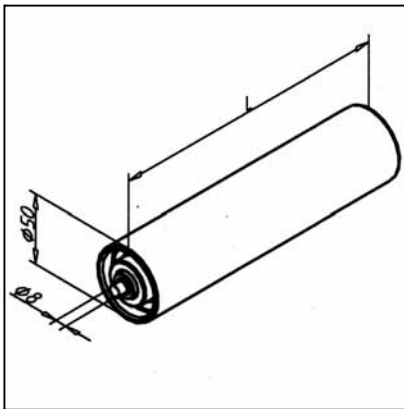
- Producing of roller conveyors without drive

ASSEMBLY

- Clip in roller support
- As roller support we recommend door catch Part N° 21.1756/1

TRANSPORT ROLLER S AL

Part. N 21.1718/0



TECHN. DATA / ITEMS SUPPLIED

- Completely mounted transport roller, Alu-tube
- With ball bearings and shaft
- Please indicate dimension L

APPLICATION

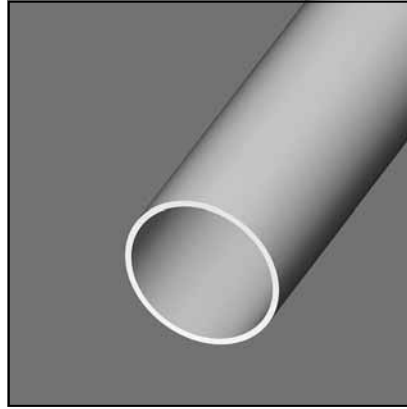
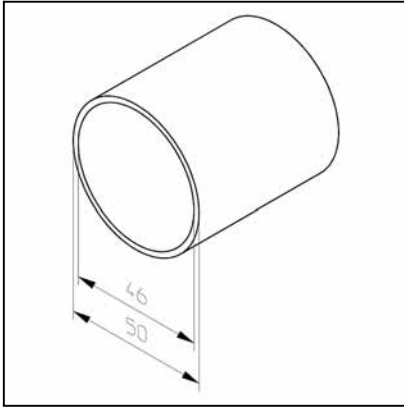
- Producing of roller conveyors without drive

ASSEMBLY

- Clip in roller support
- As roller support we recommend door catch Part N° 21.1756/1

TUBE AL 50 X 2

Part. N 20.1041/0



TECHN. DATA / ITEMS SUPPLIED

- AlMgSi 0,5 F22, natural

- Recommended tube length:
max. 1000 mm

- Weight 0,82 kg/m

- Length 6 m

- **Please indicate desired tube length**

APPLICATION

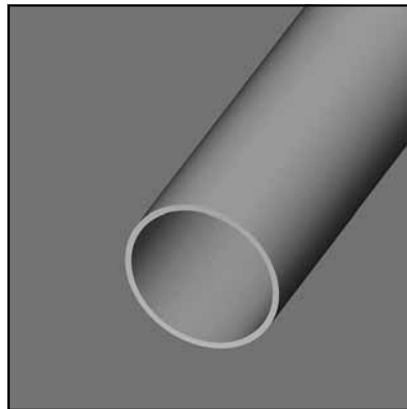
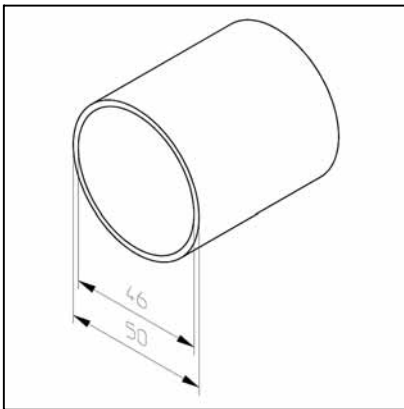
- Transport rollers at any length for driven or non-driven roller conveyors

ASSEMBLY

- Use bearing assembly S Part N° 21.1722/0 or bearing assembly for transport roller Part N° 21.1056/0

TUBE PVC 50 X 2

Part. N 20.1050/0



TECHN. DATA / ITEMS SUPPLIED

- PVC, blue

- Recommended tube length:
max. 1000 mm

- Weight 0,42 kg

- Length 3 m

- **Please indicate desired tube length**

APPLICATION

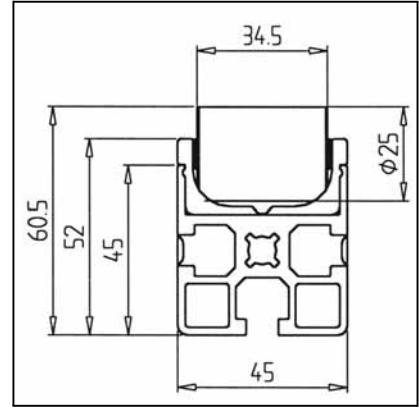
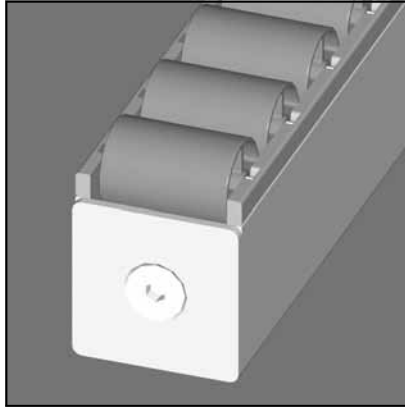
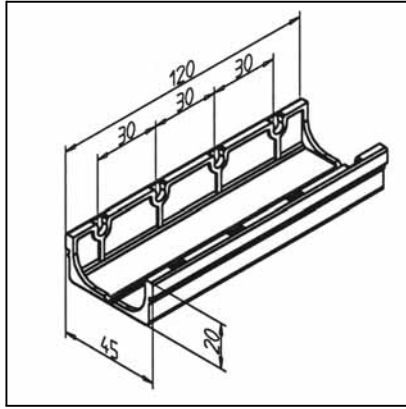
- Transport rollers at any length for driven or non-driven roller conveyors

ASSEMBLY

- Use bearing assembly S Part N° 21.1722/0 or bearing assembly for transport roller Part N° 21.1056/0

PULLEY CARRIER 45 X 45 R

Part. N 21.1700/0



TECHN. DATA / ITEMS SUPPLIED

- ABS, grey RAL 7012	
- Weight	0,02 kg
- Length	120 mm

APPLICATION

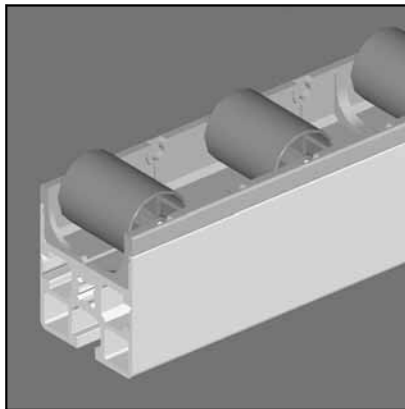
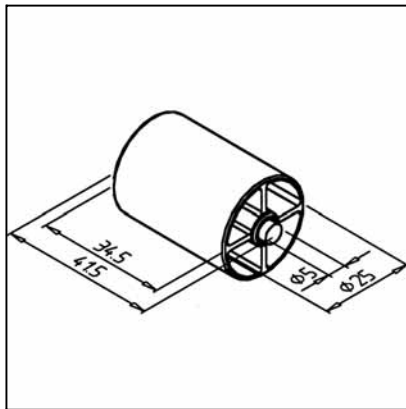
- Assembly of pulley D 25 Part N° 21.1701/0

ASSEMBLY

- Press onto profile
- Clip pulleys into pulley carrier
- Secure pulley carrier with **end cap 45x45 AL Part. N° 22.1067/2** and **countersunk screw M8 x 16, Part. N° 21.1513/0** on the end of profile

PULLEY D 25

Part. N 21.1701/0



TECHN. DATA / ITEMS SUPPLIED

- ABS, blue	
- Axe Ø 5, stainless steel	
- Weight	0,01 kg
- Load max/roller	20 N

APPLICATION

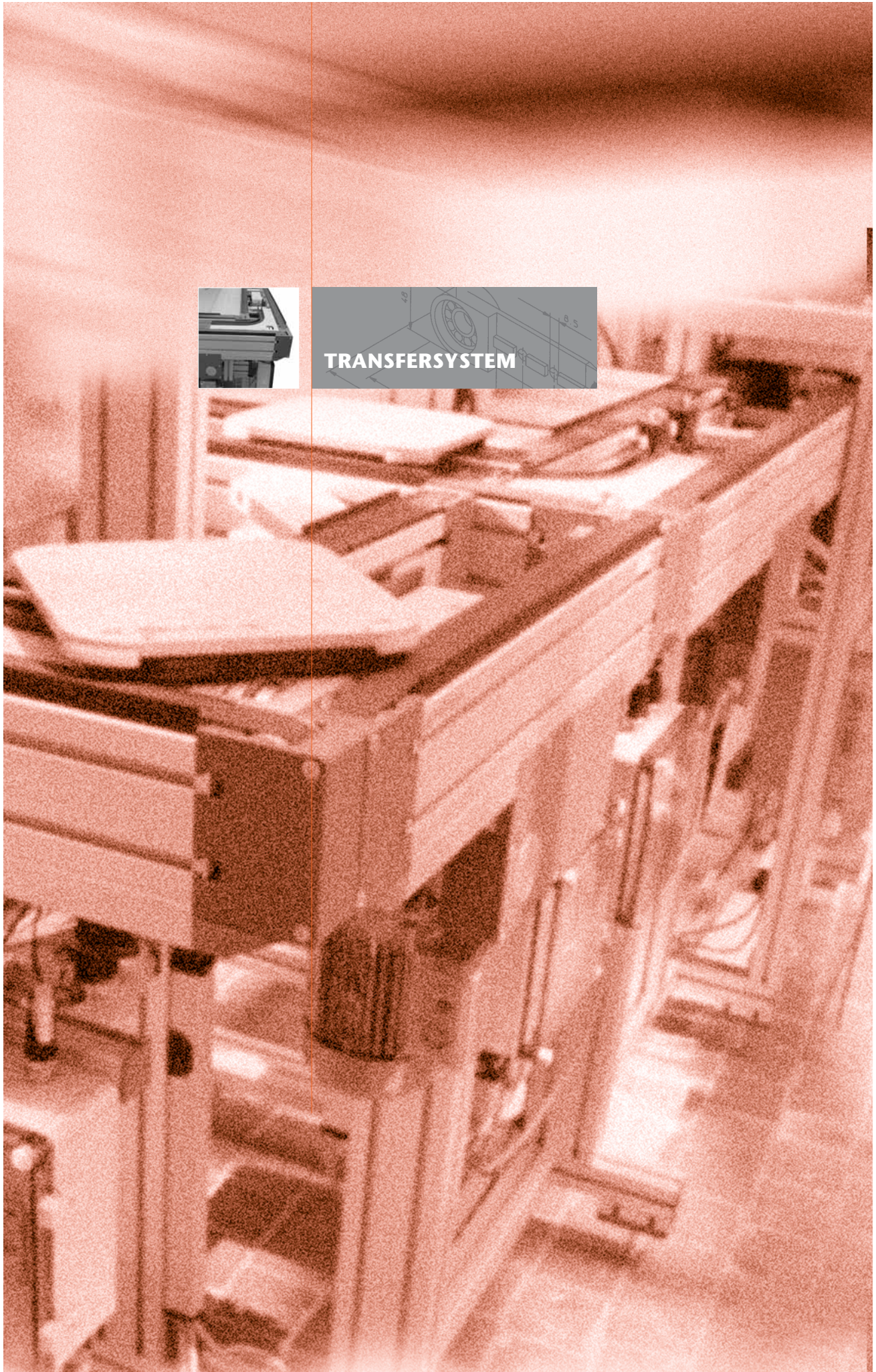
- Assembly of small roller conveyors in connection with profile 45 x 45 R

ASSEMBLY

- Clip pulleys into pulley carrier

EXAMPLE - ROLLER CONVEYOR





TRANSFERSYSTEM TSG

Modular - Economical - Sturdy

Flexibility in production is gaining more and more importance. Fast and easy adaptation to product development and changed market demands are a decisive factor for success. The TSG transfer system is in keeping with this trend. All the advantages of our construction kit system for machine construction and the precision of our linear system are used in this system. The TSG is completely compatible with the tried and tested MiniTec profile system with workstations, protective devices, conveyor systems, handling equipment, etc. Manual stations and complex automated processes can be achieved cost-effectively with the TSG transfer system.

The TSG consists of standardized modules that can be combined in any number of ways to create tailor-made systems.

Robust 25 T5 timing belts with steel reinforcement allow continuous use without the need for re-tensioning. The TSG transfer systems can be supplied as modules for assembly by the customer or as ready-to-use systems including commissioning. We can also take care of the design and layout of the system in accordance with customer specifications. For simple requirements, the checklists in the appendix to this catalog can be used.

Technical Data:

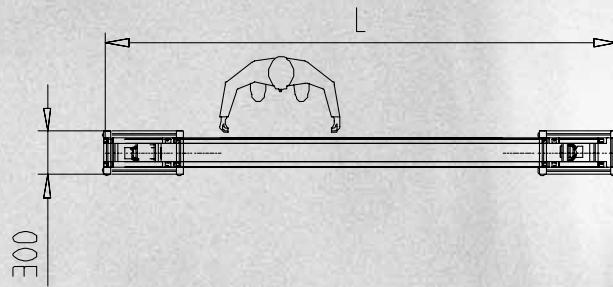
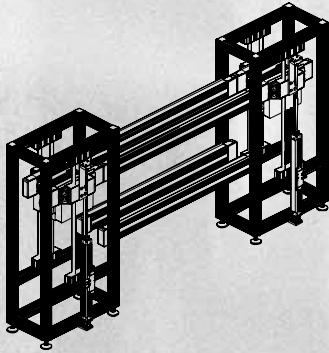
Speed:	11 m/min
Motor nominal power:	120 W
Nominal voltage without frequency converter:	400 V/50 Hz
Nominal voltage with frequency converter:	230 V/50 Hz
Nominal current:	0,29 A
Drive speed:	64 1/min
Drive torque:	13 Nm
Permissible load of conveyor section:	1710 N
Ambient temperature:	0-50° C

Other driving speeds are possible (5,5 - 21 m/min) .

Consequently the max loads are between 890 N and 3000 N.

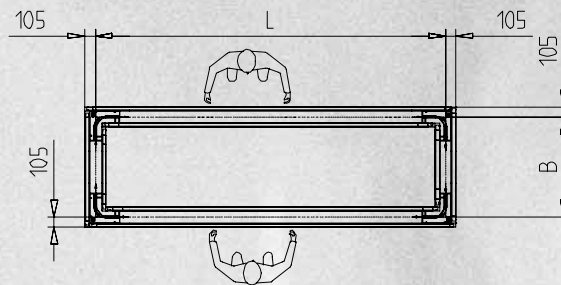
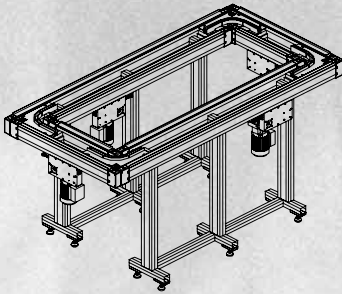
SYSTEM CONCEPTS

Vertical circuit



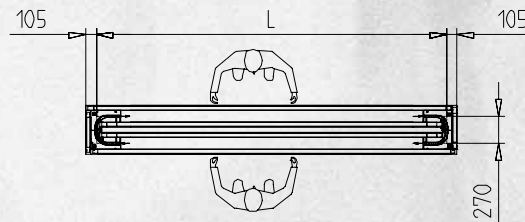
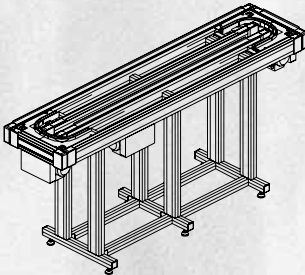
Advantage: low space requirement

Basic loop 90°



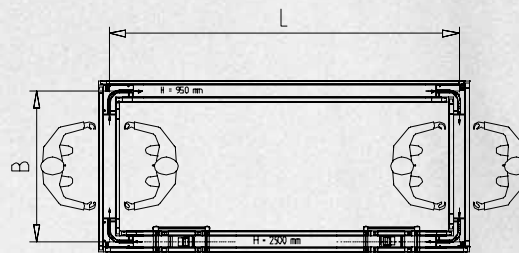
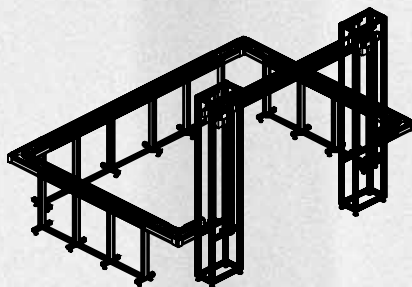
Advantage: low investment, simple assembly, minimal control requirements

Compact circuit 180°



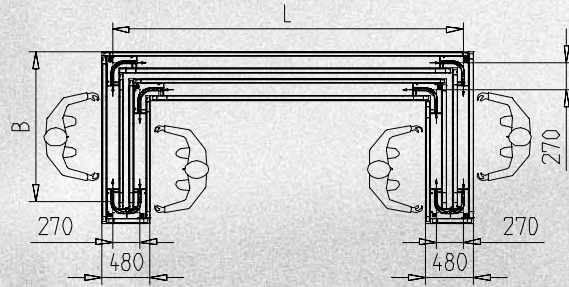
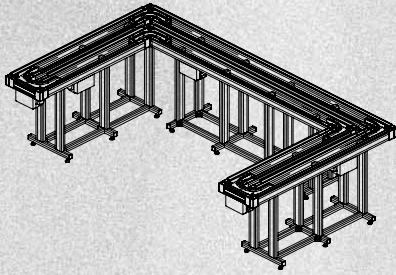
Advantage: low space requirement and investment, simple assembly, minimal control requirements

U-circuit with lifting station



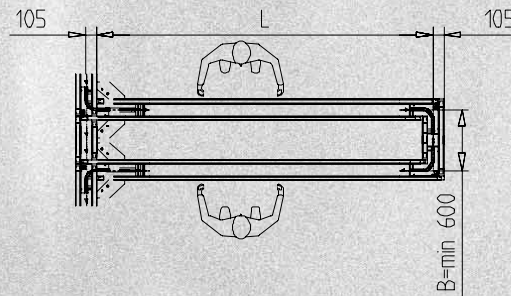
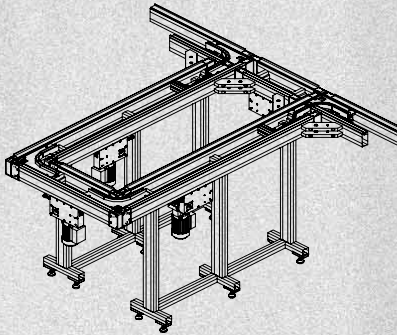
Advantage: very accessible, optimal use of surface area

Double-U circuit



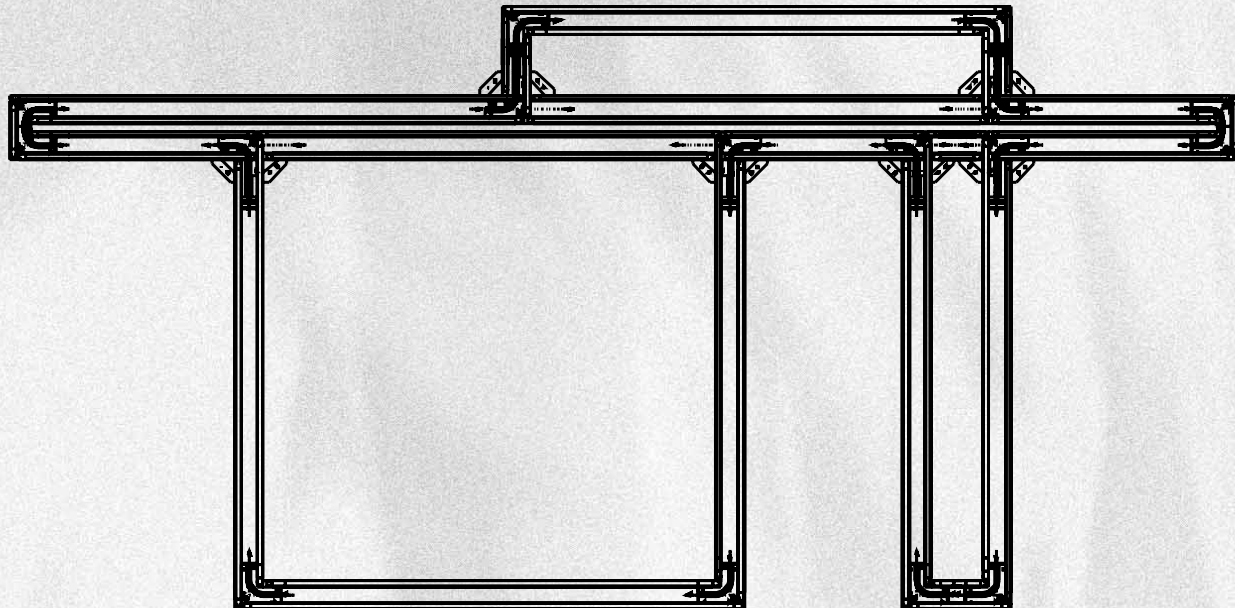
Advantage: optimal use of area, accessibility to entire conveyor line

Shunt



Advantage: Diversion from main cycle, great flexibility for adaptation and capacity

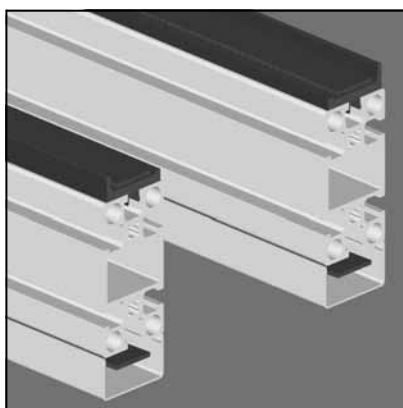
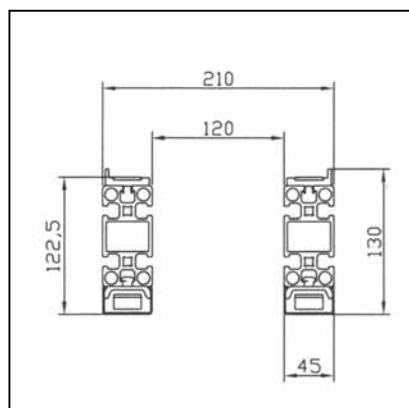
Combination of different variants



Advantage: optimal use of space, accessibility to entire conveyor line

BASIC LINE VARIABLE

Part. N 43.0020/0



TECHN. DATA / ITEMS SUPPLIED

- Profile 45 x 90. anodized, E6/EV1 with 4 integrated pneumatic lines
- Slide strip, PE, black, highly abrasionresistant, Lmax: 4 m
- Cover profile for belt with clip attachment
- Track width: 200 mm
- Line length according to specification
- Ix 112,823 cm³
- Iy 28,526 cm³
- Weight 3,667 kg/m
- Line length min. 270 mm
- Line length max. 4000 mm

APPLICATIONS

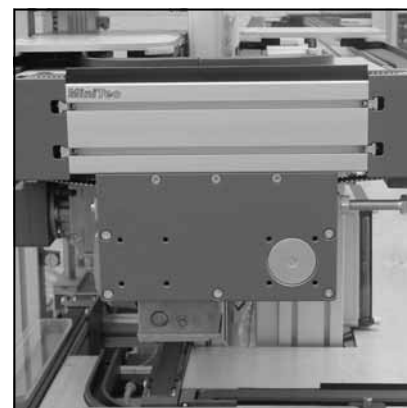
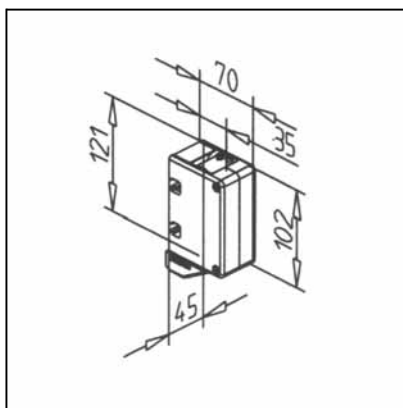
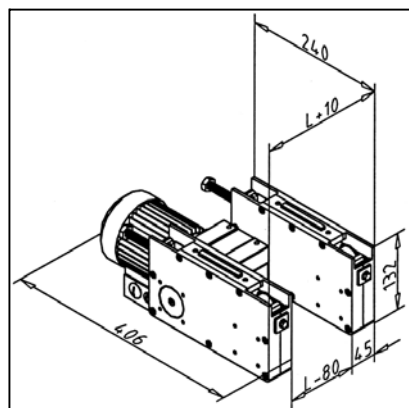
- Use in all TSG transfer systems
- Max. line load depends on drive concept (see table "Technical Data")
- If the sum of the Work-Piece-tray weights exceeds this value, the line must be divided into several driven units

ASSEMBLY

- Bolt basic line with supports
- After attachment of drive unit, diversions and timing belts, clip cover profile onto underside of profile
- Free profile grooves for attaching stoppers, sensors, switches, ect. With standard screws
- Base frames, 90 units and workpiece tray on request

BASIC MODULE VARIABLE

Part. N 43.0011/0



TECHN. DATA / ITEMS SUPPLIED

- Drive unit with integrated belt tensioners comprising 2 belt drives with connecting shaft and 1 motor (standard: 120 W, Part N° 43.1201/0)
- 4 timing belt reverse units for 25 T5 timing belt

APPLICATIONS

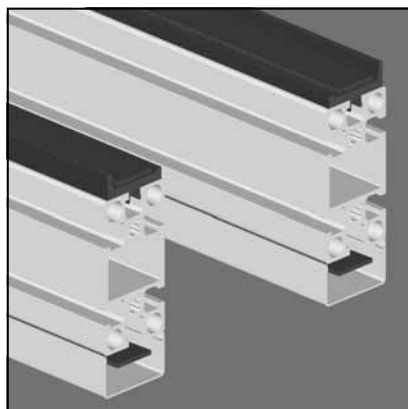
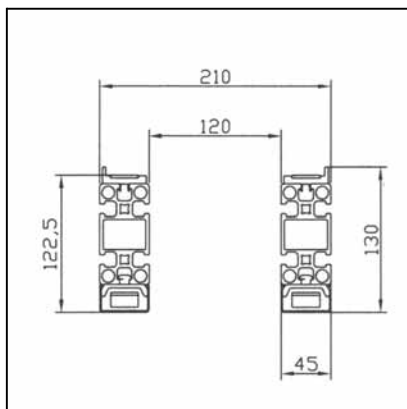
- All TSG transfer systems with 25 T5 timing belt
- Width according to dimension L of basic line

ASSEMBLY

- Remove drive unit cover
- Screw drive unit securely with attachment set centrally on the bottom of the basic line
- Remove covers from reverse units
- Attach reverse units with profile connectors to ends of the basic line
- Insert timing belt
- Install cover of drive units and reverse units
- Tighten timing belt
- Simple re-tightening of timing belt at drive unit, without prior disassembly, also during operation
- Base frames, 90 units and workpiece tray on request

BASIC LINE 200

Part. N 43.0020/0



TECHN. DATA / ITEMS SUPPLIED

- Profile 45 x 90. anodized, E6/EV1 with 4 integrated pneumatic lines
- Slide strip, PE, black, highly abrasionresistant, Lmax: 4 m
- Cover profile for belt with clip attachment
- Track width: 200 mm
- Line length according to specification
- $l_x = 112,823 \text{ cm}^3$
- $l_y = 28,526 \text{ cm}^3$
- Weight 3,667 kg/m
- Line length min. 270 mm
- Line length max. 4000 mm

APPLICATIONS

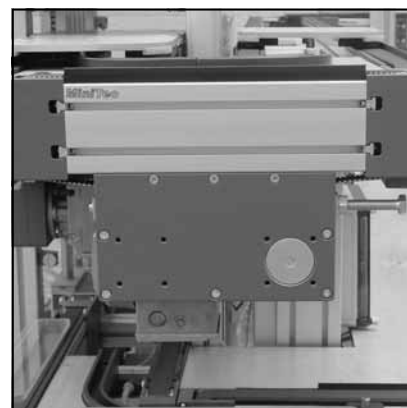
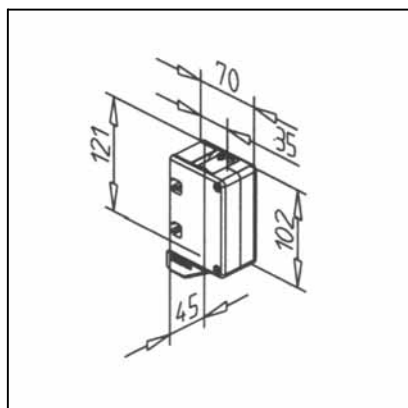
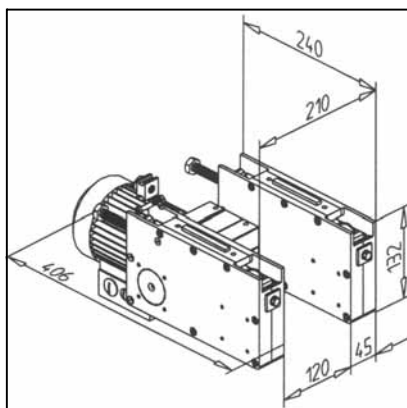
- Use in all TSG transfer systems
- Max. line load depends on drive concept (see table "Technical Data")
- If the sum of the Work-Piece-tray weights exceeds this value, the line must be divided into several driven units

ASSEMBLY

- Bolt basic line with supports
- After attachment of drive unit, diversions and timing belts, clip cover profile onto underside of profile
- Free profile grooves for attaching stoppers, sensors, switches, ect. With standard screws

BASIC MODULE 200

Part. N 43.0010/0



TECHN. DATA / ITEMS SUPPLIED

- Drive unit with integrated belt tensioners comprising 2 belt drives with connecting shaft and 1 motor (standard: 120 W, Part N° 43.1201/0)
- 4 timing belt reverse units for 25 T5 timing belt

APPLICATIONS

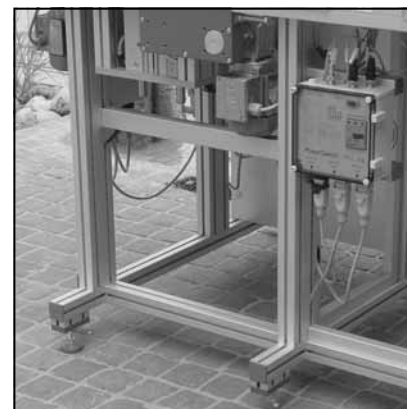
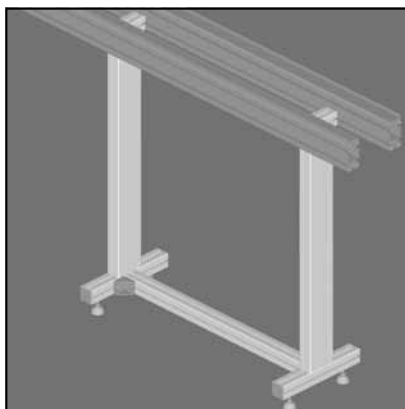
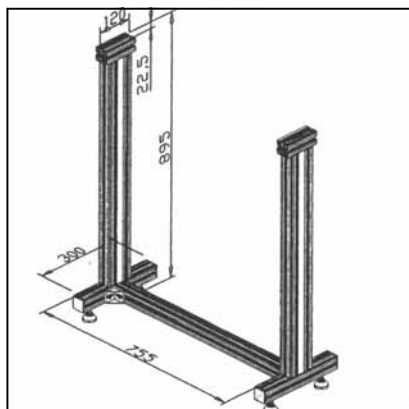
- All TSG transfer systems with 25 T5 timing belt

ASSEMBLY

- Remove drive unit cover
- Screw drive unit securely with attachment set centrally on the bottom of the basic line
- Remove covers from reverse units
- Attach reverse units with profile connectors to ends of the basic line
- Insert timing belt
- Install cover of drive units and reverse units
- Tighten timing belt
- Simple re-tightening of timing belt at drive unit, without prior disassembly, also during operation

BASIC BASEFRAME 200

Part. N 43.0030/0



TECHN. DATA / ITEMS SUPPLIED

- Profile 45 x 45 F, completely assembled
- with Fixing kit of connection with basic line
- 4 height-adjustable feet
- Create longer lines with additional addon supports
- Height 895 mm for standard working height of 950 mm
- Length 755 mm for line length of 1000 mm

APPLICATIONS

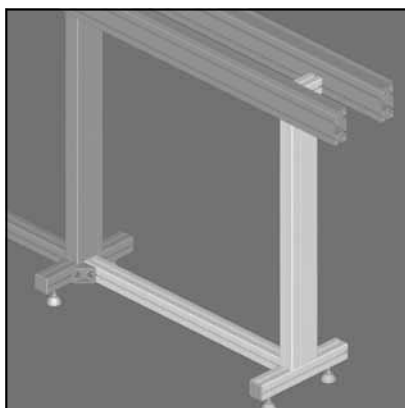
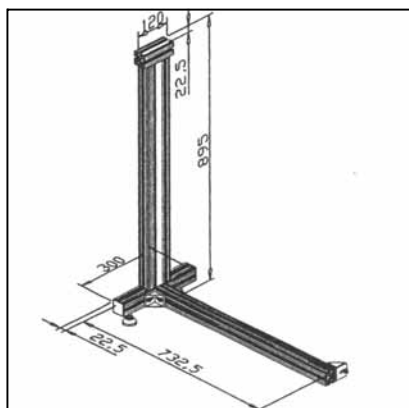
- Substructure for transfer systems with standard working height of 950 mm
- Suitable for track width 200

ASSEMBLY

- Assemble transverse profile with mounting angles at lower profile groove between basic line
- Secure to floor with angles and floor anchors from our profile system catalog

EXTENSION BASEFRAME 200

Part. N 43.0040/0



TECHN. DATA / ITEMS SUPPLIED

- Profile 45 x 45 F, completely assembled
- with Fixing kit of connection with basic line and base support
- 2 adjustable feet
- Height 895 mm for standard working height of 950 mm

APPLICATIONS

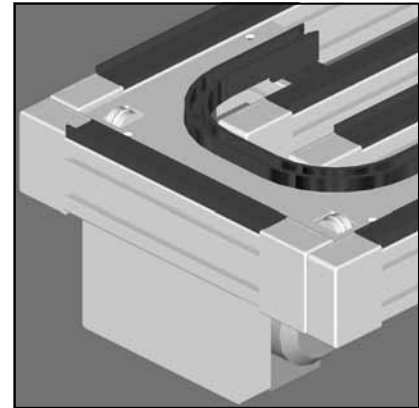
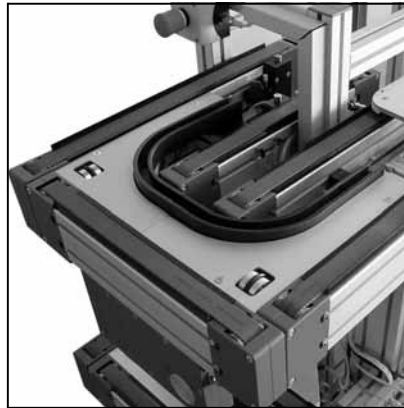
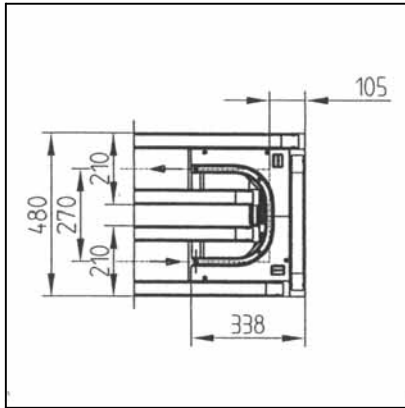
- Substructure for transfer systems with standard working height of 950 mm
- Suitable for track width 200

ASSEMBLY

- Create lengthwise connection with base support
- Assemble transverse profile L= 120 mm with attachment angles at lower profile groove between basic line
- Secure to floor with angles and floor anchors from our profile system catalog

CURVE 180 200

Part. N 43.0061/0



TECHN. DATA / ITEMS SUPPLIED

- 1 transverse line with drive module, motor assembled
- Corners 180 with curvilinear guide of PE
- 2-part cover
- Friction wheel drive roller
- Fixing kit

APPLICATIONS

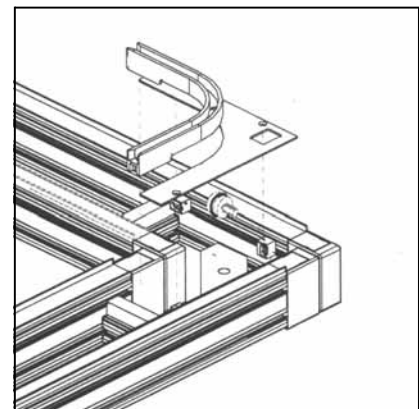
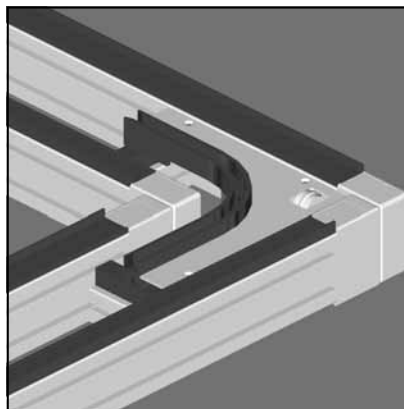
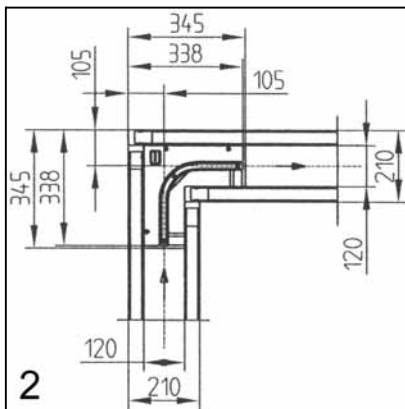
- No separation before the curve required
- Manufacture of compact transfer systems, shunts and combined system concepts
- Suitable for track width 200

ASSEMBLY

- 1) Curve 180 left Part N° 43.0061/0
- 2) Curve 180 right Part N° 43.0060/0
- Install friction wheel at timing belt reverse unit (on the feed side in transport direction)
- Assemble corner 180 with curvilinear guide
- Install transverse line with assembled drive module
- Screw on cover

CURVE 90 200

Part. N 43.0051/0



TECHN. DATA / ITEMS SUPPLIED

- 2 crossbars from profile 45 x45
- Friction wheel with drive roller
- Curvilinear guide made of PE
- Cover , AL
- Fixing kit

APPLICATIONS

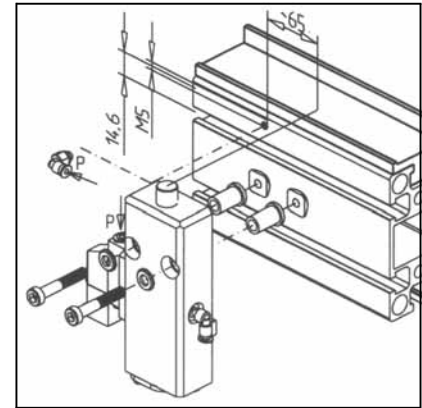
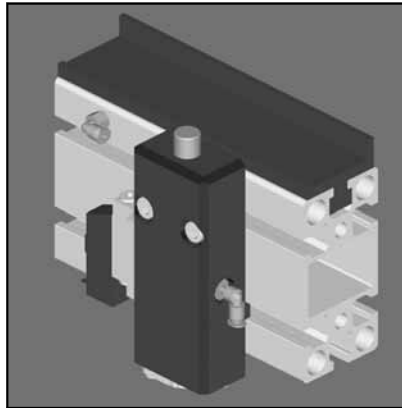
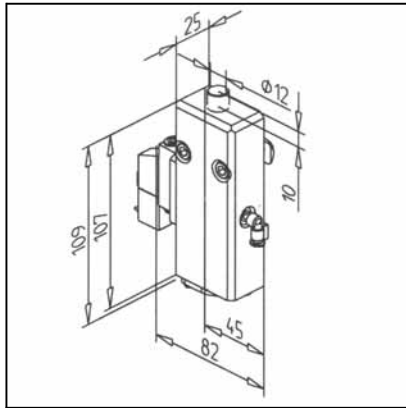
- No separation before the curve required
- Manufacture of compact transfer systems, shunts and combined system concepts
- Suitable for track width 200

ASSEMBLY

- 1) Curve 90 left Part N° 43.0051/0
- 2) Curve 90 right Part N° 43.0050/0
- Install friction wheel at timing belt reverse unit (on the feed side in transport direction)
- Assemble corners with curvilinear guide
- Screw on cover

STOPPER

Part. N 43.1510/0



TECHN. DATA / ITEMS SUPPLIED

- Pneumatically actuated
- PE housing, black
- Stop pins \varnothing 12 mm of tempered stainless steel
- Cylinder and valves integrated
- Prepared for connection to internal air supply
- With fixing kit

APPLICATIONS

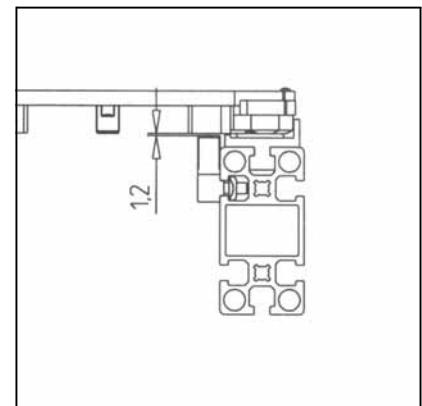
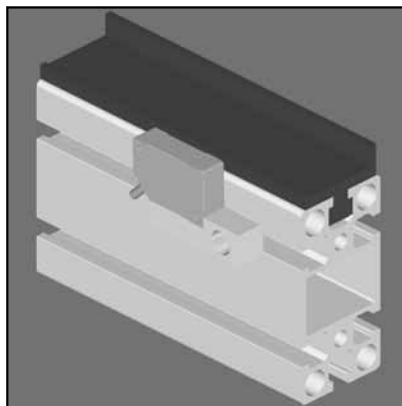
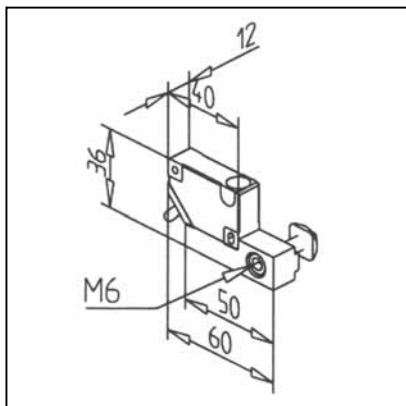
- Separation of Work piece trays before infeed and discharge, lift or lift stations
- Control of priorities in WT flow

ASSEMBLY

- Screw on to inside of transport line at upper profile groove
- Make connection to air supply
- Position can be adjusted horizontally
- Separation of tray's by combination of 2 stoppers

PROXIWITHY SWITCH

Part. N 43.0090/0



TECHN. DATA / ITEMS SUPPLIED

- PNP "closer"
- Switching distance 4 mm
- Cubic, plastic PBTp
- Operating voltage (V) Okt 36 DC
- Continuous current load 250 mA
- Fuse type IP 67
- With fixing kit

APPLICATIONS

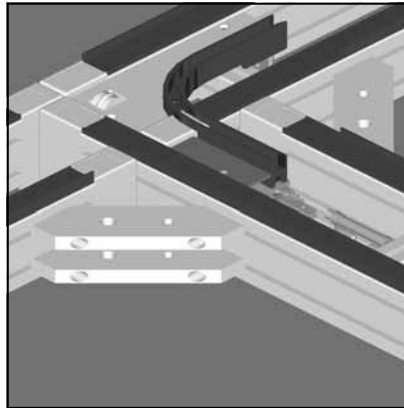
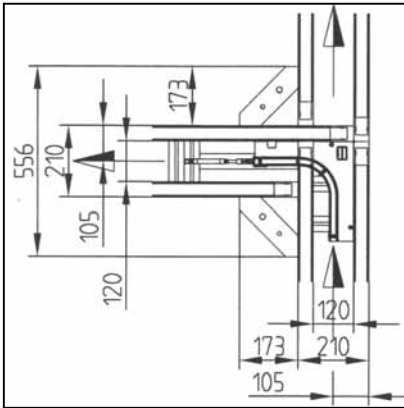
- Switching operations
- Control of system states bevor lift stations and stoppers

ASSEMBLY

- Screw on to inside of transport line at upper profile groove
- Position can be adjusted horizontally

SWITCH UNIT OUT 200

Part. N 43.0073/0



TECHN. DATA / ITEMS SUPPLIED

- Pneumatically actuated
- Carrier profile 45 x 45
- WT-guide, PE
- Cover AL
- Friction wheel
- 2 Pneumatic cylinders
- 4 corners 180
- Fixing kit

APPLICATIONS

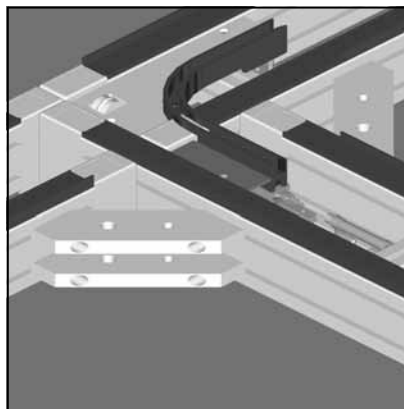
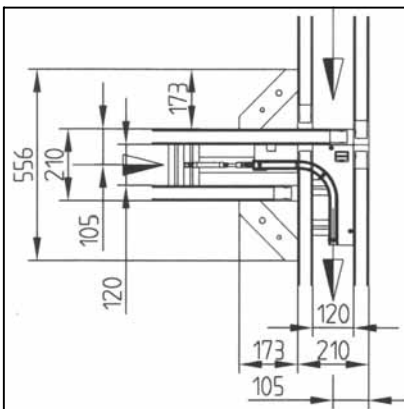
- Divert WTs from basic circuit to secondary lines
- Separation of work procedures from machine cycle
- Inserting further processing stations
- Forming storage units
- When discharge is active, WT is diverted from the line by 90° into a transverse transport. The orientation of the WT is not changed
- If the chute is inactive, the WT remains in the basic circuit
- Status query of the chute via the sensor
- suitable for track width 200

ASSEMBLY

- 1) Switch unit left Part N° 43.0073/0
- 2) Switch unit right Part N° 43.0072/0
- Install friction wheel on belt return unit (in transport direction, on the longer side of the line)
- Install pneumatic cylinder
- Attach curve guide
- Screw on cover
- Connect transverse transport with corners and aling
- Connect pneumatic cylinder to compressed air supply

SWITCH UNIT IN 200

Part. N 43.0071/0



TECHN. DATA / ITEMS SUPPLIED

- Pneumatically actuated
- Carrier profile 45 x 45
- WT-guide 2-piece, PE
- Cover PE
- Friction wheel with drive roller
- 2 Pneumatic cylinders
- 4 corners 180
- Fixing kit

APPLICATIONS

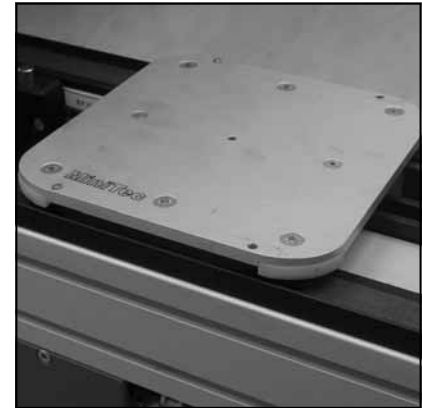
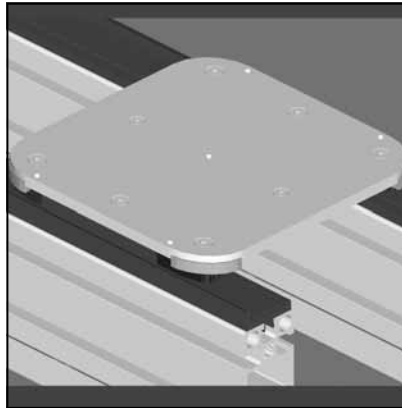
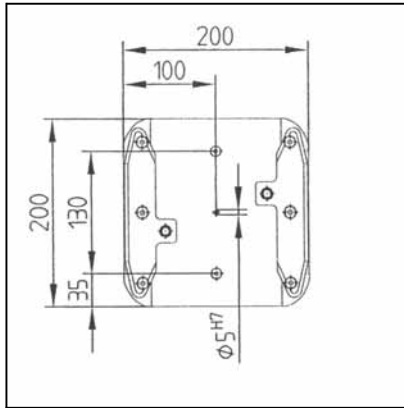
- Feed WHs from secondary lines back into the basic circuit.
- Separation of work procedures from machine cycle
- Inserting further processing stations
- Forming storage units
- If infeed is active, the WH is diverted from the secondary line to the basic circuit
- The orientation of the WH is not changed.
- Status query of the chute via the sensor
- suitable for track width 200

ASSEMBLY

- 1) Switch unit left Part N° 43.0071/0
- 2) Switch unit right Part N° 43.0070/0
- Install friction wheel on belt return unit (in transport direction, on the longer side of the line)
- Install pneumatic cylinder
- Attach curve guide
- Screw on cover
- Connect transverse transport with corners and aling
- Connect pneumatic cylinder to compressed air supply

WORKPIECE TRAY 200

Part. N 43.1000/0



TECHN. DATA / ITEMS SUPPLIED

- Carrier plate Al, progressed on all sides and anodized with centering hole 5H7
- 4 positioning pins, st
- Shoes of highly abrasion-resistant PE, with integrated stop for stopper
- 2 damping pins, st, for proximity
- Size 200 x 200 mm
- Max. Load 100 N
- Weight 1 kg

APPLICATIONS

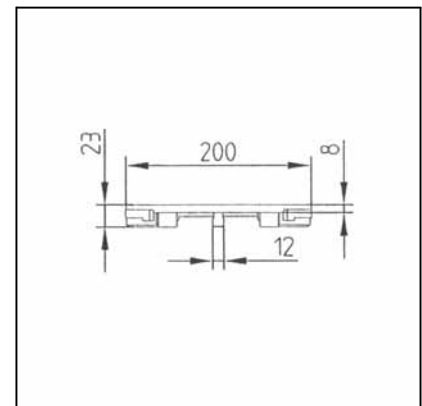
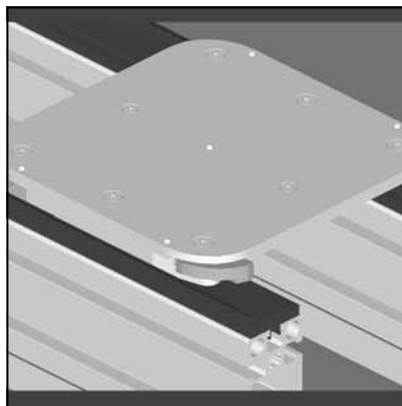
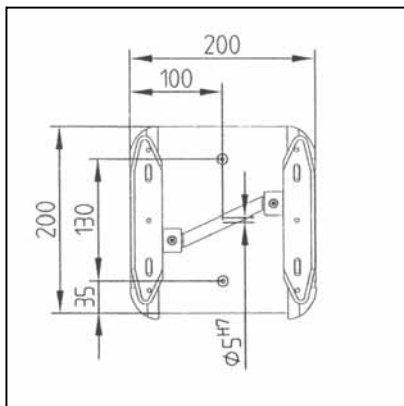
- Tray for:
- Workpieces
- Attachments
- Jigs

ASSEMBLY

- Standard-WTs are delivered without holder holes
- Attachment holes for workpieces, mechanisms, and identification systems are created according to customer specifications

WORKPIECE TRAY HEAVY-DUTY

Part. N 43.1050/0



TECHN. DATA / ITEMS SUPPLIED

- Carrier plate Al, progressed on all sides and anodized with centering hole 5H7
- 4 positioning pins, st
- Shoes of highly abrasion-resistant AL
- 2 damping pins, st, for proximity switch
- Size 200 x 200 mm
- Max. Load 300 N
- Weight 1,5 kg

APPLICATIONS

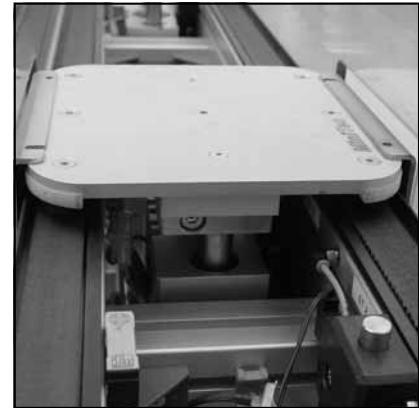
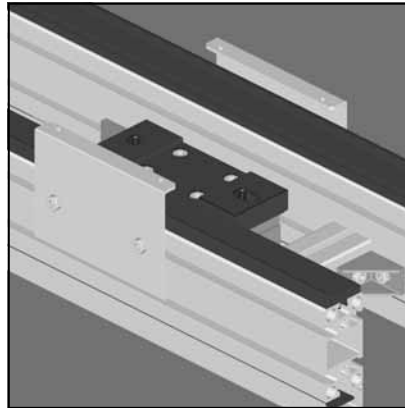
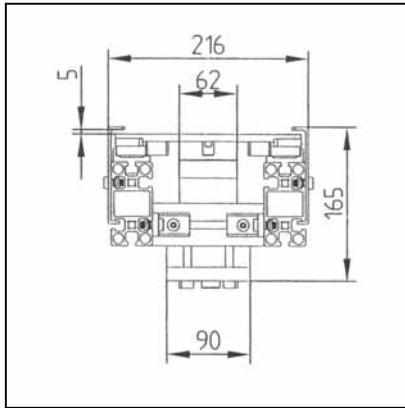
- Holding workpieces, jigs, identification, and data storage systems
- The stopper corners are connected mechanically. Under the influence of horizontal load in jam mode, the WTH is lifted and rolled onto 4 bearings. The resulting friction is reduced to a minimum, reducing the load and wear on the stopper, belt, and drive

ASSEMBLY

- Standard-WTs are delivered without holder holes
- Attachment holes for workpieces, mechanisms, and identification systems are created according to customer specifications

POSITIONER 200

Part. N 43.0110/0



TECHN. DATA / ITEMS SUPPLIED

- Ready-to-install module with doubledacting pneumatic cylinder and valve
- WT receptacle mounted
- 2 overhead grip strips, galvanized steel
- Load max. 1000 N
- Positioning precision $\pm 0,03$ mm
- Lift height belt 5 mm

APPLICATIONS

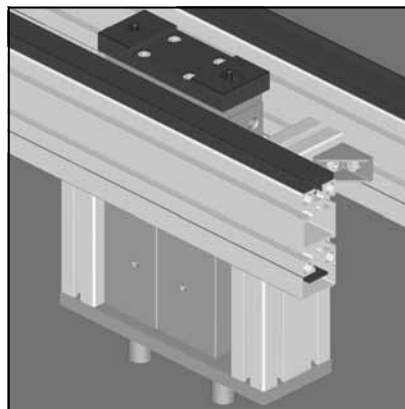
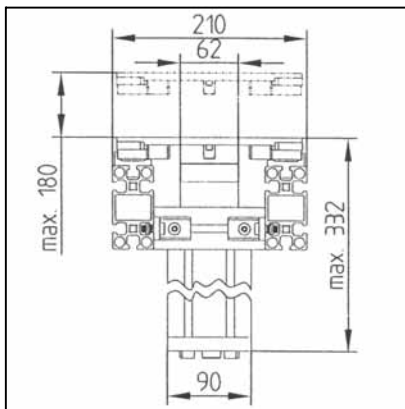
- Exact positioning of workpieces on the WT for processing or inspection

ASSEMBLY

- Attach lift unit to line profiles with included Fixing kit
- Screw overhead grip strips to outside of line, align exactly with positioner
- Make connection to internal compressed air supply
- Suitable stopper Art.-Nr. 43.1510/0 and proximity switch Art.-Nr. 43.0090/0

LIFT STATION 200

Part. N 43.0100/0



TECHN. DATA / ITEMS SUPPLIED

- Ready-to-install module with doubledacting pneumatic cylinder and valve
- WT receptacle mounted
- Lift height: Can be set from 5 mm to 180 mm above belt
- Load max. 1000 N

APPLICATIONS

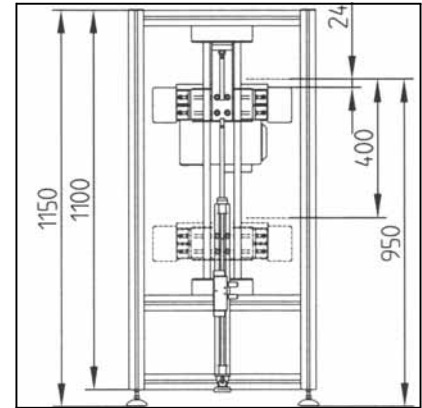
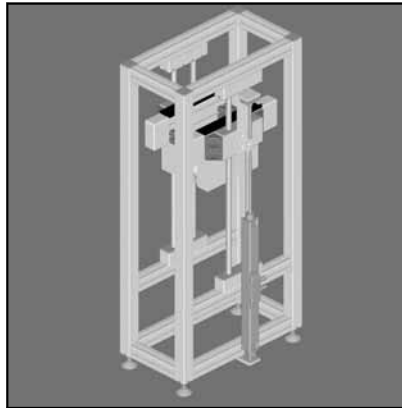
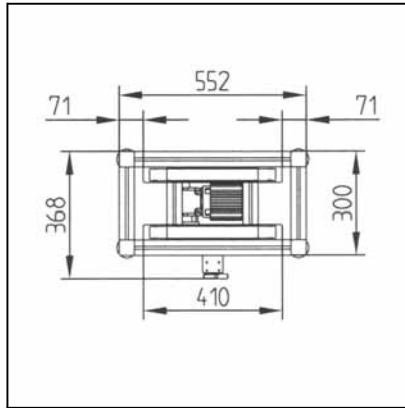
- Positioning of workpieces on the WT for processing or inspection

ASSEMBLY

- Attach lift station to line profiles with included Fixing kit
- Make connection to internal compressed air supply
- Suitable stopper Art.-Nr. 43.1510/0 and proximity switch Art.-Nr. 43.0090/0

ELEVATOR STATION 200

Part. N 43.0080/0



TECHN. DATA / ITEMS SUPPLIED

- Ready-to-install assembled module according to customer specification
- Frame structure profiles 45 x 45
- Driven double-track line installed on liftsled
- Move lift sled with double-acting pneumatic cylinder
- Stable guidance of the lift sleds with Ø 20 mm precision shafts and linear units LB series
- Lift height variable according to customer specification
- Different strokes and end heights available
- Load max. 480 N

APPLICATIONS

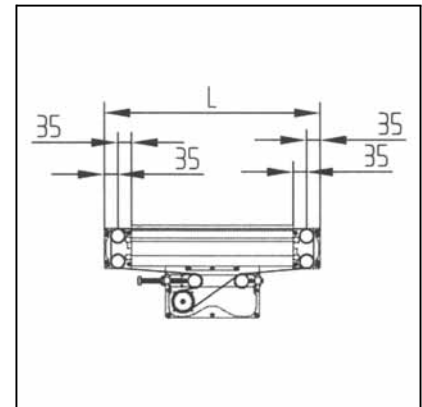
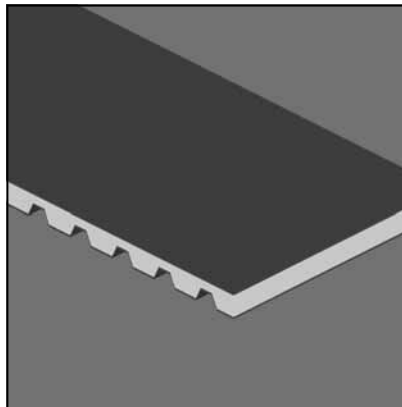
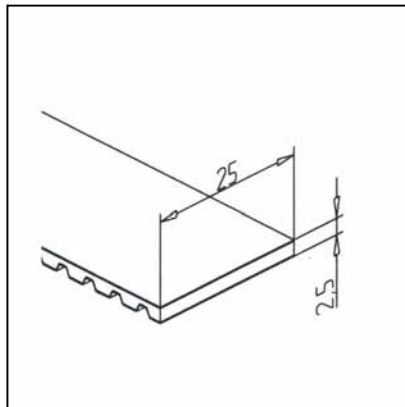
- Transfer of WT in assembly lines with transport levels arranged above on another
- Circuit with option to use the inner surface, circuit with access to both sides of the line

ASSEMBLY

- Attach lift station to line according to installation instructions
- Align lift station with transport levels
- Make connection to internal compressed air supply

TIMING BELT

Part. N 43.1411/0



TECHN. DATA / ITEMS SUPPLIED

- Endless belt, reinforced with steel insert
- Covered with plastic fabric on both sides to improve sliding characteristics and reduce friction
- Green
- Specify total length when ordering replacement parts

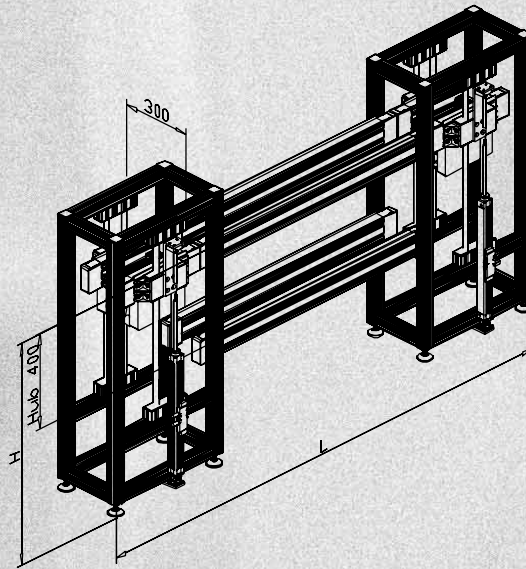
APPLICATIONS

- All TSG transfer systems
- Calculation formula for timing belt length:
- $L_{total} = (L - 70) \times 2 + 473$ mm, Round to 5 mm division

ASSEMBLY

- Unscrew belt tensioning screw on drive unit
- Remove lower belt cover (clip cover)
- Remove cover of drive unit and timing belt reverse units
- Insert belt
- Install cover and belt cover
- Tighten timing belt

INQUIRY VERTICAL CIRCUIT



Dimension L mm

Working height H (WT upper edge) mm

Numbers of stoppers Piece

Numbers of positioners Piece

Numbers of elevator stations Piece

Direction of transport Right Left

Speed m/min

Motor type A-D Yes No

Controller

Numbers of sensor systems Piece

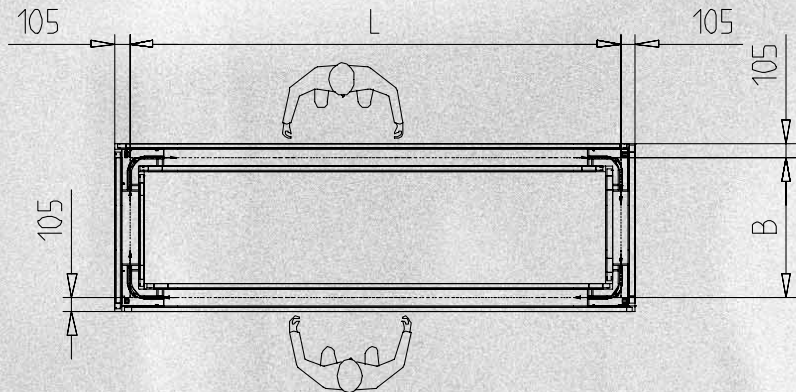
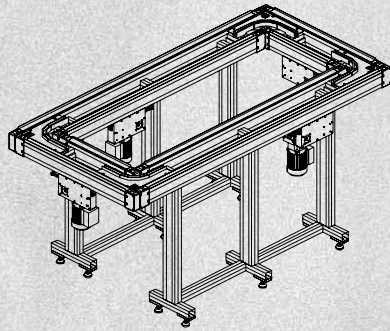
Company Please call me back

Name Please send me an offer

Phone no.

Fax no.

INQUIRY BASIC CIRCUIT 90°



Dimension L x B mm mm

Working height H (WT upper edge) mm

Numbers of stoppers Piece

Numbers of positioners Piece

Numbers of lifting stations Piece

Direction of transport Right Left

Speed m/min

Motor type A-D

Frequency converter Yes No

Controller

Numbers of sensor systems Piece

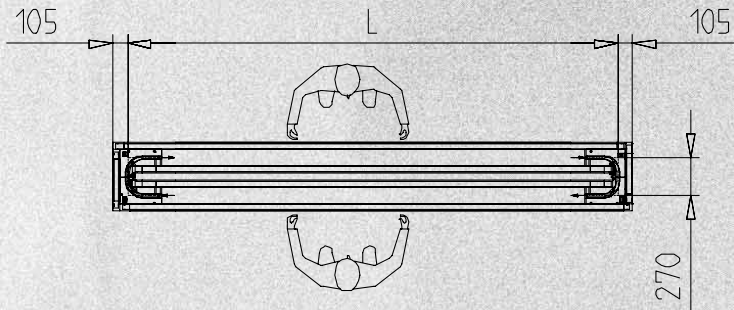
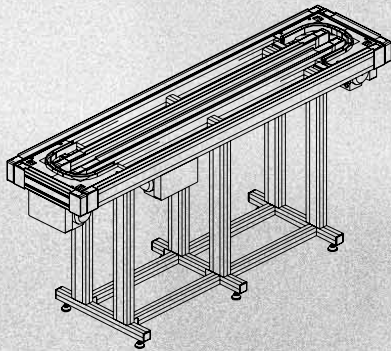
Company Please call me back

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Phone no.

Fax no.

INQUIRY COMPACT CIRCUIT 180°



Dimension L mm

Working height H (WT upper edge) mm

Numbers of stoppers Piece

Numbers of positioners Piece

Numbers of lifting stations Piece

Direction of transport Right Left

Speed m/min

Motor type A-D

Frequency converter Yes No

Controller

Numbers of sensor systems Piece

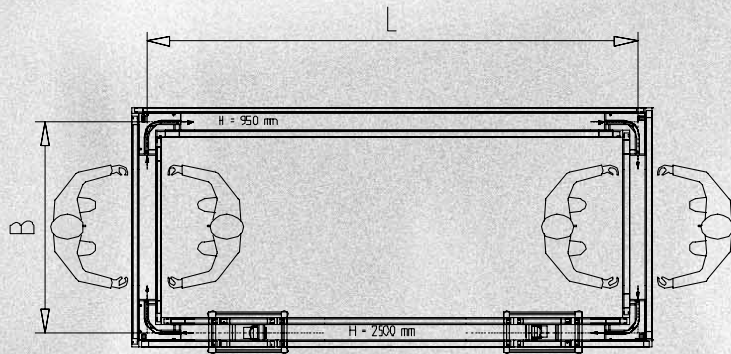
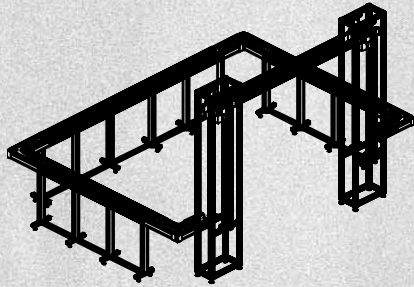
Company Please call me back

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Phone no.

Fax no.

INQUIRY U-CIRCUIT WITH ELEVATOR STATION



Dimension L x B mm mm

Working height H (WT upper edge) mm

Numbers of stoppers Piece

Numbers of positioners Piece

Numbers of lifting stations Piece

Direction of transport Right Left

Speed m/min

Motor type A-D

Frequency converter Yes No

Controller

Numbers of sensor systems Piece

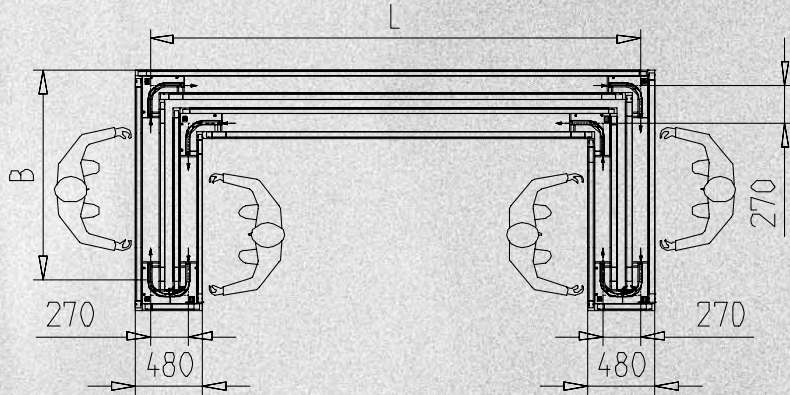
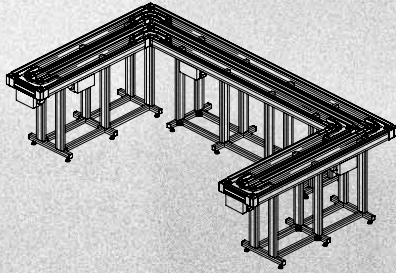
Company Please call me back

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INQUIRY DOUBLE-U CIRCUIT



Dimension L x B mm mm

Working height H (WT upper edge) mm

Numbers of stoppers Piece

Numbers of positioners Piece

Numbers of lifting stations Piece

Direction of transport Right Left

Speed m/min

Motor type A-D Yes No

Controller

Numbers of sensor systems Piece

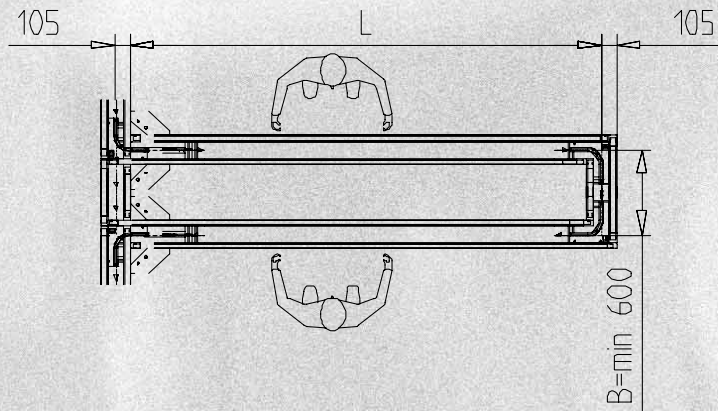
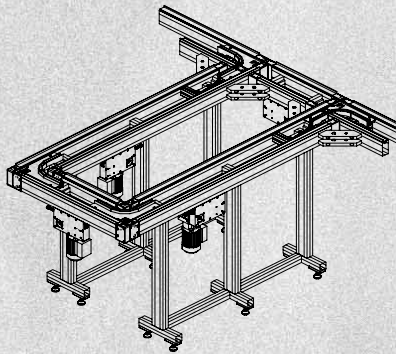
Company Please call me back

Name Please send me an offer

Phone no.

Fax no.

INQUIRY SHUNT



Dimension L x B mm mm

Working height H (WT upper edge) mm

Numbers of stoppers Piece

Numbers of positioners Piece

Numbers of lifting stations Piece

Direction of transport Right Left

Speed m/min

Motor type A-D (see page 2)

Frequency converter Yes No

Controller

Numbers of sensor systems Piece

Company Please call me back

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