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4

CONVEYORS



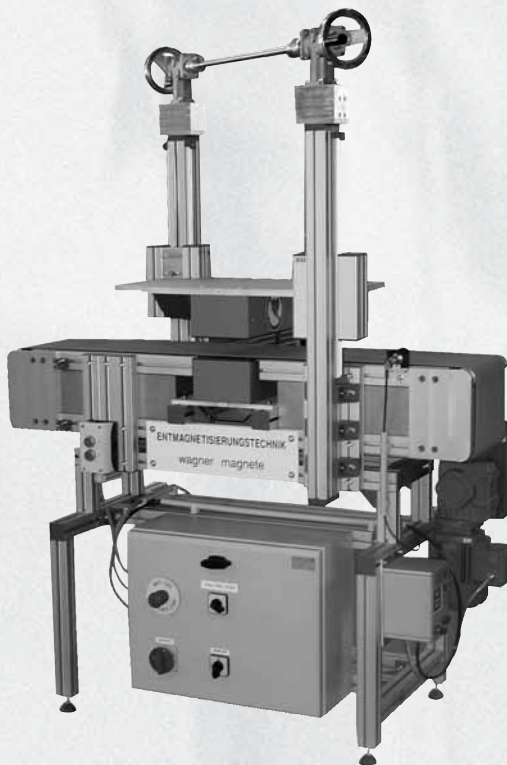
BELT CONVEYOR - EXAMPLES



Belt conveyor with
drive roller

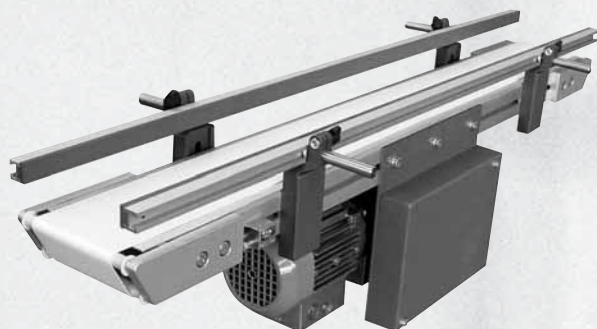


Belt conveyor angled



Special conveyor
with inbuilt demagnetizer

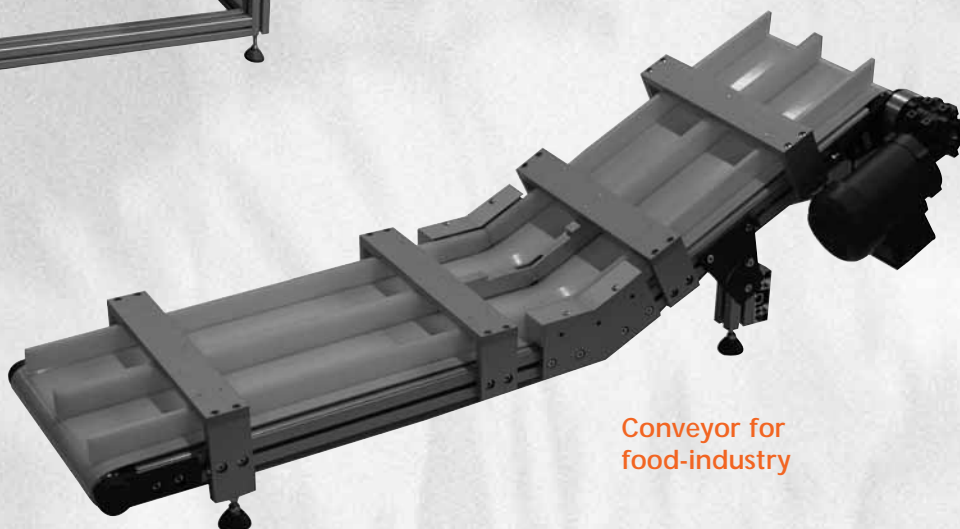
Conveyor
with nosebar



BELT CONVEYOR - EXAMPLES



Roller conveyor with
pneumatic stoppers



Conveyor for
food-industry

Belt conveyor
with vacuum grip



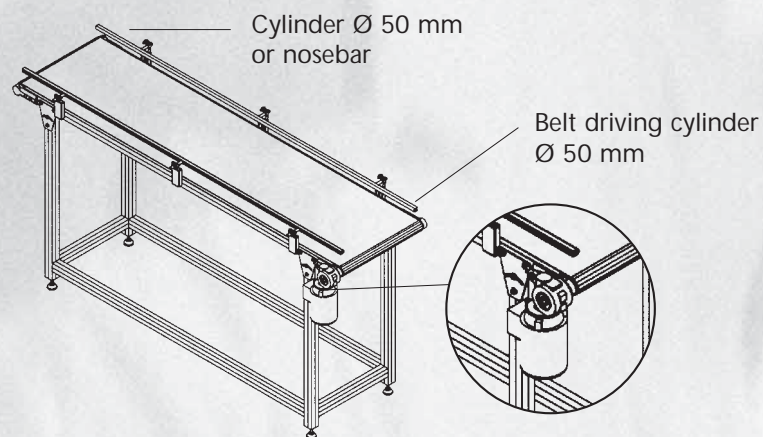
Special conveyor

BELT CONVEYOR - SERIES 45

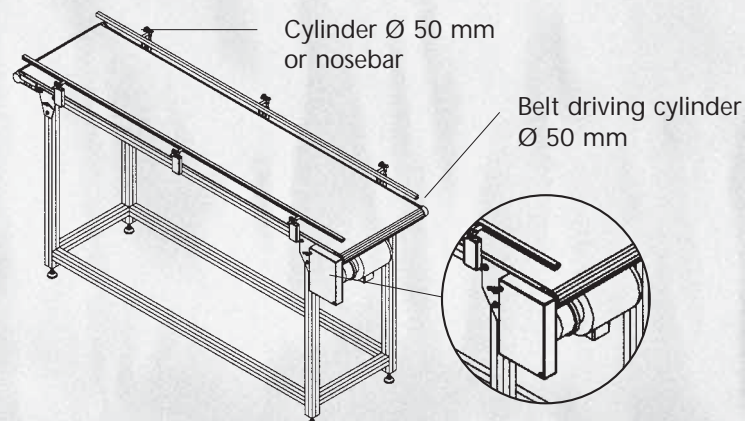
The belt conveyor module in our MiniTec CADmenu construction software designs your belt conveyor automatically according to your requirements. Furthermore it calculates the deflection, suggests the number of supports and generates the perspective part list - within a few minutes. Assembly can be carried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

Motor arrangement

Plug-on motor



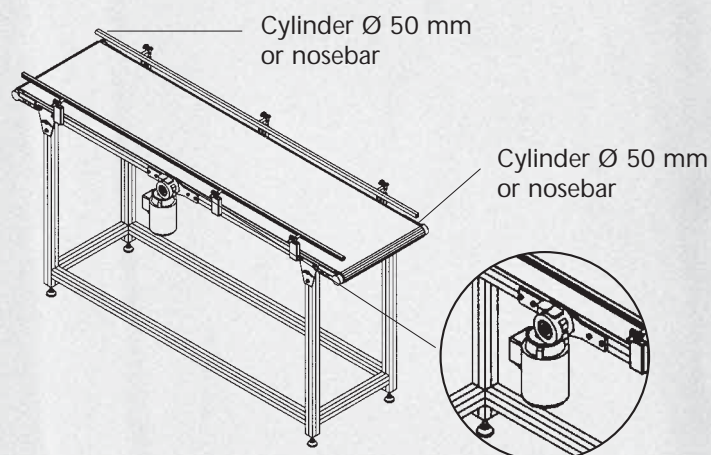
Covered flanged motor



Center drive (Direct drive)

- Belt width max. 300 mm with nosebar

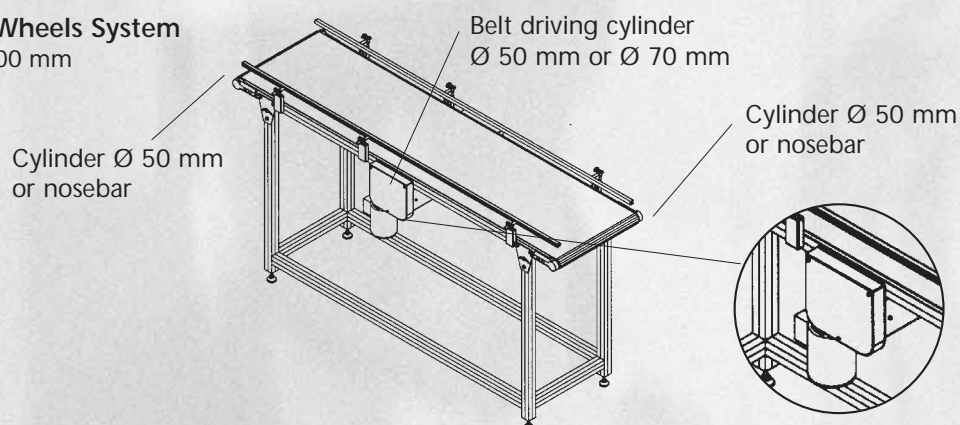
- Belt width max. 800 mm with cylinder Ø 50



BELT CONVEYOR - SERIES 45

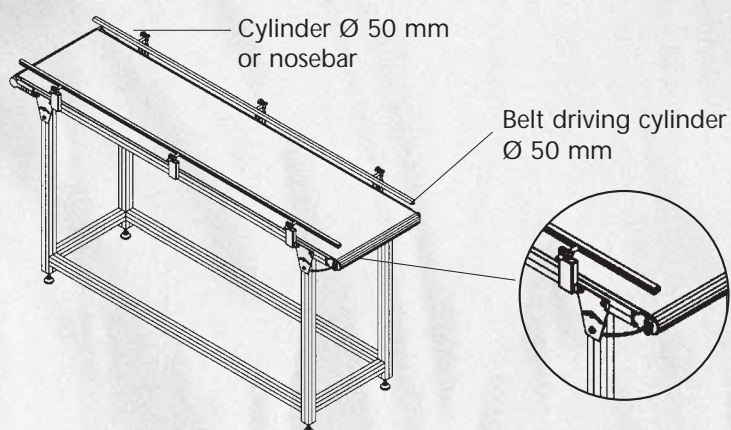
Center drive 3 Wheels System

Belt width max. 800 mm

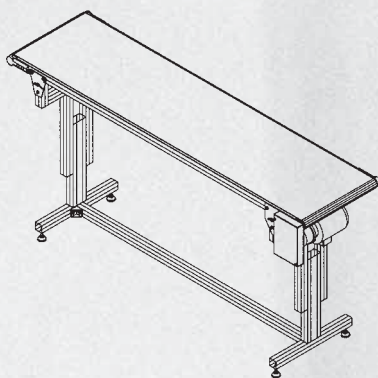


Cylinder drive

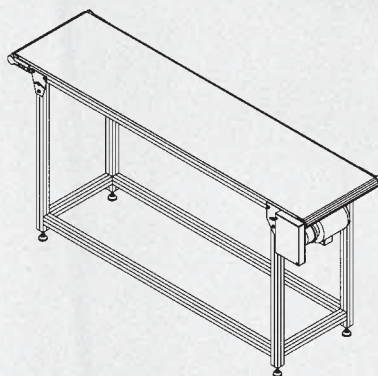
Belt width min. 260 mm
Belt width max. 500 mm
max. length 2000 mm
max. load 20 kg



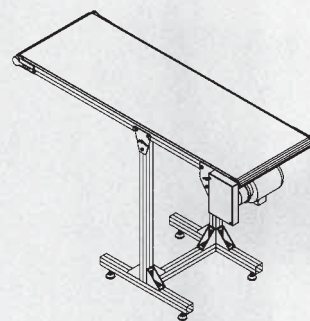
Subconstructions



Height-adjustable



Standard



one foot

Conveyor belts - Standard

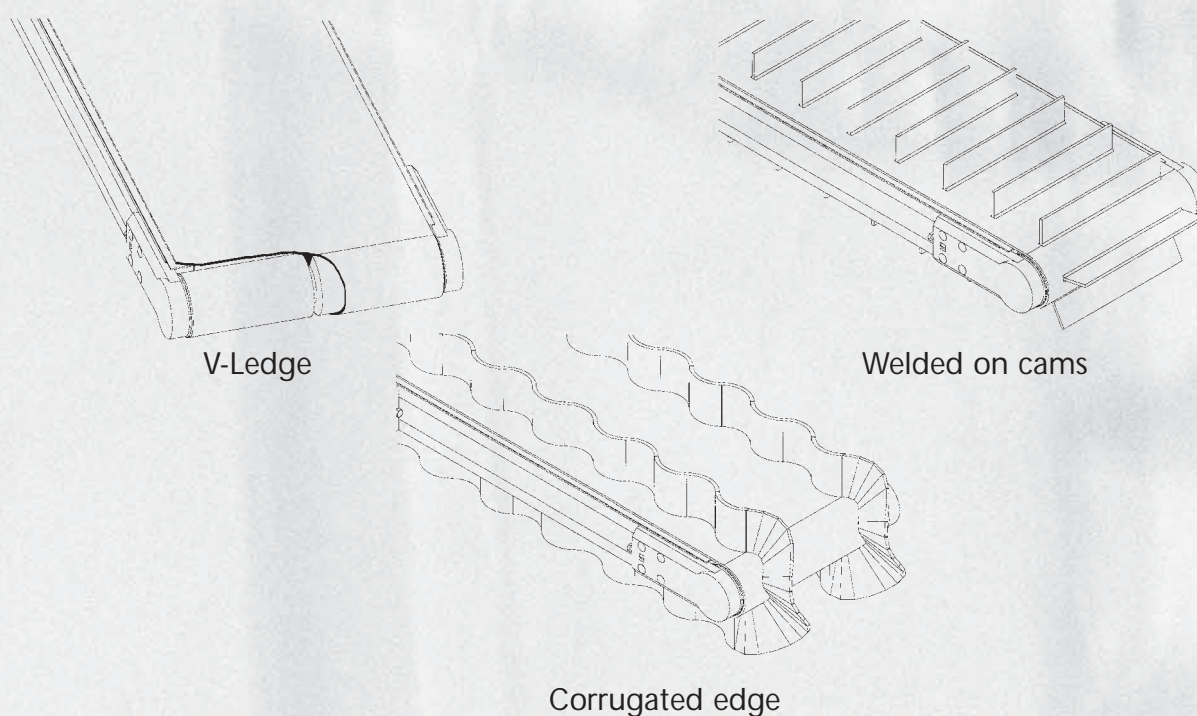
Belt PVC, black, smooth, antistatic	Part N° 29.5019/1
Belt PVC, green, grip, antistatic	Part N° 29.5019/2
Belt PVC, green, grip, adhesive, antistatic	Part N° 29.5019/3
Belt PVC, green, smooth, antistatic	Part N° 29.5019/4
Belt PU, blue, smooth	Part N° 29.5019/5
Belt PU, white, smooth, antistatic	Part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

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 - Special

Special belt at customer specification	Part N° 29.5019/0
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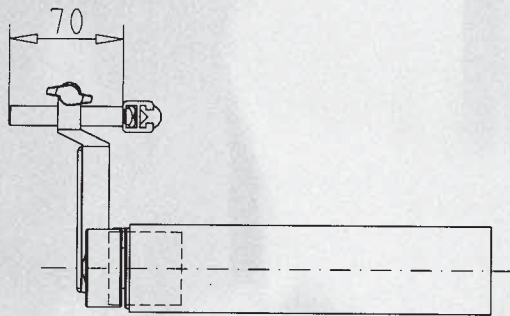
Example - Series 90



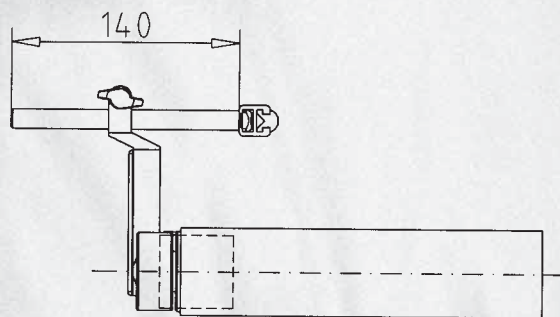
LATERAL GUIDE

CONVEYOR 45 AND 90

Short

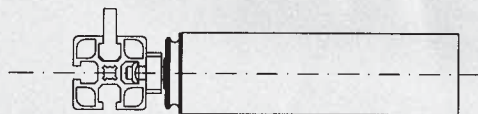


Long



ROLLER CONVEYOR WITHOUT DRIVE

Low



High



INQUIRY STANDARD BELT CONVEYOR 45

Standard dimension

Axial distance A mmBelt width L mm

Lmax see page 4

Operating conditions

Goods to be conveyed Weight/piece kgTotal belt load kgTemperature °C

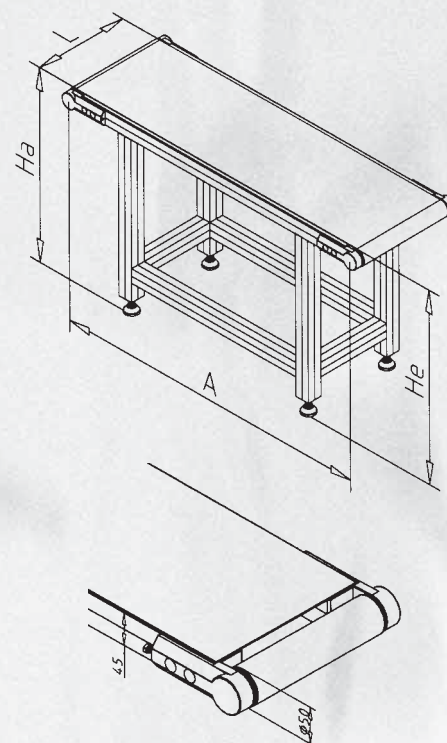
Subconstructions

Charging side height He mmDischarging side height Ha mmNumber of supports Pcs.Height adjustable sup. from mm to mmLateral guide ☐ one side ☐ both sides ☐ short ☐ longAngle bracket for floor fastening ☐ Part N° 21.1112/0Floor anchor 12 ☐ Part N° 21.1115/0Wheels ☐ Part N° Feet ☐ Part N°

Options

Conveyor belt Part N°Supporting sheet ☐ Aluminium ☐ Inox

Drive

Motor arrangement ☐ Plug-on motor☐ Cylinder motor☐ Flanged motor☐ Center drive (Directdrive)☐ Center drive 3-Wheels SystemSpeed m/min.Adjustable speed from m/min. to m/min.Company ☐ Please call me backName ☐ Please send me an offerPhone no. Fax no. E-Mail

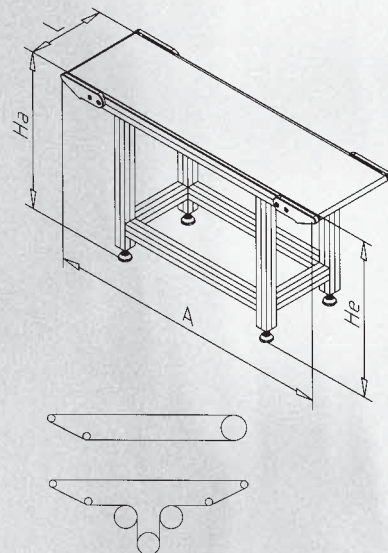
INQUIRY NOSEBAR CONVEYOR

Standard dimension

Axial distance A mm
 Belt width L mm (max. 300mm)

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 ☐ Center drive
☐ Flanged motor ☐ 3 Wheels-System
☐ Center drive (Directdrive)

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

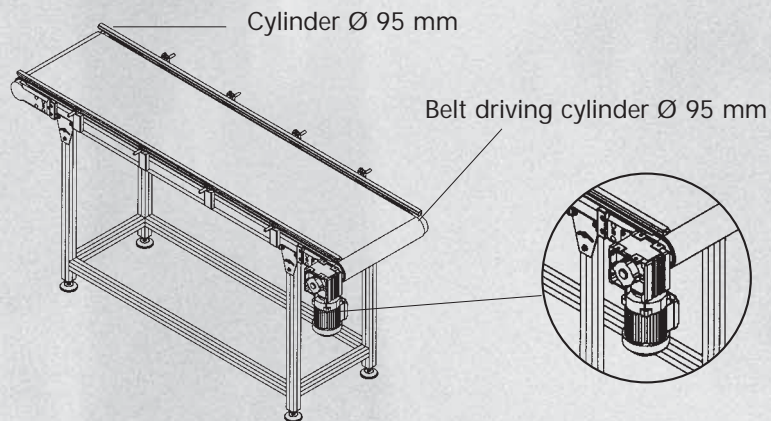
Company ☐ Please call me back
 Name ☐ Please send me an offer
 Phone no.
 Fax no.
 E-Mail

BELT CONVEYOR - SERIES 90

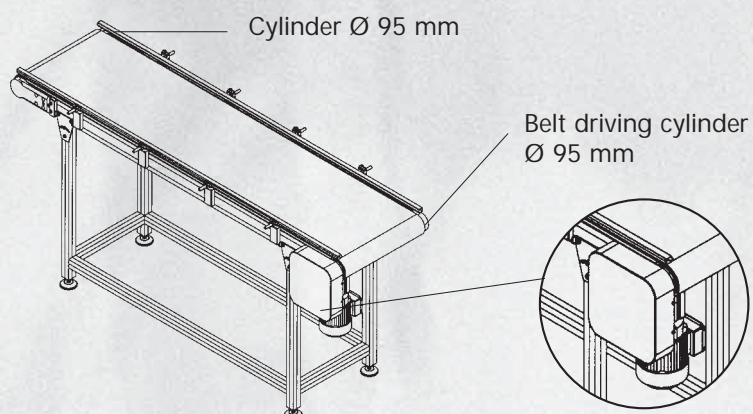
The belt conveyor module in our MiniTec CADmenu construction software designs your belt conveyor automatically according to your requirements. Furthermore it calculates the deflection, suggests the number of supports and generates the correct parts list - within a few minutes. Assembly can be carried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

Motor arrangement

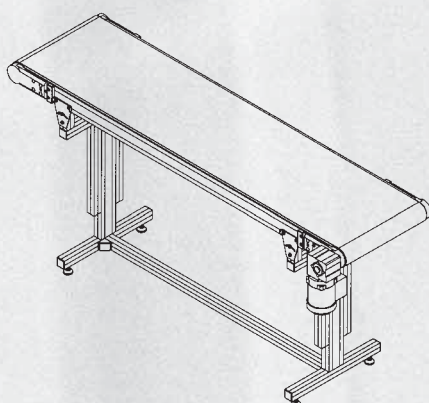
Plug-on motor



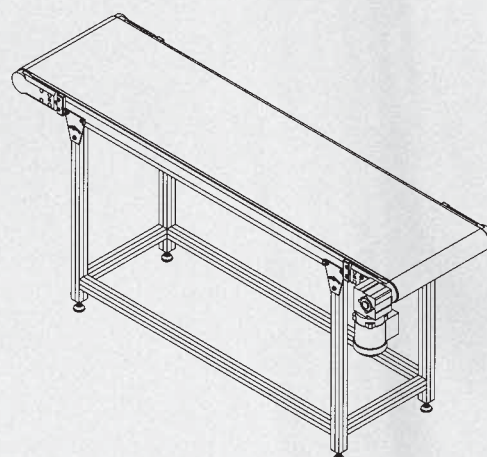
Covered flanged motor



Subconstructions



Height-adjustable



Standard

INQUIRY STANDARD BELT CONVEYOR 90

Standard dimension

Axial distance A mmBelt width L mm

Operating conditions

Goods to be conveyed Weight/piece kgTotal belt load kgTemperature °C

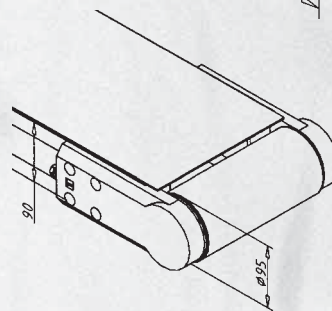
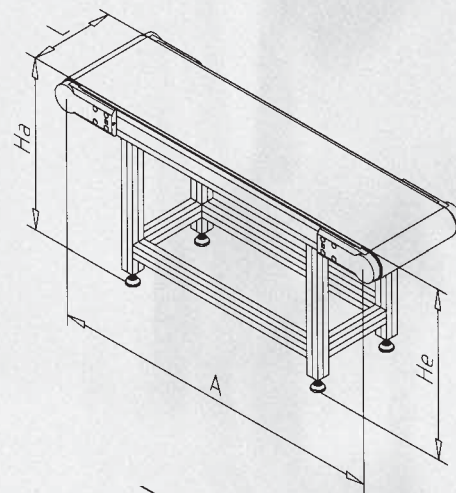
Subconstructions

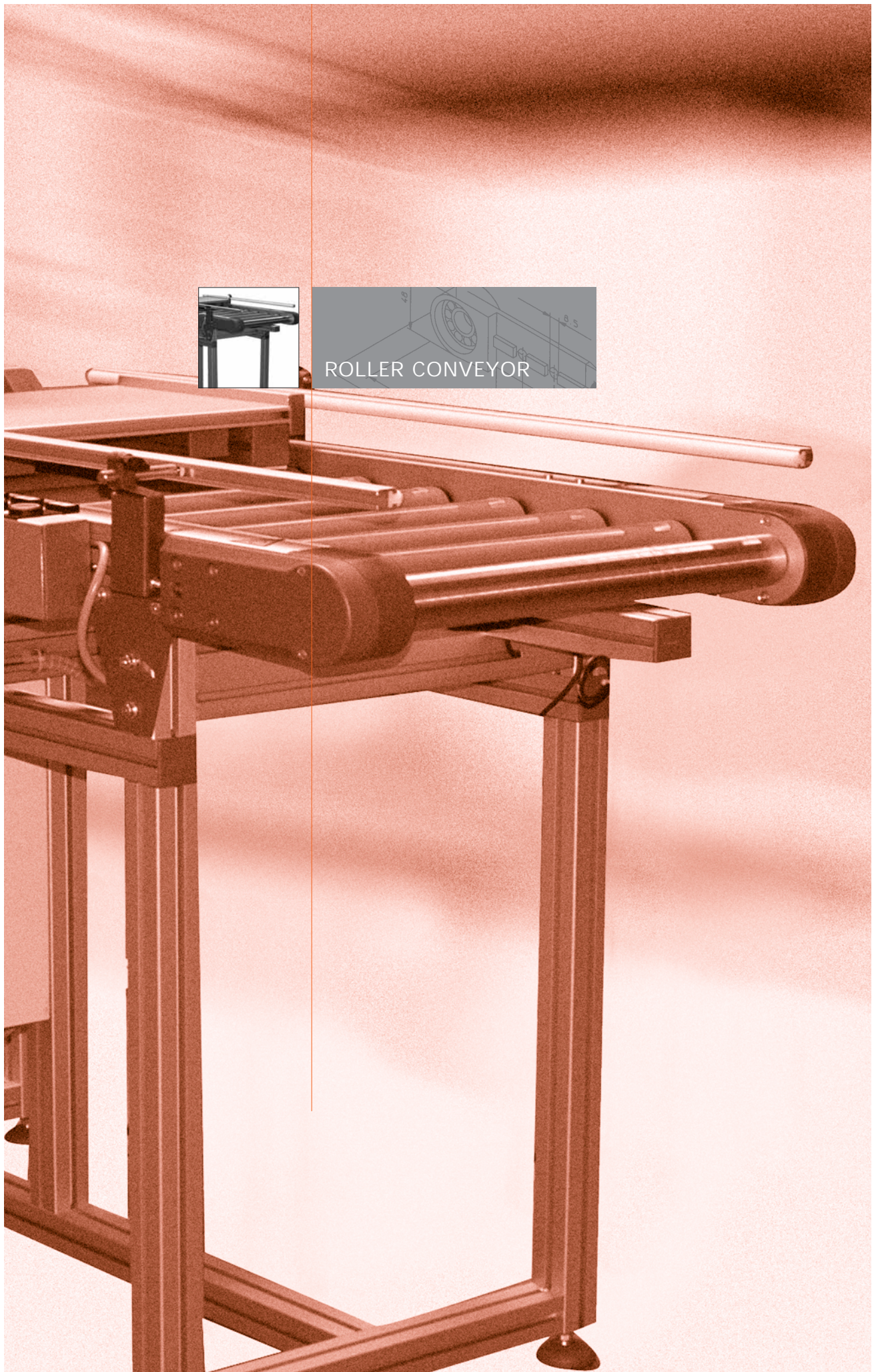
Charging side height He mmDischarging side height Ha mmNumber of supports Pcs.Height adjustable sup. from mm to mmLateral guide ☐ one side ☐ both sides ☐ short ☐ longAngle bracket for floor fastening ☐ Part N° 21.1112/0Floor anchor 12 ☐ Part N° 21.1115/0Wheels ☐ Part N° Feet ☐ Part N°

Options

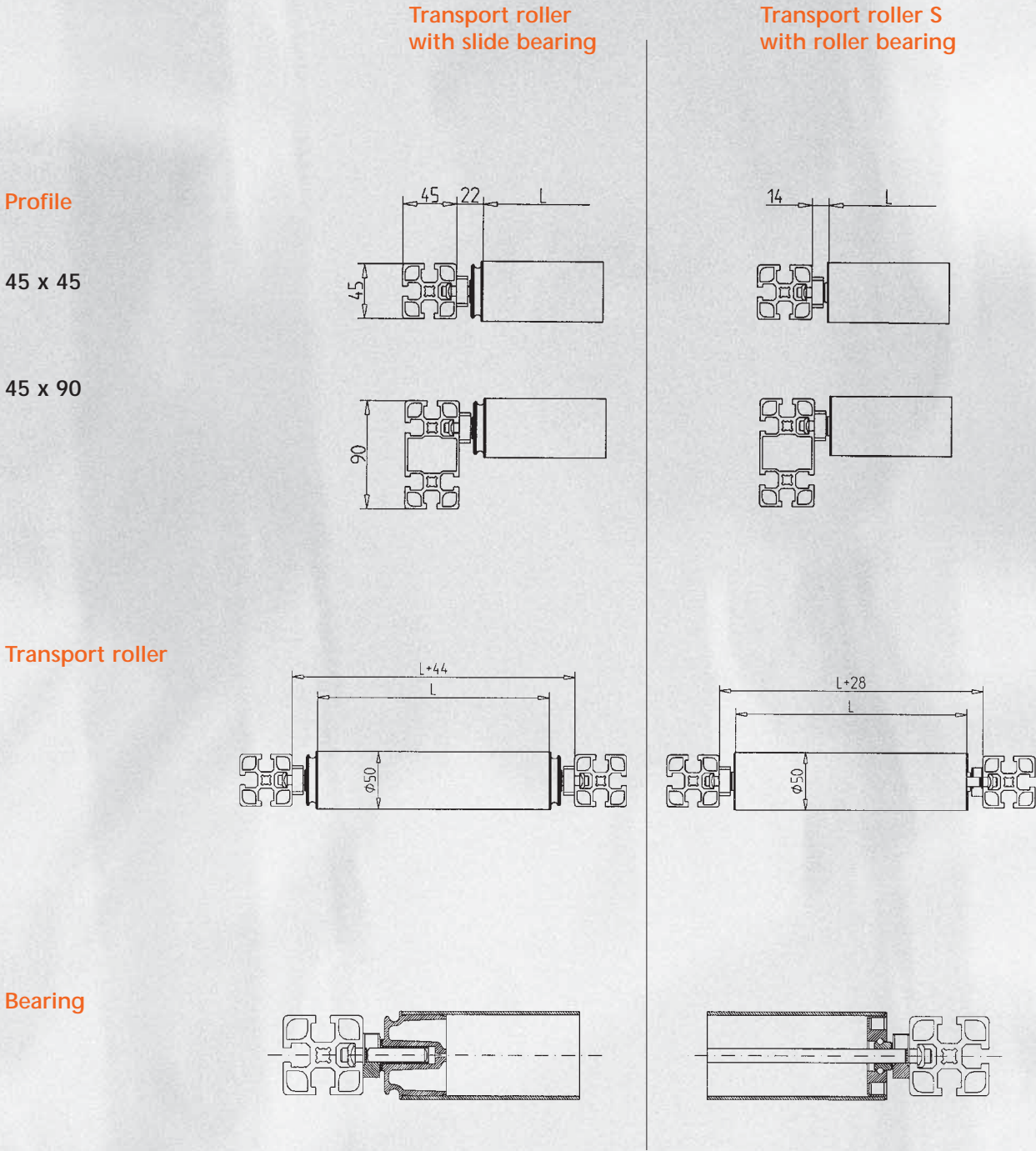
Conveyor belt Part N°Supporting sheet ☐ Aluminium ☐ Inox

Drive

Motor arrangement ☐ Plug-on motor ☐ Flanged motorSpeed m/min.Adjustable speed from m/min. to m/min.Company ☐ Please call me backName ☐ Please send me an offerPhone no. Fax no. E-Mail



ROLLER CONVEYOR WITHOUT DRIVE

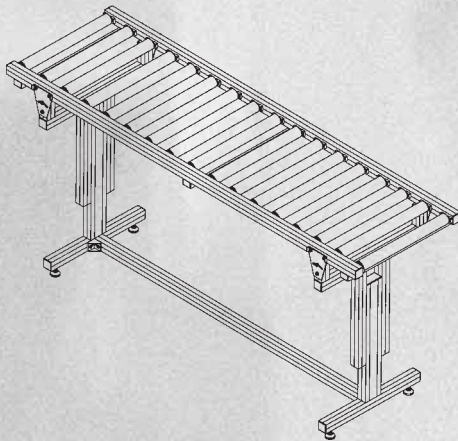


Tube length L

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

ROLLER CONVEYOR WITHOUT DRIVE

Subconstructions



Height-adjustable



Standard

Examples



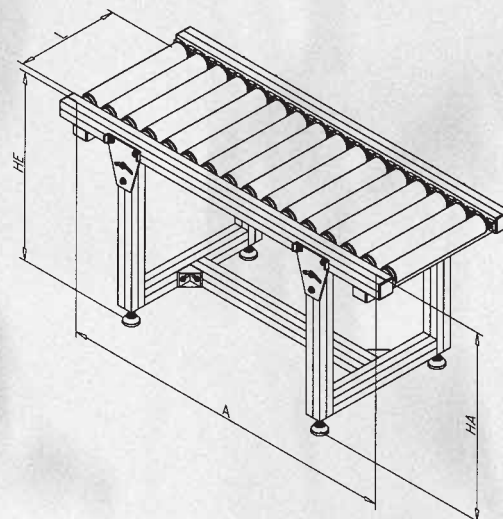
INQUIRY ROLLER CONVEYOR WITHOUT DRIVE

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

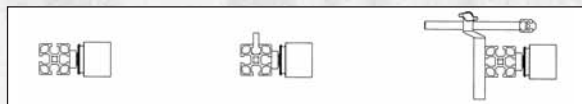


Subconstructions

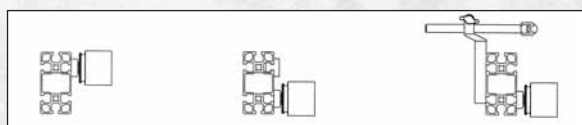
Charging side height He mm
 Discharging side height Ha mm
 Distance A mm
 Number of supports Pcs.
 Height adjustable sup. from mm to mm

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

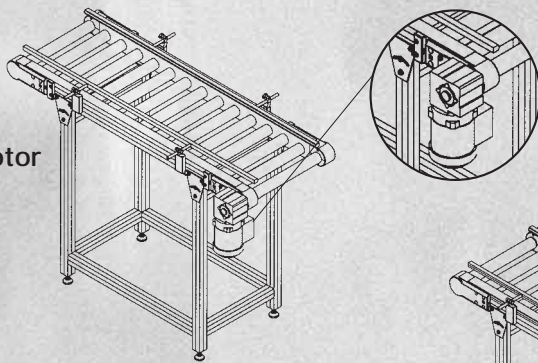
Bearings ☐ slide bearing ☐ roller bearing

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

ROLLER CONVEYOR WITH DRIVE

Motor arrangement

Plug-on motor

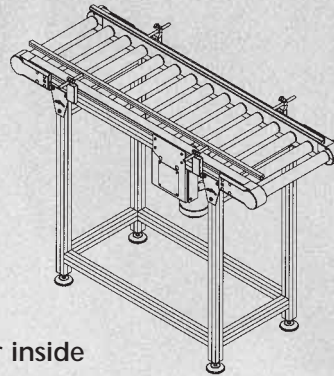


Max. load:

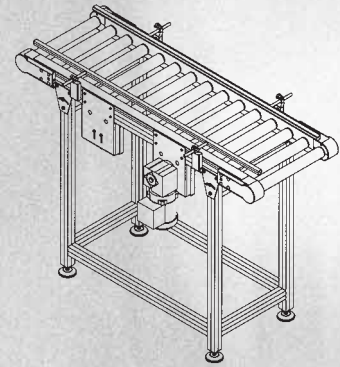
max. 40 kg/roller

max. 300kg/drive

with motor inside



with motor outside and chain tensioner



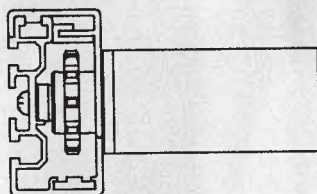
Tubelengthn L

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

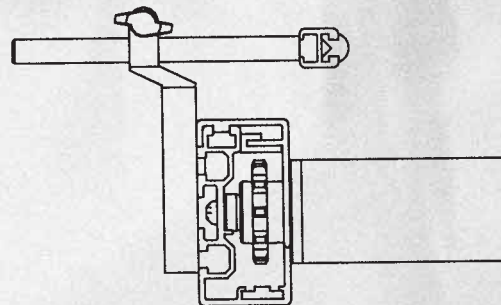
Available roller types

fixed drive
friction drive
friction drive adjustable

Lateral guide

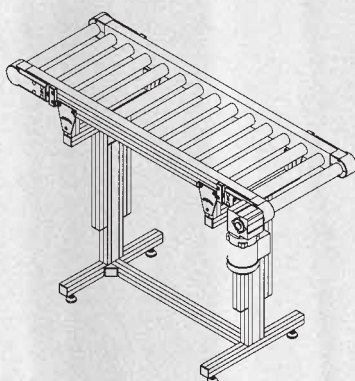


Without

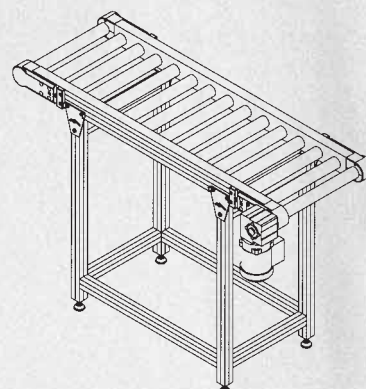


Variable

Unterkonstruktion



Height-adjustable



Standard

INQUIRY ROLLER CONVEYOR WITH DRIVE

Standard dimension

Axial distance A mm

Roller distance mm

Roller width B mm

Construction ☐ one side
☐ both sides

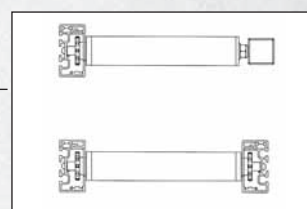
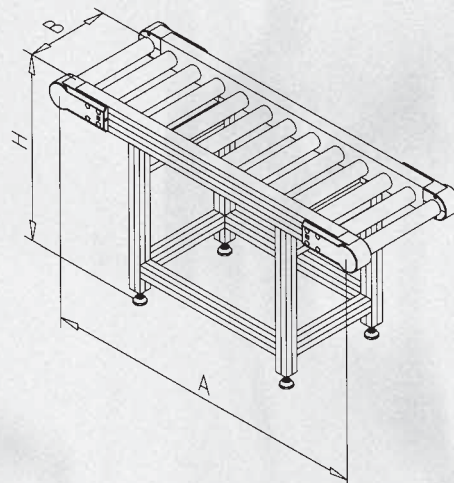
Operating conditions

Goods to be conveyed

Weight/piece kg

Total belt load kg

Temperature °C



Subconstructions

Height H mm

Distance A mm

Number of supports Pcs.

Height adjustable sup. from mm to mm

Lateral guide ☐ one side ☐ both sides ☐ 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°

Drive

Speed m/min.

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

Motor arrangement ☐ inside ☐ outside

☐ Plug-on motor ☐ with chain tensioner

Options

Material of roller ☐ PVC ☐ AL ☐ Steel ☐ VA

☐ for accumulation ☐ fixed drive

(Rollers with fixed drive and accumulation can be mixed)

Company

Name

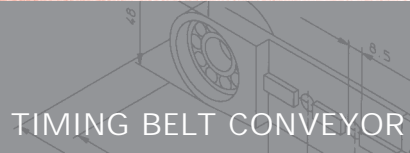
Phone no.

Fax no.

E-Mail

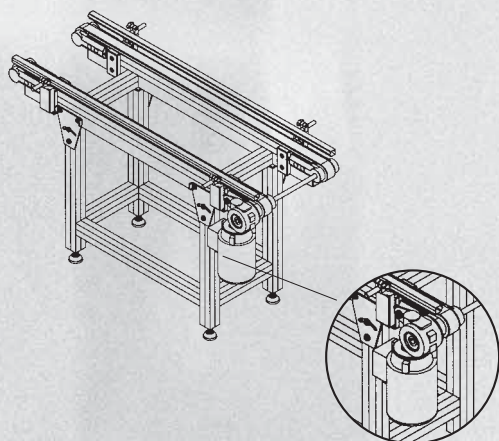
☐ Please call me back

☐ Please send me an offer

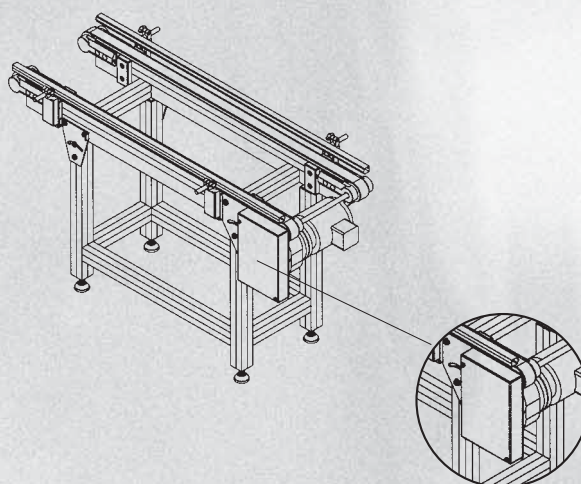


TIMING BELT CONVEYOR 32

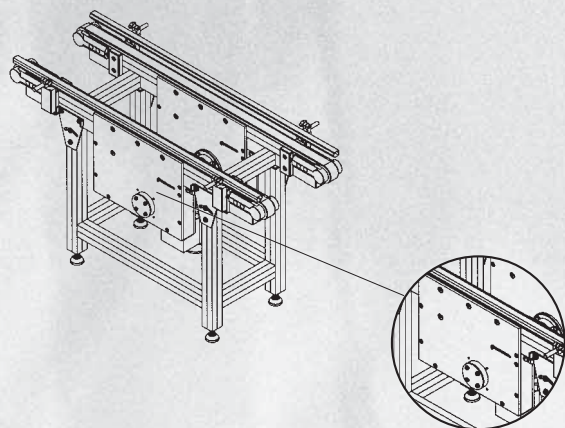
Motor arrangement



Plug-on motor

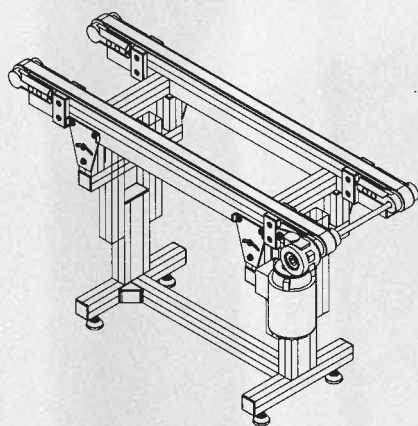


Flanged motor

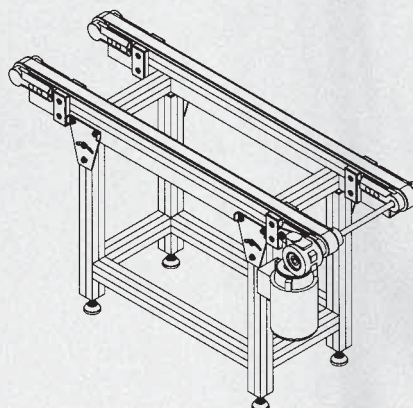


Central drive

Subconstructions



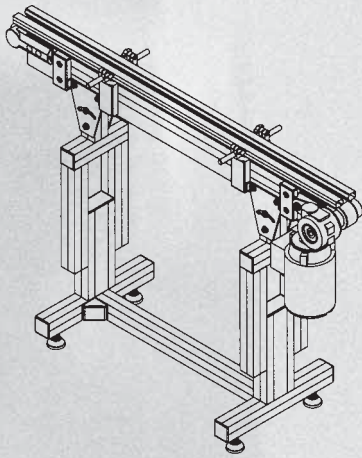
Height-adjustable



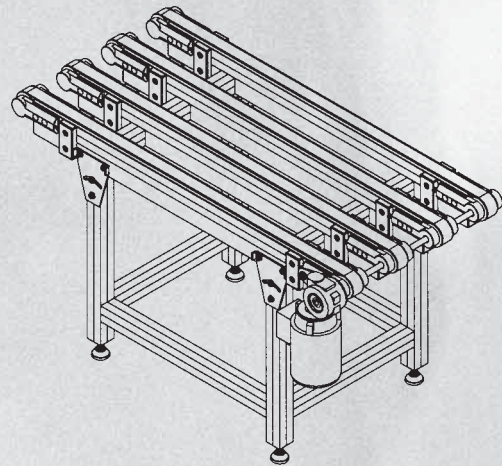
Standard

TIMING BELT CONVEYOR 32

Example timing belt conveyor



single lane with variable strut



four lanes with standard strut

Examples



INQUIRY TIMING BELT CONVEYOR 32, STANDARD

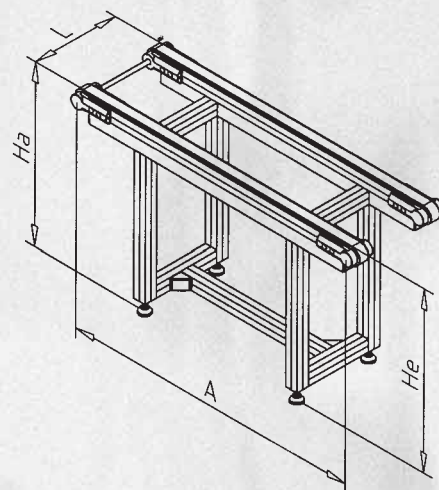
Standard dimension

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

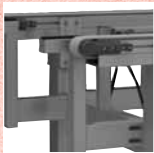
Name

☐ Please send me an offer

Phone no.

Fax no.

E-Mail



MINITEC CLEAN ROOM CONVEYORS FOR PHOTOVOLTAICS

The flexible MiniTec conveyor technology program has already been proven for many years in all branches of industry with exactly matched solutions. Building on these solutions, we have developed a clean room timing belt conveyor and had it tested by Fraunhofer IPA.

Due to consistent, rational, economic thinking, our standard timing belt conveyor technology can be used with only slight changes in clean rooms with DIN EN ISO 14644-1 air cleanliness classifications up to 6. The highest economy and recognised quality with complete compatibility with all components of the MiniTec profile system are also a matter of course for this product line.



Technical data:

- Basic structure of profile 45 or 45 x 90 and 90 x 90
- Width of timing belt 32 mm or 60 mm
- Timing belt with 2 mm polyurethane coating for the transport of glass
- Clean room motor with Spiroplan gears
- Frequency converter to set the belt speed
- Axis offsets and belt width arbitrary
- Compensation for floor unevenness

Options:

- Base frame of closed profiles
- Timing belt coating available in yellow or grey

INQUIRY TIMING BELT CONVEYOR CLEAN ROOM

Standard dimension

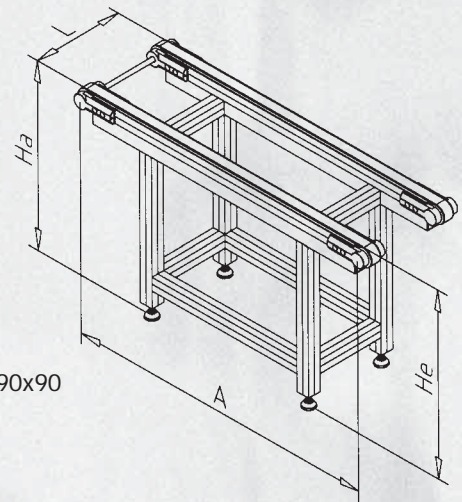
Axial distance A mm

External distance timing belt L mm

Number of lanes piece

☐ 32 mm basement of profile 45

☐ 60 mm basement of profile 45x90 + 90x90



Operating conditions

Goods to be conveyed

Weight/piece kg

Total belt load kg

Subconstructions

Charging side height He mm

Discharging side height Ha mm

Number of supports Pcs.

Angle bracket for floor fastening ☐ Part N° 21.1112/0

Floor anchor 12 ☐ Part N° 21.1115/0

Feet ☐ Part N°

Options

Colour timing belt ☐ yellow ☐ grey

Profile closed t-slots ☐ yes ☐ no

Drive

Motor arrangement ☐ cleanroom motor spioplan

Speed m/min.

Frequency transformer ☐ yes ☐ no

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

Company ☐ Please call me back

Name ☐ Please send me an offer

Phone no.

Fax no.

E-Mail



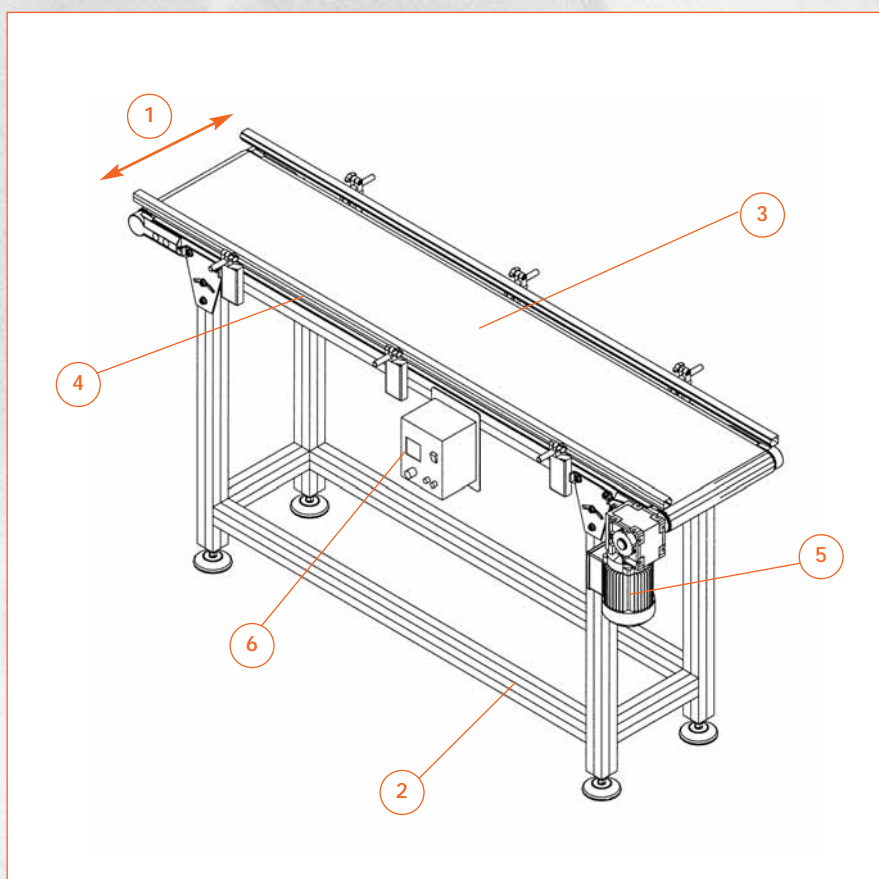
CONVEYOR 48



CONVEYOR 48 - THE 48 HOURS PROGRAM

The flexible MiniTec conveyor technology program has already been proven for many years in all branches of industry with exactly matched solutions. Numerous jobs are solved economically with standard conveyors. Here the time factor also plays a decisive role.

We can deliver selected types of conveyors within 48 hours through consistent standardisation and extremely rational production. The highest economy and recognised quality with complete compatibility with all components of the MiniTec profile system are also a matter of course for this product line.



Technical Data:

- Basic construction made of profile 45x45 F
- Cylinder ø 50 mm, steel, zinc plated
- Supportng Sheet:
Aluminium, anodized, 2 mm
- Plug in motors with spiropfan gearbox can be configured in various gear reductions
- Underframes in standard design or height adjustable available

Options:

- Lateral guides with adjustable holders
- Frequency converter to set the belt speed

CONVEYOR 48 - OPTIONS

1. Basic construction Conveyor 48

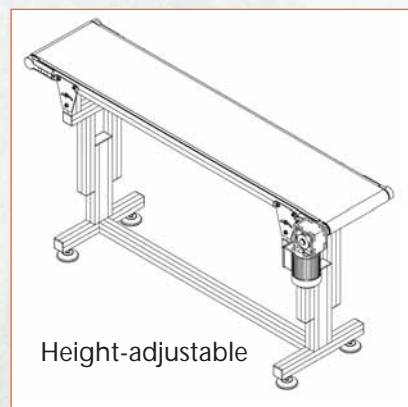
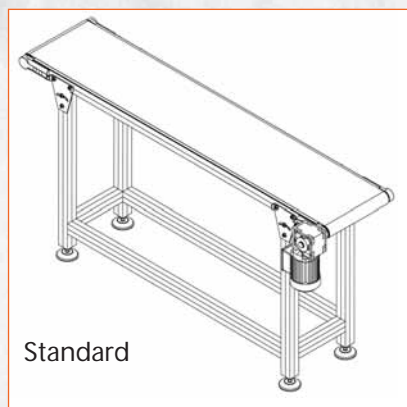
- Standard dimensions: 150 / 200 / 300 / 400 mm
- Axial distance selectable from 500 to 6000 mm



2. Subconstruction

- Without subconstruction or with standard or height-adjustable (± 100 mm).
- Number of bearings:

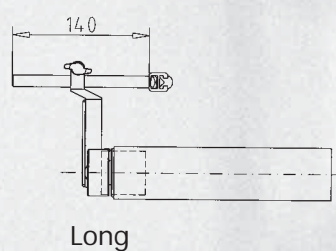
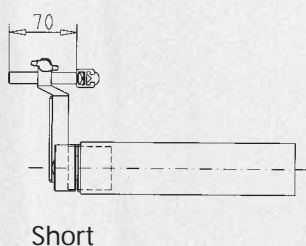
up to axial distance 2 m	– 2 piece
from axial distance 2 m	– 3 piece
per 1 m extension	+ 1 piece



3. Belts - Conveyor 48

- Belts:
 - Belt PVC, black, smooth, antistatic, -10° bis $+90^{\circ}\text{C}$
 - Belt PU, white, smooth, appropriate to foods, -20° bis $+110^{\circ}\text{C}$
 - Belt PU, green, smooth, antistatic, -20° bis $+110^{\circ}\text{C}$
 - Belt fabric, white, antistatic, -20° bis $+60^{\circ}\text{C}$

4. Lateral guide



5. Motor arrangement

- Motor sproplan

Motor selection table

Power W	Gear red- uction ratio	Conveyor rate ca. m/min	Rpm	Drive torgue	Load kg
90	75	2,6	17 1/min	20 Nm	70
90	60	3,4	22 1/min	18 Nm	60
90	39	5,1	33 1/min	15 Nm	50
120	19,5	10,5	67 1/min	13 Nm	50
120	16,5	12,4	79 1/min	11 Nm	50
120	10,25	19,9	127 1/min	7,7 Nm	40
120	8,2	24,9	159 1/min	6,3 Nm	30

6. Frequency transformer FU 370 PP



- Built in On/Off key
- 1Q mode of operation
- Mains overvoltage/ undervoltage monitoring device
- Motor load monitoring
- Short circuit monitoring phase/ phase, phase/ground
- Adjustable acceleration and deceleration ramp
- Adjustable voltage increase for low initial frequency
- 2 m mains cable with shock-proof plug
- Main power connection line with ground protected 230V plug and motor cable 110 CY, 2m length
- EMC filter class B
- IP 55/ Nema- 12 housing
- Standard equipped with an operating device that enables operation and drive setup without additional devices.

Output motor	Max. motor output	0,37 kW
	Nominal output current	2,1 A
	Output voltage	3 x 0...230 V
	Overload	150%/1min
Input mains	Nominal voltage	230 V
	Input current	6,7 A
	Mains frequency	50 - 60 Hz
General Data	Ambient temperature	0 - 40°C
	Heat loss is a nominal rating	11 W
	Dimensions H/ B/ T	200 x 140 x 165 mm

INQUIRY - CONVEYOR 48

Standard dimension

Axial distance A mm

Belt width L ☐ 150 mm ☐ 200 mm
☐ 300 mm ☐ 400 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

Type ☐ Without ☐ Standard ☐ Height-adjustable

Belts

☐ PVC, black ☐ PU, green
☐ PU, white, appropriate for food-industry ☐ Belt fabric, white

Lateral guide

☐ one side ☐ both side ☐ short ☐ long

Support/side piece

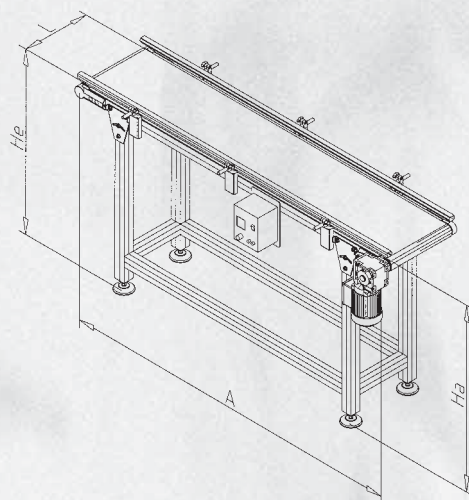
Drive

Motor arrangement/Plug-on motor ☐ right ☐ left

Conveyor speed ☐ 2,6 m/min ☐ 3,4 m/min ☐ 5,1 m/min
☐ 10,5 m/min ☐ 12,4 m/min ☐ 19,9 m/min
☐ 24,9 m/min

Frequency transformer

☐ yes ☐ no



Company

Name

Phone no.

Fax no.

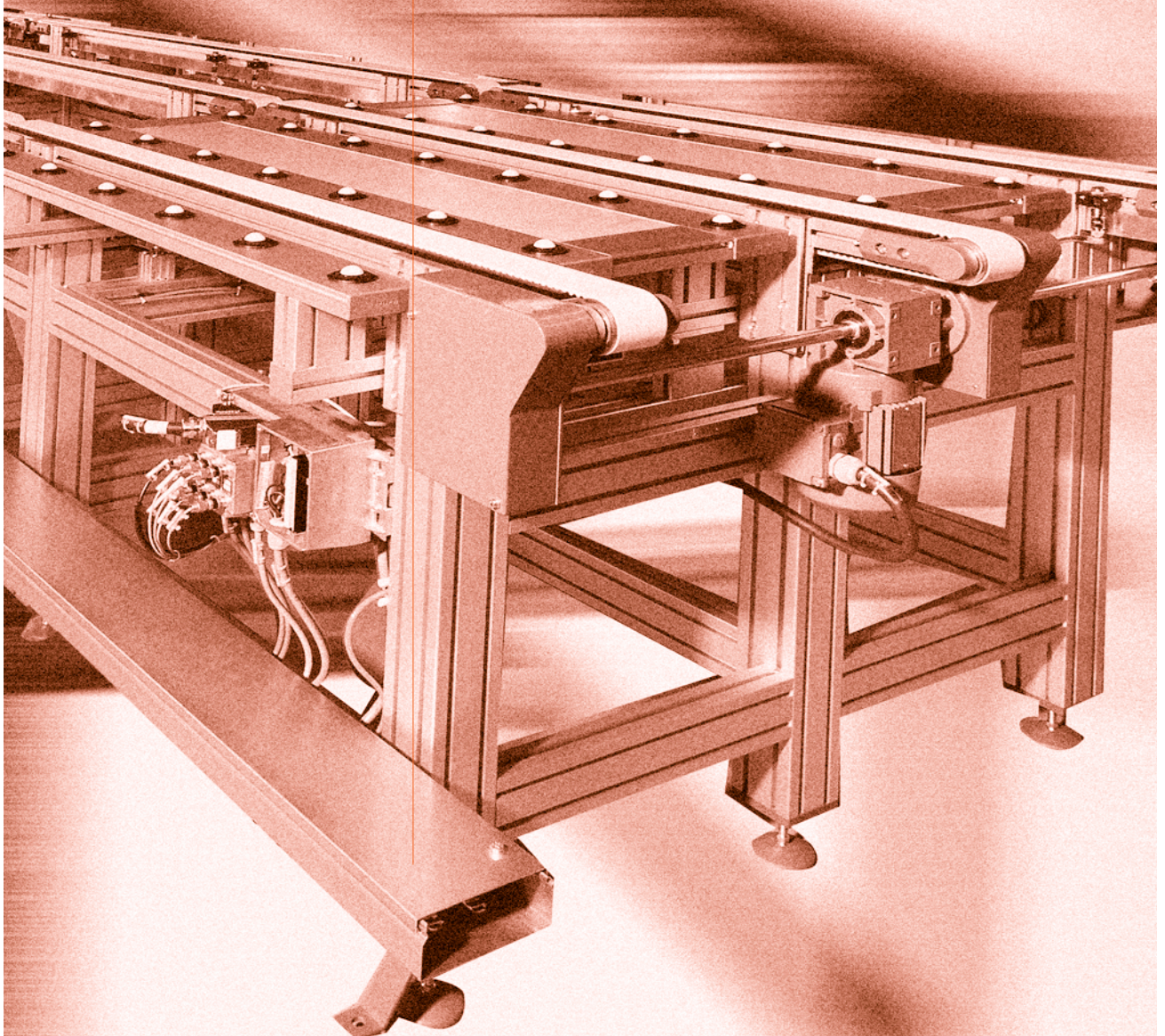
E-Mail

☐ Please call me back

☐ Please send me an offer

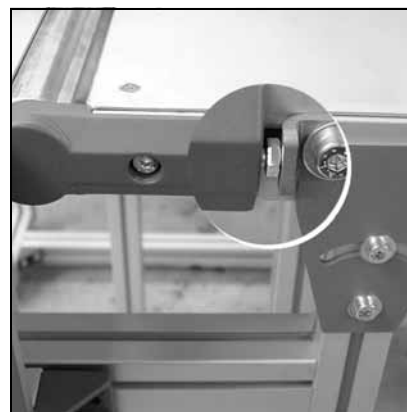
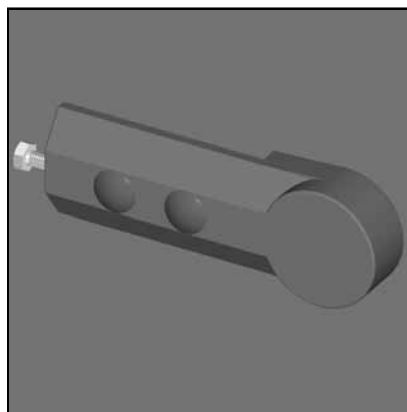
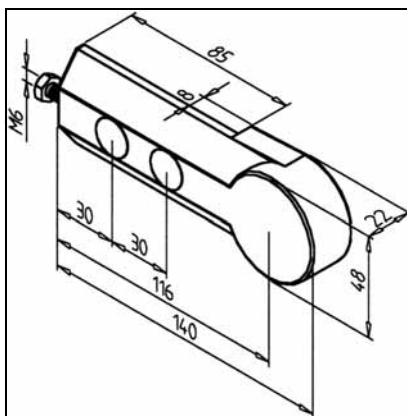


CONVEYORS COMPONENTS



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

- Recommended tube length: max. 1000 mm

APPLICATIONS

- Bearing for belt-tensioning cylinders

ASSEMBLY

- Pretighten at the profile groove

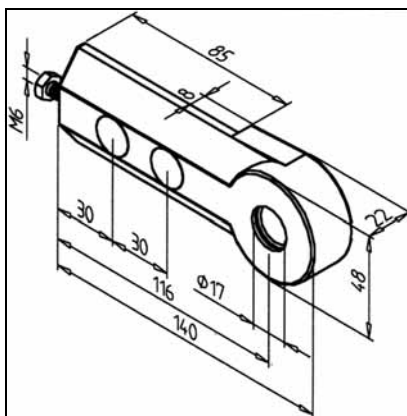
- If swivel plates Part N° 29.5001/0 for support fastening are used, they serve as counter bearing for tightening purpose; if not, use multiblock or angles

- Tighten the conveyor belt by unscrewing the set screw, if necessary reset the tool

- 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

APPLICATIONS

- 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

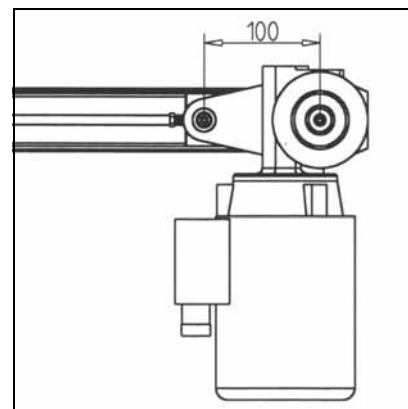
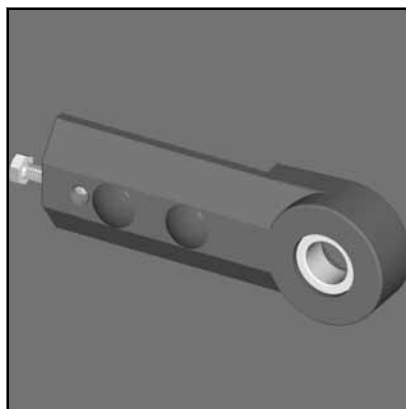
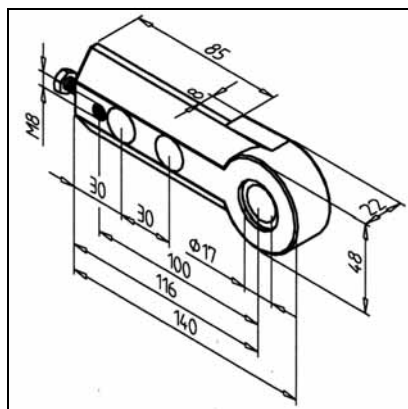
- If swivel plates Part N° 29.5001/0 for support fastening are used, they serve as counter bearing for tightening purpose; if not, use multiblock or angles

- Tighten the conveyor belt by unscrewing the set screw, if necessary reset the tool

- 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 Ø 17 mm, both sides sealed
- With thread M8 for torque support
- Fastening kit
- Weight 0,269 kg

APPLICATIONS

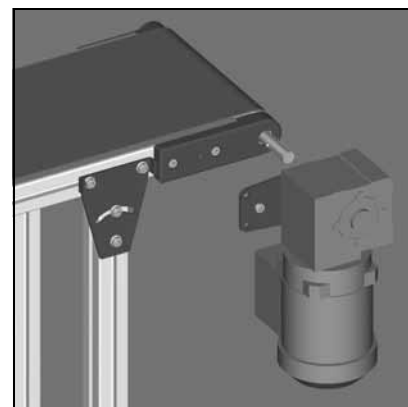
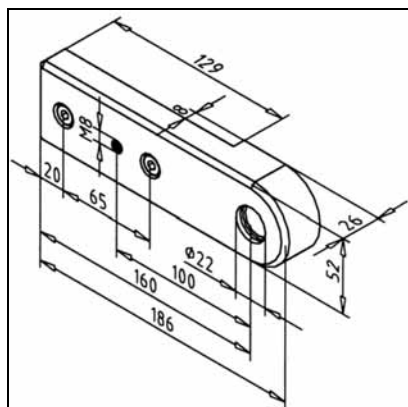
- MiniTec belt-conveyors with plug on motor (hollow shaft)

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
- Firmly tighten the conveyor bearing (Recommended locking torque: 25 Nm)

CONVEYOR BEARING 45 - 20

Part. N° 21.0917/0



TECHN. DATA / ITEMS SUPPLIED

- Aluminium, powder coated, grey
- Self aligning bearing with bore diameter 20 mm, sealed on both sides
- Fastening kit
- Weight 0,574 kg

APPLICATIONS

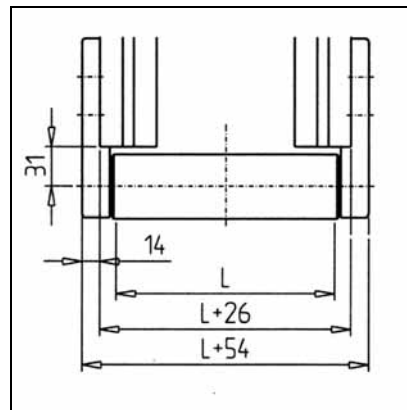
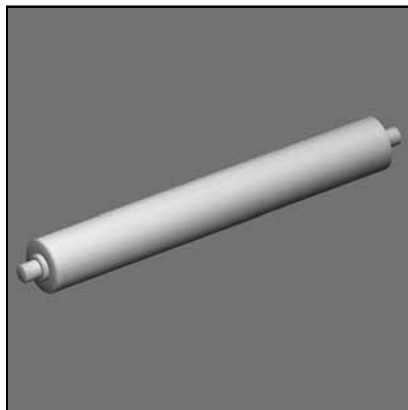
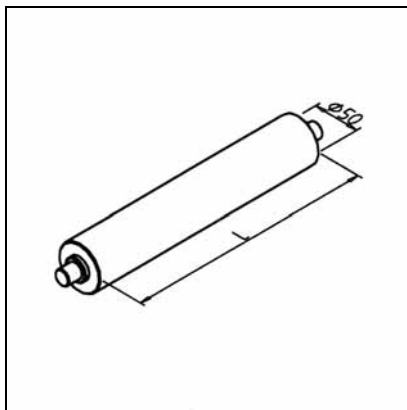
- MiniTec belt conveyor for push-on motors with hollow shafts diameter 20 in connection with torque support Part N° 29.0536/0 or 29.0537/0 and cylinder Part N° 29.0524/0

ASSEMBLY

- First mount the conveyor bearing on the end of the profile
- Tighten the conveyor bearing (recommended torque: 25 Nm)

BELT TENSIONING CYLINDER 45

Part. N° 21.0994/1



TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated
- Turned spherically
- Journal $\varnothing 17$
- Weight 14,8 kg/m
- Please specify dimension L (belt width)

APPLICATIONS

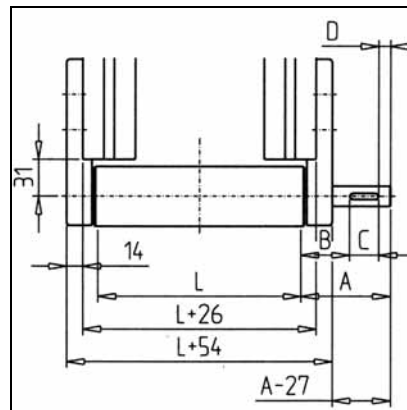
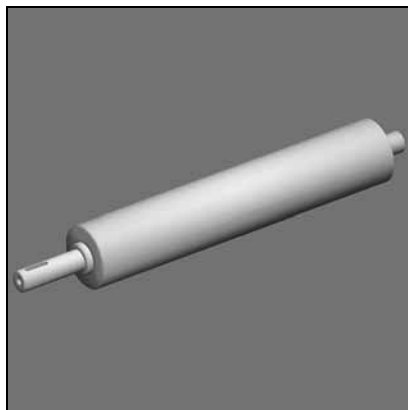
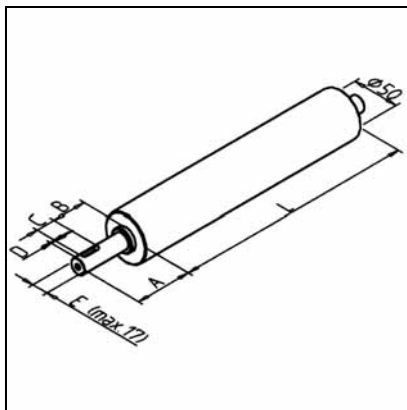
- MiniTec belt conveyor system
- Use suitable conveyor bearing
Part N° 21.0993/0

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 45

Part. N° 21.0995/0



TECHN. DATA / ITEMS SUPPLIED

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

APPLICATIONS

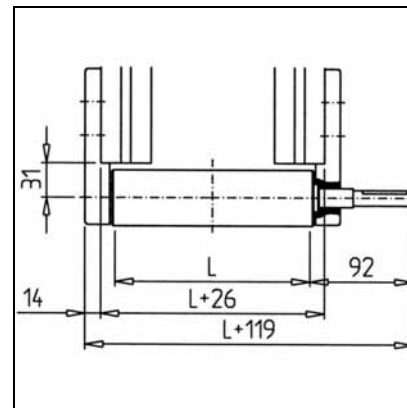
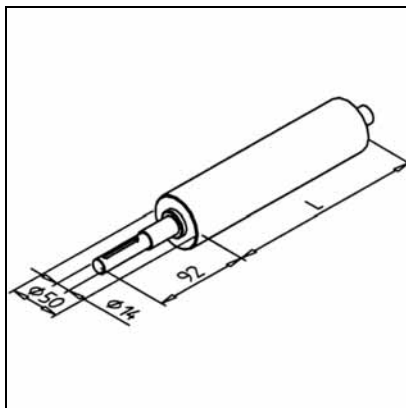
- MiniTec belt conveyor system
- Use suitable conveyor bearing
Part N° 21.0993/0

ASSEMBLY

- Insert belt driving cylinder in conveyor bearing with bore Part N° 21.0993/1
- Mount on opposite conveyor bearing Part N° 29.5042/0
- The self-aligning ball bearings compensate light misalignments

BELT DRIVING CYLINDER 45 FOR PLUG-ON MOTOR D14

Part. N° 29.5023/0



TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated
- Turned spherically
- Axle Ø 14, driving side suitable for fastening the plug-on motor
- Weight 15,3 kg/m
- Please specify dimension L (belt width)

APPLICATIONS

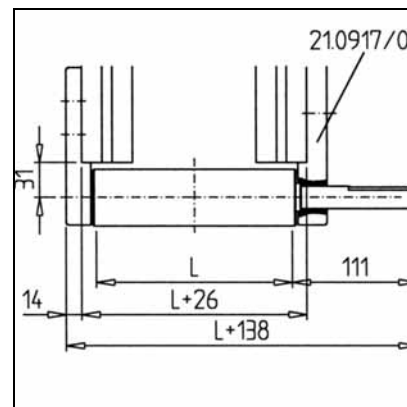
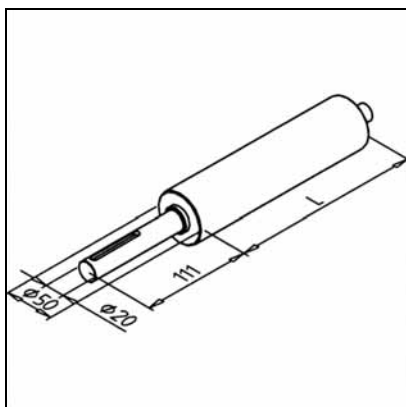
- MiniTec belt conveyor systems DSGM with torque support
- Suitable for MiniTec plug-on motor with torque support

ASSEMBLY

- Insert the belt driving cylinder in the conveyor bearing for plug-on motor
- Mount the conveyor bearing Part N° 29.5042/0 on the opposite side

BELT DRIVING CYLINDER 45 FOR PLUG-ON MOTOR D20

Part. N° 29.5042/0



TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated
- Turned spherically
- Axle Ø 20, driving side suitable for fastening the plug-on motor
- Weight 15,3 kg/m
- Please specify dimension L (belt width)

APPLICATIONS

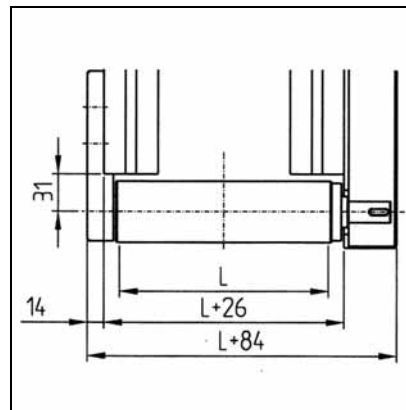
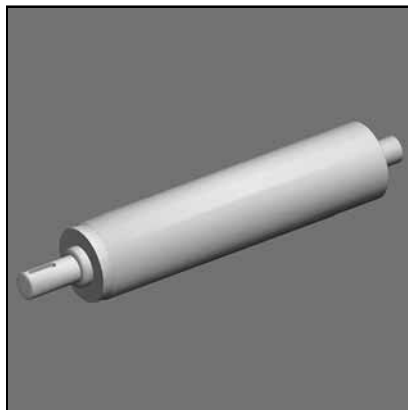
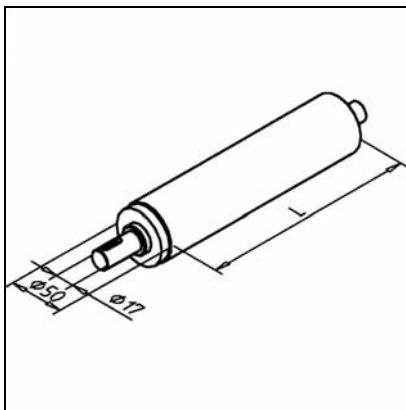
- MiniTec belt conveyor systems DSGM with torque support Wa 20 and WA 30
- Suitable for MiniTec plug-on motor with torque support type 90

ASSEMBLY

- Insert the belt driving cylinder in the conveyor bearing for plug-on motor 45-20 Part-N° 21.0917/0
- Mount the conveyor bearing Part N° 21.0993/0 on the opposite side

BELT DRIVING CYLINDER 45 FOR MOTOR KIT

Part. N° 29.5022/0



TECHN. DATA / ITEMS SUPPLIED

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

APPLICATIONS

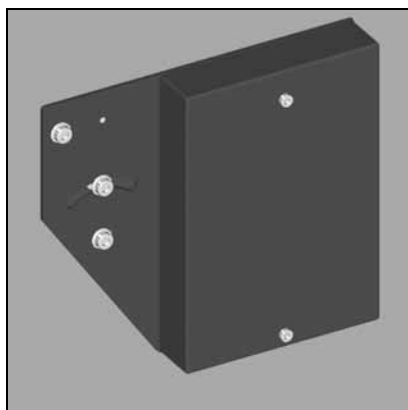
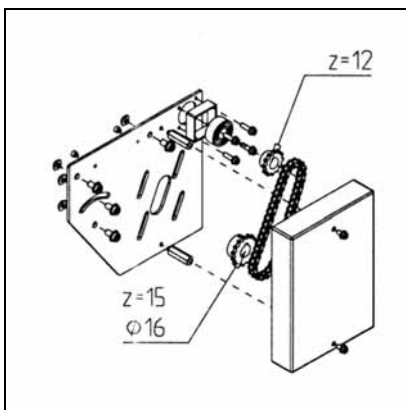
- Can only be used with the MiniTec belt conveyor kit

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

MOTOR ATTACHMENT KIT 45 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
- Fastening kit
- Weight 3,06 kg

APPLICATIONS

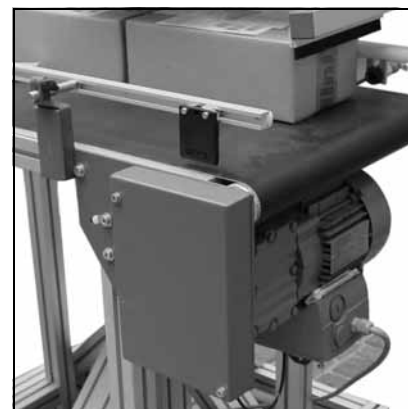
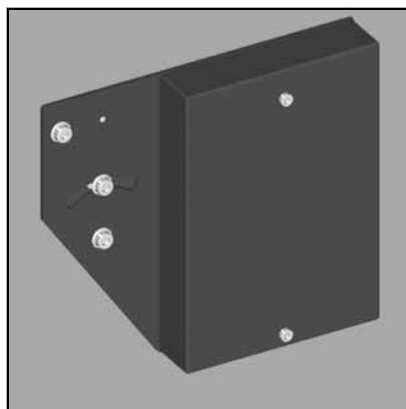
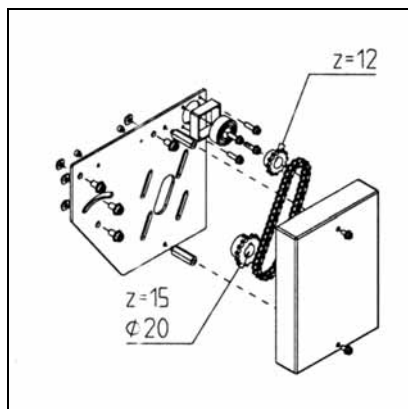
- Belt-conveyors made of MiniTec aluminium profiles
- Suitable for attachment of spur wheel back-geared motors; flange Ø 120 mm
- Belt driving cylinder Part N° 29.5022/0 and belt tensioning cylinder Part N° 21.0994/0

ASSEMBLY

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

MOTOR ATTACHMENT KIT 45 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
- Fastening kit
- Weight 3,06 kg

APPLICATIONS

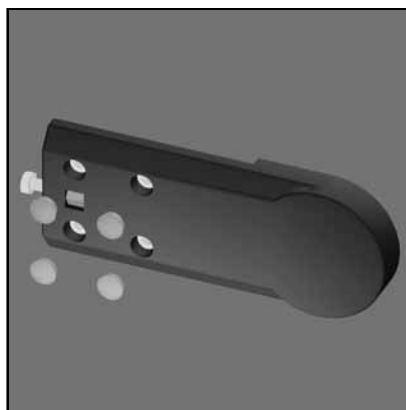
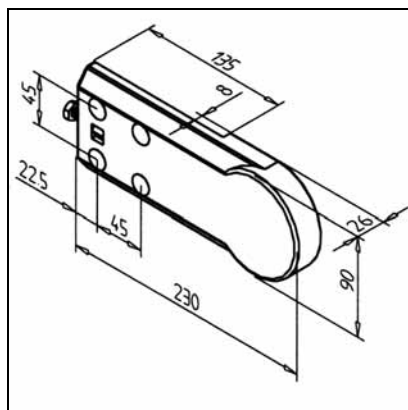
- Belt-conveyors made of MiniTec aluminium profiles
- Suitable for attachment of spur wheel back-geared motors; flange Ø 120 mm
- Belt driving cylinder **Part N° 29.5022/0** and belt tensioning cylinder **Part N° 21.0994/0**

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

CONVEYOR BEARING 90

Part. N° 21.0985/0



TECHN. DATA / ITEMS SUPPLIED

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

APPLICATIONS

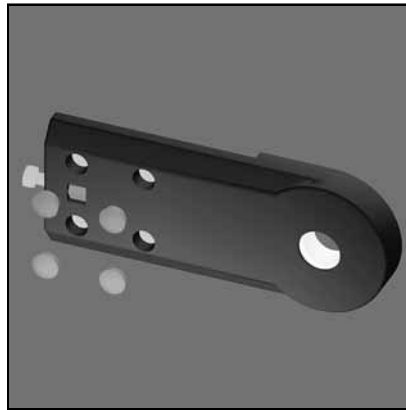
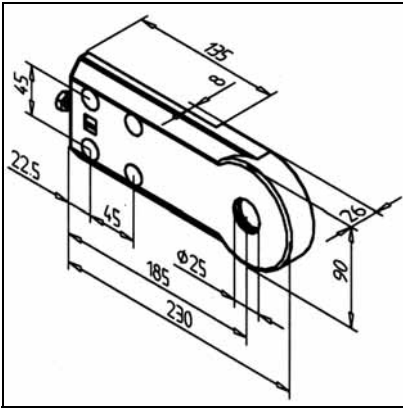
- Bearing of belt-tensioning cylinders 90 in MiniTec belt-conveyors

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

APPLICATIONS

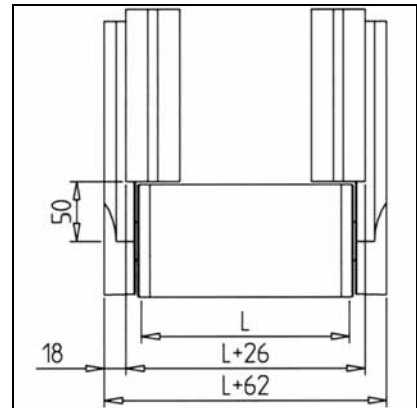
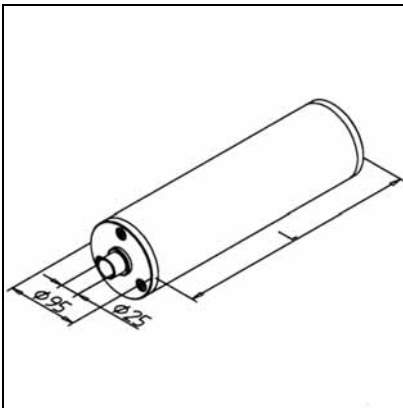
- Bearing of belt driving cylinders in MiniTec belt-conveyors
- Attachment of motors or chain wheels, or belt pulleys on shaft; max. $\varnothing 25$ mm

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)

BELT TENSIONING CYLINDER 90

Part. N° 21.0982/0



TECHN. DATA / ITEMS SUPPLIED

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

APPLICATIONS

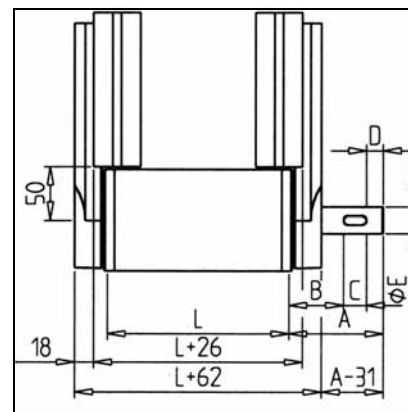
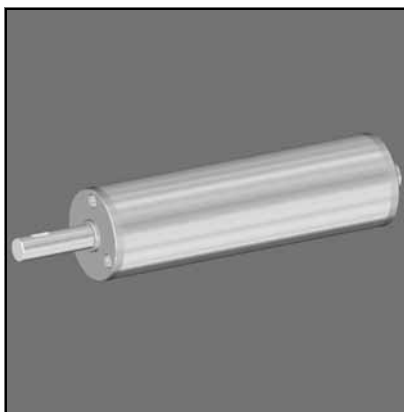
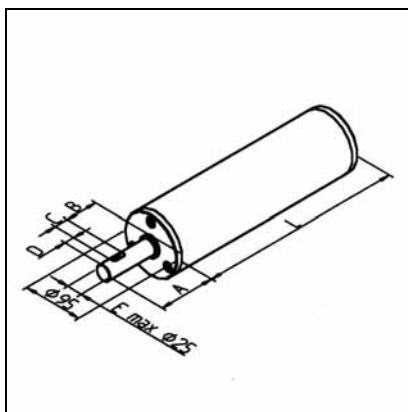
- MiniTec belt conveyor system
- Use suitable conveyor bearing Part N° 21.0985/0

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

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) as well as dimensions A, B, C, D and E (if > Ø 25 mm)

APPLICATIONS

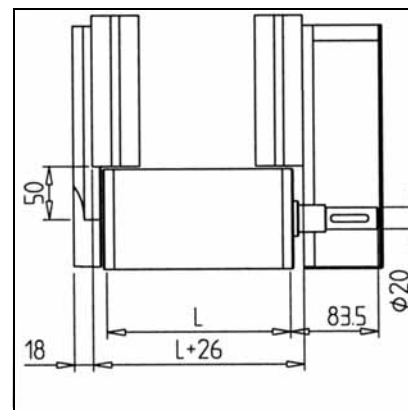
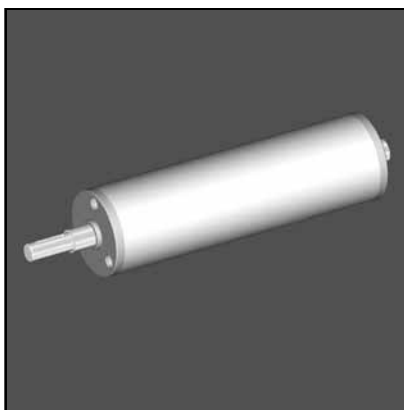
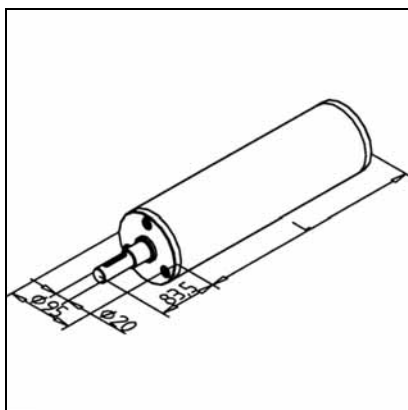
- MiniTec belt conveyor system
- Use suitable conveyor bearing Part N° 21.0985/0 and Part N° 21.0985/1

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 DRIVING CYLINDER 90 FOR MOTOR KIT 90

Part. N° 29.5069/0



TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated
- Turned spherically
- Axle Ø 20
- Weight 15,3 kg/m
- Please specify dimension L (belt width)

APPLICATIONS

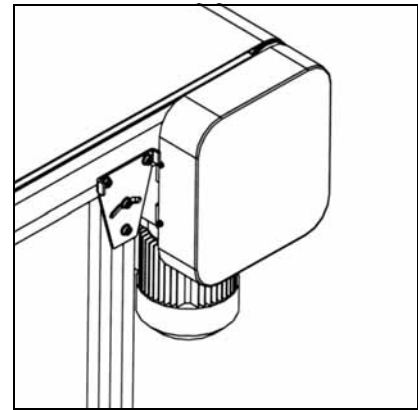
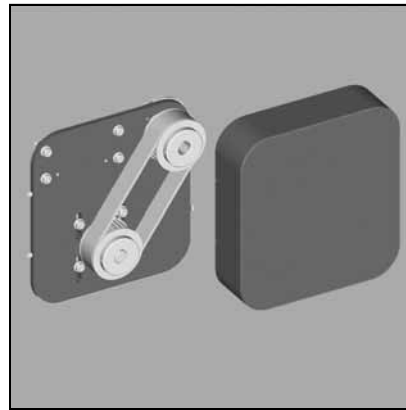
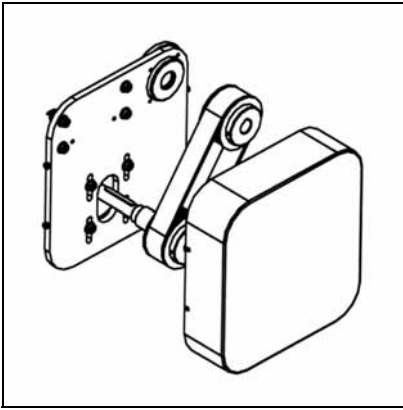
- MiniTec belt conveyor system with motor kit 90 Part N° 29.5031/0 and drum bearing Part N° 21.0985/0

ASSEMBLY

- Insert the belt driving cylinder in the bearing housing on the motor side
- Mount the conveyor bearing Part N° 21.0985/0 on the opposite side

MOTOR KIT 90

Part. N° 29.5060/0



TECHN. DATA / ITEMS SUPPLIED

- Motor plate and cover, steel, powder coated, grey
- Housing with self aligning
- Belt driving cylinder $\varnothing 20$
- Timing belt 32 AT 10
- Fastening kit
- Weight 6,3 kg

APPLICATIONS

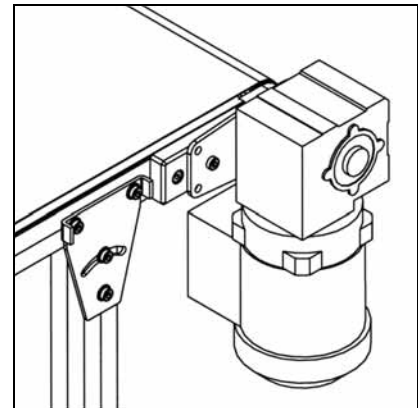
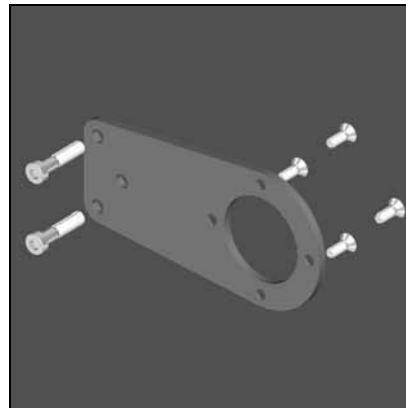
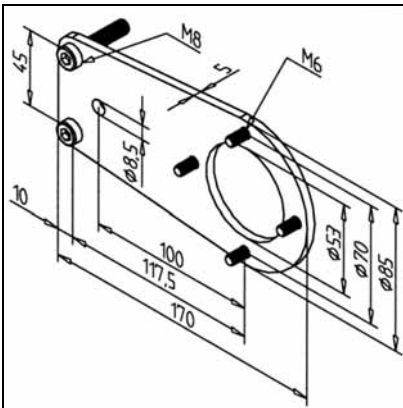
- Belt-conveyors made of MiniTec aluminium profiles
- Suitable for attachment of spur wheel back-geared motors; flange $\varnothing 120$ mm

ASSEMBLY

- Screw flange plate on basic frame; mount housing with bearing
- Mount motor and tension timing belt
- Insert belt driving cylinder; mount conveyor bearing Part N° 21.0985/0 on the opposite side
- Mount cover

TORQUE SUPPORT WA 20

Part. N° 29.5036/0



TECHN. DATA / ITEMS SUPPLIED

- Torque support steel, powder coated grey
- Fastening kit for type 90
- Weight 0,432 kg

APPLICATIONS

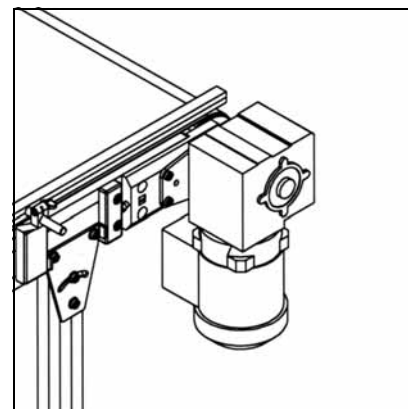
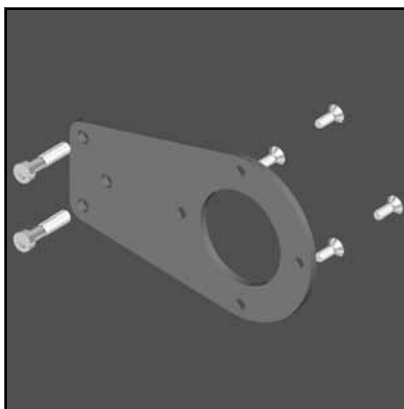
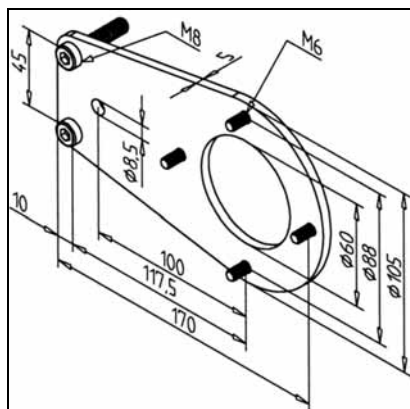
- Minitec belt conveyors
- Attachment of plug-on motor DSGM 180 and DSGM 250 for MiniTec belt conveyors 90
- Type 90: Use suitable belt driving cylinder Part N° 29.5035/0 and conveyor bearing Part N° 21.0985/1
- Type 45: Use suitable belt driving cylinder Part N° 29.5042/0 and conveyor bearing Part N° 21.0917/0

ASSEMBLY

- Fix torque support onto motor
- Attach motor on belt driving cylinder
- Fasten torque support
- Type 45: use screw M8x20 (no shipment)

TORQUE SUPPORT WA 30

Part. N° 29.5037/0



TECHN. DATA / ITEMS SUPPLIED

- Torque support steel, powder coated grey
- Fastening kit for type 90
- Weight 0,516 kg

APPLICATIONS

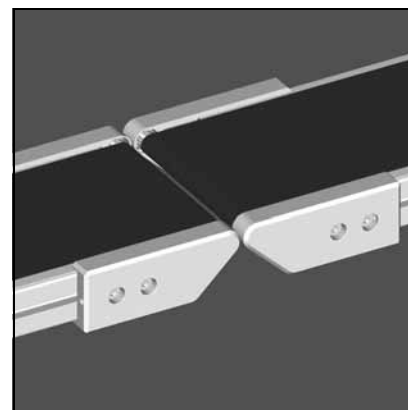
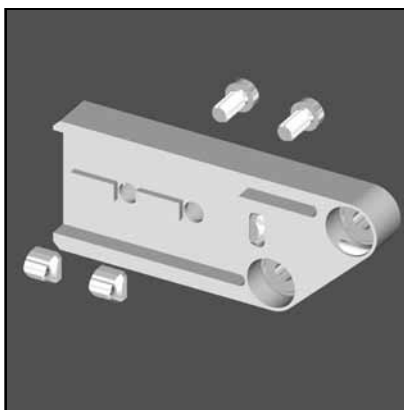
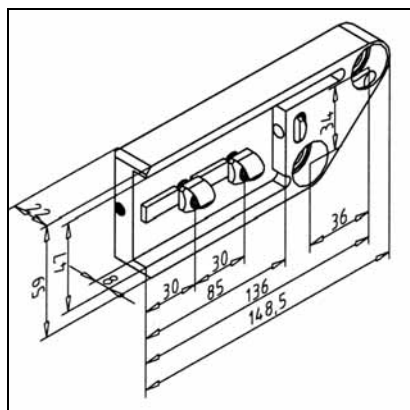
- MiniTec belt conveyors
- Attachment of plug-on motor DSGM 180 and DSGM 250 for MiniTec belt conveyors 90
- Type 90: Use suitable belt driving cylinder Part N° 29.5035/0 and conveyor bearing Part N° 21.0985/1
- Type 45: Use suitable belt driving cylinder Part N° 29.50421/0 and conveyor bearing Part N° 21.0917/0

ASSEMBLY

- Fasten torque support onto motor
- Attach motor on belt driving cylinder
- Fasten torque support
- Type 45: use screw M8x20 (no shipment)

DRUM BEARING LEFT KNIFE EDGE

Part. N° 29.5312/0



TECHN. DATA / ITEMS SUPPLIED

- Aluminium, natural anodized
- Deep groove ball bearing with Ø 8 bore
- With fastening kit
- Weight 0,375 kg/m

APPLICATIONS

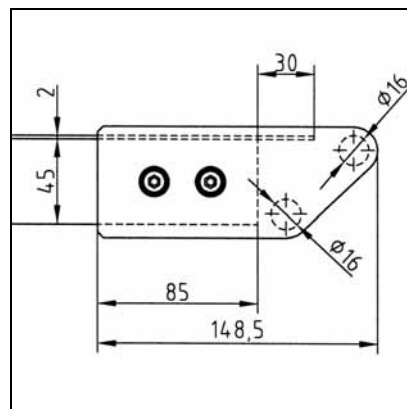
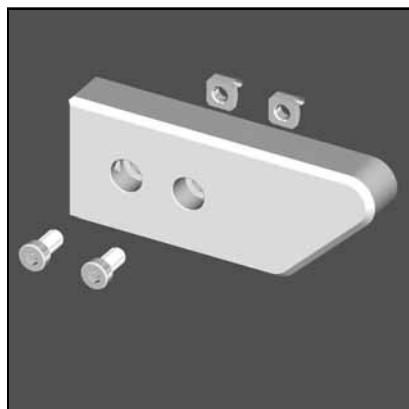
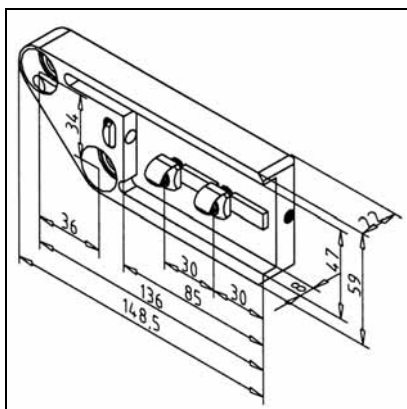
- Knife edge return shaft bearing
- For small transport goods and light loads

ASSEMBLY

- Use fastening kit
- Align shaft exactly with angle to avoid offset for the bearing

DRUM BEARING RIGHT KNIFE EDGE

Part. N° 29.5311/0



TECHN. DATA / ITEMS SUPPLIED

- Aluminium, natural anodized
- Deep groove ball bearing with Ø 8 bore
- With fastening kit
- Weight 0,375 kg/m

APPLICATIONS

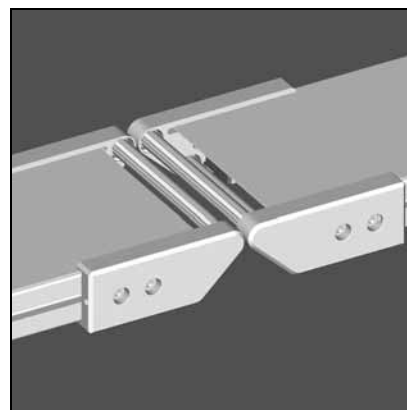
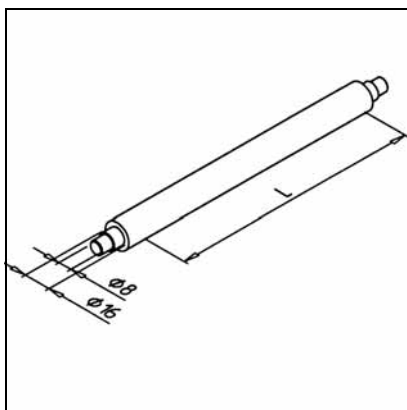
- Knife edge return shaft bearing
- For small transport goods and light loads

ASSEMBLY

- Use fastening kit
- Align shaft exactly with angle to avoid offset for the bearing

RETURN SHAFT 16 KNIFE EDGE

Part. N° 29.5313/0



TECHN. DATA / ITEMS SUPPLIED

- Steel
- Not spherical
- Shaft journal Ø 8
- Weight 1,578 kg/m
- Please specify dimension L (belt width), max. 300 mm

APPLICATIONS

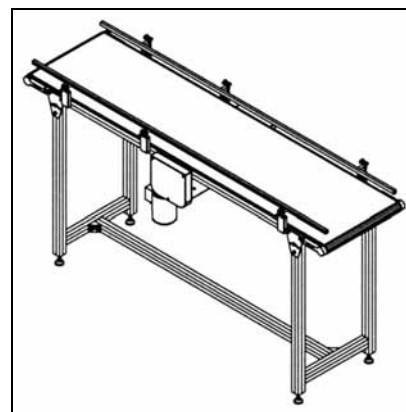
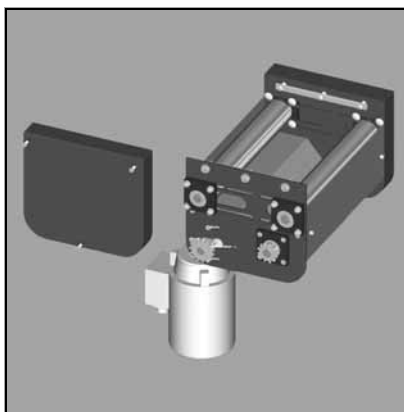
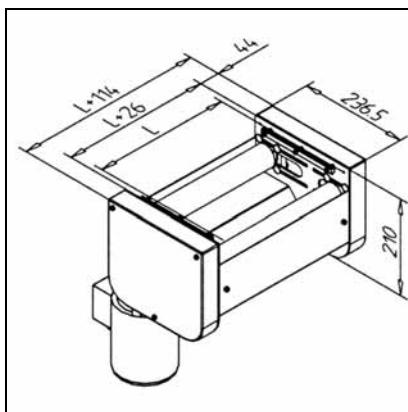
- Return shaft for knife edge belt
- For small transport goods and light loads

ASSEMBLY

- Align shaft exactly with bracket to avoid misalignment for the bearing

CENTER DRIVE - 3 WHEELS SYSTEM

Part. N° 29.5260/0



TECHN. DATA/ITEMS SUPPLIED

- Weight 0,820 kg/m
- Ball bearings on both sides
- With fastening kit
- Part. N° 29.5260/0
Weight with drive ø 50: 50,800 kg/m
- Part. N° 29.5261/0
Weight with drive ø 70: 70,566 kg/m

APPLICATIONS

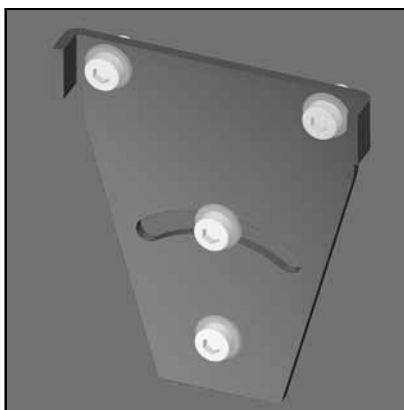
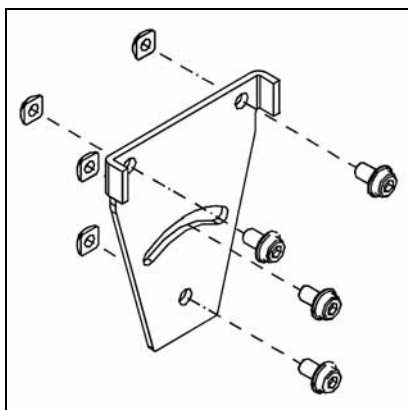
- Space saving drive
- Motor below conveyor
- Suitable for nosebar on both ends

ASSEMBLY

- First install sheets
- Assemble driving drum, tensioning drive and bearing housing
- Assemble sprocked wheel, chain and motor. Adjust belt-tension after that

SWIVEL PLATE

Part. N° 29.5001/0



TECHN. DATA / ITEMS SUPPLIED

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

APPLICATIONS

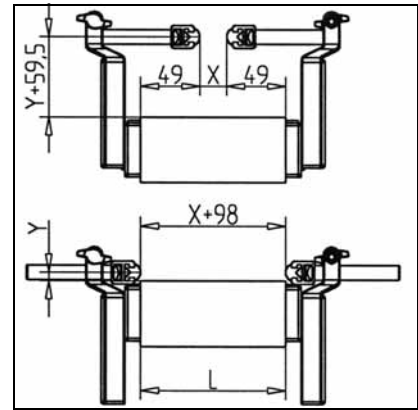
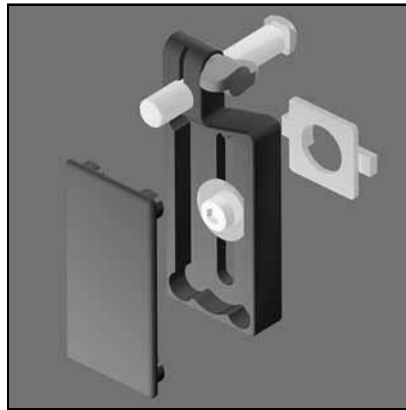
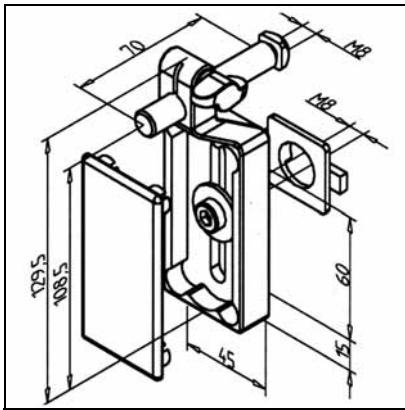
- Attachment of the sub-construction on MiniTec belt conveyor
- Also suitable for inclined belt conveyors
- The swivel plate is also used as a counterbearing to tighten the belt
- Range $\pm 35^\circ$

ASSEMBLY

- Fasten at the conveyor profiles at the subconstruction with fastening kit

LATERAL GUIDE SUPPORT 70

Part. N° 29.5025/0



TECHN. DATA / ITEMS SUPPLIED

- PA 6 GF, grey
- Distance bolt, stainless steel
- Anti-rotation device AL GD
- Fastening kit
- Weight 0,137 kg

APPLICATIONS

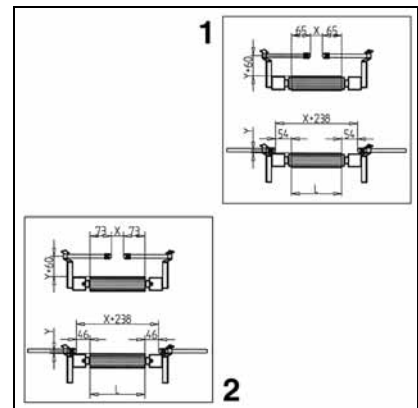
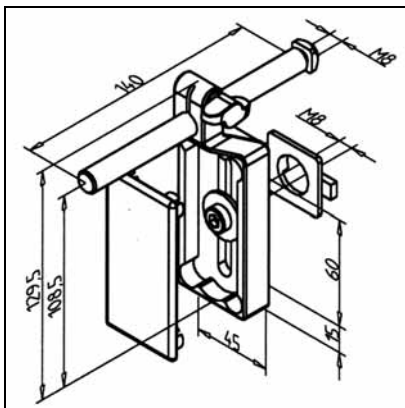
- Adjustable lateral guides for MiniTec belt conveyors
- We recommend: approx. 500 mm distance between the supports

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
- Anti-torsion device AL GD
- Fastening kit
- Weight 0,142 kg

APPLICATIONS

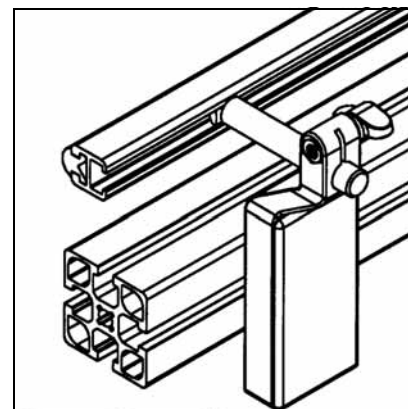
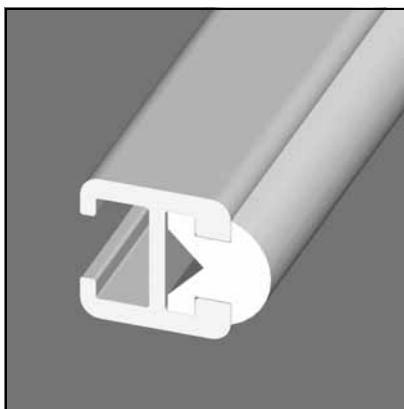
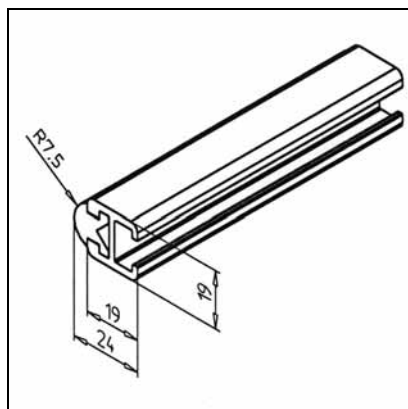
- Adjustable lateral guides for MiniTec belt conveyors
- We recommend: approx. 500 mm distance between the supports

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

Part. N° 29.5034/0



TECHN. DATA / ITEMS SUPPLIED

- Aluminium, anodized E6/EV1	
- Sliding profile PE	
- Weight	0,551 kg/m
- Length	6 m

APPLICATIONS

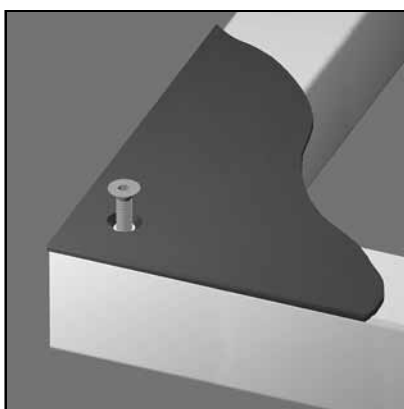
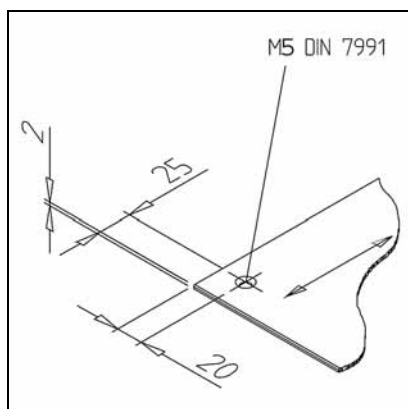
- Adjustable lateral guide for conveyors
- Recommended length: axial distance A + 40 mm

ASSEMBLY

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

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	

APPLICATIONS

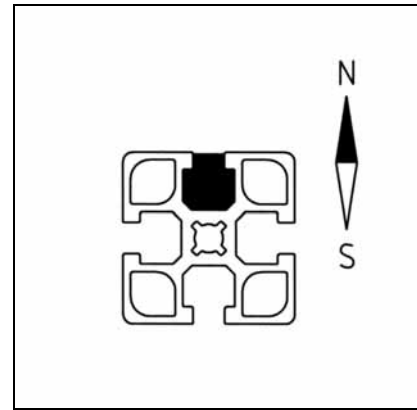
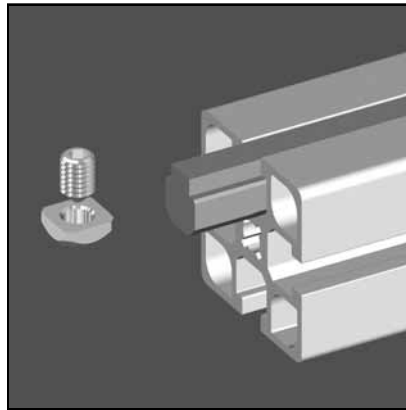
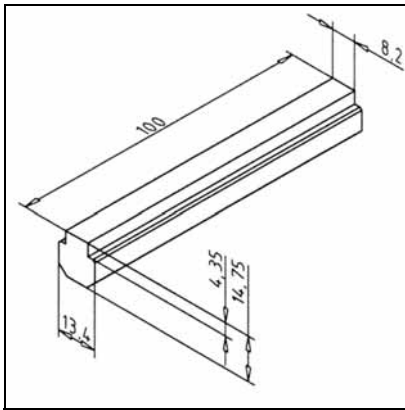
- Support for conveyor belts
- For MiniTec conveyor systems

ASSEMBLY

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

T-SLOT MAGNET

Part. N° 21.0023/0



TECHN. DATA/ITEMS SUPPLIED

- 1 Magnet zinc plated
- Energy density $BH_{max} = 263 \text{ kJ/m}^3$
- Magnetic remanence, $B_r = 1170 \text{ mT}$
- Coercive force, $JH_c = 955 \text{ kA/m}$
- Without fastening kit
- Weight 0,13 kg
- Attention: Electric- and memory devices can be faulted by the magnet

APPLICATIONS

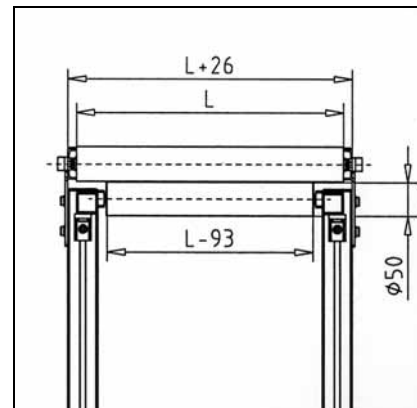
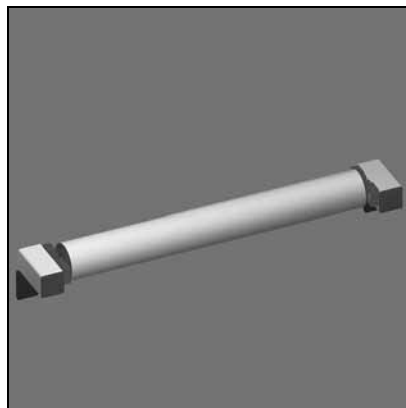
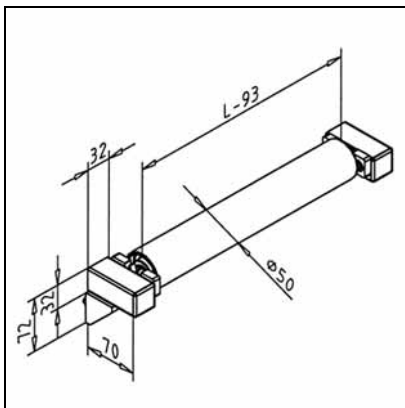
- Adhesive magnet for tools
- Below conveyors as guidance, for magnetic transported material or higher conveyor speeds

ASSEMBLY

- Insert magnet into t-slot
- For fixing: (highly recommended)
Use end cap AL, set screw with square nut or t-slot bar

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
- Fastening kit
- Weight 0,487 kg
- Please specify dimension L (belt width)

APPLICATIONS

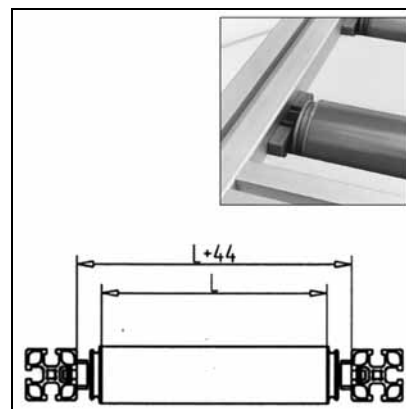
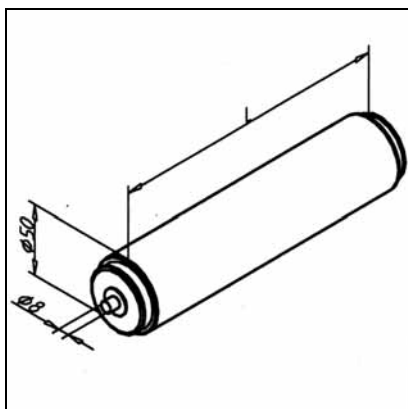
- MiniTec belt conveyor system
- As a support for the lower side of long belt conveyors
- We recommend to install one support roller for each intermediate support on the belt conveyor
- Use this support roller kit only with belt width > 115 mm

ASSEMBLY

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

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°

APPLICATIONS

- Production of roller conveyors with or without drive

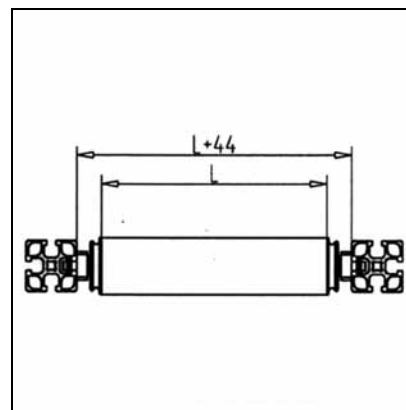
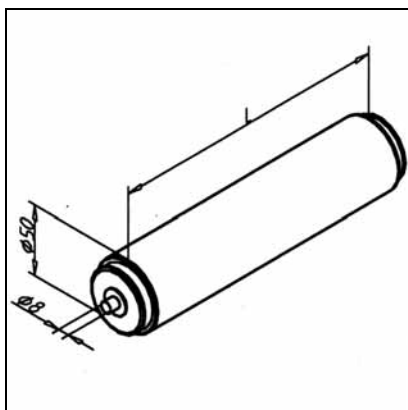
ASSEMBLY

- Clip in roller support

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

TRANSPORT ROLLER AL

Part. N° 21.1716/0



TECHN. DATA / ITEMS SUPPLIED

- Completely mounted transport roller, Alu-tube

- Please indicate dimension L

APPLICATIONS

- Production of roller conveyors with or without drive

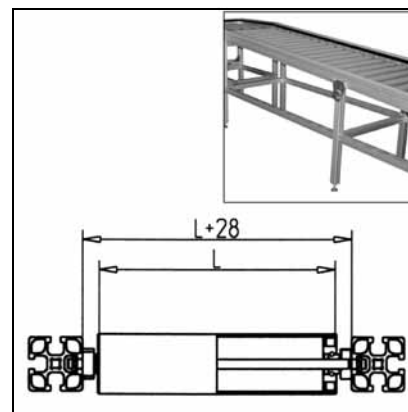
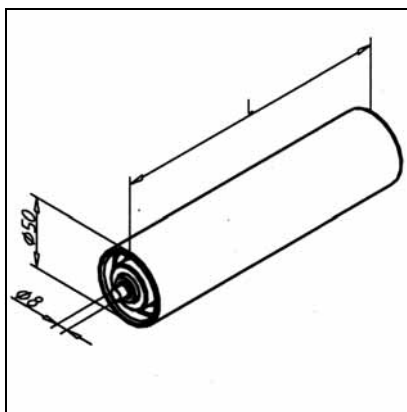
ASSEMBLY

- 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

APPLICATIONS

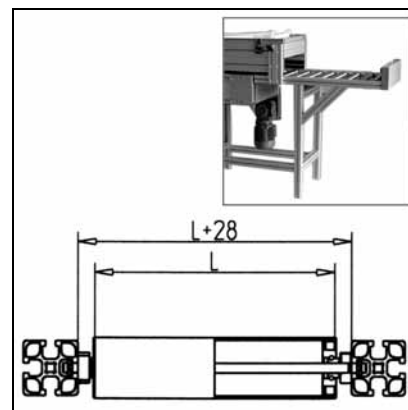
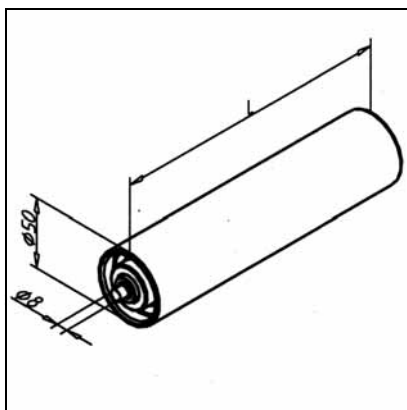
- Production of roller conveyors without drive

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

APPLICATIONS

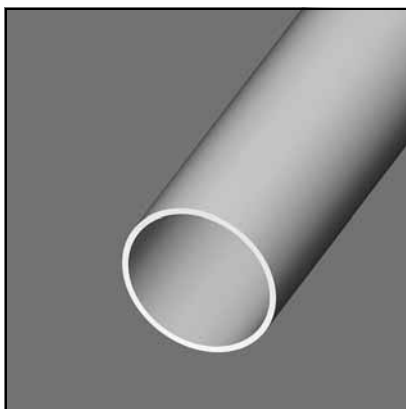
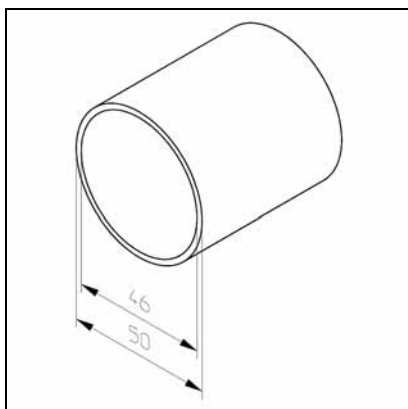
- Production of roller conveyors without drive

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 0,820 kg/m
- Length 6 m
- Please indicate needed tube length

APPLICATIONS

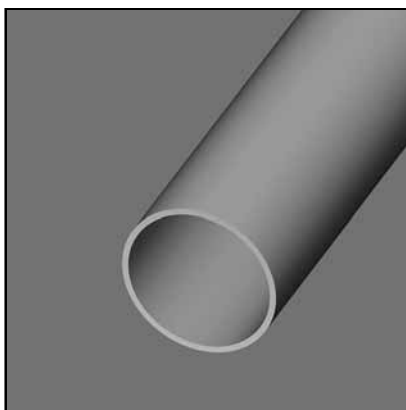
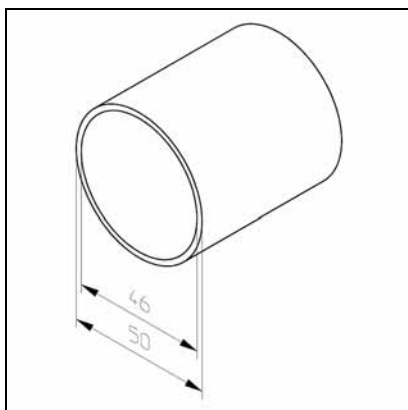
- Transport rollers at any length for driven or non-driven roller conveyors

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 0,420 kg/m
- Length 3 m
- Please indicate needed tube length

APPLICATIONS

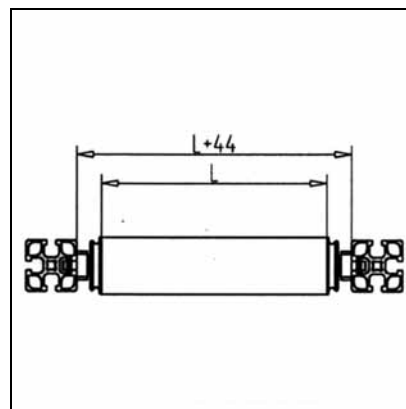
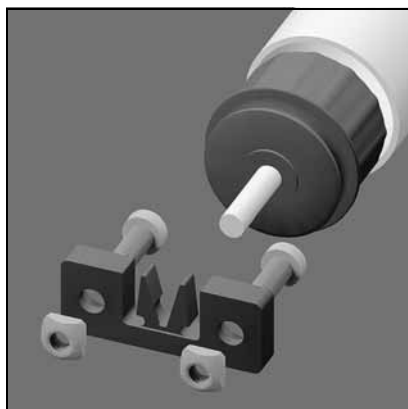
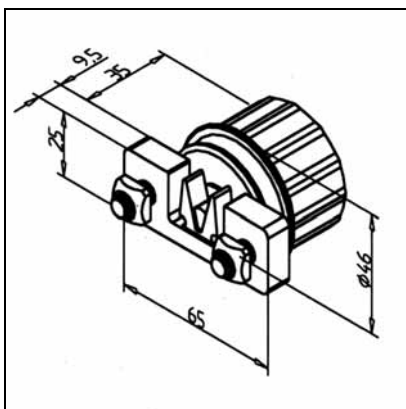
- Transport rollers at any length for driven or non-driven roller conveyors

ASSEMBLY

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

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
- Fastening kit
- For transport rollers of 60 - 1000 mm
- Weight 0,42 kg
- Load max. (roller) 20 kg

APPLICATIONS

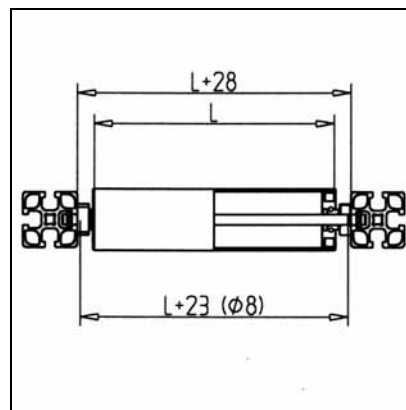
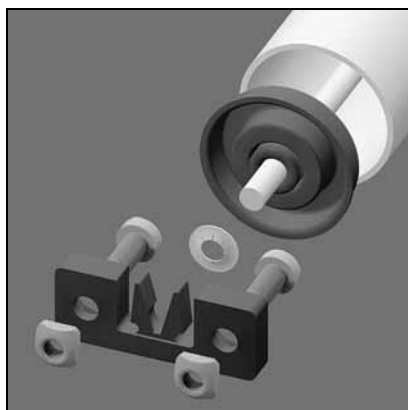
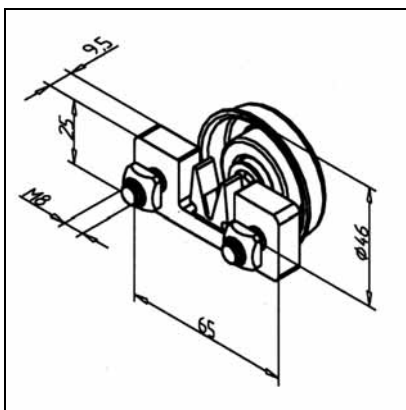
- Roller conveyors at any length
- Drive via round belt Ø 5 mm possible
- The rollers can be replaced individually

ASSEMBLY

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

BEARING ASSEMBLY S

Part. N° 21.1722/0



TECHN. DATA / ITEMS SUPPLIED

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

APPLICATIONS

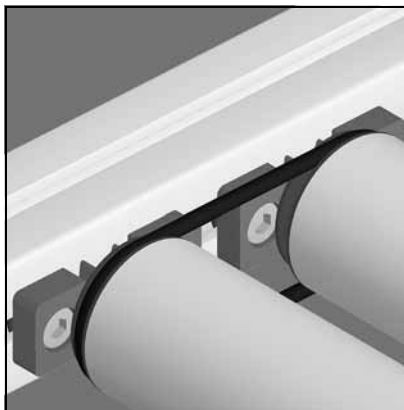
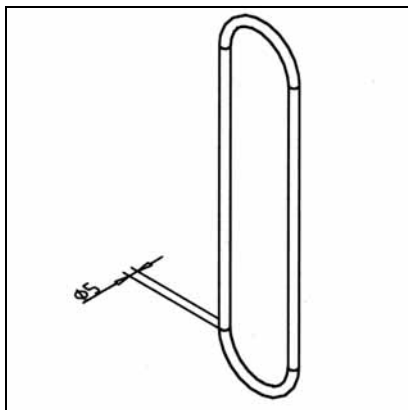
- Roller conveyors at any length
- The rollers can be replaced individually

ASSEMBLY

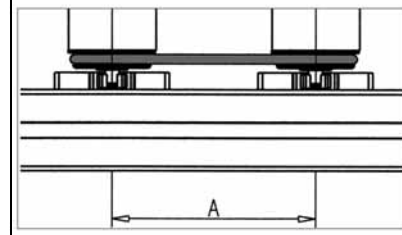
- Attachment of the roller support on all profiles possible
- Mount roller carrier
- Press bearing assembly into the tube
- Clip in transport roller

DRIVING BELT 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
- Ø = 5 mm
- A = 80 mm
- For other lengths see selection table on the right

APPLICATIONS

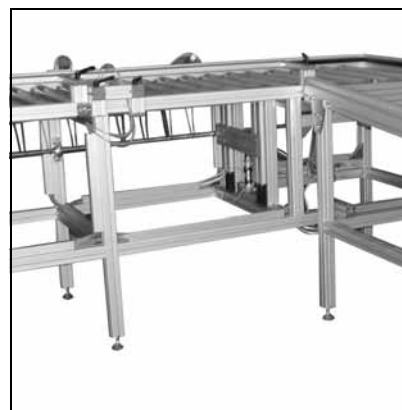
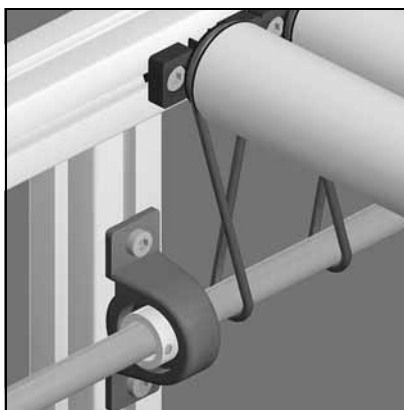
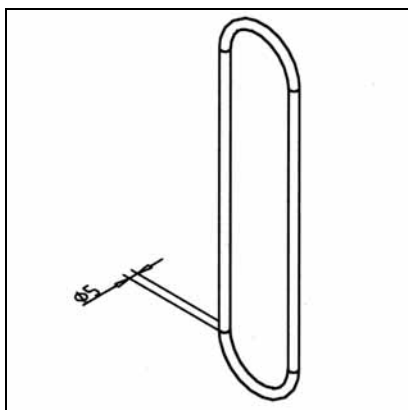
- Attachment of transport rollers at insufficient places via groove in bearing assembly from roller to roller

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

DRIVING BELT PU

Part. N° 21.1050/7



TECHN. DATA / ITEMS SUPPLIED

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

APPLICATIONS

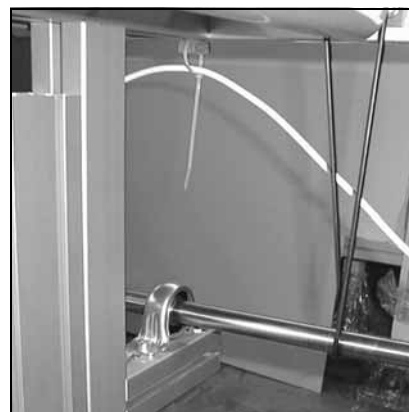
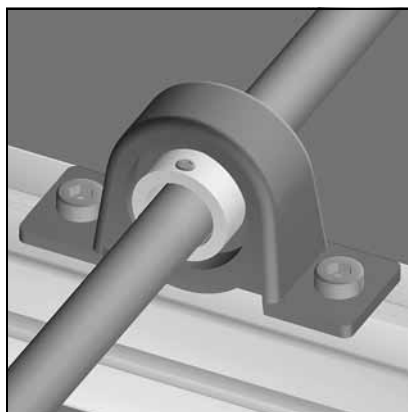
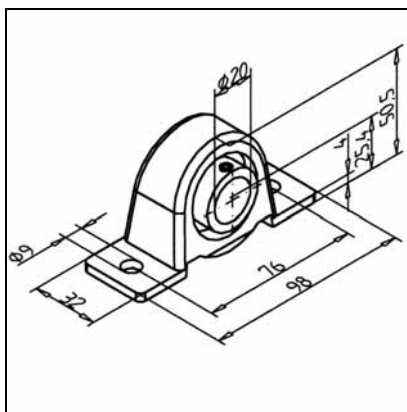
- Drive of transport rollers via groove in bearing assembly

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

SUPPORT BEARING 20

Part. N° 50.0128/0



TECHN. DATA / ITEMS SUPPLIED

- Housing, steel, zinc plated

- Fastening kit

- Bore Ø 20 mm

- stat. Co = 6350 N

- dyn. C = 13000 N

- Weight 0,19 kg

APPLICATIONS

- Driving of roller-conveyors with driving belts

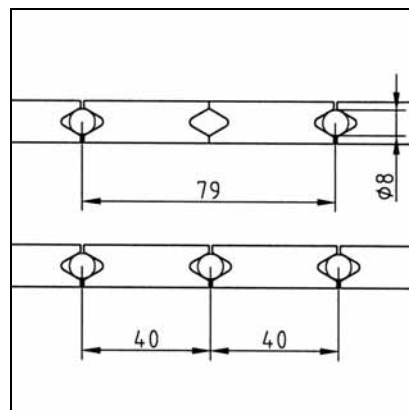
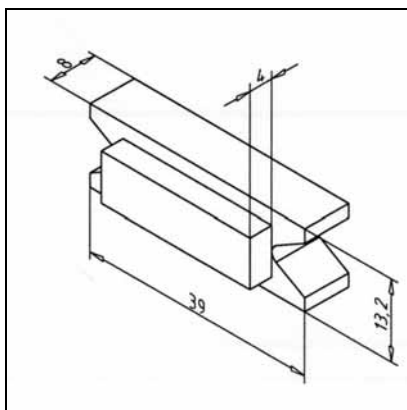
ASSEMBLY

- With fastening kit

- Lead shaft trough bearing and secure with set screw

SPACER 39

Part. N° 22.1197/0



TECHN. DATEN / ITEMS SUPPLIED

- Spacer 39, PP black

- For shaft ø 8 mm

- Weight 0,002 kg

APPLICATIONS

- For manufacturing roller conveyors with equal pitch spacing

- Suitable for all system grooves

- Possible pitch 40 und 79

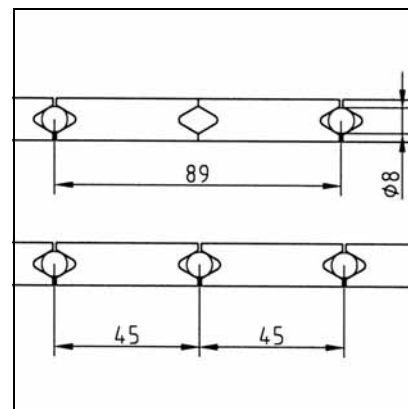
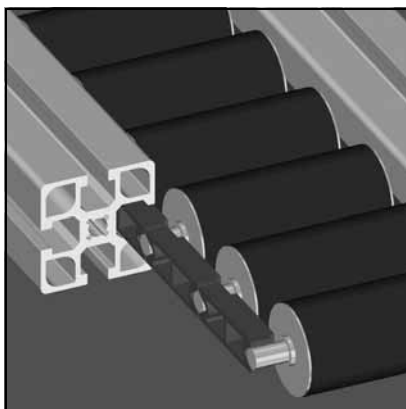
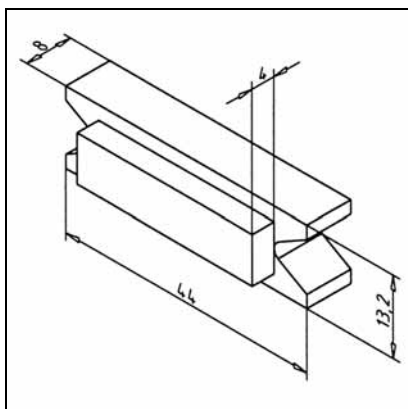
ASSEMBLY

- Push in groove, alternating spacer and conveyor roller

- Clamp the first and the last spacer

SPACER 44

Part. N° 22.1198/0



TECHN. DATEN / ITEMS SUPPLIED

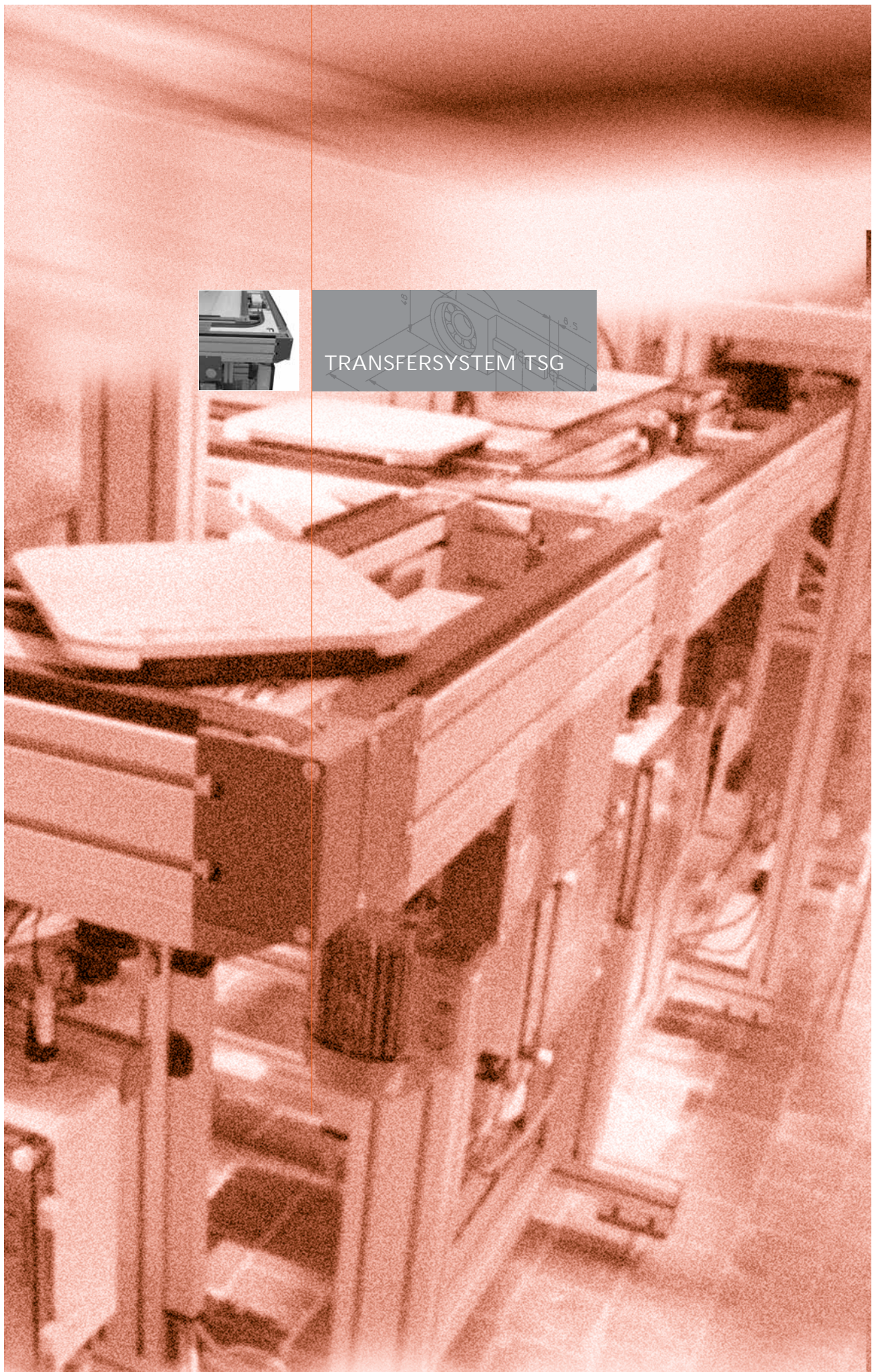
- Spacer 44, PP black	
- For shaft \varnothing 8 mm	
- Weight	0,003 kg

APPLICATIONS

- For manufacturing roller conveyors with equal pitch spacing
- Suitable for all system grooves
- Possible pitch 45 und 89

ASSEMBLY

- Push in groove, alternating spacer and conveyor roller
- Clamp the first and the last spacer



TRANSFERSYSTEM TSG

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:

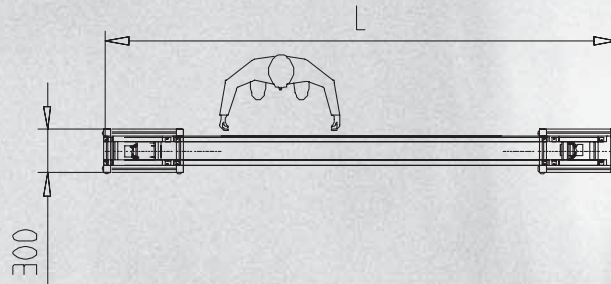
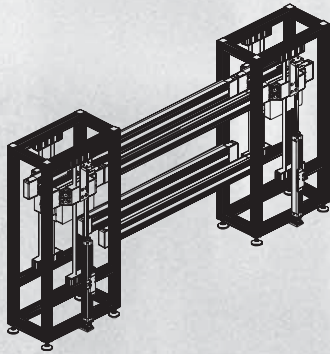
Speed:	11 m/min
Motor nominal power:	120 W
Nominal voltage without frequency converter:	400 V/50 Hz
Nominal voltage with frequency converter:	230 V/50 Hz
Nominal current:	0,29 A
Drive speed:	64 1/min
Drive torque:	13 Nm
Permissible load of conveyor section:	1710 N
Ambient temperature:	0-50° C

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

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

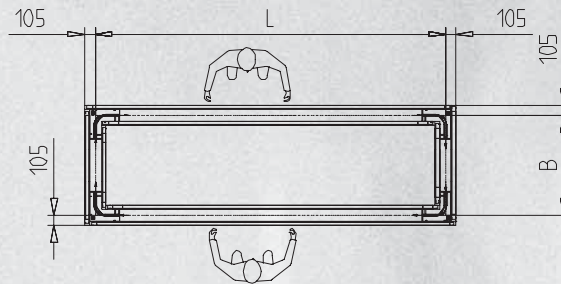
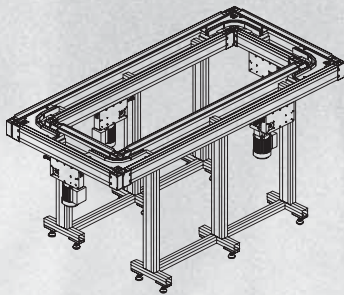
SYSTEM CONCEPTS

Vertical circuit



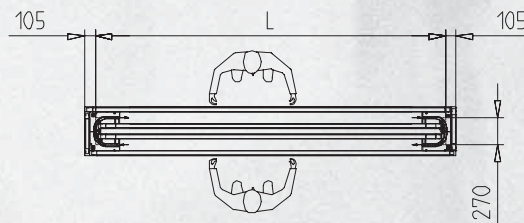
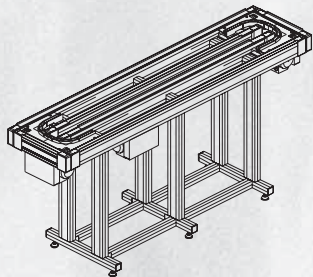
Advantage: low space requirement

Basic loop 90°



Advantage: low investment, simple assembly, minimal control requirements

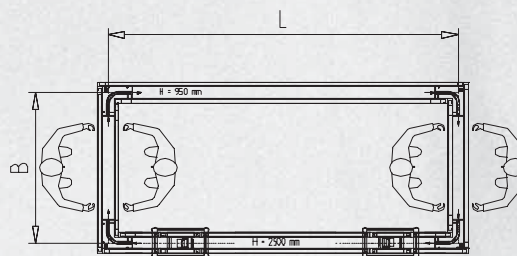
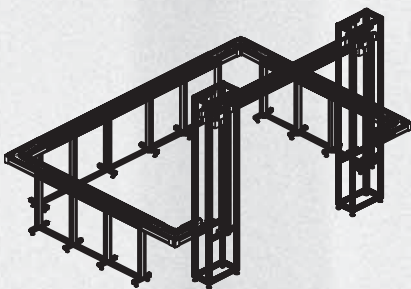
Compact circuit 180°



minimal control requirements

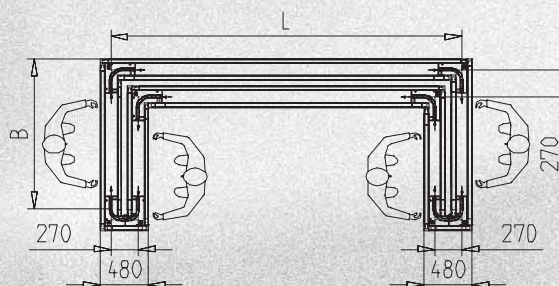
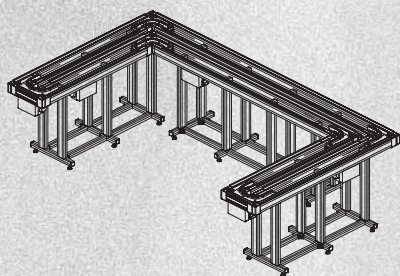
Advantage: low space requirement and investment, easy assembly,

U-circuit with lifting station



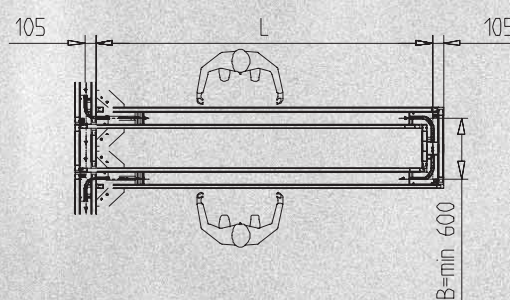
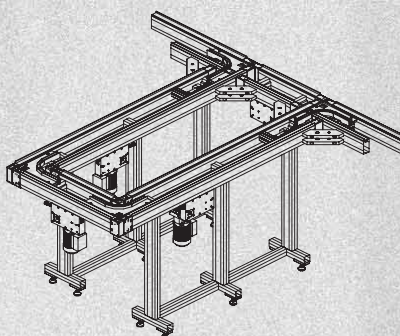
Advantage: very accessible, optimal use of surface area

Double-U circuit



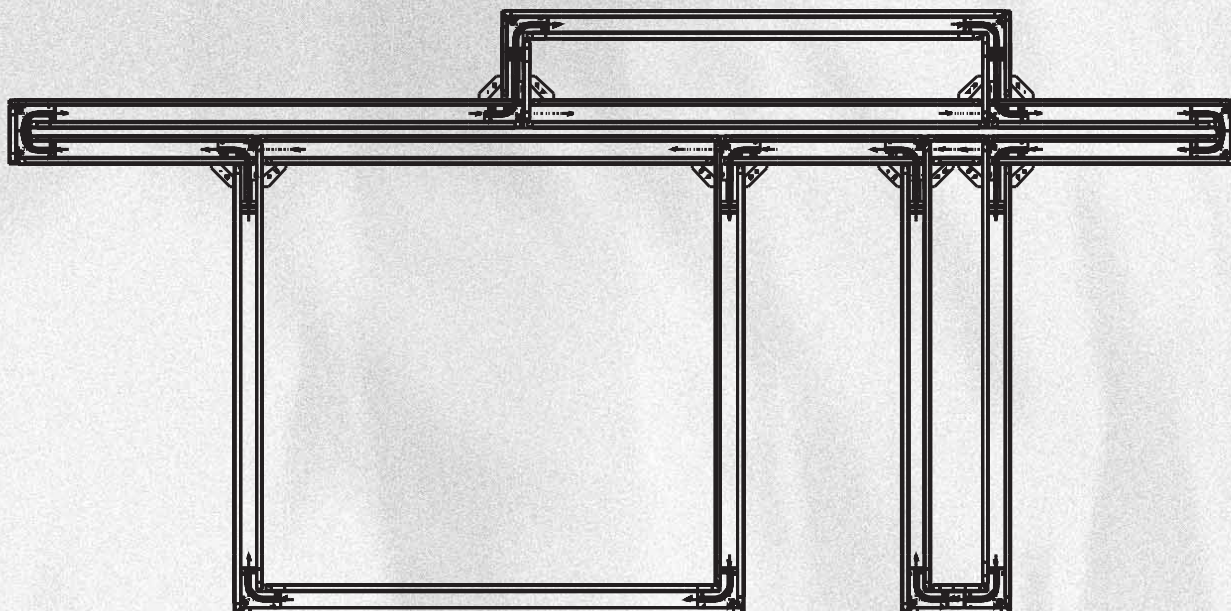
Advantage: optimal use of area, accessibility to entire conveyor line

Shunt



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

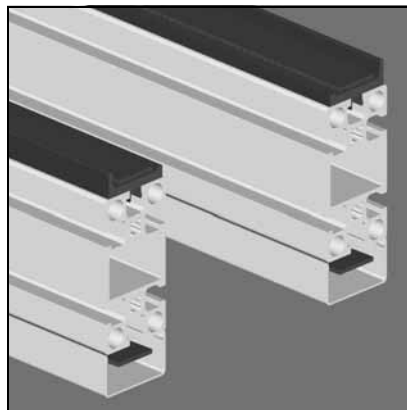
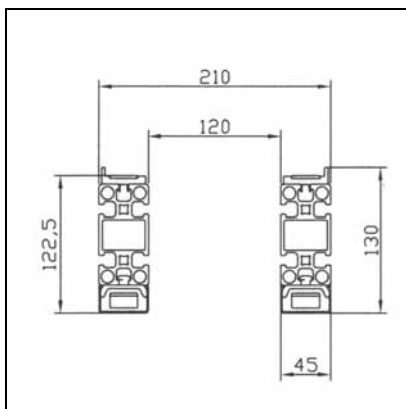
Combination of different variants



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

BASIC LINE 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 abrasion resistant, Lmax: 2 m
- Cover profile for belt with clip attachment
- Track width: 200 mm
- Line length according to specification
- $I_x = 112,823 \text{ cm}^3$
- $I_y = 28,526 \text{ cm}^3$
- Weight 3,667 kg/m
- Line length min. 270 mm
- Line length max. 4000 mm

APPLICATIONS

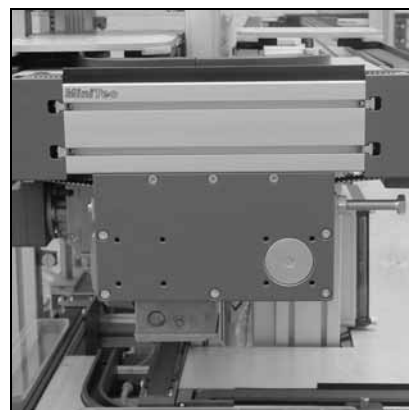
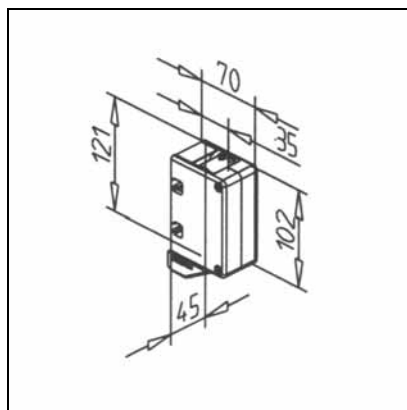
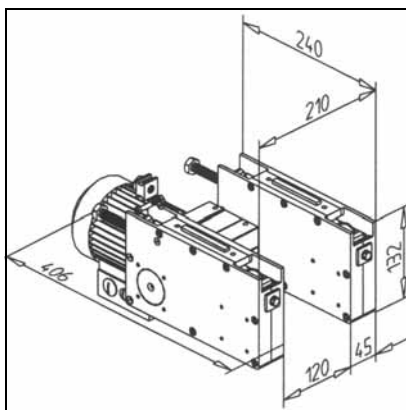
- Use in all TSG transfer systems
- Max. line load depends on drive concept (see table "Technical Data")
- When exceeding the total load per section please divide into several sections

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
- 4 timing belt reverse units for 25 T5 timing belt

APPLICATIONS

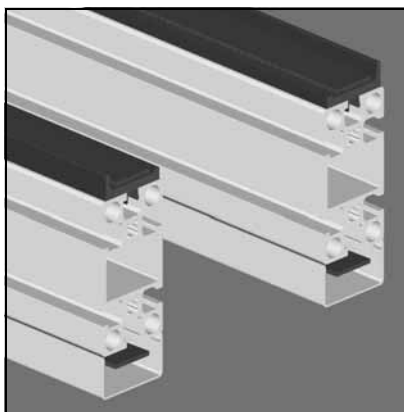
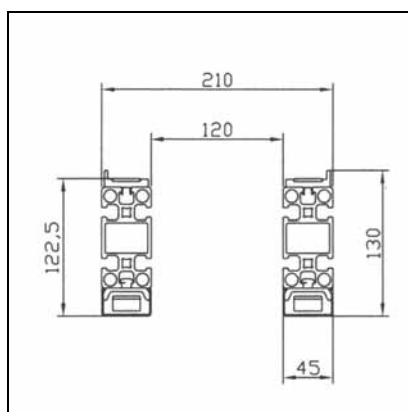
- All TSG transfer systems with 25 T5 timing belt

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
- Easy re-tightening of timing belt at drive unit, without prior disassembly, also during operation

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: 2 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

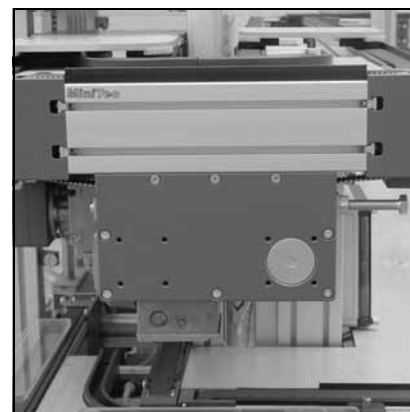
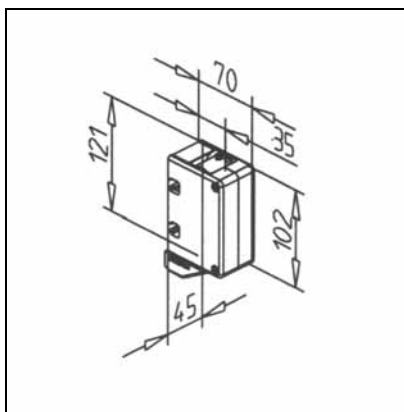
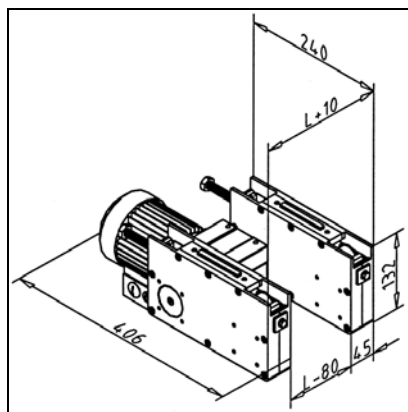
- Use in all TSG transfer systems
- Max. line load depends on drive concept (see table "Technical Data")
- When exceeding the total load per section please divide into several sections

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
- 4 timing belt reverse units for 25 T5 timing belt

APPLICATIONS

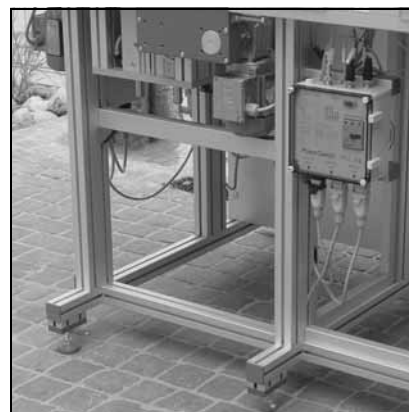
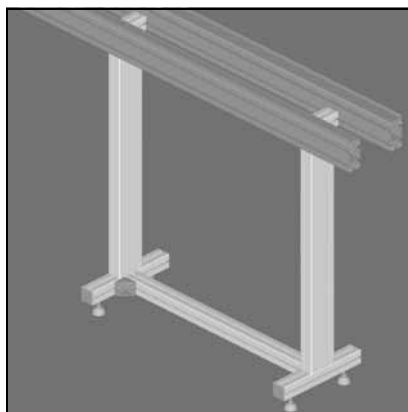
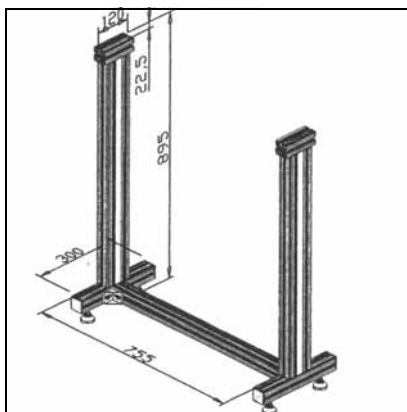
- All TSG transfer systems with 25 T5 timing belt
- Width according to dimension L of basic line

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
- Easy re-tightening of timing belt at drive unit, without prior disassembly, also during operation
- Base frames, 90° units and workpiece tray on request

BASIC BASEFRAME 200

Part. N° 43.0030/0



TECHN. DATA / ITEMS SUPPLIED

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

APPLICATIONS

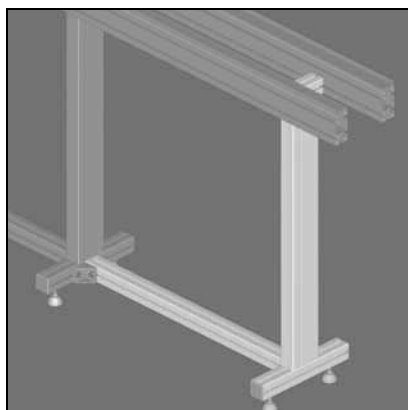
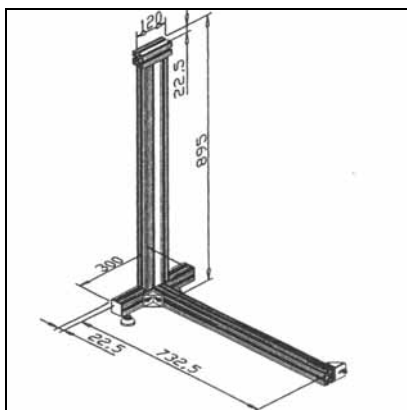
- Substructure for transfer systems with standard working height of 950 mm
- Suitable for track width 200

ASSEMBLY

- Assemble transverse profile with mounting angles at lower profile groove between basic line
- Secure to floor with angles and floor anchors, see page 144, 148

EXTENSION BASEFRAME 200

Part. N° 43.0040/0



TECHN. DATA / ITEMS SUPPLIED

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

APPLICATIONS

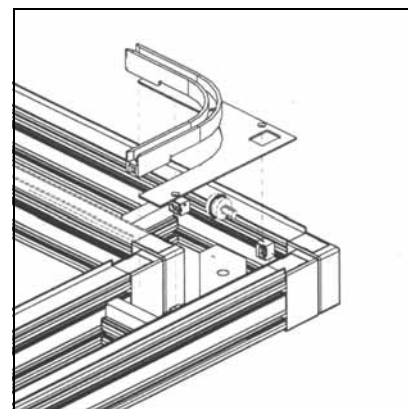
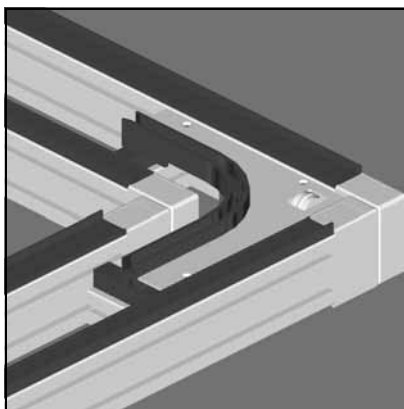
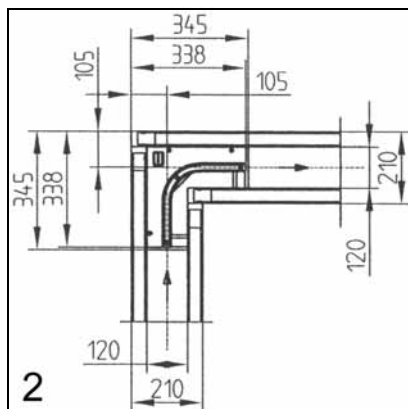
- Substructure for transfer systems with standard working height of 950 mm
- Suitable for track width 200

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, see page 144, 148

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
- Fastening kit

APPLICATIONS

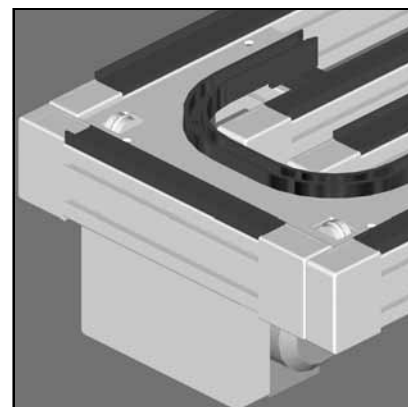
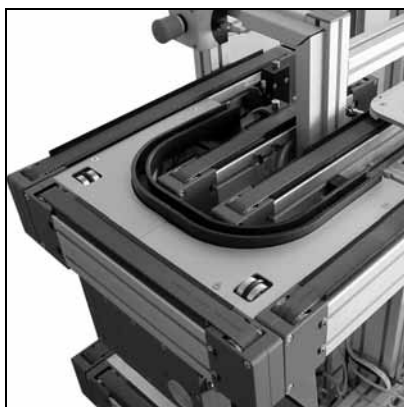
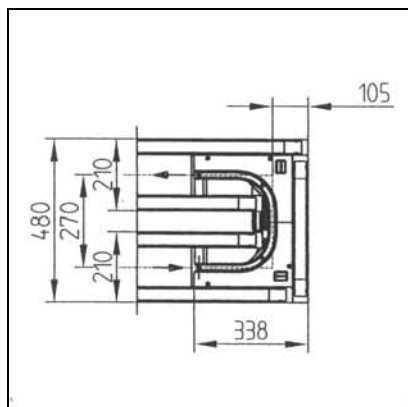
- Use bearing assembly S Part N° 21.1722/0 or bearing assembly for transport roller Part N° 21.1056/0
- Transport rollers at any length for driven or non-driven roller conveyors

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
- Fasten on cover

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
- Fastening kit

APPLICATIONS

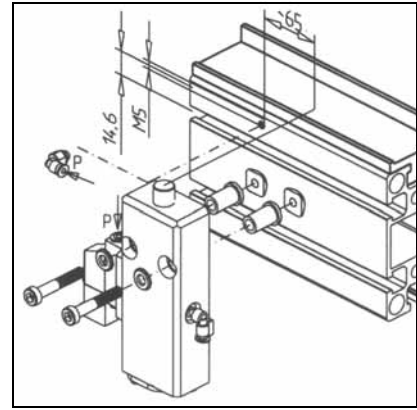
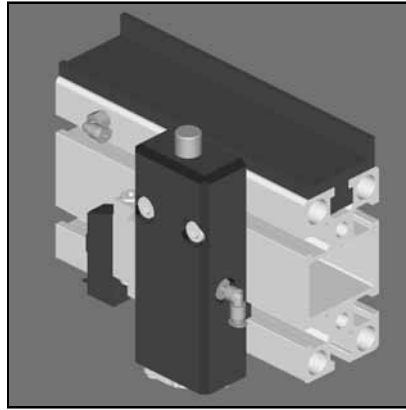
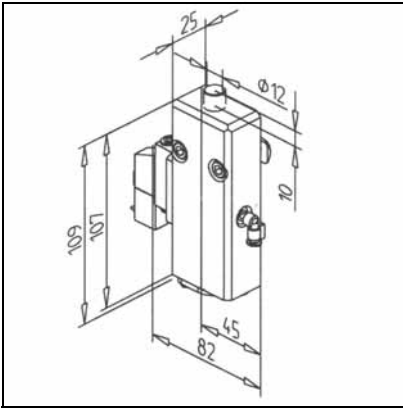
- No separation before the curve required
- Manufacture of compact transfer systems, shunts and combined system concepts
- Suitable for track width 200

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
- Fasten on cover

STOPPER

Part. N° 43.1510/0



TECHN. DATA / ITEMS SUPPLIED

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

APPLICATIONS

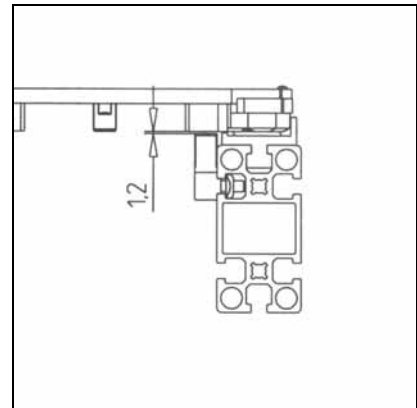
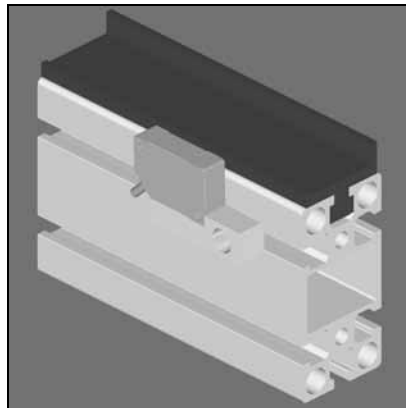
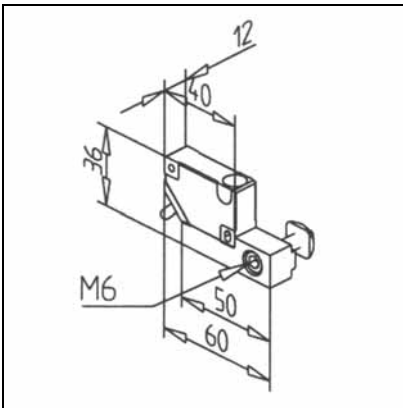
- Separation of workpiece trays before infeed and discharge, lift or lift stations
- Control of priorities in WT flow

ASSEMBLY

- Screw onto inside of transport line at upper profile groove
- Make connection to air supply
- Position can be adjusted horizontally
- Separation of trays 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 |
| - Protection degree | IP 67 |
| - With fastening kit | |

APPLICATIONS

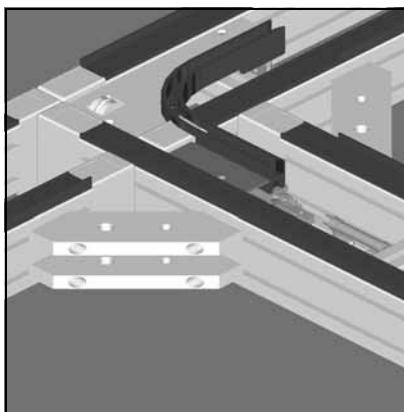
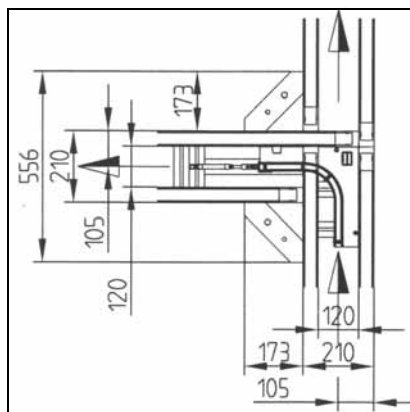
- Switching operations
- Control of system states before lift stations and stoppers

ASSEMBLY

- Screw onto 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
- Fastening kit

APPLICATIONS

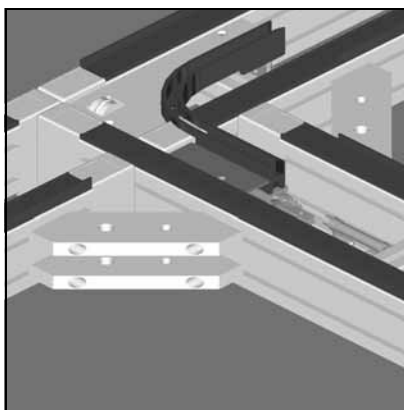
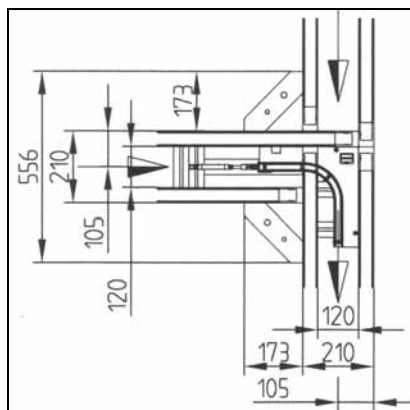
- Divert workpiece trays from basic circuit to secondary lines
- Separation of work procedures from machine cycle
- Inserting further processing stations
- Forming storage units
- When discharge is active, WT is diverted from the line by 90° into a transverse transport. The orientation of the WT is not 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
- Fastening kit

APPLICATIONS

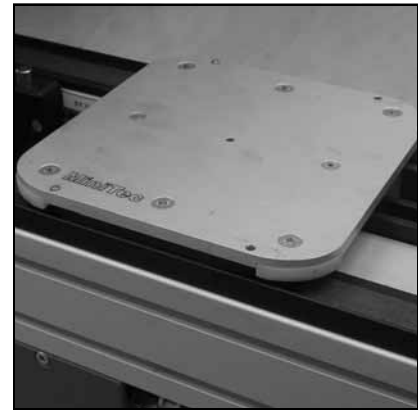
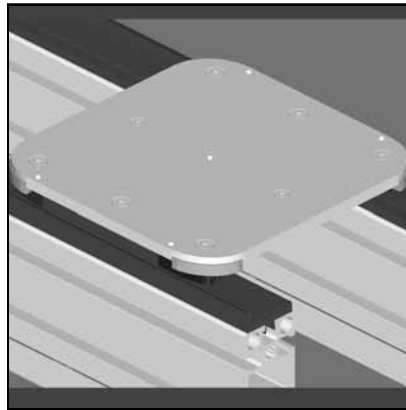
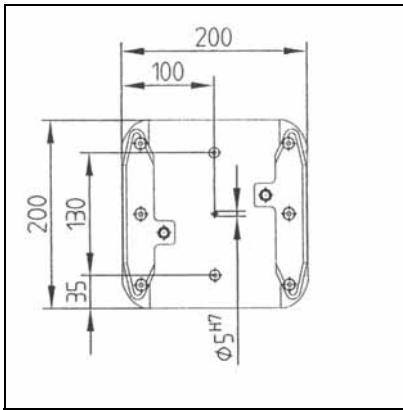
- Feed WHs from secondary lines back into the basic circuit.
- Separation of work procedures from machine cycle
- Inserting further processing stations
- Forming storage units
- If infeed is active, the WH is diverted from the secondary line to the basic circuit
- The orientation of the WH is not changed.
- 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
- Load max 100 N
- Weight 1 kg

APPLICATIONS

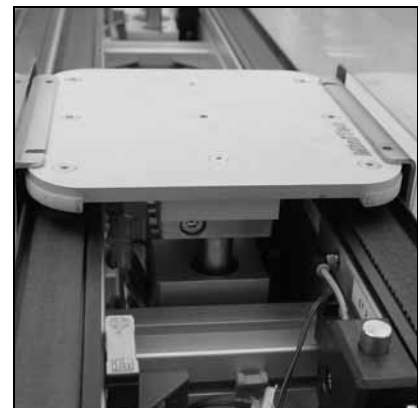
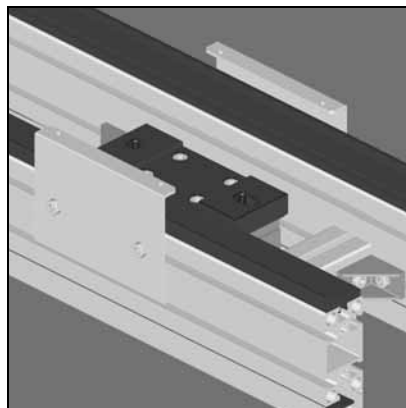
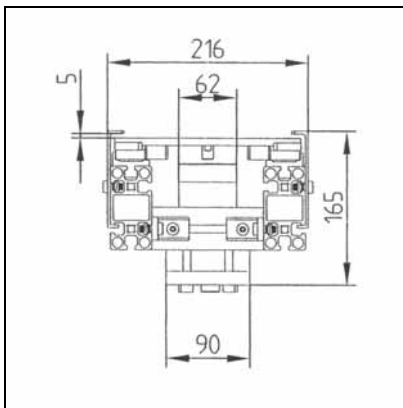
- Holding workpieces, jigs, identification, and data storage systems

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-for-use module with double-acting 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

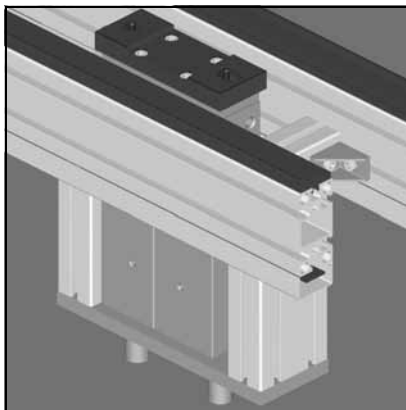
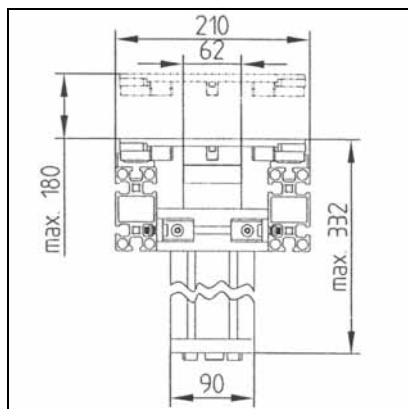
- Exact positioning of workpieces on the WT for processing or inspection

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 Part. N° 43.1510/0 and proximity switch Part. N° 43.0090/0

LIFT STATION 200

Part. N° 43.0100/0



TECHN. DATA / ITEMS SUPPLIED

- Ready-for-use 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

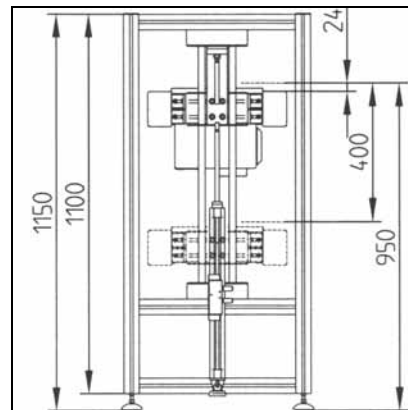
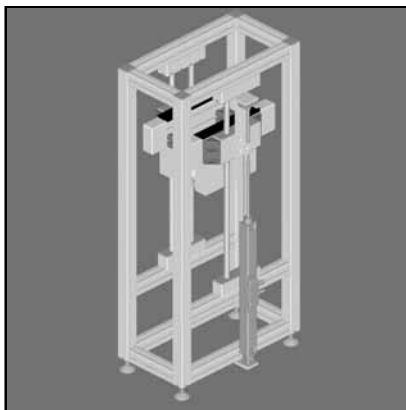
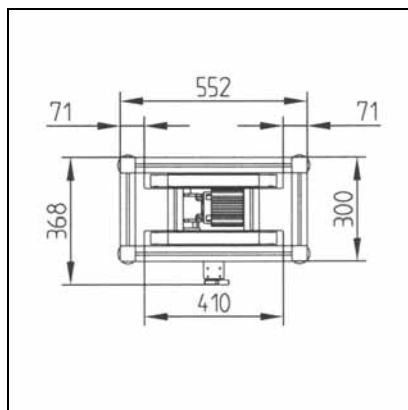
- Positioning of workpieces on the workpiece tray for processing or inspection

ASSEMBLY

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

ELEVATOR STATION 200

Part. N° 43.0080/0



TECHN. DATA / ITEMS SUPPLIED

- Ready-for-use 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

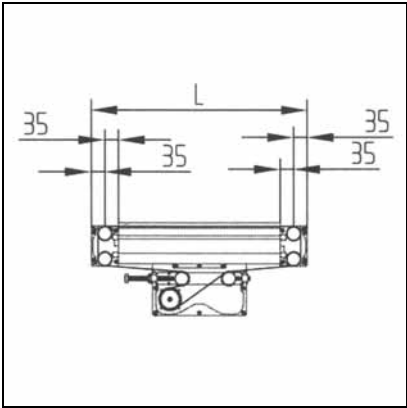
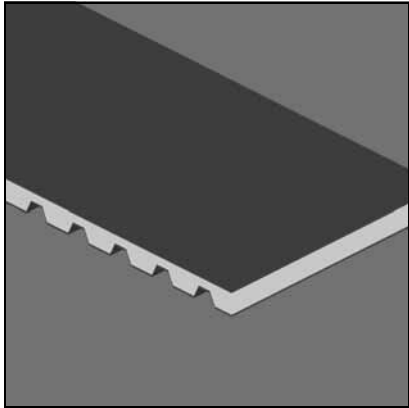
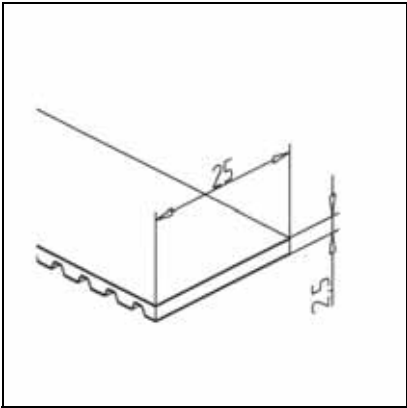
- Transport rollers at any length for driven or non-driven roller conveyors

ASSEMBLY

- Please indicate needed tube length
- Align lift station with transport levels
- Use bearing assembly S Part N° 21.1722/0 or bearing assembly for transport roller Part N° 21.1056/0

TIMING BELT

Part. N° 43.1411/0



TECHN. DATA / ITEMS SUPPLIED

- Length 6 m
- Recommended tube length: max. 1000 mm
- Recommended tube length: max. 1000 mm
- Specify total length when ordering replacement parts

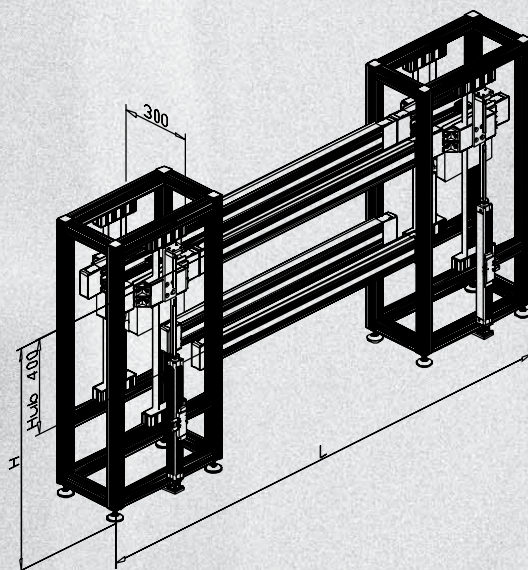
APPLICATIONS

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

ASSEMBLY

- Unscrew belt tensioning screw on drive unit
- Length
- Remove cover of drive unit and timing belt reverse units
- Insert belt
- Install cover and belt cover
- Tighten timing belt

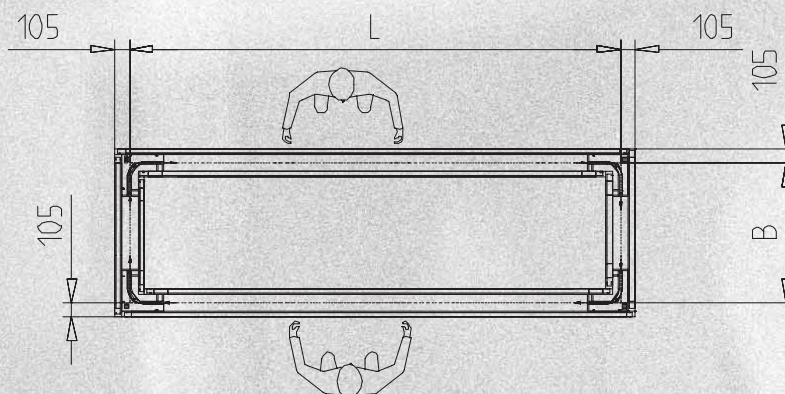
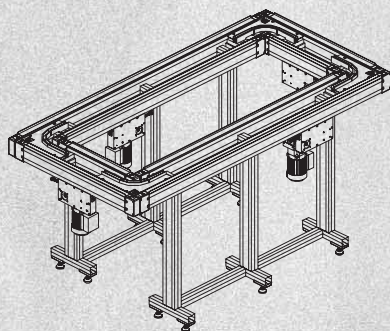
INQUIRY VERTICAL CIRCUIT TSG 200



Dimension L mm
 Working height H (WT upper edge) mm
 Numbers of stoppers Pieces
 Numbers of positioners Pieces
 Numbers of elevator stations Pieces
 Direction of transport ☐ Right ☐ Left
 Speed m/min
 Motor type A-D
 Frequency converter ☐ Yes ☐ No
 Controller
 Numbers of sensor systems Pieces

Company ☐ Please call me back
 Name ☐ Please send me an offer
 Phone no.
 Fax no.

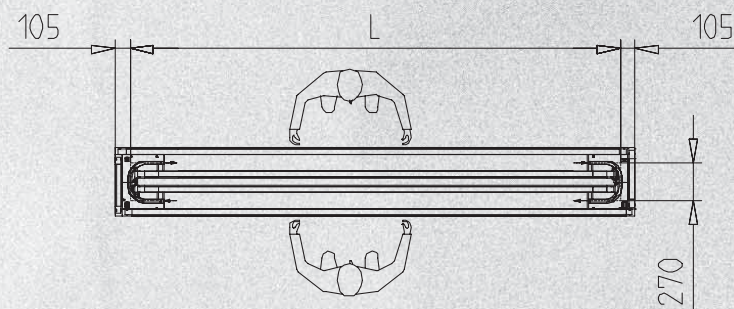
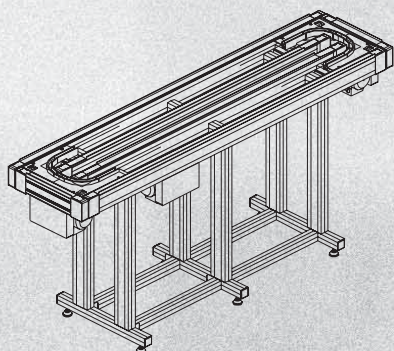
INQUIRY BASIC CIRCUIT 90° TSG 200



Dimension L x B	<input type="text"/>	mm	<input type="text"/>	mm
Working height H (WT top level)	<input type="text"/>	mm		
Numbers of stoppers	<input type="text"/>	Pieces		
Numbers of positioners	<input type="text"/>	Pieces		
Numbers of lifting stations	<input type="text"/>	Pieces		
Direction of transport	<input type="checkbox"/>	Right	<input type="checkbox"/>	Left
Speed	<input type="text"/>	m/min		
Motor type A-D				
Frequency converter	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
Controller	<input type="text"/>			
Numbers of sensor systems	<input type="text"/>	Pieces		

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"/>		

INQUIRY COMPACT CIRCUIT 180° TSG 200



Dimension L

 mm

Working height H (WT top level)

 mm

Numbers of stoppers

 Pieces

Numbers of positioners

 Pieces

Numbers of lifting stations

 Pieces

Direction of transport

☐ Right☐ Left

Speed

 m/min

Motor type A-D

Frequency converter

☐ Yes☐ No

Controller

Numbers of sensor systems

 Pieces

Company

☐ Please call me back

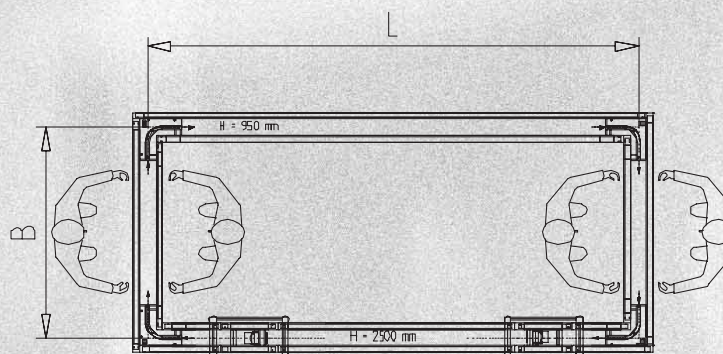
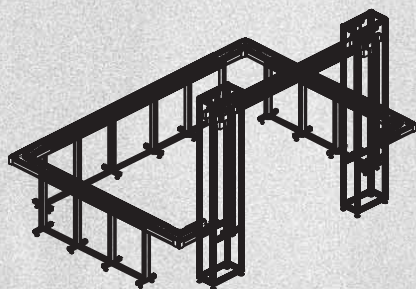
Name

☐ Please send me an offer

Phone no.

Fax no.

INQUIRY U-CIRCUIT WITH ELEVATOR STATION TSG 200



Dimension L x B mm mm

Working height H (WT top level) mm

Numbers of stoppers Pieces

Numbers of positioners Pieces

Numbers of lifting stations Pieces

Direction of transport ☐ Right ☐ Left

Speed m/min

Motor type A-D

Frequency converter ☐ Yes ☐ No

Controller

Numbers of sensor systems Pieces

Company

☐ Please call me back

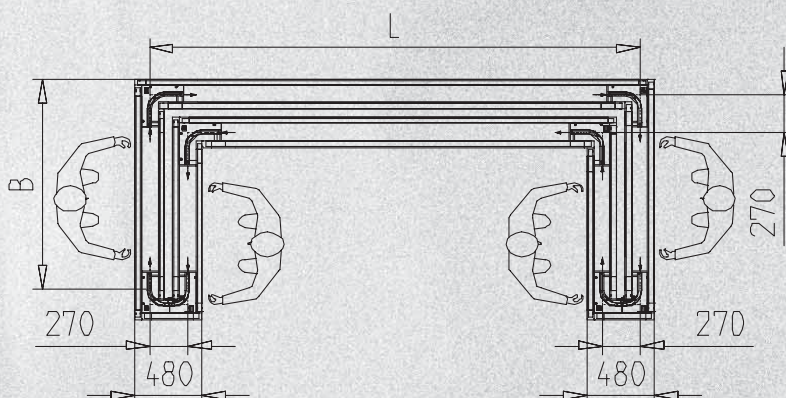
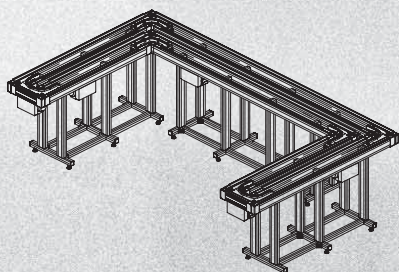
Name

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Phone no.

Fax no.

INQUIRY DOUBLE-U CIRCUIT TSG 200



Dimension L x B

 mm mm

Working height H (WT top level)

 mm

Numbers of stoppers

 Pieces

Numbers of positioners

 Pieces

Numbers of lifting stations

 Pieces

Direction of transport

☐ Right ☐ Left

Speed

 m/min

Motor type A-D

Frequency converter

☐ Yes ☐ No

Controller

Numbers of sensor systems

 Pieces

Company

☐ Please call me back

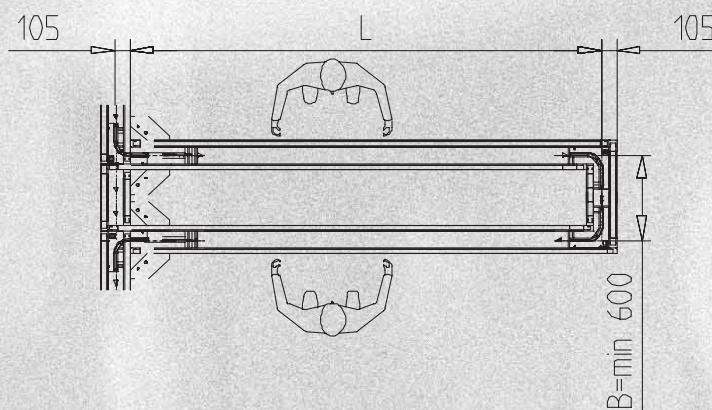
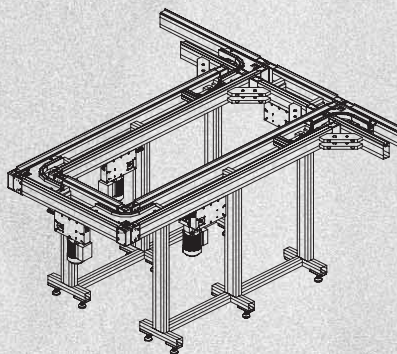
Name

☐ Please send me an offer

Phone no.

Fax no.

INQUIRY SHUNT TSG 200



Dimension L x B	<input type="text"/>	mm	<input type="text"/>	mm
Working height H (WT upper edge)	<input type="text"/>	mm		
Numbers of stoppers	<input type="text"/>	Piece		
Numbers of positioners	<input type="text"/>	Piece		
Numbers of lifting stations	<input type="text"/>	Piece		
Direction of transport	<input type="checkbox"/>	Right	<input type="checkbox"/>	Left
Speed	<input type="text"/>	m/min		
Motor type A-D (see page 2)				
Frequency converter	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
Controller	<input type="text"/>			
Numbers of sensor systems	<input type="text"/>	Piece		

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"/>		



SEGMENTED CHAIN CONVEYOR



MINITEC SEGMENTED CHAIN CONVEYOR

- FROM ICY TO HOT

The GKF segmented chain conveyor has already proven its reliability in numerous applications. Due to the most diverse requirements, the series has been expanded by tried and tested components. For this, energy efficiency and a large degree of flexibility from our proven modular design was given high importance.

As in all MiniTec designs, the GKF series is based on the proven MiniTec profile system. The new segment profile was designed using the same foundation so that the modular system is retained with no limitations. All components are fitted for expansions, extensions or any required protective devices.

The new conveying system can be optimally connected using proven MiniTec solutions in the areas of materials handling, image processing, labelling, work place design, etc.



Application:

- Food and beverage industry
- Conveying lines for PET bottles or cans
- Packaging lines
- Cosmetics or pharmaceutical industry
- General conveying tasks in mechanical engineering



Technical data:

- The standard width of the segmented chain is 82.5 mm (3 1/4 inch).
- Connecting bolts made of stainless steel
- Small gap between chain links also around corners allows the transport of small goods
- Conveying goods loads of approx. 2000N/m along the conveying length
- Operating temperatures of -40 to +80° C for plastic chains
- Operating temperatures of 120° C for stainless steel chains
- Suitable for high conveying speeds up to 50m/min
- All chains are flexible up to a maximum radius of 500 mm horizontally
- The segment profile is provided with 2 overlaid profile grooves in a pattern spacing of 45 mm.

Options:

- Frequency converter for variable speeds
- Height and side adjustable guides (aluminium) using steel bolts

SEGMENTED CHAIN CONVEYOR CHAIN SPECIES

Standard curve chain

Part N° 29.0727/0

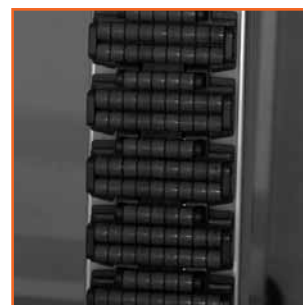
Material: LF (Low Friction Azetal / POM), brown
 Fracture strength: 6000 N
 Weight: 0.94 kg/m
 Operating temperature: -40°C to +80°C
 wet to +65°C



Standard curve chain with jam rollers

Part N° 29.0727/4

Material: LF (Low Friction Azetal / POM), dark grey
 Jam rollers, water blue
 Fracture strength: 6000 N
 Weight: 3.2 kg/m
 Operating temperature: -40°C to +80°C,
 wet to +65°C



Rubberized, standard curve NR chain

Part N° 29.0727/1

Material: thermoplastic PBT polyester, dark grey
 thermoplastic rubber, 50 Shore A, water blue
 Fracture strength: 5000 N
 Weight: 0.89 kg/m
 Operating temperature: dry to +120°C
 wet to +60°C



Standard curve stainless steel chain

Part N° 29.0727/2

Material: Austenitic stainless steel 1.4301 or
 ANSI 304 Non-magnetic
 18/8 Chrome/Nickel stainless steel
 High corrosion resistance, also acid resistant
 Fracture strength: 4500 N
 Weight: 3.0 kg/m
 Operating temperature: -30°C to +120°C



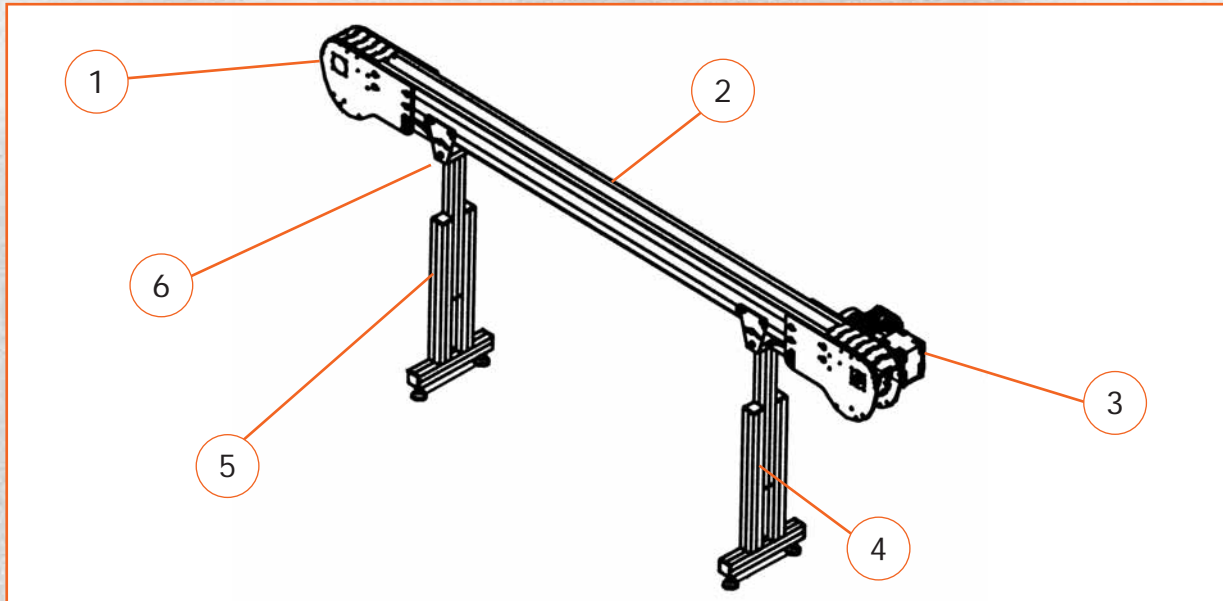
Rubberized, standard curve stainless steel chain

Part N° 29.0727/3

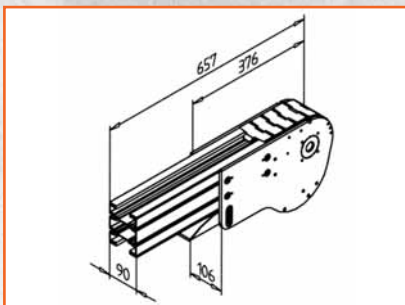
Material: High strength stainless steel 1.4589,
 high corrosion resistance and
 high wear resistance.
 Fracture strength: 4850 N
 Weight: 3.1 kg/m
 Operating temperature: -30°C to +120°C



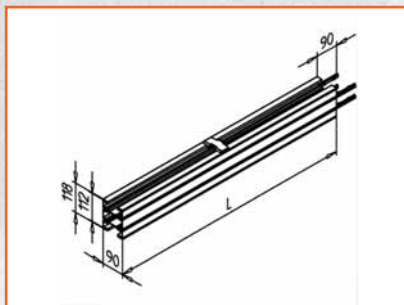
SEGMENTED CHAIN CONVEYOR - COMPONENTS



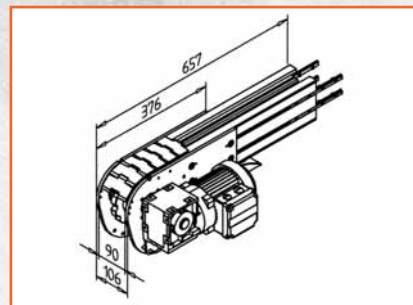
1. Diverting station



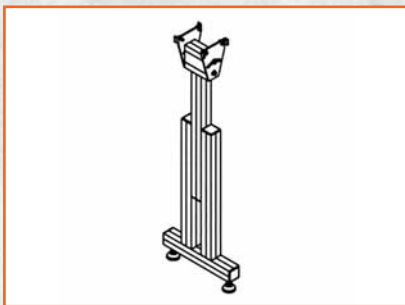
2. Straight conveying length profile



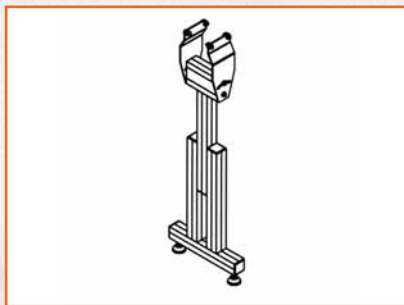
3. Head drive station



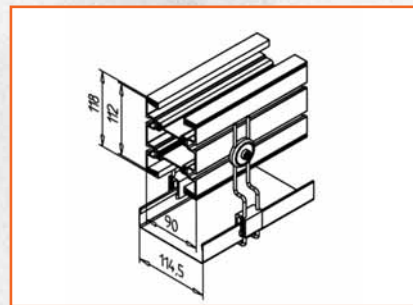
4. Standard support



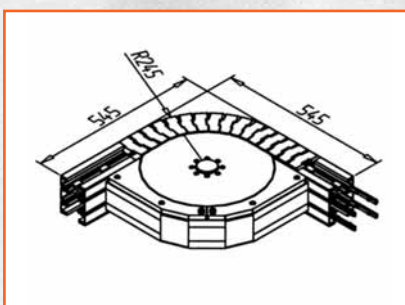
5. Drip tray support



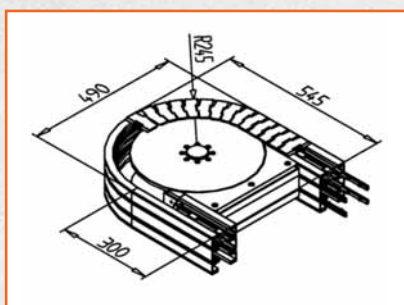
6. Drip tray with fasteners



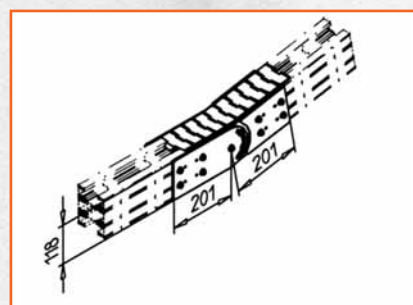
90° horizontal curve



180° horizontal curve



Variable vertical curve



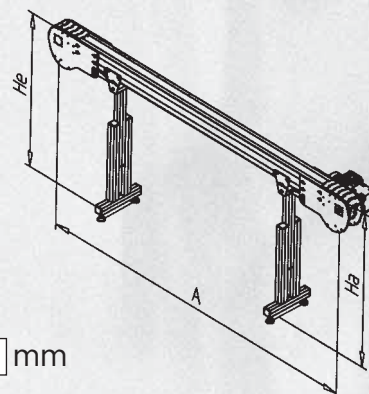
INQUIRY SEGMENTED CHAIN CONVEYOR

Standard dimension

Axial distance A mm
 According layout ☐ see below
☐ attached

Operating conditions

Goods to be conveyed
 Dimensions B x L x H x x mm
 Weight/piece kg
 Total belt load kg
 Temperature °C
 Accumulation point



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

Options

Typ of chain ☐ Part N°

Drive

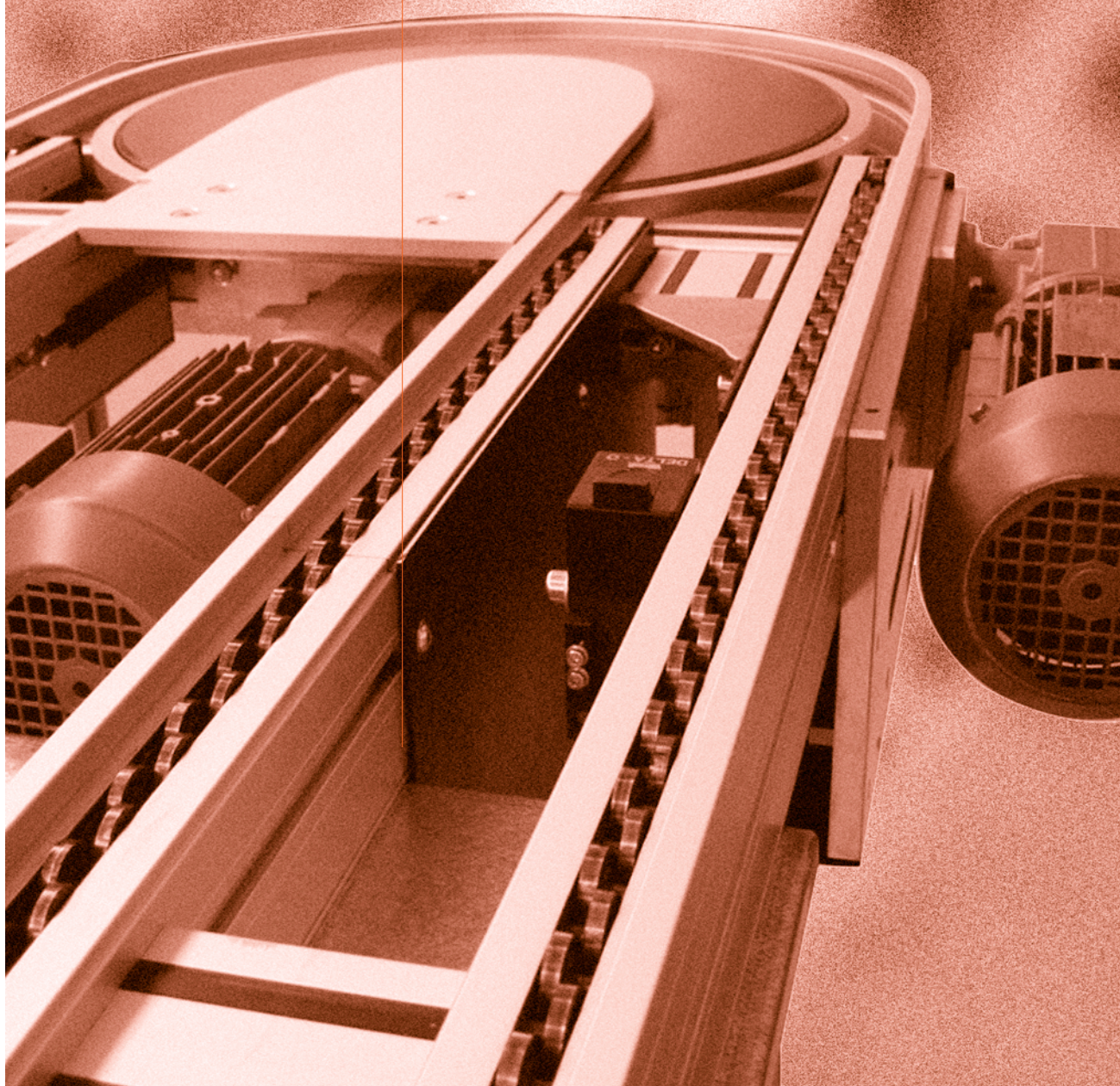
Motor arrangement ☐ right ☐ left
 Speed m/min.
 Adjustable speed from m/min. to m/min.

Others/Layout

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



SYSTEM FMS

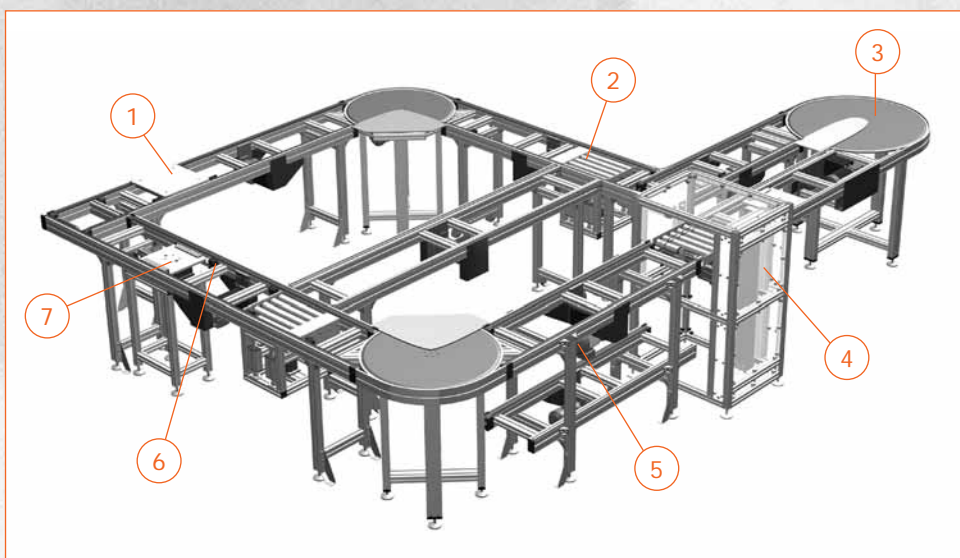


MINITEC - FLEXIBLE-MONTAGE-SYSTEM FMS

FMS is a flexible assembly system with workpiece carriers which are transported on chain roller conveyors, special belts or chains. Standardised modules for exact positioning, lifting or turning enable the very fast implementation of complete assembly lines.

Numerous installations at well-known automobile suppliers have demonstrated for years the reliability and economy of this system.

The patented switching technology reduces the control expense for the entire system to a minimum. Thus the new products from the MiniTec Profi-Team area already conform to the slogan "The Art of Simplicity".



Modular assembly line professional team

- A complete transport and positioning system for "workpiece carriers", the fastest and most versatile form for process optimisation in series production manufacturing
- Thanks to the modular design and the structure, planning, assembly and commissioning based on extruded aluminium profile, complete systems can be calculated in a very short time.

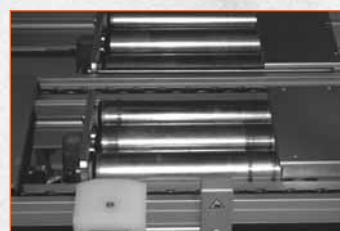
1. Workpiece carrier

- Precision milled carrier plate
- Accessible from all sides, even from the bottom
- Slide rails made of anti-static polyethylene
- Wheels in the corners reduce the side friction and improve guiding properties
- Exact position detection with centring bushes



2. Transverse transport

- Inclusion and exclusion, change of direction
- Very low space requirement
- Simple to integrate into the system



3. Turntable

- without control elements
- practically maintenance free
- Consistent orientation



4. Lifts upward / downward

- Vertical method with pneumatic or electrical drive
- Precise guiding with linear units



5. Belt and chain conveyors

- Variations: Double belt, chain drive or combination
- Suitable for accumulation mode
- Structure of aluminium profiles
- Simple to use and can be reused



6. Separator

- Separator: with or without damping from 3 to 220 kg
- Switch holder: Various holders for inductive proximity switch M12 ensure the absence and throughput control of the workpiece carrier

7. Lift and positioning equipment

- Exact positioning of the WPC for processing sequences
- max. loading 100 kg
- optionally with turning device for change of direction



INQUIRY FMS

Standard dimension

Dimension L x B Speed m/minWorking height mmGoods to be conveyed BxLxH x x Weight/piece kgTemperature °CBalance point ☐ centered ☐ Distance mmWork piece pick-up ☐ no ☐ yes, WP-carrier - Base L x B x mmNumbers of
workpiece carriers PieceAmbient temperature °CSurrounding conditions Numbers of stoppers PieceNumbers of positioners PieceNumbers of sensor systems Piece

Other

Company ☐ Please call me backName ☐ Please send me an offerPhone no. Fax no. E-Mail

MINITEC - FLEXIBLE-MONTAGE-SYSTEM FMS

Please order our MiniTec FMS System catalogue for more information.



You can order the catalogues online on our website www.minitec.de or send an email to info@minitec.de.



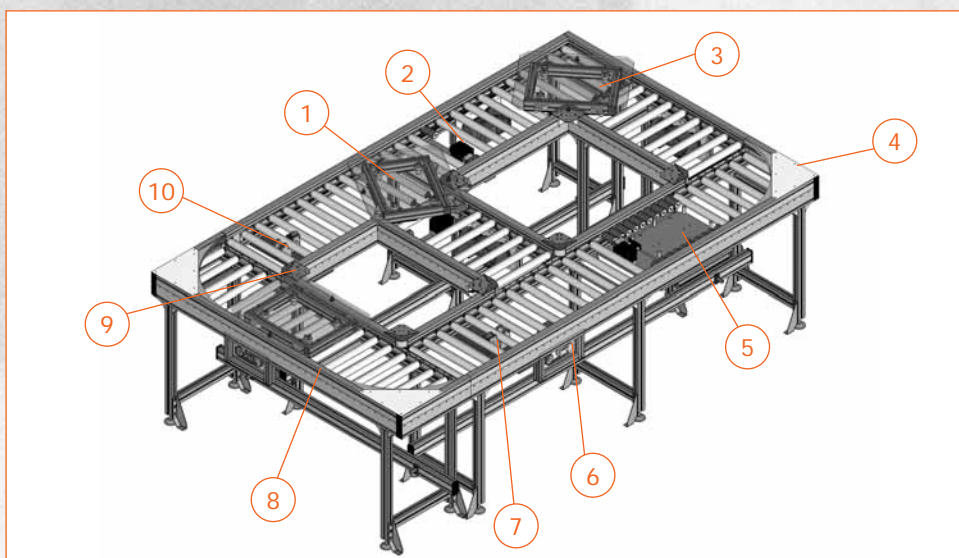
MINITEC - SYSTEM RMS

RMS is a pallet transfer system based on friction rollers and designed for very high loads. Among other things, transmissions, vehicle seats or engines are assembled on these systems.

The workpiece carriers are moved over highly precise accumulator rollers, which are driven by means of a continuous tangential steel chain. The RMS specific workpiece carriers are guided by side-attached guide rollers into the line.

Due to the special shape of the workpiece carrier in combination with the patented DELTA -offset, the direction changes are realised with a minimum of control and drive effort.

Special covers between the rollers make the transport system accessible for service work from the interior of the system.



System description:

- Flexible modular concept
- Precise rollers with regulated friction
- Load per workpiece carrier: up to 250 kg
- Standard WPC widths: 400 and 500 mm
- Transport speeds: up to 15m/min
- Ingeniously simple and patented bypass
- Newly developed robust workpiece carriers
- Deflection system "Delta"

1. Bypass

- Powered switches for deflection of main and secondary lines



2. Rollers

- 3 mm steel pipe
- Nitrided surface
- Adjustable friction



3. Workpiece carrier

- Base frame made of aluminium profiles
- Sliding pieces made of anti-static polyethylene
- Plate carriers made to customer specifications



4. 90° deflection: WPC deflection without additional drive



5. Lift index unit: Load up to 300 kg



6. Drive unit

- Reversible drive direction
- Up to 9 m line per drive
- Automatic chain tension



7. Separator: Adjustable damping

8. Structure: Anodised aluminium profile

9. Deflection system

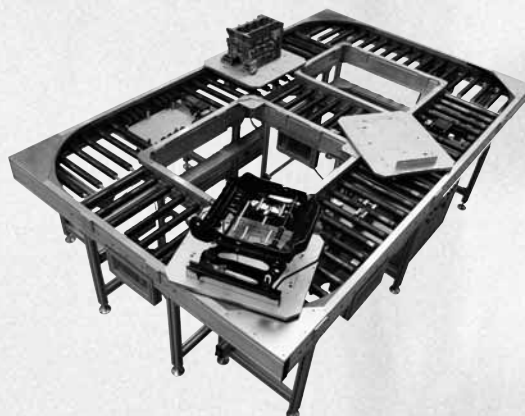
The "Delta" deflection system is a standardised and universally installable system, that allows for all deflection variations in 3 designs:

- Delta 1 fixed for a simple 90° deflection
- Delta 2 spring loaded for inward transfer into a main or secondary line
- Delta 3 controllable and pneumatically activated for use on nodes with changing deflections



10. Hydraulic damped separator

- The specially developed separator allows the use of continuous rollers instead of stab support rollers
- High flexibility using simple changes in the installation position



INQUIRY RMS

General

Layout

Width ☐ 400 mm ☐ 500 mm ☐ others

Roller distance ☐ 120 mm ☐ 180 mm

Speed m/min

Working height mm

Goods to be conveyed BxLxH x x

Weight/piece kg

Temperature °C

Balance point ☐ centered ☐ Distance mm

Work piece pick-up ☐ no ☐ yes,

WP-carrier - Base L x B x mm

Numbers of workpiece carriers Pieces

Ambient temperature °C

Surrounding conditions

Numbers of stoppers Pieces

Numbers of positioners Pieces

Numbers of sensor systems Pieces

Sonstiges

Company ☐ Please call me back

Name ☐ Please send me an offer

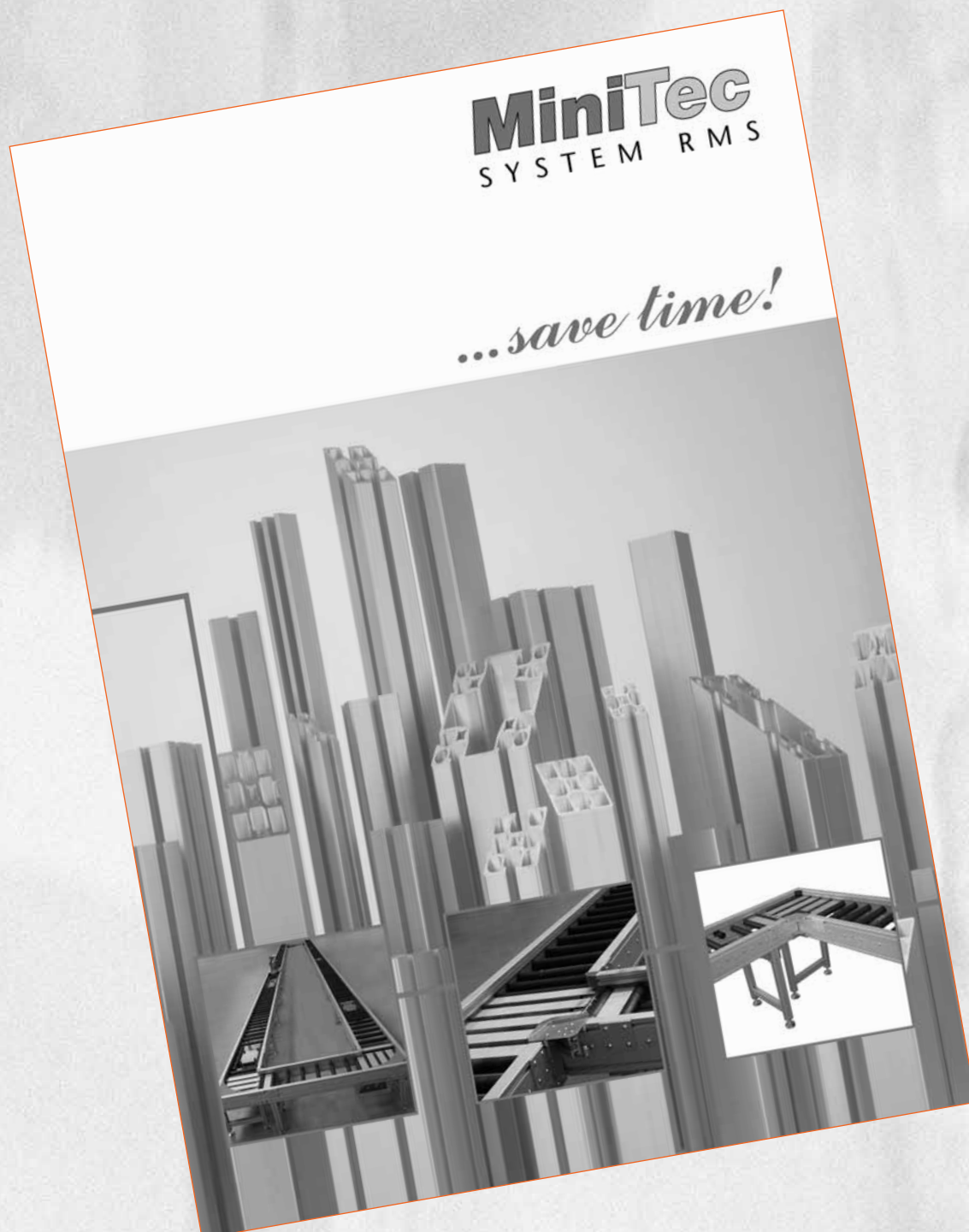
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