THE JUST-IN-TIME CONVEYOR TECHNOLOGY

Success is often measured by efficiency and speed. For Robotunits customers this means always keeping one step ahead regarding the time required for delivery, design and assembly. Equally remarkable is the fact that our Conveyor Technology can be seamlessly integrated into a complete modular automation system.

Advantages like these, as well as great product variety, maximum technical excellence and enormous potential to save time and money in design and assembly, are what makes Robotunits so unique. We can also provide you with special designs outside the standard dimensions, when required.

Impressive lead times

- production time of your customized conveyor: 5 working days
- just-in-time delivery

Customized length and width

- select any standard frame width between 40 mm and 1200 mm
- select any conveyor length up to 12 m, longer units available upon request
- pre-assembled and height adjustable stand available as an option

Flexibility in drive options and positions

- freely selectable drive options
- individually positionable drives (side, bottom, center)

Speed

- optimized conveyor belt speed according to specific requirements
- optionally available speed controller

Idler options

- idler size adjustment according to overall heights
- nose bar (16 mm diameter) for transfer of small parts

Individual belt choice

- accumulation belt
- belt for incline operation
- belt for specific requirements (e.g. traverse cleats)

Fully integrated conveyor system

- compatible with all our extrusion sizes
- uniform 14 mm T-slot
- accessible T-slot on both sides along the length of the belt conveyor frame for easy attachment of accessories (i.e. stops)

Save time, cut cost

- impressive delivery times
- fast configuration of customized conveyors (webshop)
- every conveyor comes fully assembled and tested
- outstanding price/performance ratio

Safety

- self-adjusting safety guard between the conveyor roller and the slider bed
- timing belt cover with window for visual inspection
- CE certified conveyors with full documentation

Just-In-Time Conveyor Technology

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Modular Belt Conveyors Page 20

Timing Belt Conveyors Page 26

Just-In-Time Conveyor Technology

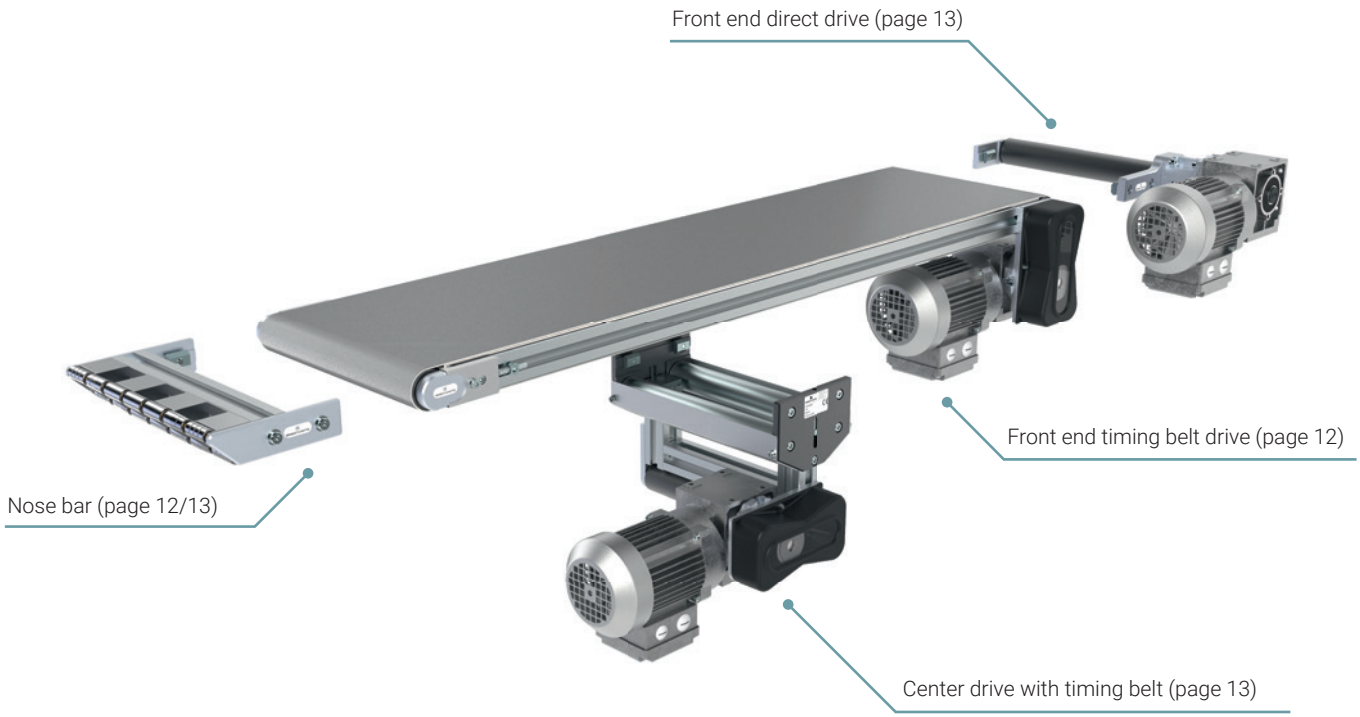
Powered Roller Conveyors Page 34

Roller Conveyors without drive Page 48

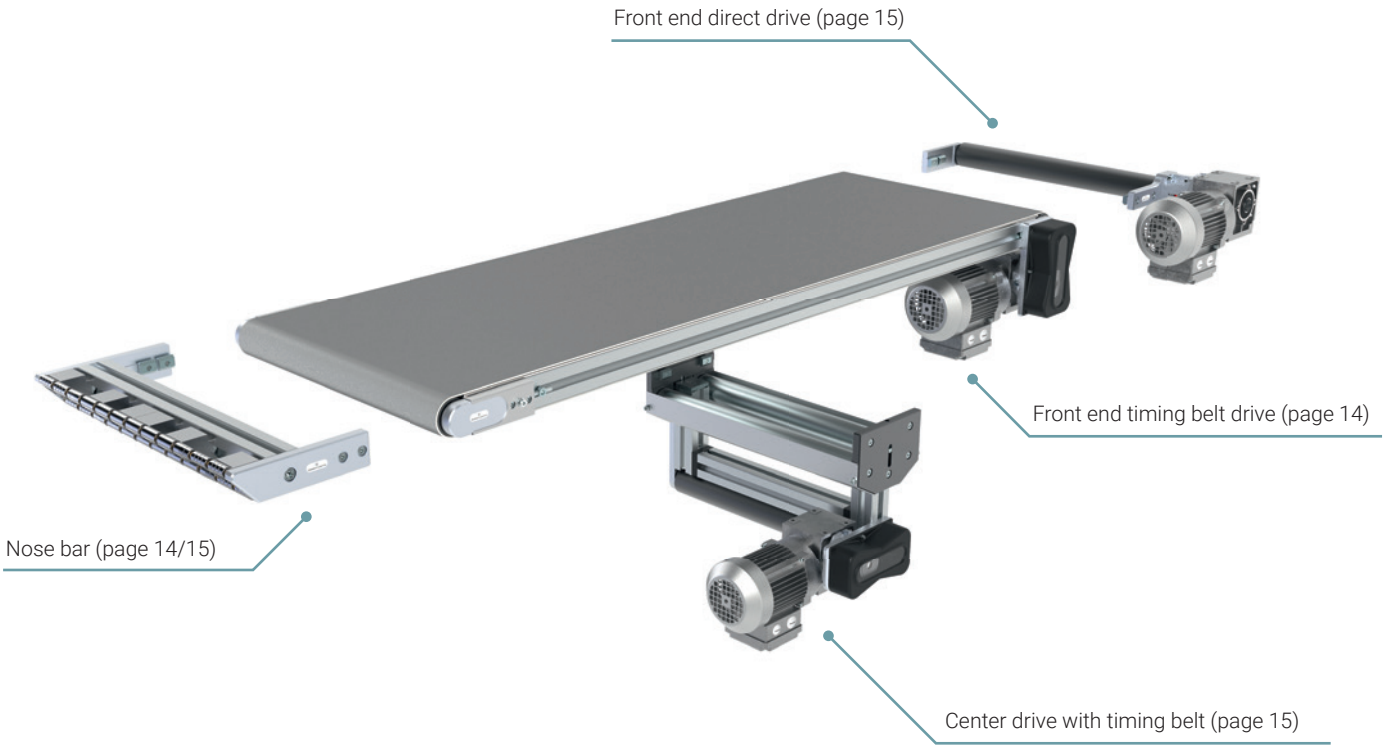
Side Guide Page 51

Conveyor Technology Accessories Overview Page 146

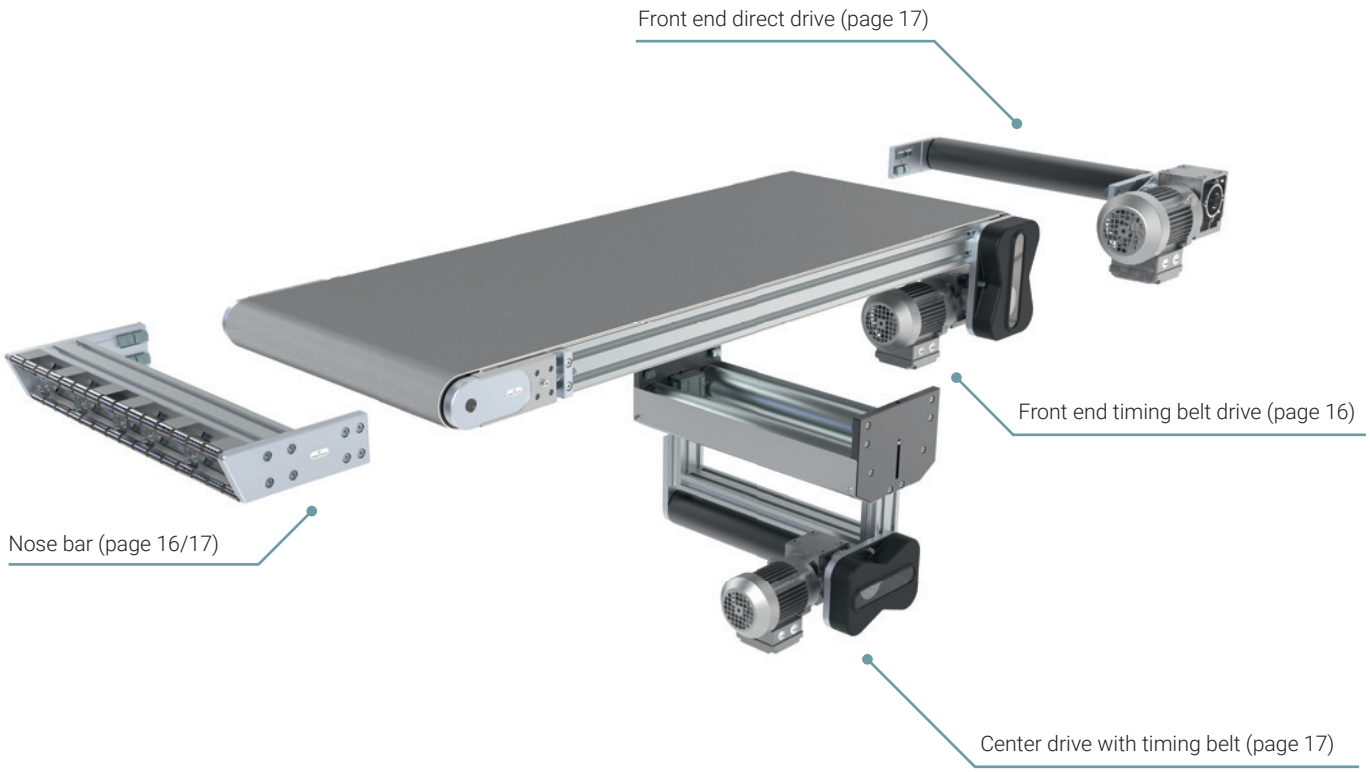
C4N Belt Conveyor Drive Options



C5N Belt Conveyor Drive Options



C8N Belt Conveyor Drive Options



C4N Belt Conveyor 40

Plug-and-Play

Side Guide for Belt Conveyor
See page 50

Storage and Feeder Hopper Conveyors on request

Application
Conveying tasks of all kinds

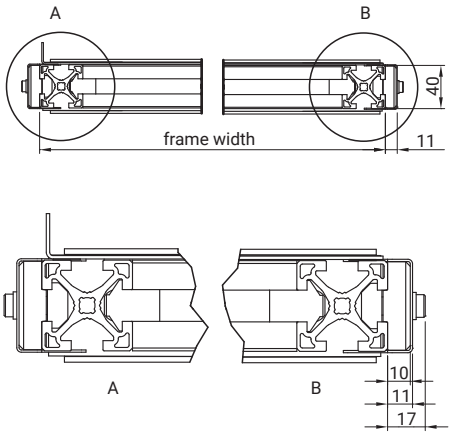
Technical data
Belt speeds from 3 m/min up to 55 m/min

Drive power depending on conveyor speed and load ranging from 0.12 kW to 0.37 kW (230/400V; 50/60Hz; IP54)

Max. total load of conveyed material: 240 kg
Temperature range: from -20°C to +40°C

Belt type
Standard application, oil resistant, food grade, adhesive and thus suitable for incline transport, cut resistant, suitable for accumulation operation, etc.

C4N without side guides
Belt width: Frame width - 10mm



C4N with side guides
Frame width ≤ 120 mm
Belt width: Frame width - 15mm
Frame width > 120 mm
Belt width: Frame width - 20mm

Drive options[1]

Front end timing belt drive

- A — Front end timing belt drive, left
- B — Front end timing belt drive, right
- C — Front end timing belt drive, left, tail end nose bar
- D — Front end timing belt drive, right, tail end nose bar

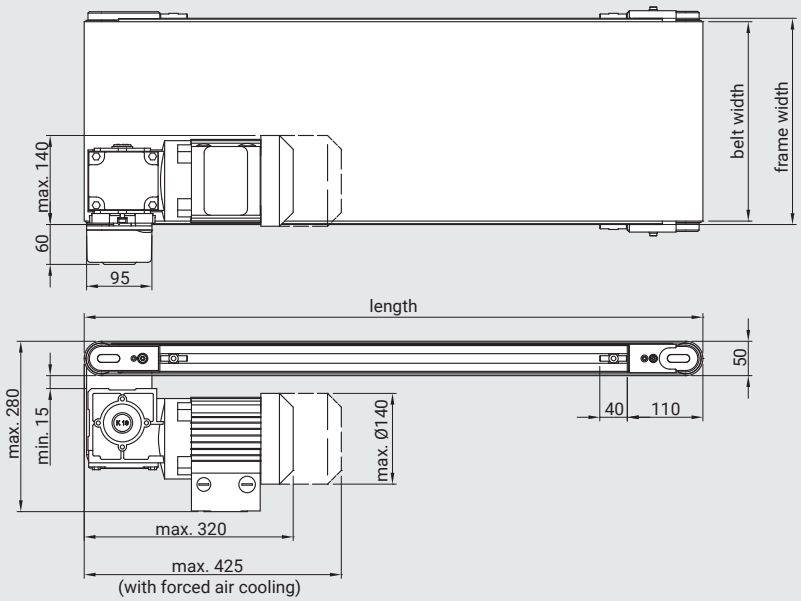
Front end direct drive

- E — Front end direct drive, left
- F — Front end direct drive, right
- G — Front end direct drive, left, with tail end nose bar
- H — Front end direct drive, right, with tail end nose bar

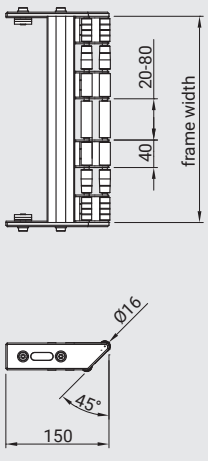
Center drive with timing belt

- K — Center drive with timing belt
- L — Center drive with timing belt and front end nose bar
- N — Center drive with timing belt and tail end nose bar
- Q — Center drive with timing belt and nose bar on both ends

Front end timing belt drive



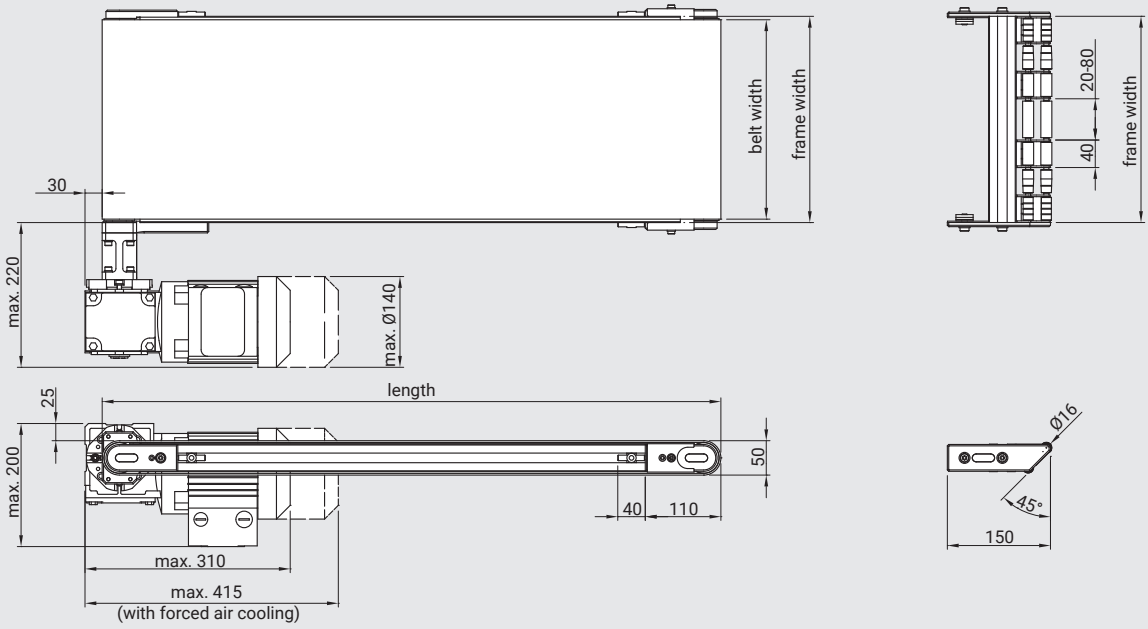
Option: nose bar



1) Standard direction is pulling. The running direction of all drives can be changed by reversing the polarity of the motor.

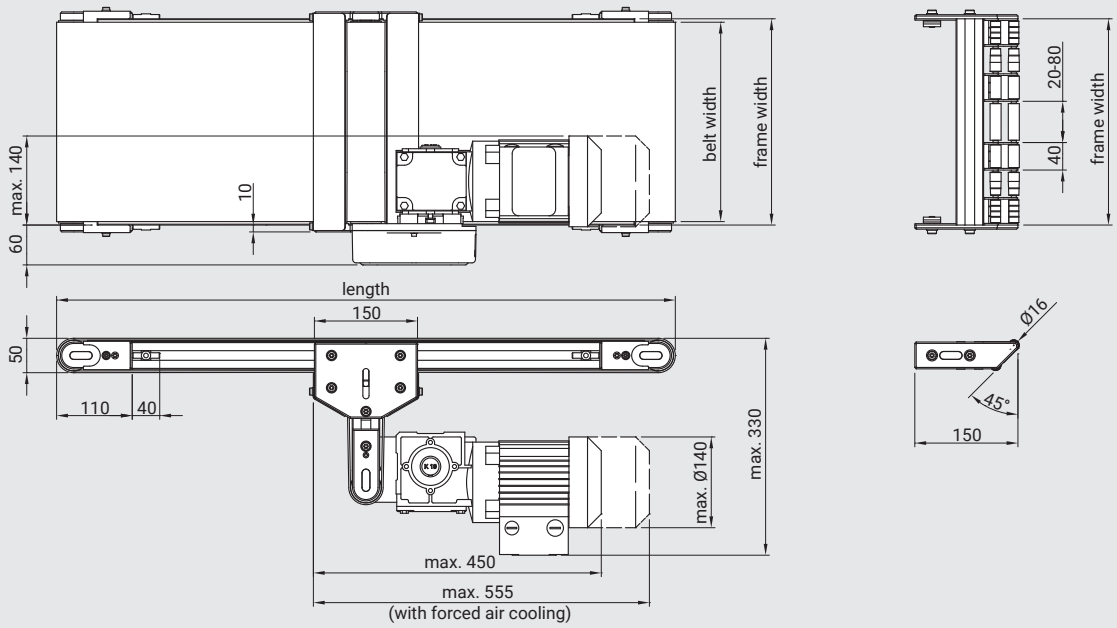
Front end direct drive

Option: nose bar



Center drive with timing belt

Option: nose bar



Standard widths and lengths[2]

Description	Frame width	Max. length
Belt Conveyor 40	40 mm	12000 mm
Belt Conveyor 40	80 mm	12000 mm
Belt Conveyor 40	120 mm	12000 mm
Belt Conveyor 40	160 mm	12000 mm

Description	Frame width	Max. length
Belt Conveyor 40	200 mm	12000 mm
Belt Conveyor 40	240 mm	12000 mm
Belt Conveyor 40	300 mm	12000 mm
Belt Conveyor 40	400 mm	12000 mm

Please note the minimum length to width ratio of 1.5 : 1.

Request for Quote / Order placement

Please use our Belt Conveyor configuration tool or our request form at www.robotunits.com

2) Special widths and special lengths are available upon request.
Drawings: dimensions in mm

C5N Belt Conveyor 50

Application
Conveying tasks of all kinds

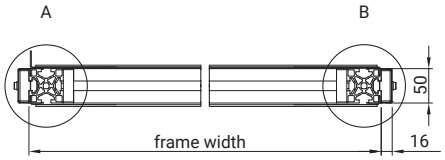
Technical data
Belt speeds from 3 m/min up to 67 m/min

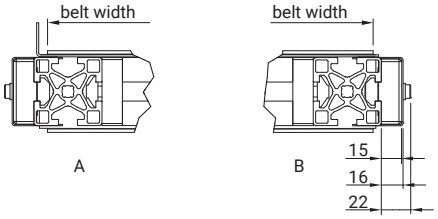
Drive power depending on conveyor speed and load ranging from 0.12 kW to 0.37 kW (230/400V; 50/60Hz; IP54)

Max. total load of conveyed material: 340 kg
Temperature range: from -20°C to +40°C

Belt type
Standard application, oil resistant, food grade, adhesive and thus suitable for incline transport, cut resistant, suitable for accumulation operation, etc.

Belt width: Frame width - 20mm





Side Guide for Belt Conveyor
See page 50

Drive options[1]

Front end timing belt drive

- A — Front end timing belt drive, left
- B — Front end timing belt drive, right
- C — Front end timing belt drive, left, tail end nose bar
- D — Front end timing belt drive, right, tail end nose bar

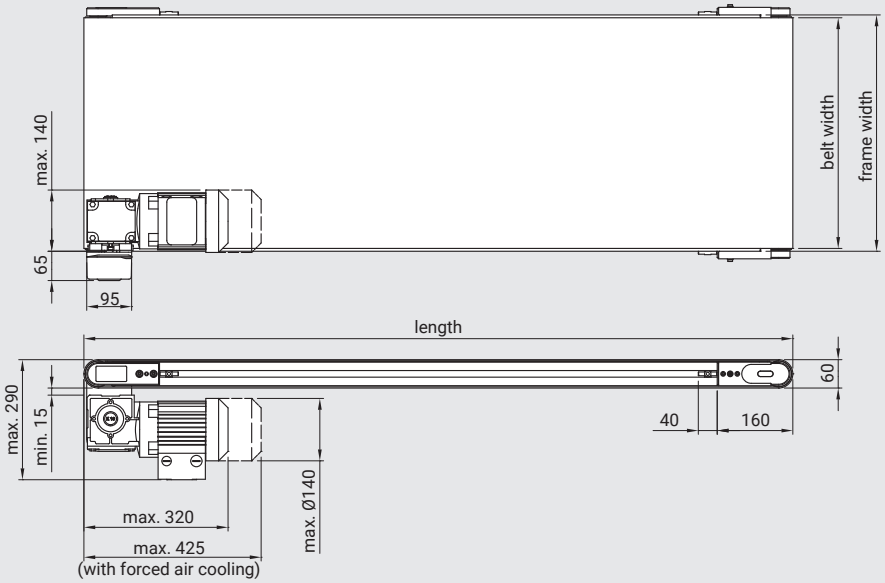
Front end direct drive

- E — Front end direct drive, left
- F — Front end direct drive, right
- G — Front end direct drive, left, with tail end nose bar
- H — Front end direct drive, right, with tail end nose bar

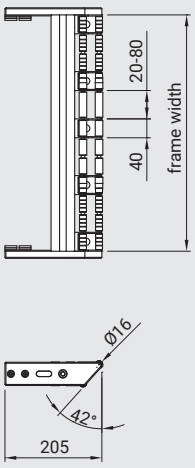
Center drive with timing belt

- K — Center drive with timing belt
- L — Center drive with timing belt and front end nose bar
- N — Center drive with timing belt and tail end nose bar
- Q — Center drive with timing belt and nose bar on both ends

Front end timing belt drive



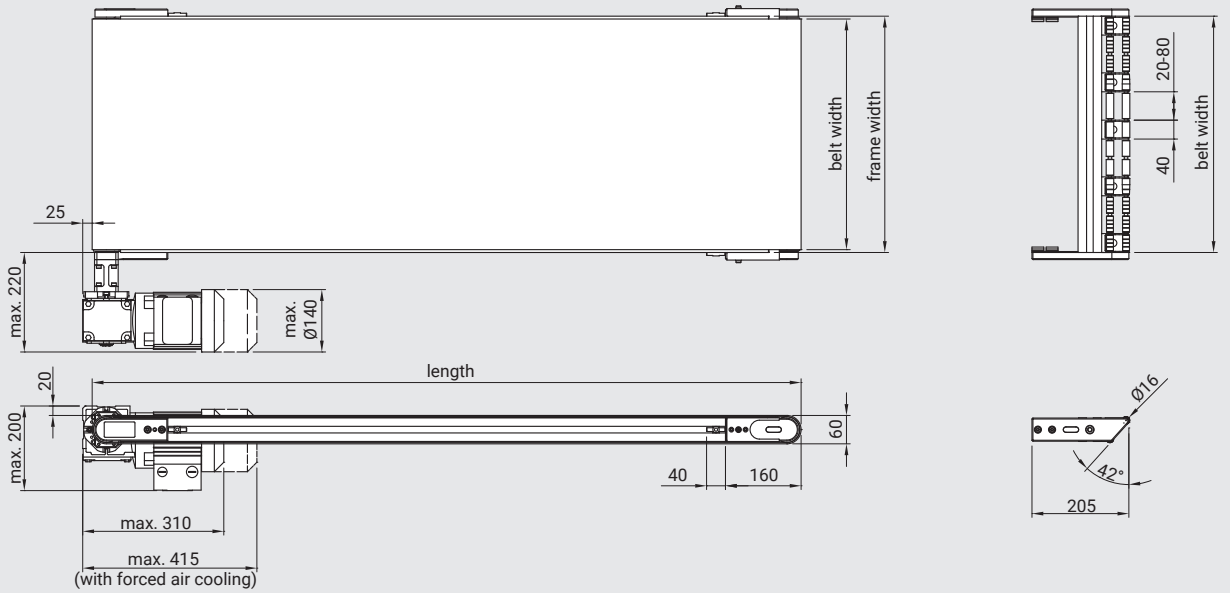
Option: nose bar



1) Standard direction is pulling. The running direction of all drives can be changed by reversing the polarity of the motor.
Drawings: dimensions in mm

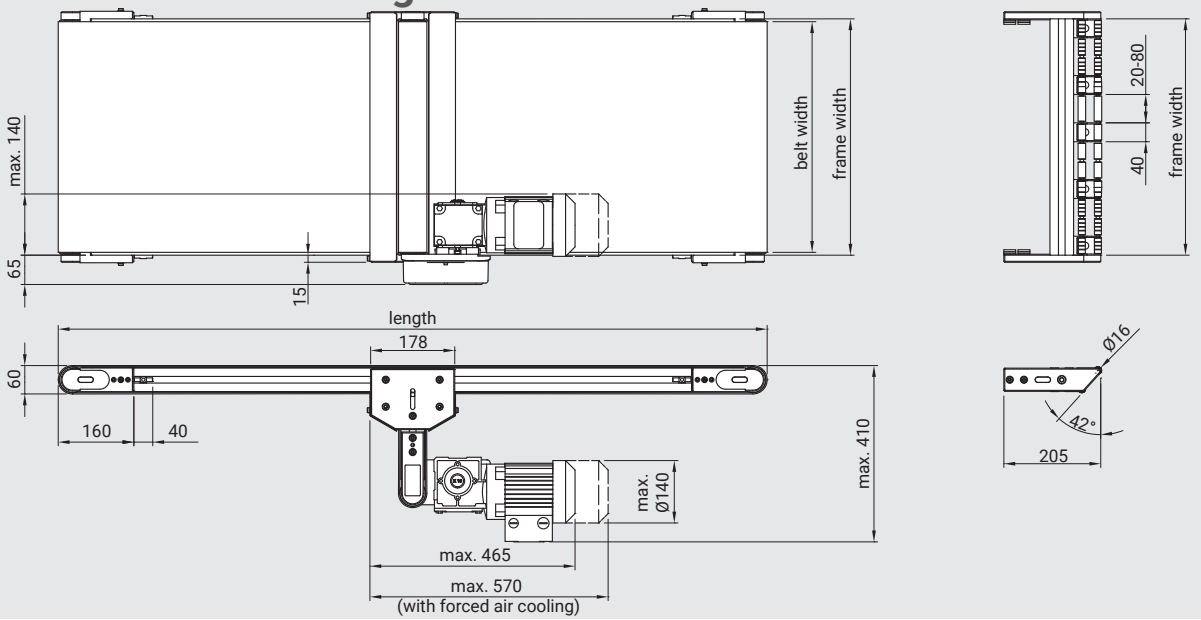
Front end direct drive

Option: nose bar



Center drive with timing belt

Option: nose bar



Standard widths and lengths[2]

Description	Frame width	Max. length
Belt Conveyor 50	400 mm	12000 mm
Belt Conveyor 50	500 mm	12000 mm
Belt Conveyor 50	600 mm	12000 mm

Design options

Side view

Please note the minimum length to width ratio of 1.5 : 1.

Request for Quote / Order placement

Please use our Belt Conveyor configuration tool or our request form at www.robotunits.com

2) Special widths and special lengths are available upon request.
Drawings: dimensions in mm

C8N Belt Conveyor 80

Application
Conveying tasks of all kinds

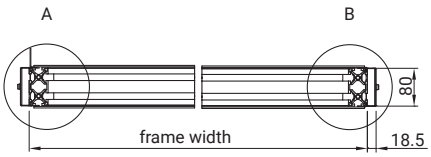
Technical data
Belt speeds from 5 m/min up to 65 m/min

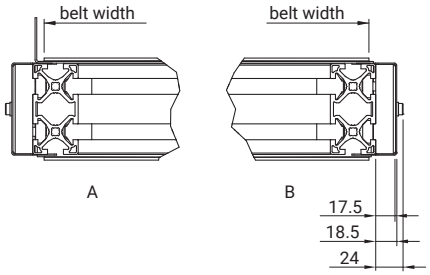
Drive power depending on conveyor speed and load ranging from 0.25 kW to 0.55 kW (230/400V; 50/60Hz; IP54)

Max. total load of conveyed material: 550 kg
Temperature range: from -20°C to +40°C

Belt type
Standard application, oil resistant, food grade, adhesive and thus suitable for incline transport, cut resistant, suitable for accumulation operation, etc.

Belt width: Frame width - 20mm





Side Guide for Belt Conveyor
See page 50

Drive options[1]

Front end timing belt drive

- A — Front end timing belt drive, left
- B — Front end timing belt drive, right
- C — Front end timing belt drive, left, tail end nose bar
- D — Front end timing belt drive, right, tail end nose bar

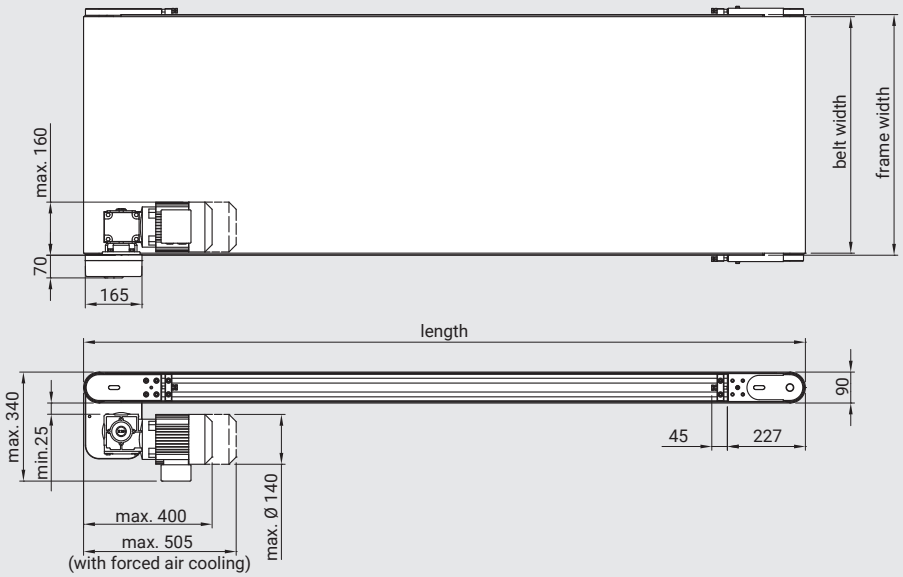
Front end direct drive

- E — Front end direct drive, left
- F — Front end direct drive, right
- G — Front end direct drive, left, with tail end nose bar
- H — Front end direct drive, right, with tail end nose bar

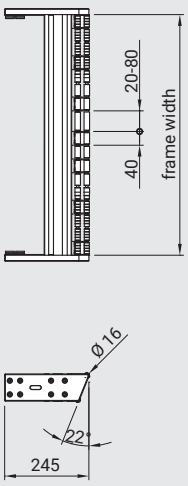
Center drive with timing belt

- K — Center drive with timing belt
- L — Center drive with timing belt and front end nose bar
- N — Center drive with timing belt and tail end nose bar
- Q — Center drive with timing belt and nose bar on both ends

Front end timing belt drive



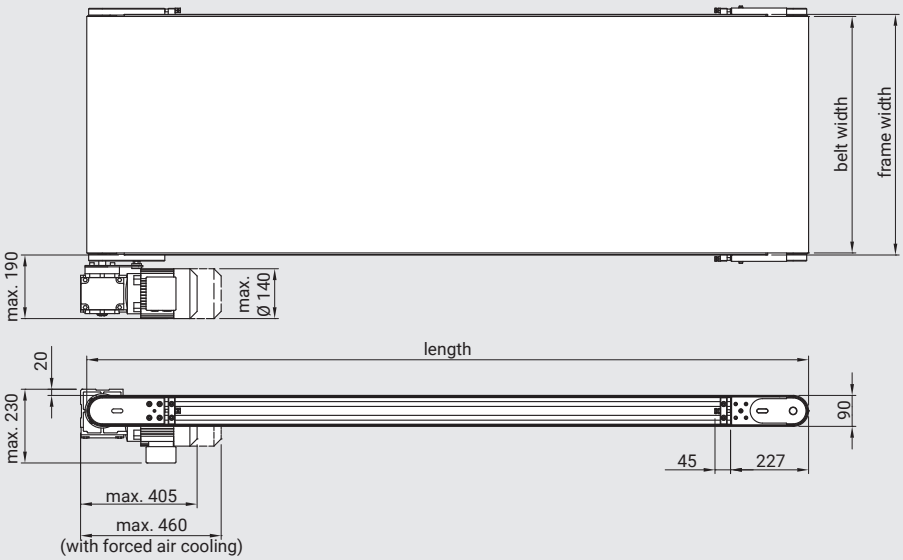
Option: nose bar

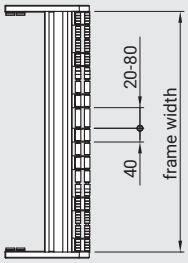


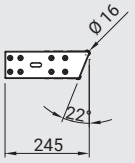
1) Standard direction is pulling. The running direction of all drives can be changed by reversing the polarity of the motor.
Drawings: dimensions in mm

Front end direct drive

Option: nose bar

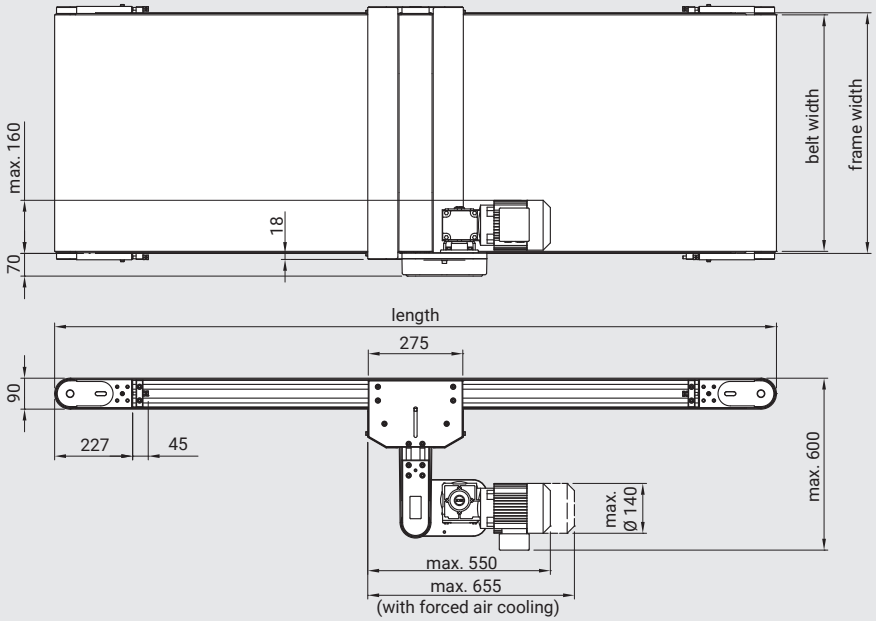


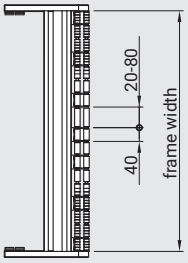


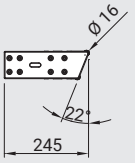


Center drive with timing belt

Option: nose bar







Standard widths and lengths[2]

Description	Frame width	Max. length
Belt Conveyor 80	600 mm	12000 mm
Belt Conveyor 80	700 mm	12000 mm
Belt Conveyor 80	800 mm	12000 mm
Belt Conveyor 80	1000 mm	12000 mm
Belt Conveyor 80	1200 mm	12000 mm

Design options

Side view

Please note the minimum length to width ratio of 1.5 : 1.

Request for Quote / Order placement

Please use our Belt Conveyor configuration tool or our request form at www.robotunits.com

2) Special widths and special lengths are available upon request.
Drawings: dimensions in mm

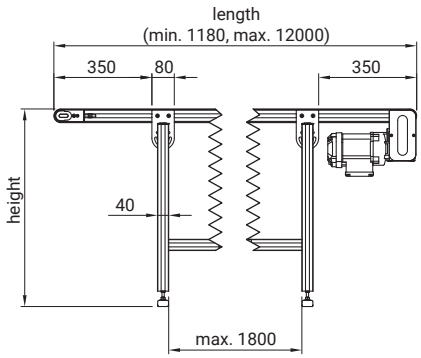
C4F Stand for C4N/C5N

Application
Stand for Belt Conveyor 40 and 50

Technical data
Material: clear anodized aluminum, galvanized die-cast zinc; galvanized steel; rubber

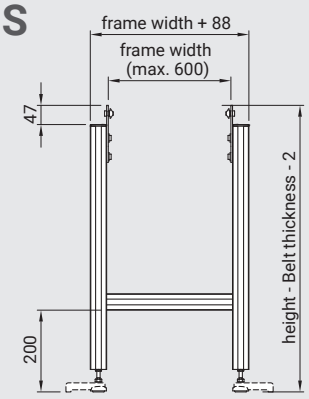
Scope of delivery
Stand segment fully assembled and attached to the conveyor belt

Wide conveyor stands (type H and G) offer additional stability for conveyors with a stand height more than 3 times the frame width.



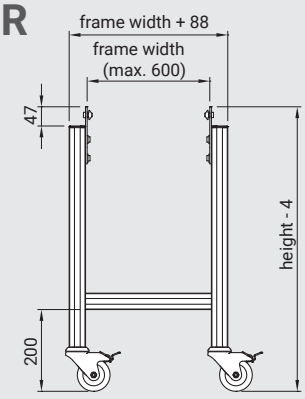
Standard conveyor stand types

S



Leveling Bases BAS4008
Height adjustment ± 20 mm

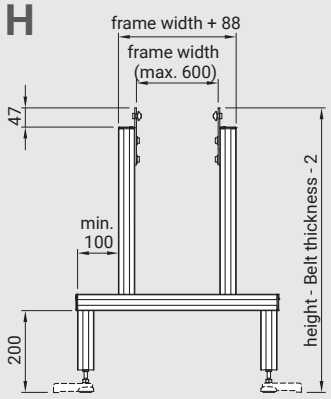
R



Swivel Castors with brake
CAS3080

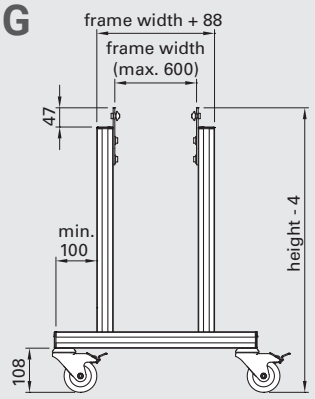
Wide conveyor stand types

H



Leveling Bases BAS4008
Height adjustment ± 20 mm

G



Swivel Castors with brake
CAS3080

Order code

Description	Order code[2]				
		Frame width	Type	Length	Height
Stand for C4N/C5N	C4F	_ _ _ _	_ NN	_ _ _ _	_ _ _ _

1) Optionally with Floor Mounting Plate BAP4500.
2) Please complete the order code by adding the corresponding parameters for order processing.
Drawings: dimensions in mm

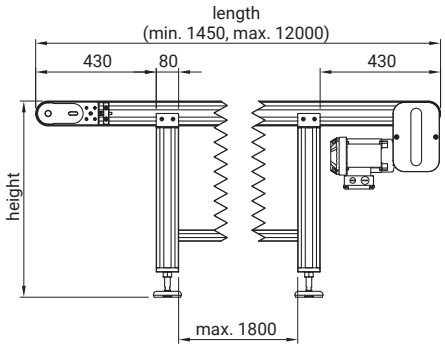
C8F Stand for C8N/C8M

Application
Stand for Belt Conveyor 80 and Modular Belt Conveyor 80

Technical data
Material: clear anodized aluminum, galvanized die-cast zinc; galvanized steel; rubber

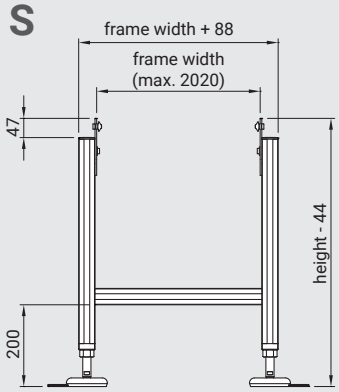
Scope of delivery
Stand segment fully assembled and attached to the conveyor belt

Wide conveyor stands (type H and G) offer additional stability for conveyors with a stand height more than 3 times the frame width.



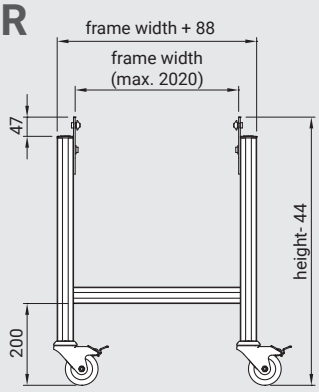
Standard conveyor stand types

S



Leveling Bases BAS1120
Height adjustment ± 30 mm

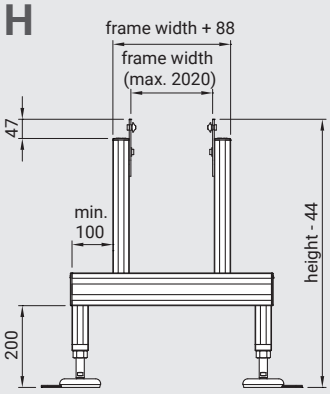
R



Swivel Castors with brake
CAS3080

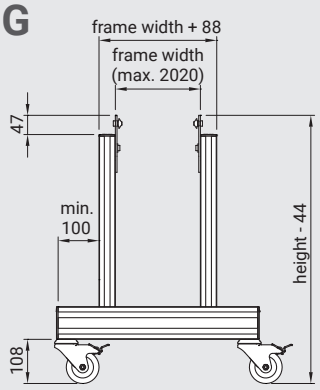
Wide conveyor stand types

H



Leveling Bases BAS1120
Height adjustment ± 30 mm

G



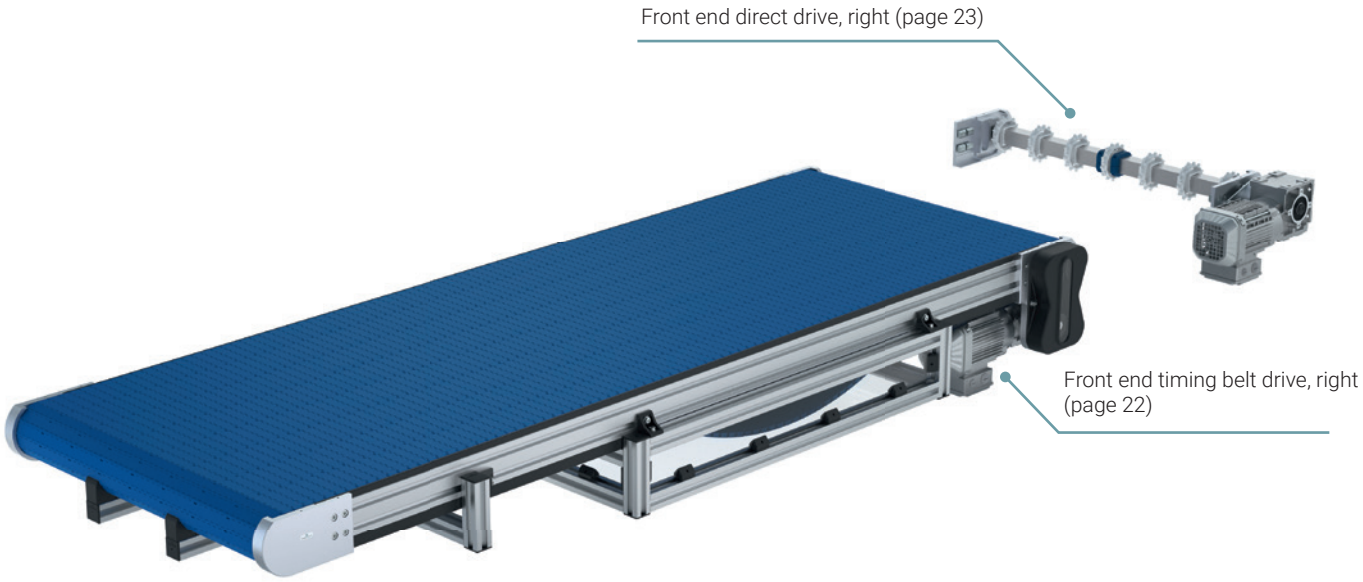
Swivel Castors with brake
CAS3080

Order code

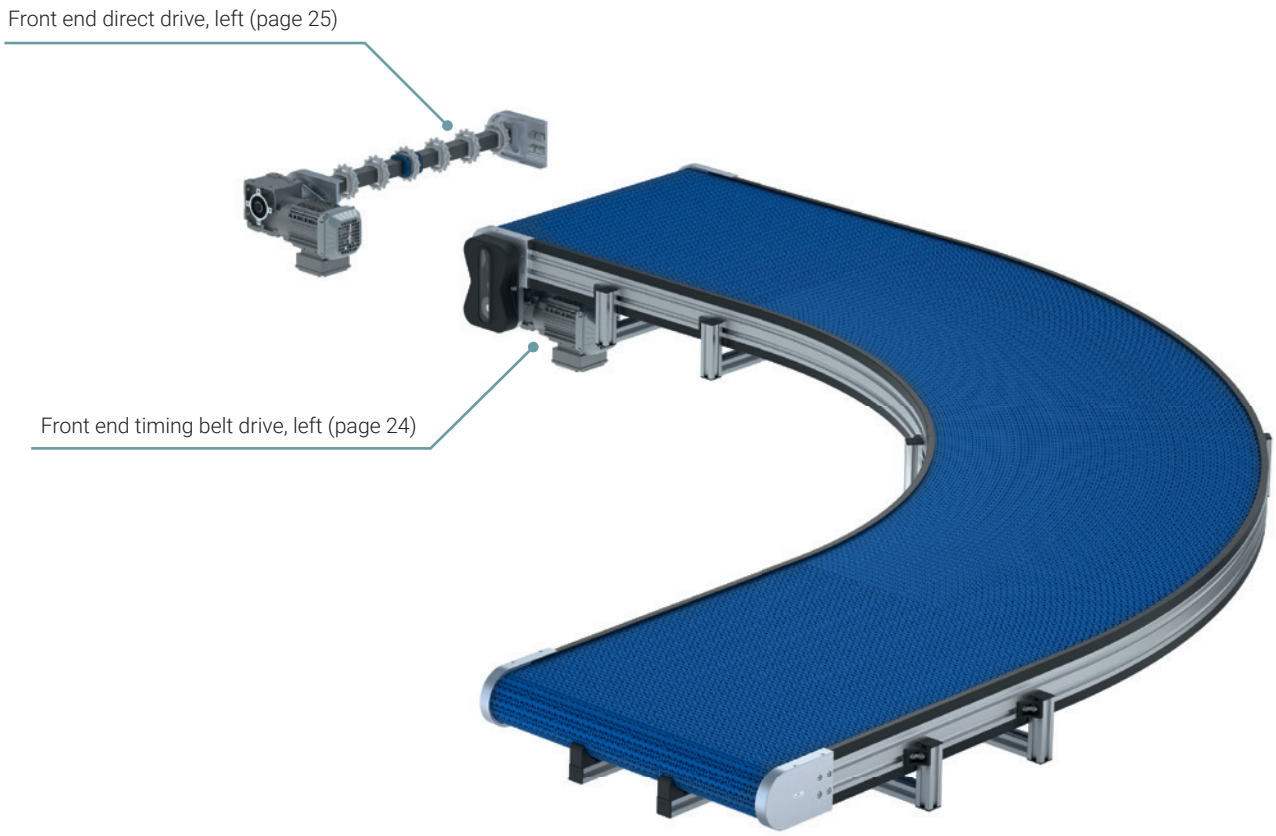
Description	Order code[1]				
		Frame width	Type	Length	Height
Stand for C8N/C8M	C8F	_ _ _ _	_ NN	_ _ _ _	_ _ _ _

1) Please complete the order code by adding the corresponding parameters for order processing.
Drawings: dimensions in mm

C8M Straight Modular Belt Conveyor Drive Options



C8MC Curved Modular Belt Conveyor Drive Options



C8M Straight Modular Belt Conveyors

Plug-and-Play

Side Guide for Modular Belt Conveyor
See page 50

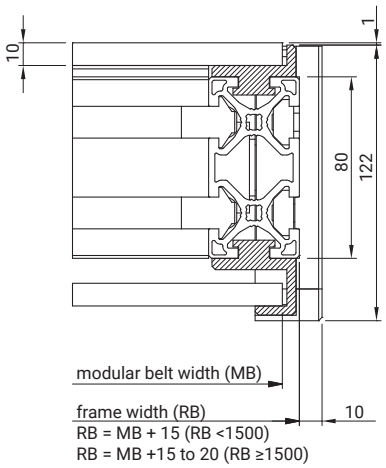
Application
Conveying tasks of all kinds

Technical data
Belt speeds from 6 m/min up to 50 m/min

Drive power depending on conveyor speed and load ranging from 0.25 kW to 0.55 kW (230/400V; 50/60Hz; IP54)

Max. total load of conveyed material: 750 kg
Modular belt pitch 1 inch
Temperature range: from -20°C to +40°C

Modular belt design
Modular belt open
Modular belt closed



Drive options[1]

Front end timing belt drive

A Front end timing belt drive, left

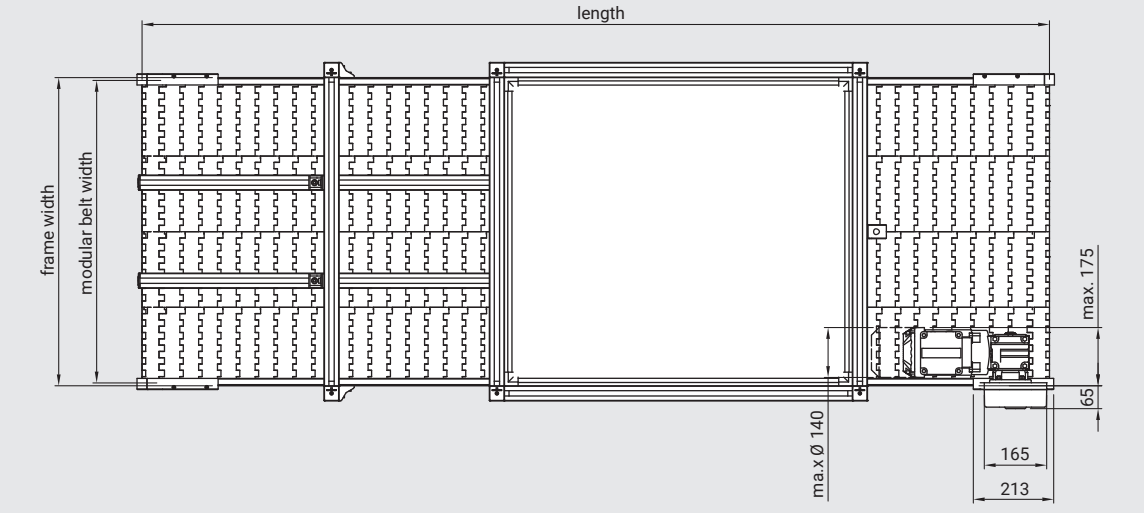
B Front end timing belt drive, right

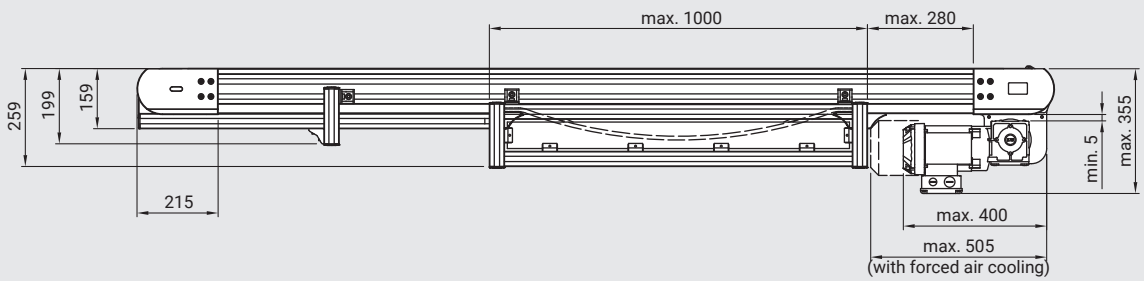
Front end direct drive

E Front end direct drive, left

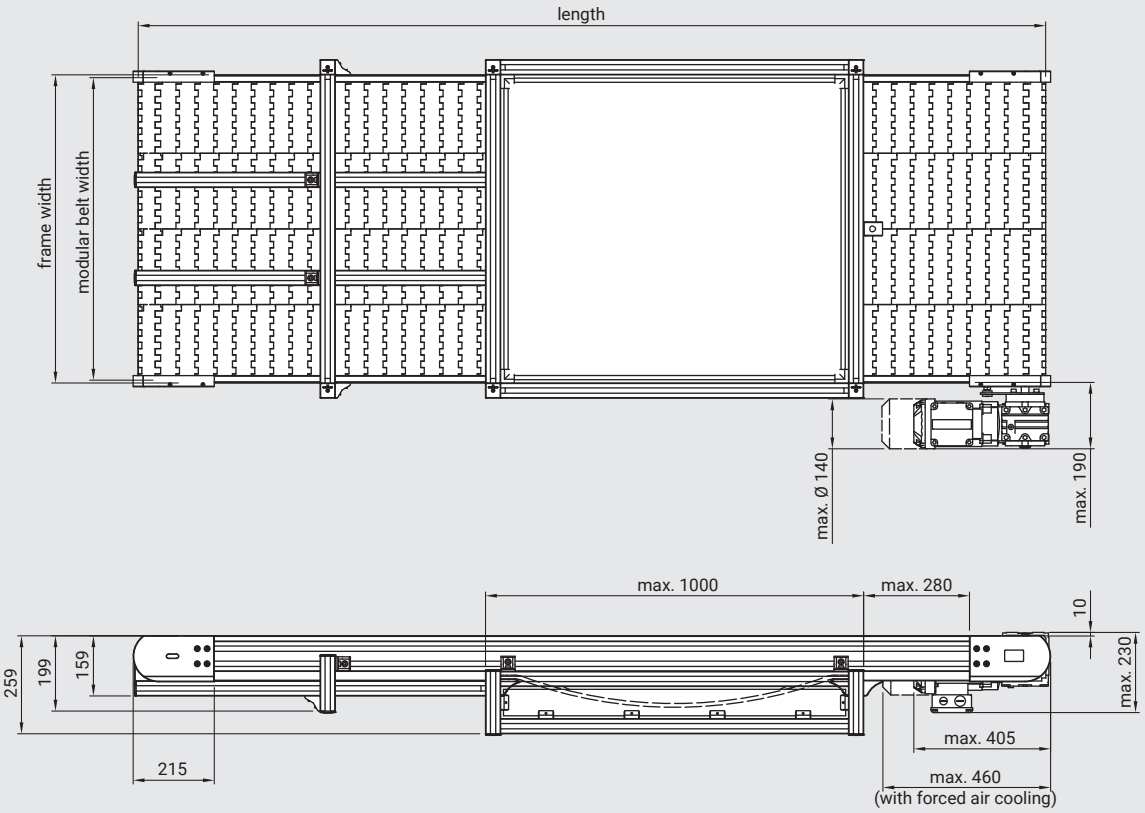
F Front end direct drive, right

Front end timing belt drive





Front end direct drive



Design options[2]

Side view

Length and frame width

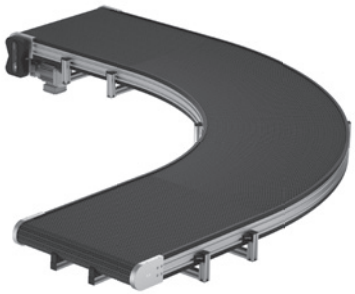
Description	Min. length [3]	Max. length[3]	Min. frame width[4]	Max. frame width [4]
C8M Straight front end timing belt drive	1500 mm	12000 mm	165 mm	2020 mm
C8M Straight front end direct drive	1500 mm	12000 mm	165 mm	2020 mm

Request for Quote / Order placement

Please use our request form at www.robotunits.com.

1) Only pulling direction is possible
2) Design options on request
3) Special lengths available upon request
4) Frame widths can be ordered ranging from min. 165 mm to max. 2020 mm in steps of 50 mm.
Drawings: dimensions in mm

C8MC Curved Modular Belt Conveyors



Plug-and-Play

Side Guide for Modular Belt Conveyor
See page 50

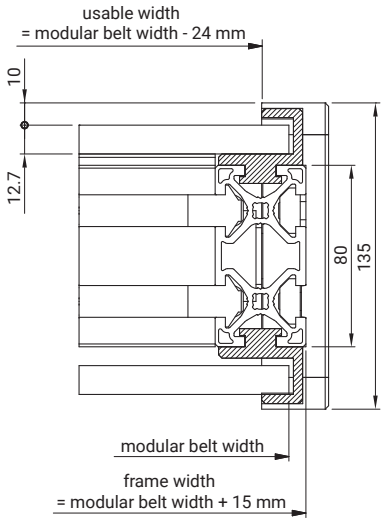
Application
Conveying tasks of all kinds

Technical data
Belt speeds from 6 m/min up to 30 m/min

Drive power depending on conveyor speed and load ranging from 0.25 kW to 0.55 kW (230/400V; 50/60Hz; IP54)

Max. total load of conveyed material: on request
Modular belt pitch 1 inch
Temperature range: from -20°C to +40°C

Modular belt design
Modular belt open



Drive options[1]

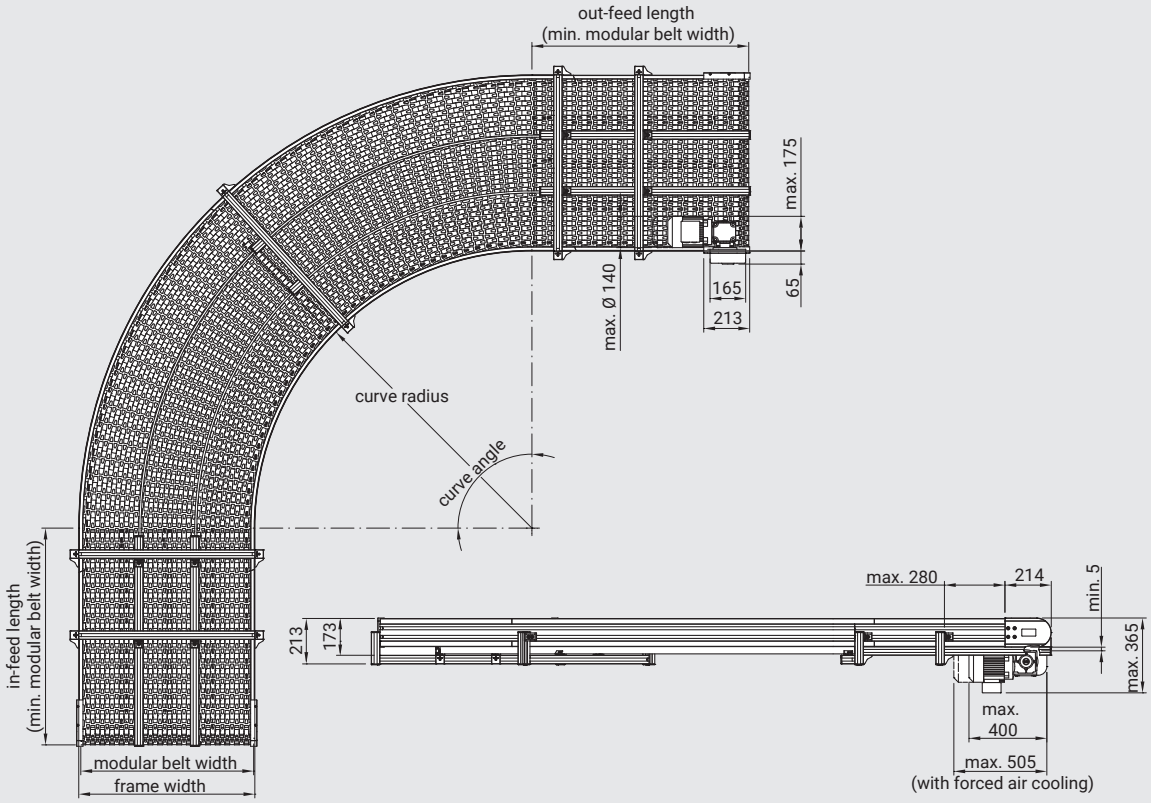
Front end timing belt drive

- A — Front end timing belt drive, left
- B — Front end timing belt drive, right

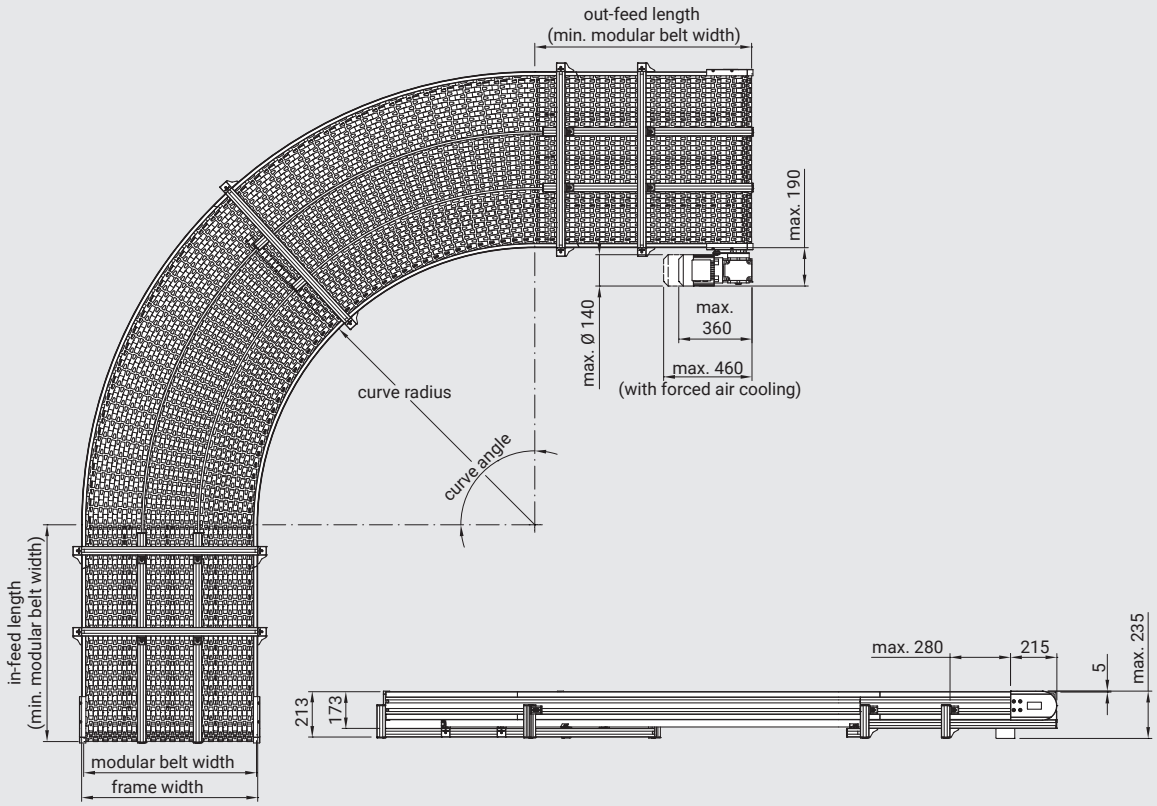
Front end direct drive

- E — Front end direct drive, left
- F — Front end direct drive, right

Front end timing belt drive



Front end direct drive



Design options[2]

Side view

Top view

Frame width

Description	Min. frame width[3]	Max. frame width [3]
C8MC Curved conveyor front end timing belt drive	215 mm	1215 mm
C8MC Curved conveyor front end direct drive	215 mm	1215 mm

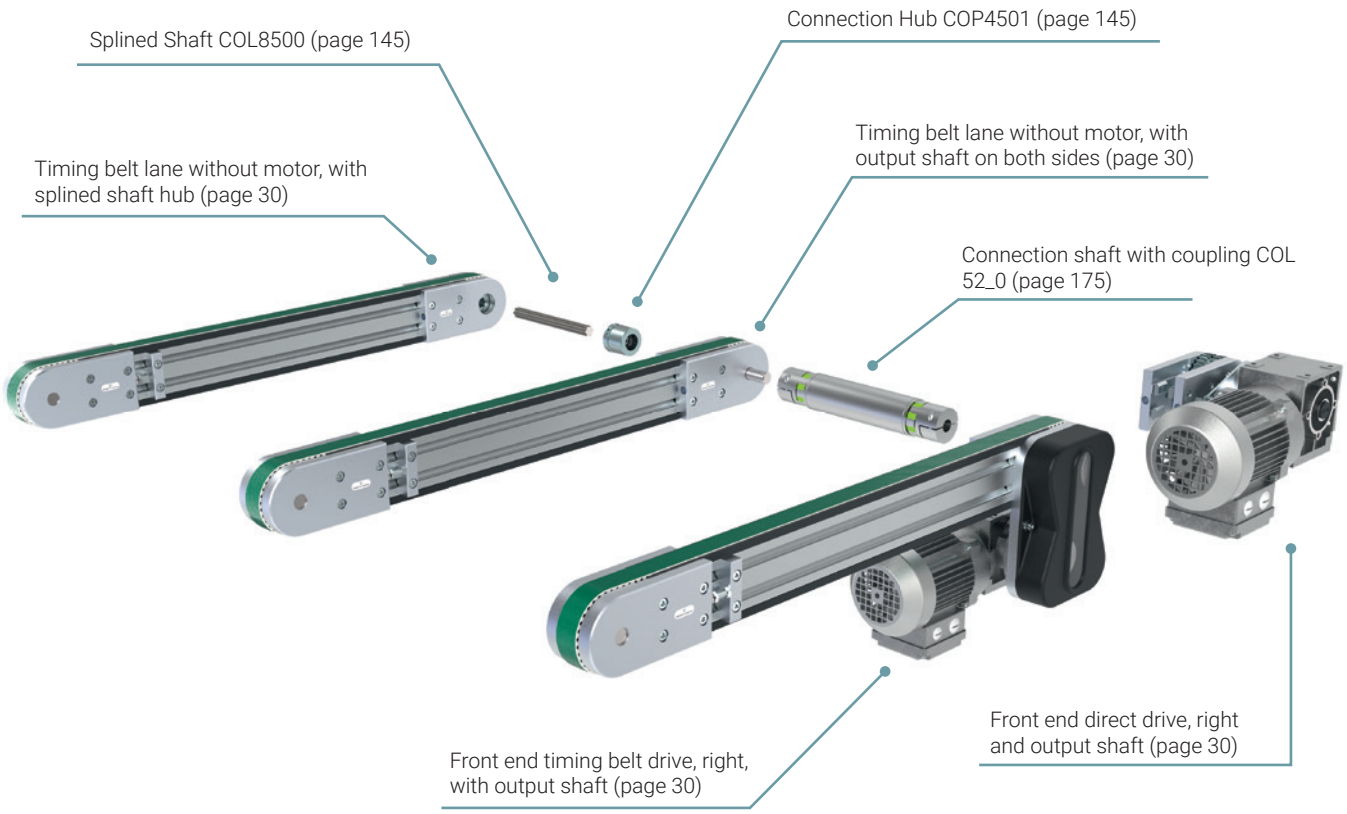
Request for Quote / Order placement

Please use our request form at www.robotunits.com.

1) Only pulling direction is possible
2) Design options on request
3) Frame widths can be ordered ranging from min. 215 mm to max. 1215 mm in steps of 50 mm.
Drawings: dimensions in mm

C4T Timing Belt Conveyor Drive And Connection Options

C8T Timing Belt Conveyor Drive And Connection Options



C4T Timing Belt Conveyor 40

Plug-and-Play

Side Guide for Timing Belt Conveyor
See page 50

Application
Conveying tasks of all kinds

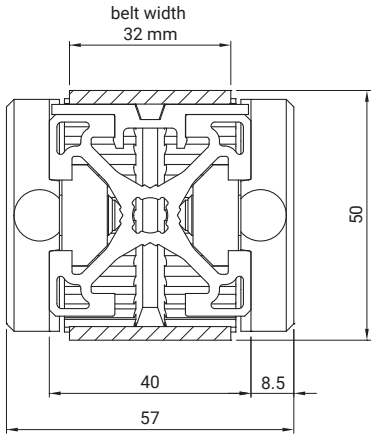
Technical data
Speed: from 3 m/min to 58 m/min

Drive power depending on conveyor speed and load ranging from 0.12 kW to 0.37 kW (230/400V; 50/60Hz; IP54)

Max. total load of conveyed material: 160 kg
Temperature range: from -20°C to +40°C

Pulley
Number of teeth: 30 teeth
Pitch circle diameter: 47.75 mm

Belt type
Standard application, adhesive and thus suitable for incline transport suitable for accumulation operation etc.



* With adhesive belt = 52 mm

Drive options[1]

Front end timing belt drive

- A — Front end timing belt drive, left
- B — Front end timing belt drive, right
- O — Front end timing belt drive, left and output shaft
- P — Front end timing belt drive, right and output shaft

Timing Belt Lane Without Motor

- T — Timing belt lane with output shaft on both sides
- U — Timing belt lane with output shaft, left
- V — Timing belt lane with output shaft, right

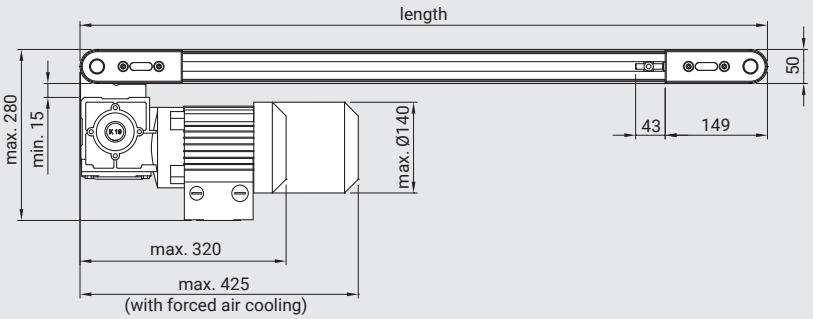
Front end timing belt drive, double lane

- A 2 — Front end timing belt drive, left, double lane
- B 2 — Front end timing belt drive, right, double lane

Front end timing belt drive, triple lane

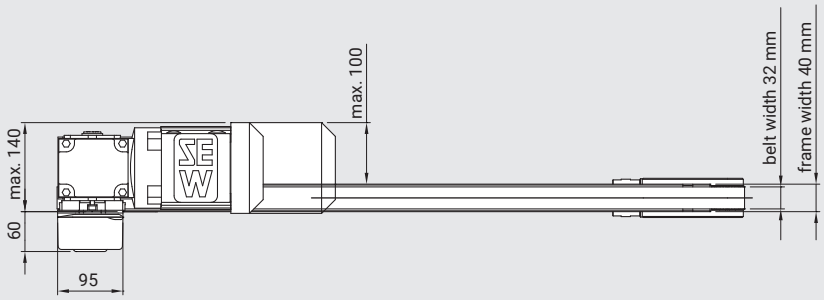
- A 3 — Front end timing belt drive, left, triple lane
- B 3 — Front end timing belt drive, right, triple lane

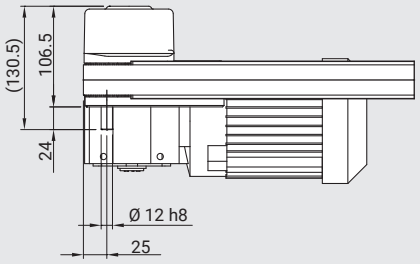
Front end timing belt drive



Front end timing belt drive

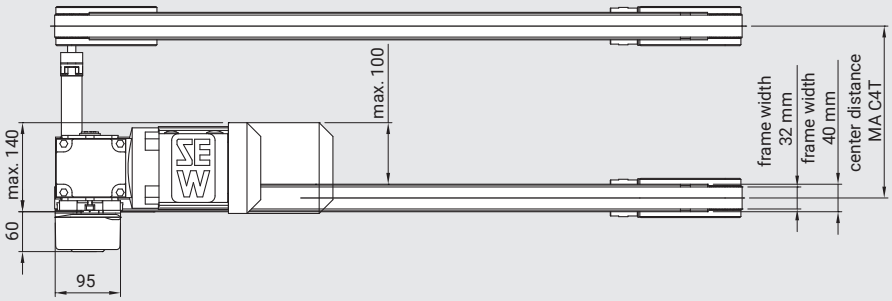
O/P

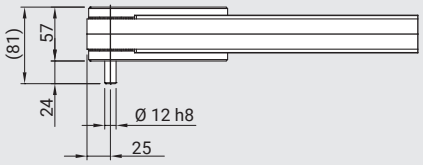




Front end timing belt drive, double lane

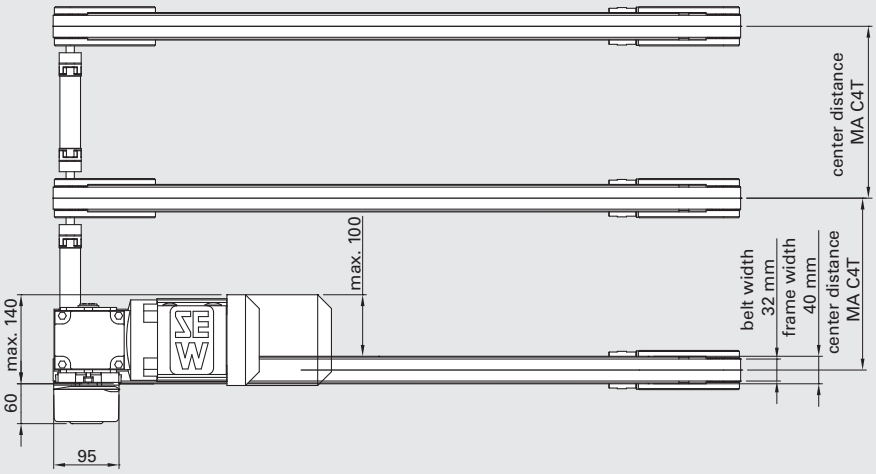
U/V

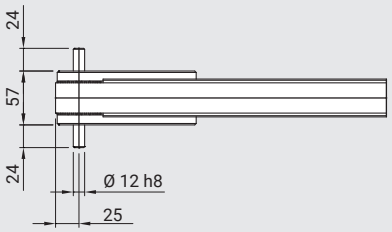




Front end timing belt drive, triple lane

T





Length and frame width

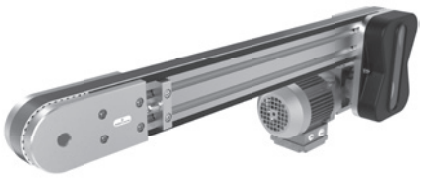
Description	Min. length	Max. length	MA1	MA2
Timing Belt Conveyor 40 Front end timing belt drive	400 mm	12000 mm		
Timing Belt Conveyor 40 Front end timing belt drive, double lane	400 mm	12000 mm	____	
Timing Belt Conveyor 40 Front end timing belt drive, triple lane	400 mm	12000 mm	____	____
Timing Belt Conveyor 40 Timing belt lane without motor	400 mm	12000 mm		

Order placement

Please use our Belt Conveyor configuration tool or our request form at www.robotunits.com

1) Standard direction is pulling. The running direction of all drives can be changed by reversing the polarity of the motor.
Drawings: dimensions in mm

C8T Timing Belt Conveyor 80



Plug-and-Play

Side Guide for Timing Belt Conveyor
See page 50

Application
Conveying tasks of all kinds

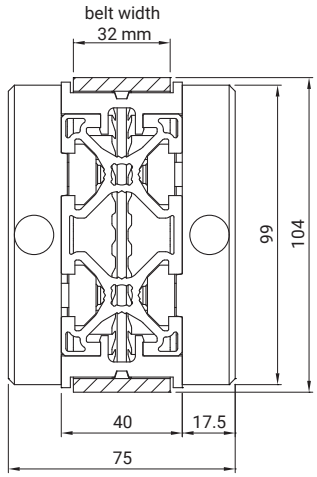
Technical data
Speed: from 6 m/min to 66 m/min

Drive power depending on conveyor speed and load from 0.25 kW to 0.37 kW (230/400V; 50/60Hz; IP54)

Max. total load of conveyed material: 400 kg
Temperature range: from -20°C to +40°C

Pulley
Number of teeth: 32 teeth
Pitch circle diameter: 101.85 mm

Belt type
Standard application, adhesive and thus suitable for incline transport suitable for accumulation operation etc.



* With adhesive belt = 108 mm

Drive options[1]

Front End Timing Belt Drive, Fmax 4000 N

- A — Front end timing belt drive, left
- B — Front end timing belt drive, right
- O — Front end timing belt drive, left and output shaft
- P — Front end timing belt drive, right and output shaft

Front End Direct Drive, Fmax 6000 N

- E — Front end direct drive, left
- F — Front end direct drive, right
- R — Front end direct drive, left and output shaft
- S — Front end direct drive, right and output shaft

Front end drive, double lane

- A 2 — Front end timing belt drive, left, double lane
- B 2 — Front end timing belt drive, right, double lane
- E 2 — Front end direct drive left, double lane
- F 2 — Front end direct drive right, double lane

Front end drive, triple lane

- A 3 — Front end timing belt drive, left, triple lane
- B 3 — Front end timing belt drive, right, triple lane
- E 3 — Front end direct drive left, triple lane
- F 3 — Front end direct drive right, triple lane

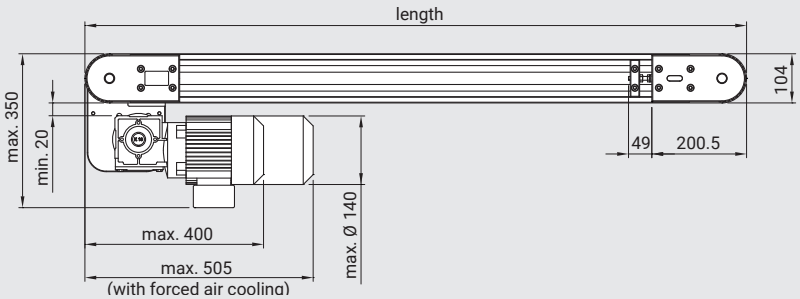
Timing Belt Lane Without Motor, Adjustable

- T — Timing belt lane with output shaft on both sides
- U — Timing belt lane with output shaft, left
- V — Timing belt lane with output shaft, right

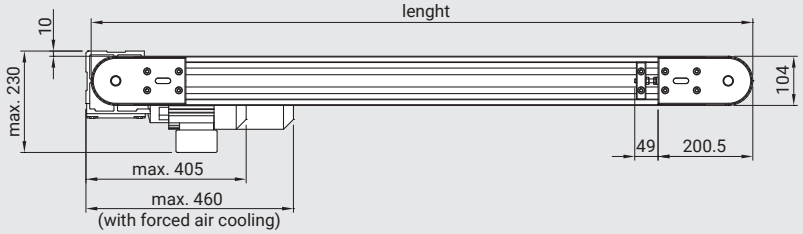
Timing Belt Lane Without Motor

- W — Timing belt lane with splined shaft hub

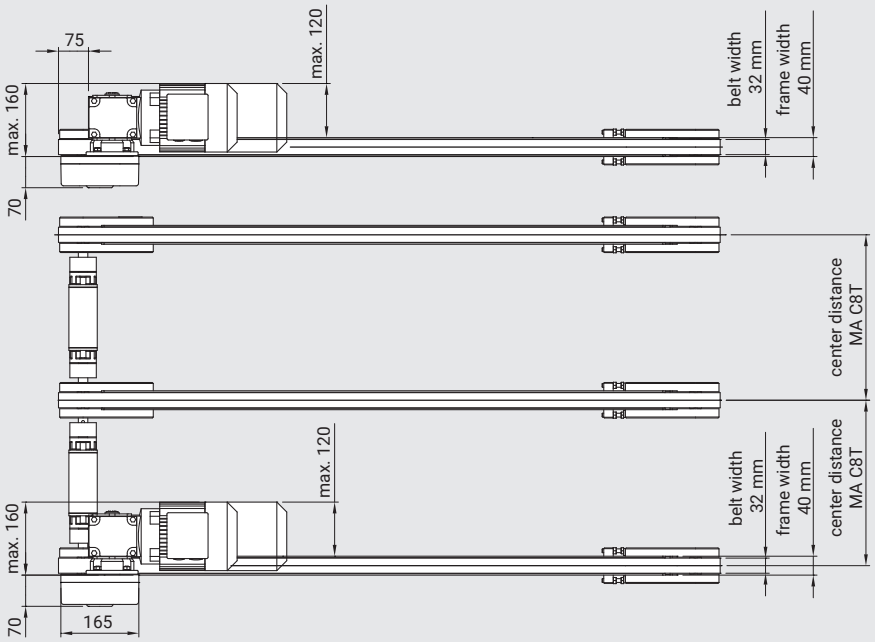
Front end timing belt drive



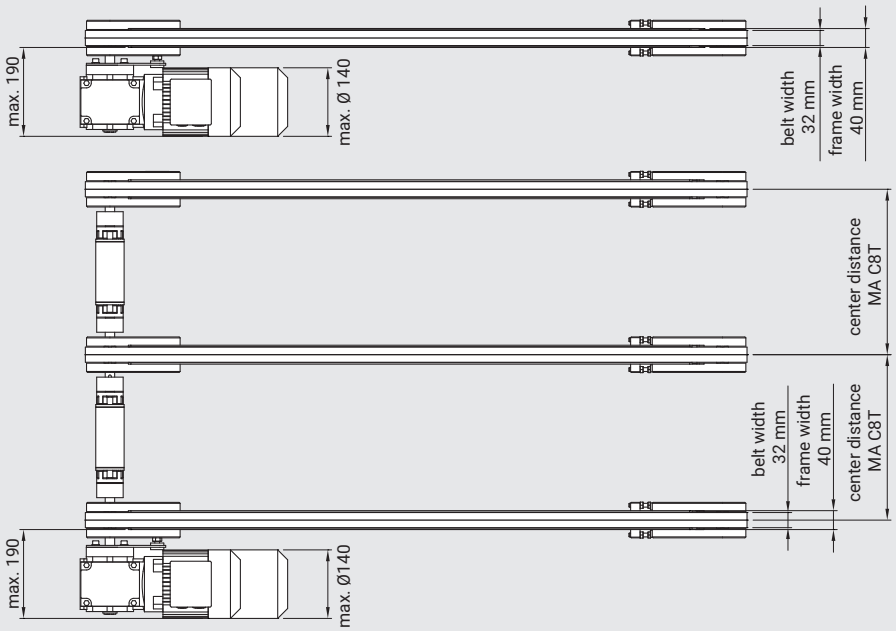
Front end direct drive



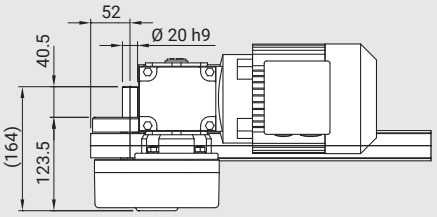
Front end timing belt drive, double/triple lane



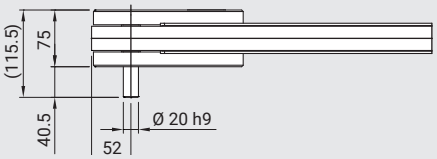
Front end direct drive, double/triple lane



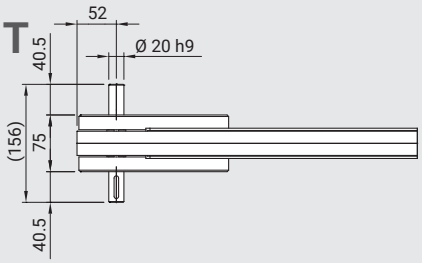
O/P



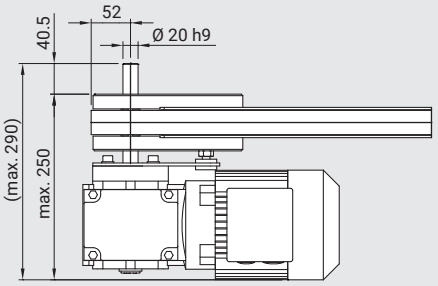
U/V



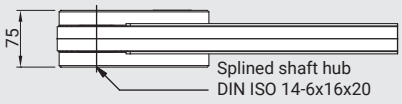
T



R/S



W, adjustable



Length and frame width

Description	Min. length	Max. length	MA1	MA2
Timing Belt Conveyor 80 Front end timing belt drive	550 mm	12000 mm		
Timing Belt Conveyor 80 Front end timing belt drive, double lane	550 mm	12000 mm	____	
Timing Belt Conveyor 80 Front end timing belt drive, triple lane	550 mm	12000 mm	____	____
Timing Belt Conveyor 80 Front end direct drive	550 mm	12000 mm		
Timing Belt Conveyor 80 Front end direct drive, double lane	550 mm	12000 mm	____	
Timing Belt Conveyor 80 Front end direct drive, triple lane	550 mm	12000 mm	____	____
Timing Belt Conveyor 80 Timing belt lane without motor	550 mm	12000 mm		

Order placement

Please use our Belt Conveyor configuration tool or our request form at www.robotunits.com

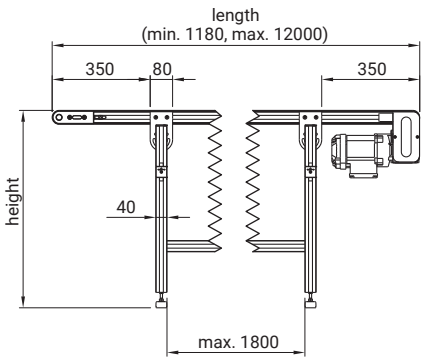
1) Standard direction is pulling. The running direction of all drives can be changed by reversing the polarity of the motor.

C4G Stand for C4T

Application
Stand for Timing Belt Conveyor 40

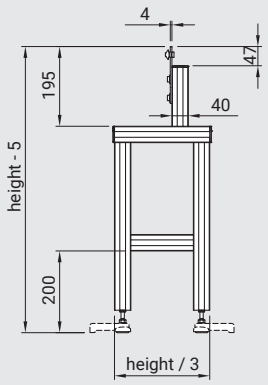
Technical data
Material: clear anodized aluminum, galvanized die-cast zinc; galvanized steel; rubber

Scope of delivery
Stand segment fully assembled and attached to the conveyor belt



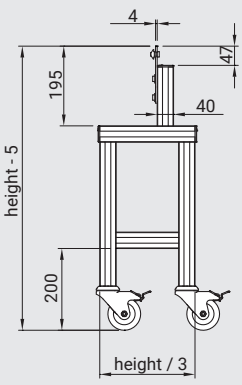
Stand types: single lane

S



Leveling Bases BAS 4008[1]
Height adjustment ± 20 mm

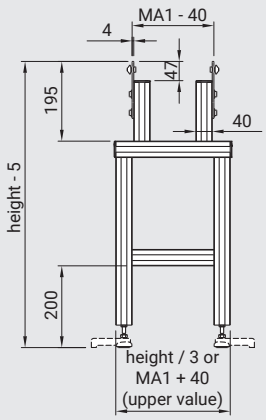
R



Swivel Castors with brake
CAS 3080

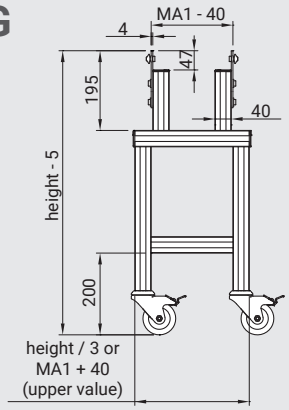
Stand types: double lane

H



Leveling Bases BAS 4008[1]
Height adjustment ± 20 mm

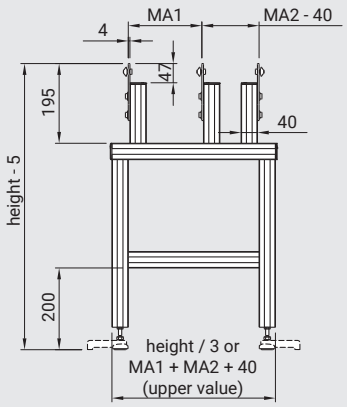
G



Swivel Castors with brake
CAS 3080

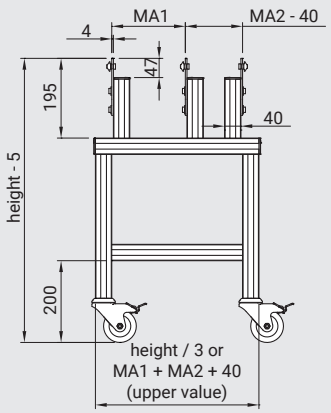
Stand types: triple lane

K



Leveling Bases BAS 4008[1]
Height adjustment ± 20 mm

M



Swivel Castors with brake
CAS 3080

Order code

Description	Order code[2]				
	Length	Type	Height	MA1	MA2
Stand for C4T	C4G ____	_ NN	____	____	____

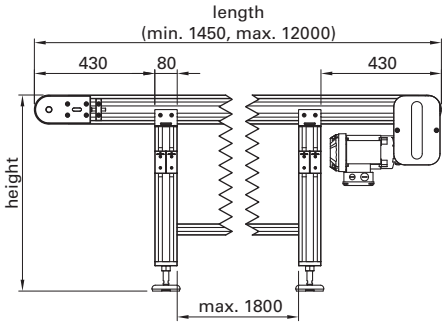
1) Optionally with Floor Mounting Plate BAP 4500
2) Please complete the order code by adding the corresponding parameters for order processing.
Drawings: dimensions in mm

C8G Stand for C8T

Application
Stand for Timing Belt Conveyor 80

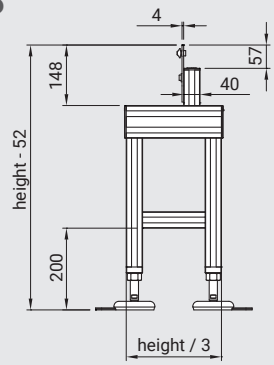
Technical data
Material: clear anodized aluminum, galvanized die-cast zinc; galvanized steel; rubber

Scope of delivery
Stand segment fully assembled and attached to the conveyor belt



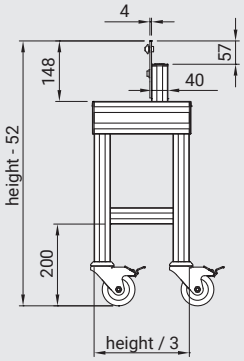
Stand types: single lane

S



Leveling Bases BAS 1120
Height adjustment ± 30 mm

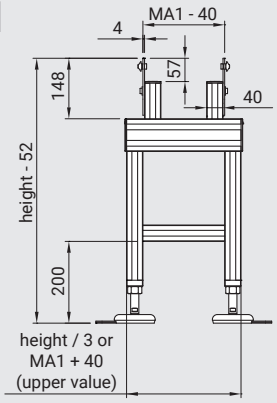
R



Swivel Castors with brake
CAS 3080

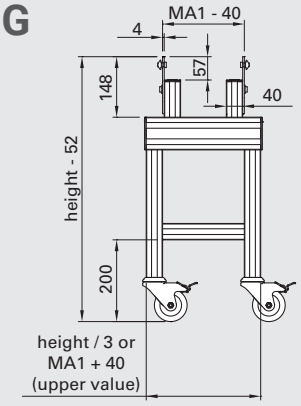
Stand types: double lane

H



Leveling Bases BAS 1120
Height adjustment ± 30 mm

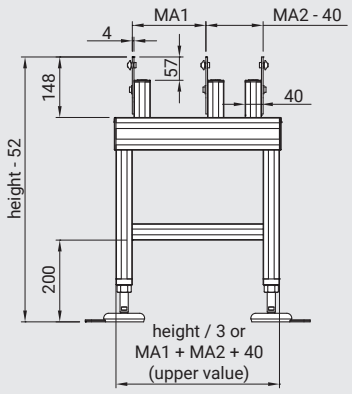
G



Swivel Castors with brake
CAS 3080

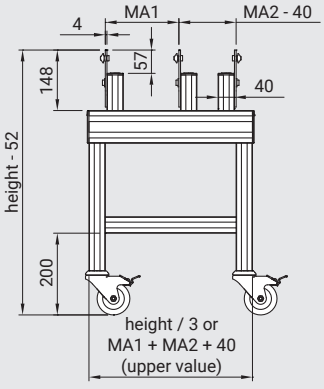
Stand types: triple lane

K



Leveling Bases BAS 1120
Height adjustment ± 30 mm

M



Swivel Castors with brake
CAS 3080

Order code

Description	Order code[1]				
	Length	Type	Height	MA1	MA2
Stand for C8T	C8G ____	_ NN	____	____	____

1) Please complete the order code by adding the corresponding parameters for order processing.
Drawings: dimensions in mm

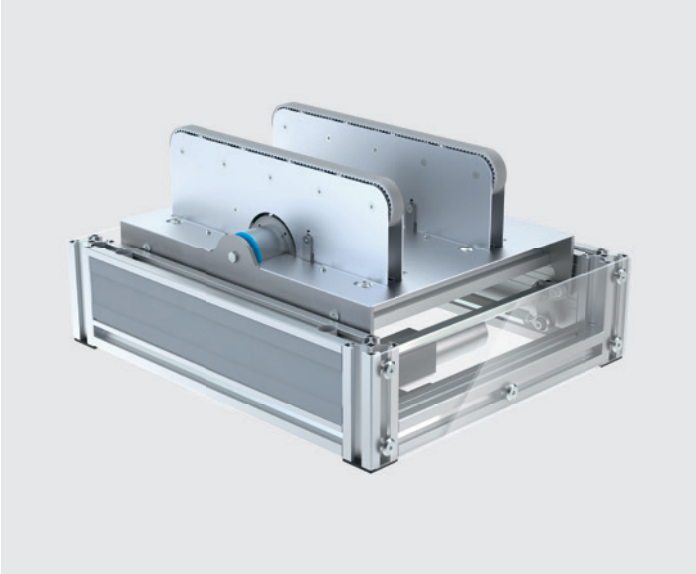
Straight Powered Roller Conveyor

Aligning Powered Roller Conveyor

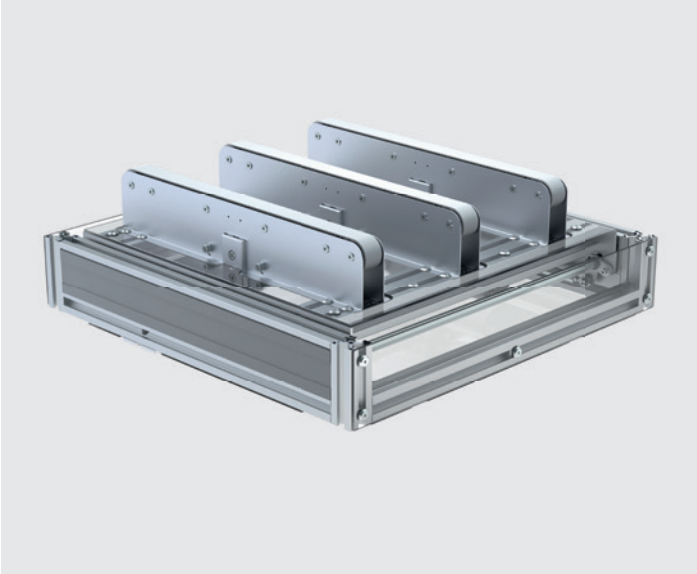
Powered Roller Conveyor Merge

Curved Powered Roller Conv.

Transfer Unit 90°, 50

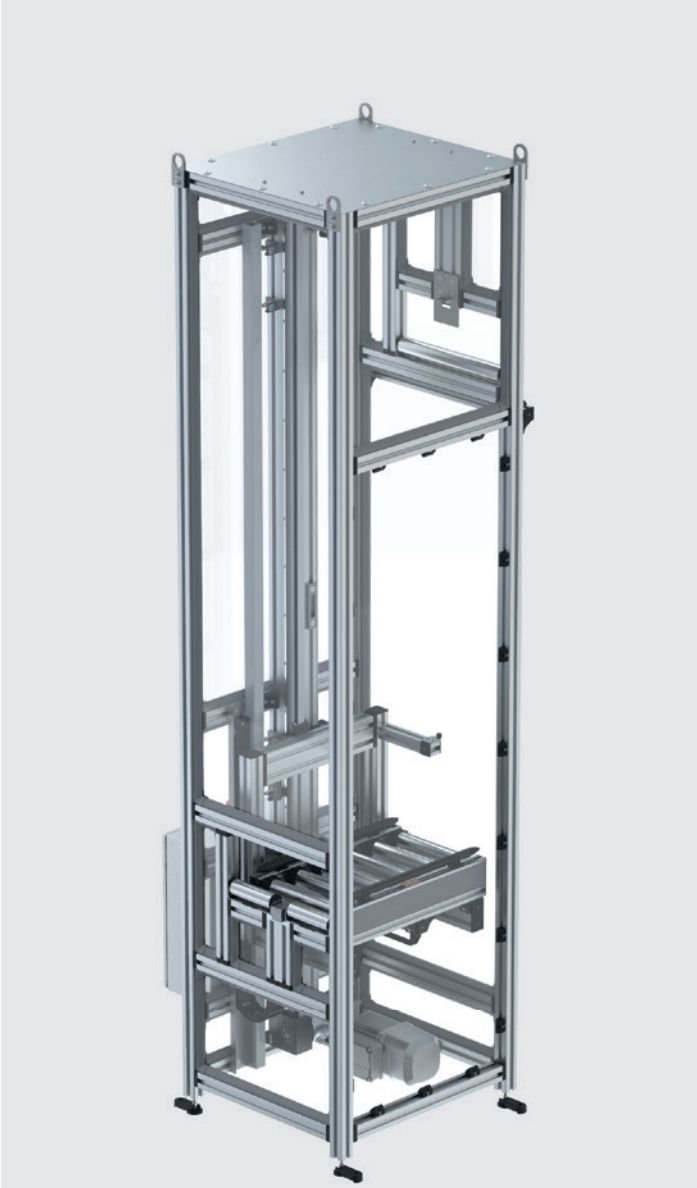


Transfer Unit 90°, 100



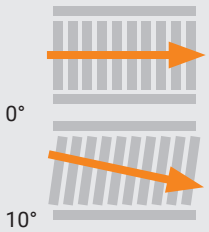
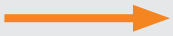
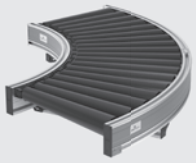
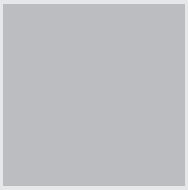
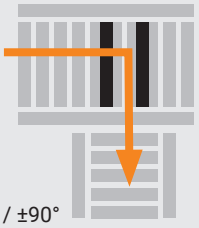
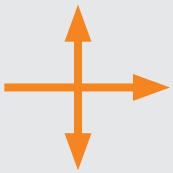
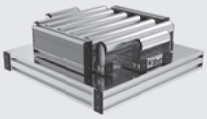
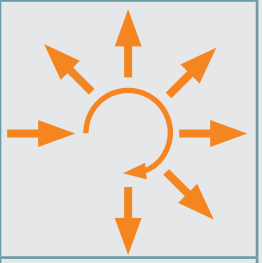
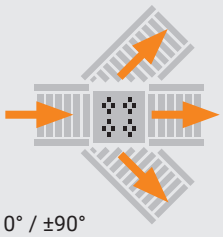
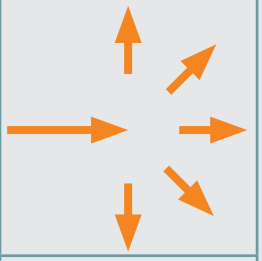
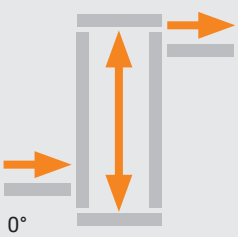
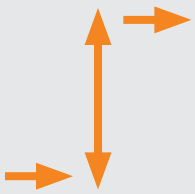
Turntable

Lift Station

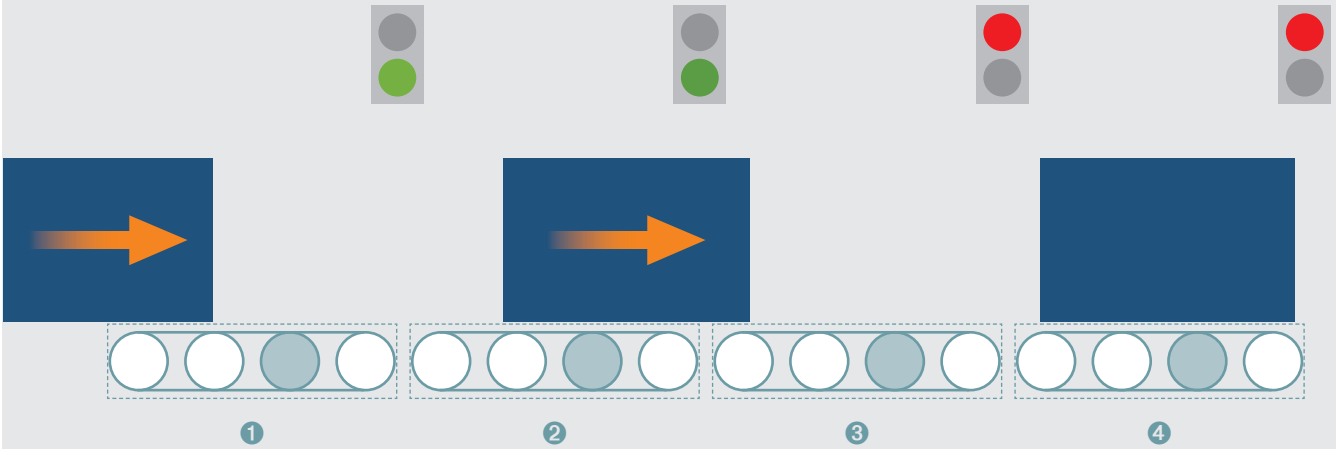


Diverter

Powered Roller Conveyor Modules

Module	Conveyed material alignment Angular range Conveying direction	Space requirement	Output (cycles/h)	Applications
	 0° 10°		 max. 2000	
	 45° / 90°		 max. 2000	
	 0° / ±90°		 max. 1500	
	 0° – 270°		 max. 350	
	 0° / ±90°		 max. 6000	
	 0°		 max. 350	

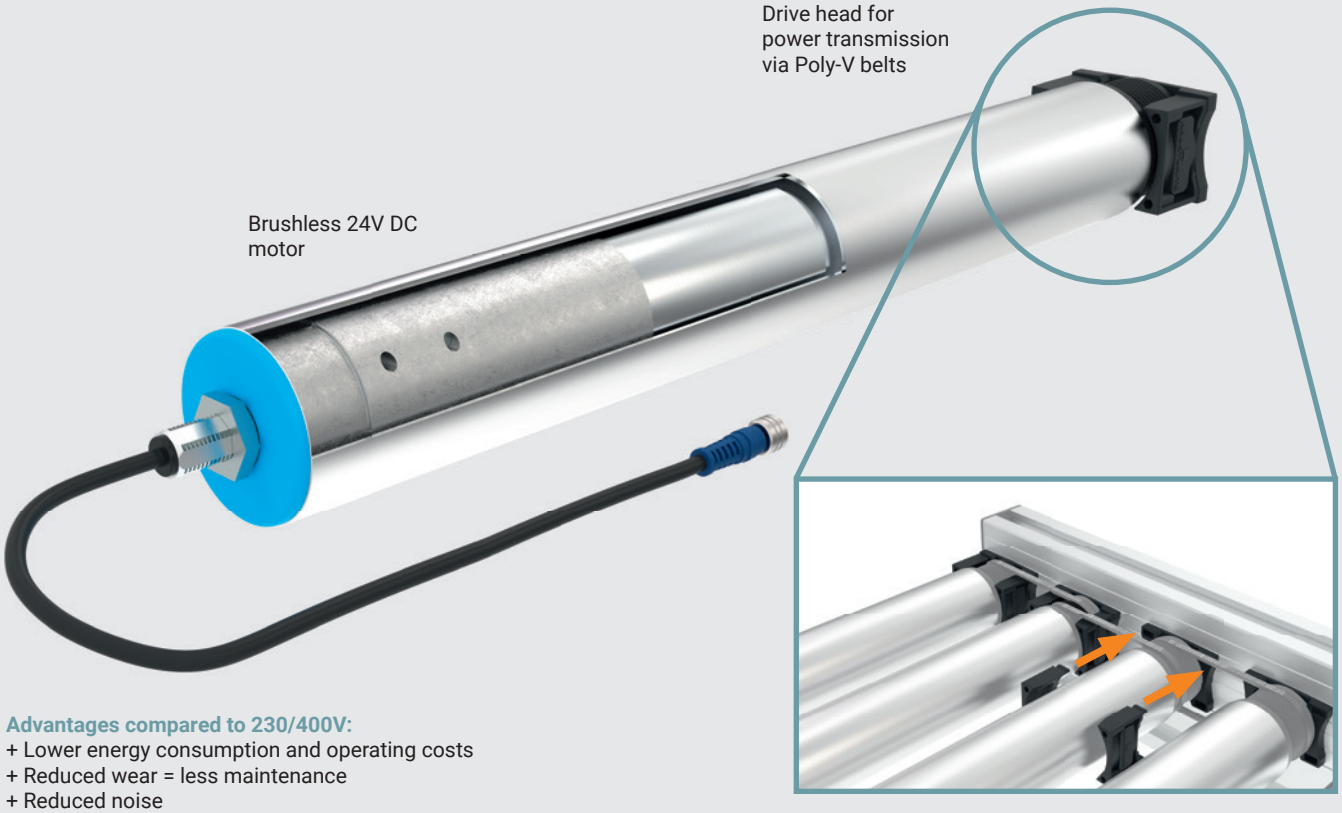
Zero pressure accumulation conveying



The powered roller conveyor with zero pressure accumulation (ZPA) logic is divided into several zones. These zones are interconnected and communicate with each other. If a product is conveyed towards an occupied zone 4, the product is held in the previous free zone 3. When the occupied zones become free 4, upstream zones follow automatically 3.

Advantages
+ "Plug and Play" solution with decentralized controller – no higher-level control (e.g. PLC) required
+ Only the required rollers turn = energy efficient
+ Zero pressure (no-contact) conveying

Drive technology



Advantages compared to 230/400V:
+ Lower energy consumption and operating costs
+ Reduced wear = less maintenance
+ Reduced noise

Protection guard integrated into roller

R5S Powered Roller Conveyor Straight

Supported control protocols:

PROFINET Modbus CC-Link EtherNet/IP EtherCAT

Side Guide for Roller Conveyor
See page 51

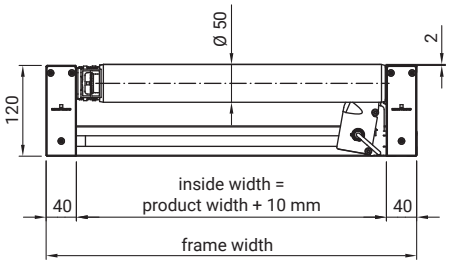
Application
Zero pressure accumulation of products in various sizes

Technical data
Brushless 24V DC motor
Speed Code / Speed:
15 = 2 to 20 m/min (Alternative)
20 = 10 to 28 m/min (Standard)
35 = 15 to 50 m/min (Alternative)
Temperature range: from +2°C to +40°C
Max. continuous current per motor roller: 2.5 A
Average continuous current per motor roller: 1.5 A
Conveyor rollers driven by Poly-V belts
Roller material: galvanized steel
Belt material: Chloroprene with PA tension members
Frame material: clear anodized aluminum
Max. weight of conveyed material: 100 kg

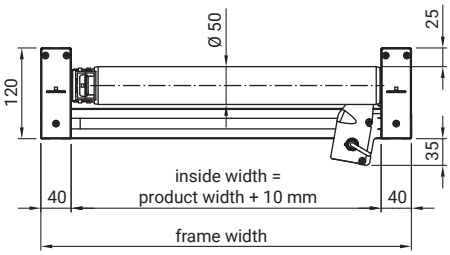
Control unit:
Completely pre-installed incl. sensors

Configuration:
Zero pressure accumulation control logic (not with EtherCAT)

Option without side guides

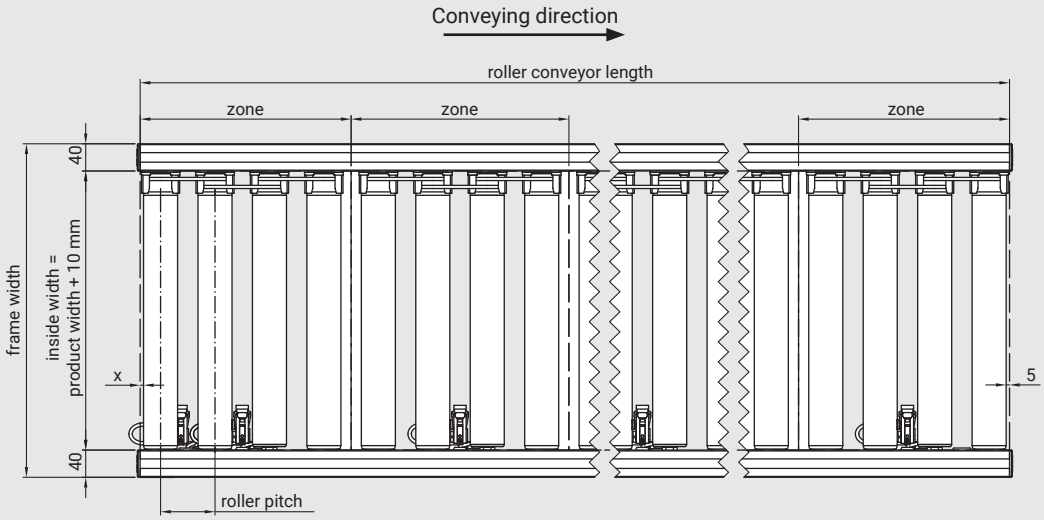


Option with side guides



Optional roller material:
Stainless steel
PU or PVC rubber coating

Dimensions



x: Depends on the product length

Standard dimensions

Description	Conveyed material (LxW)	Inside width	Frame width	Roller pitch	Standard length up to
Straight Powered Roller Conveyor	400 x 300 mm	310 mm	390 mm	105 mm	6000 mm
Straight Powered Roller Conveyor	300 x 400 mm	410 mm	490 mm	80 mm	6000 mm
Straight Powered Roller Conveyor	600 x 400 mm	410 mm	490 mm	160 mm	6000 mm
Straight Powered Roller Conveyor	400 x 600 mm	610 mm	690 mm	105 mm	6000 mm

Conveyors with special widths (min. inside width 310 mm, max. inside width 1210 mm), special lengths and special roller pitches are available on request. Guideline for roller pitch calculation: conveyed material length in conveying direction / 3.75

Drawings: dimensions in mm

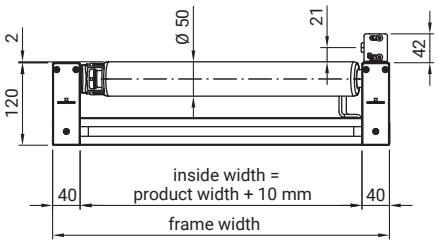
R5A Aligning Powered Roller Conveyor

Application
Alignment of conveyed goods in different sizes on one edge

Technical data
Brushless 24V DC motor
Speed Code / Speed:
15 = 2 to 20 m/min (Alternative)
20 = 10 to 28 m/min (Standard)
35 = 15 to 50 m/min (Alternative)
Temperature range: from +2°C to +40°C
Max. continuous current per motor roller: 2.5 A
Average continuous current per motor roller: 1.5 A
Conveyor rollers driven by Poly-V belts
Roller material: galvanized steel
Belt material: Chloroprene with PA tension members
Frame material: clear anodized aluminum
Max. weight of conveyed material: 50 kg

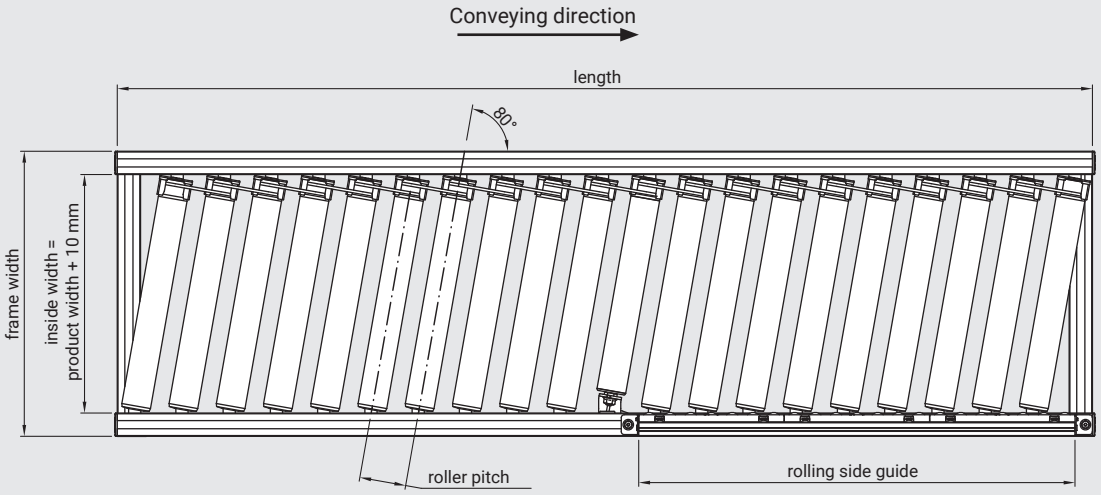
Control unit:
Fully wired, optionally with sensors

Offset per meter: 173 mm



Optional roller material:
Stainless steel

Dimensions



Inside width min. 310mm, Inside width max. 1210mm

Request for Quote / Order placement

Please use our request form at www.robotunits.com.

Drawings: dimensions in mm

R5M Powered Roller Conveyor Merge

Side Guide for Roller Conveyor
See page 51

Supported control protocols:

PROFINET Modbus CC-Link
EtherNet/IP EtherCAT

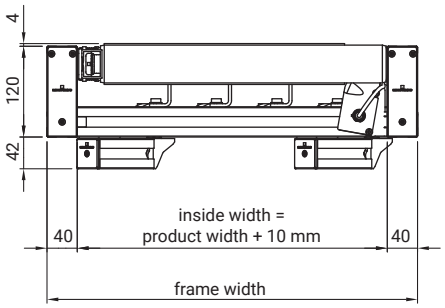
Side Guide for Roller Conveyor
See page 51

Application
Zero pressure accumulation conveying and merging into a single conveyor line of conveyed material in various sizes

Technical data
Brushless 24V DC motor
Speed Code / Speed:
15 = 2 to 20 m/min (Alternative)
20 = 10 to 28 m/min (Standard)
35 = 15 to 50 m/min (Alternative)
Temperature range: from +2°C to +40°C
Max. continuous current per motor roller: 2.5 A
Average continuous current per motor roller: 1.5 A
Conveyor rollers driven by Poly-V belts
Roller material: galvanized steel
Belt material: Chloroprene with PA tension members
Frame material: clear anodized aluminum
Max. weight of conveyed material: 50kg

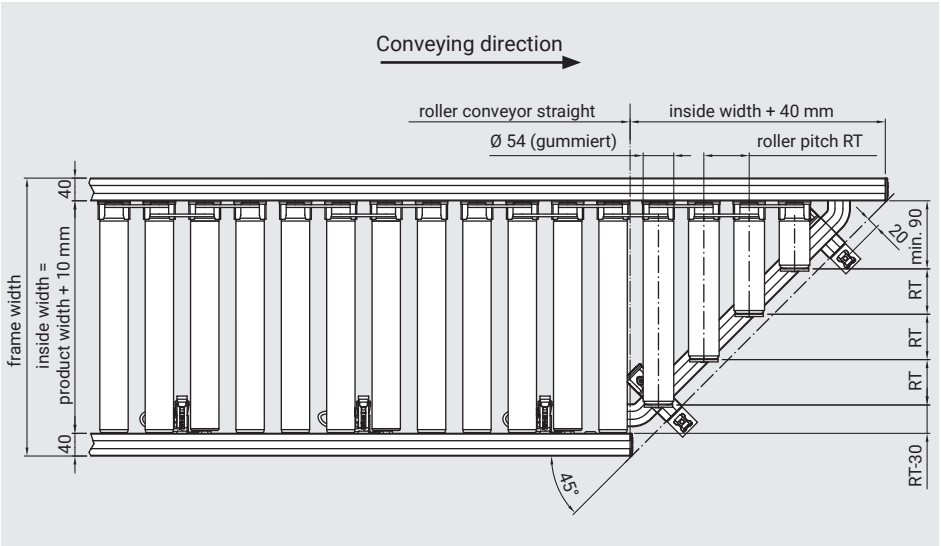
Control unit:
Completely wired incl. sensors and control cabinet

Configuration:
Zero pressure accumulation control logic with downstream powered roller conveyor (not with EtherCAT)



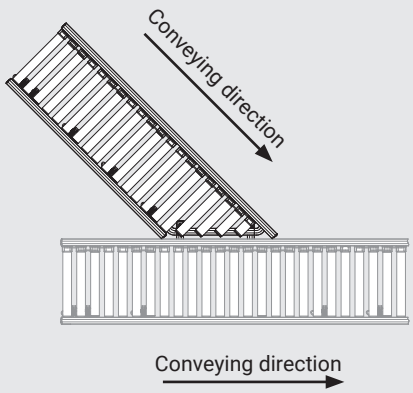
Optional roller material:
Stainless steel
PU or PVC rubber coating

Dimensions



Layout

Powered Roller Conveyor Straight with Merge



Standard dimensions

Description	Conveyed material (LxW)	Inside width	Frame width	Roller pitch	Standard lengths up to
Powered Roller Conveyor Merge	400 x 300 mm	310 mm	390 mm	105 mm	6000 mm
Powered Roller Conveyor Merge	300 x 400 mm	410 mm	490 mm	80 mm	6000 mm
Powered Roller Conveyor Merge	600 x 400 mm	410 mm	490 mm	160 mm	6000 mm
Powered Roller Conveyor Merge	400 x 600 mm	610 mm	690 mm	105 mm	6000 mm

Special dimensions are available on request.

Drawings: dimensions in mm

R5C Powered Roller Conveyor Curved

Side Guide for Roller Conveyor
See page 51

Supported control protocols:

PROFINET® Modbus CC-Link
EtherNet/IP EtherCAT

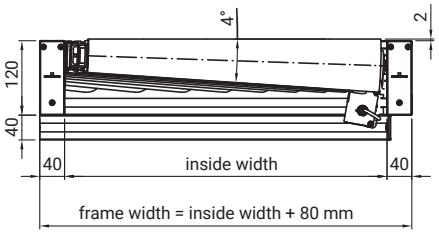
Side Guide for Roller Conveyor
See page 51

Application
Zero pressure accumulation of products in various sizes

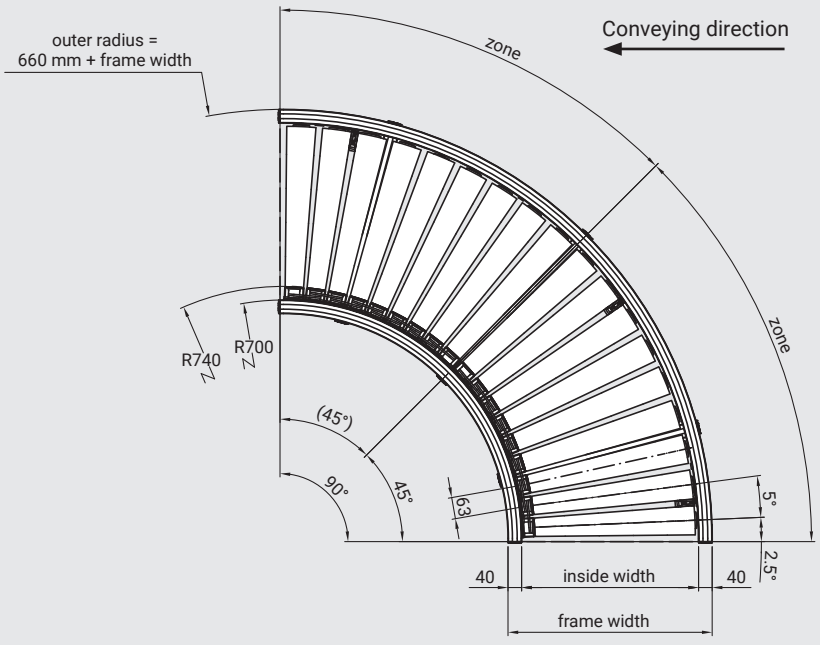
Technical data
Brushless 24V DC motor
Speed Code / Speed:
15 = 2 to 20 m/min (Alternative)
20 = 10 to 28 m/min (Standard)
35 = 15 to 50 m/min (Alternative)
Temperature range: from +2°C to +40°C
Max. continuous current per motor roller: 2.5 A
Average continuous current per motor roller: 1.5 A
Conveyor rollers driven by Poly-V belts
Roller material: galvanized steel with conical plastic attachments made of PP with 10 % GF
Belt material: Chloroprene with PA tension members
Frame material: clear anodized aluminum
Max. weight of conveyed material: 100 kg

Control unit:
Completely pre-installed incl. sensors

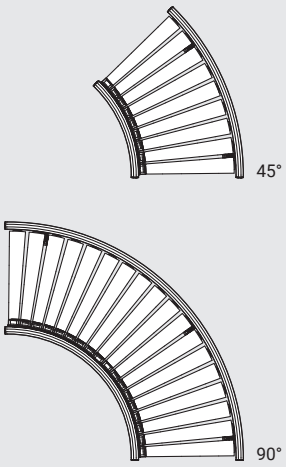
Configuration:
Zero pressure accumulation control logic (not with EtherCAT)



Dimensions



Standard Angles



The inside width depends on the dimensions of the transported product. Min. inside width is 310 mm, max. inside width is 1040 mm.
Curved roller conveyors with special angles are available on request.

Request for Quote / Order placement

Please use our request form at www.robotunits.com.

Drawings: dimensions in mm

R5T0050 Transfer Unit 90°, 50

Supported control protocols:

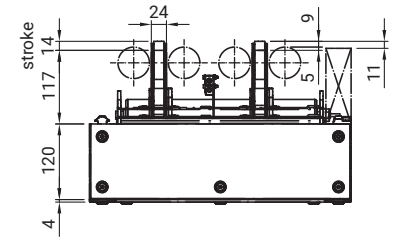
PROFINET Modbus CC-Link EtherNet/IP EtherCAT

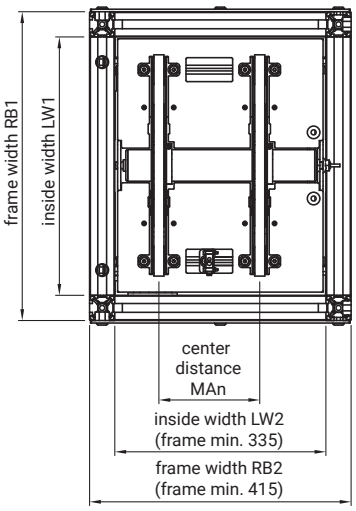
Application
90 degree transfer of products in various sizes:
Weight max. 50 kg:
min. 300 x 400 to max. 800 x 800 mm
Weight max. 20 kg:
min. 300 x 400 to max. 400 x 1300 mm
The Transfer Unit 90° can be integrated into any zone of a Powered Roller Conveyor Straight.

Technical data
Brushless 24V DC motor for lifting unit and belt
Temperature range: from +2°C to +40°C
Max. continuous current per motor roller: 3.5 A
Roller material: galvanized steel
Timing belt material: PU
Duration of the lift movement: 0.5 s
Max. speed:
≤ 20 kg: 48 m/min
≤ 40 kg: 33 m/min
≤ 50 kg: 26 m/min
Max. weight of conveyed material: 50 kg

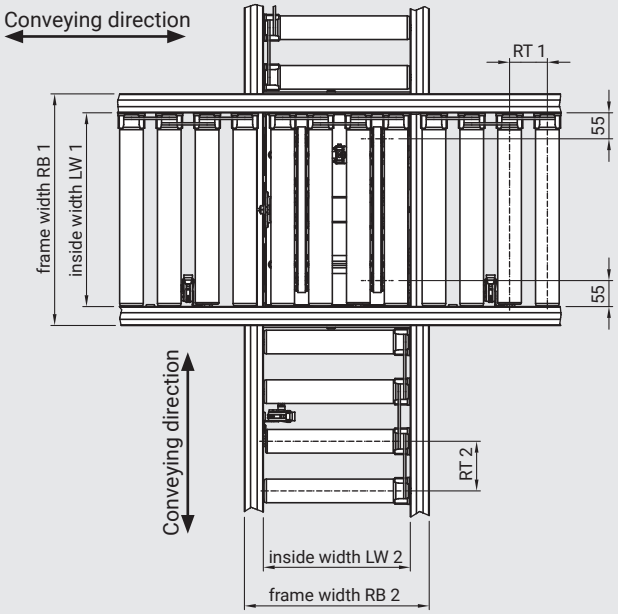
Control unit:
Completely pre-installed incl. sensors

Configuration:
Zero pressure accumulation control logic with upstream and downstream Powered Roller Conveyor (not with EtherCAT)

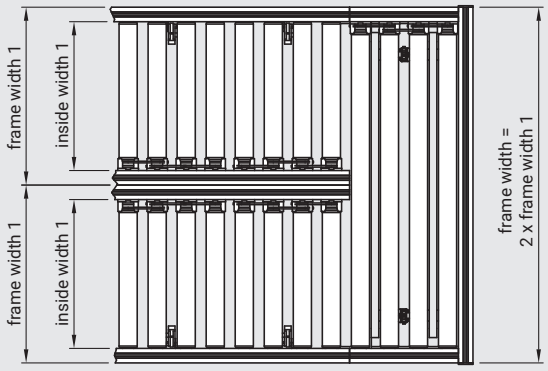




Dimensions



Transfer Unit 90° for 2 zones



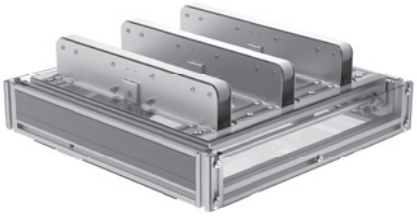
Max. dimensions of the transported product with max. 20 kg: length 400 mm, width 600 mm (frame width 1380 mm)

Request for Quote / Order placement

Please use our request form at www.robotunits.com.

Drawings: dimensions in mm

R5T0100 Transfer Unit 90°, 100

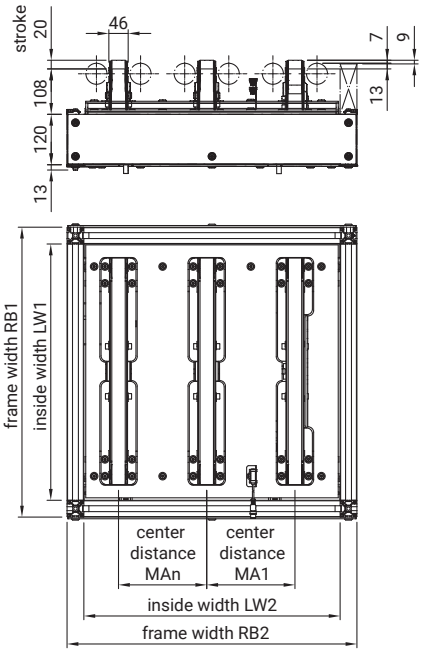


Application
90 degree transfer of products in various sizes from min. 400 x 600 mm to max. 1200 x1200 mm.
The Transfer Unit 90° can be integrated into any zone of a Powered Roller Conveyor Straight.

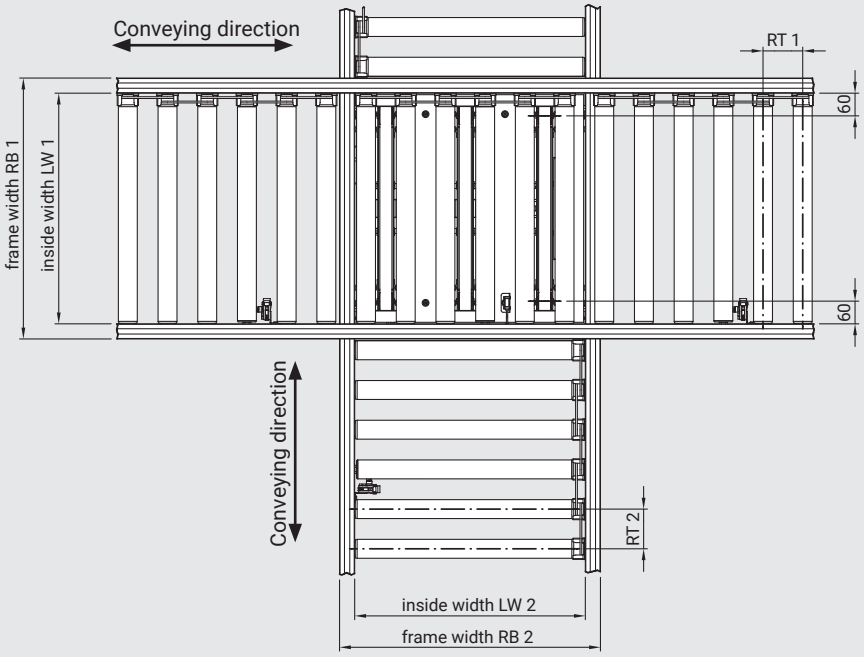
Technical data
Brushless 48V DC motor for lifting unit and belt
Temperature range: from +2°C to +40°C
Max. continuous current of lifting unit motor: 6.6 A
Max. continuous current of belt motor: 8.6 A
Timing belt material: PU
Duration of the lift movement: 0.5 s
Max. cycle time with 35 kg and conveyed material dimensions 600 x 400 mm:
900 cycles / hour
Max. weight of conveyed material: 100 kg

Control unit:
Motor control integrated in the 48 V motor, incl. 5 m cable with open end

Configuration:
Drives for lifting unit and belts are preconfigured, control by customer through higher-level control system via 24 VDC I/Os



Dimensions



Request for Quote / Order placement

Please use our request form at www.robotunits.com.

Drawings: dimensions in mm

R5R Turntable With Powered Roller Conveyor

Supported control protocols:

PROFINET® Modbus CC-Link EtherNet/IP EtherCAT

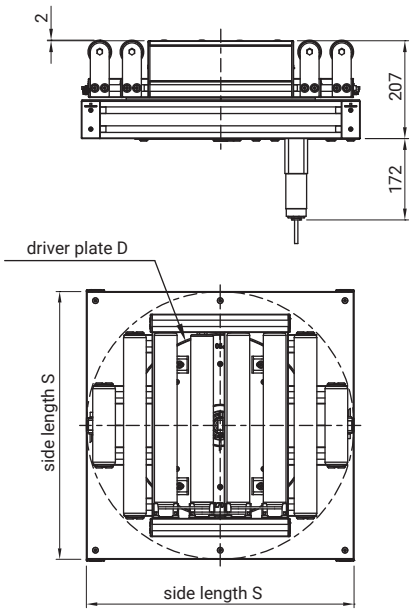
Side Guide for Roller Conveyor
See page 51

Application
Correctly positioned turning of products in various sizes

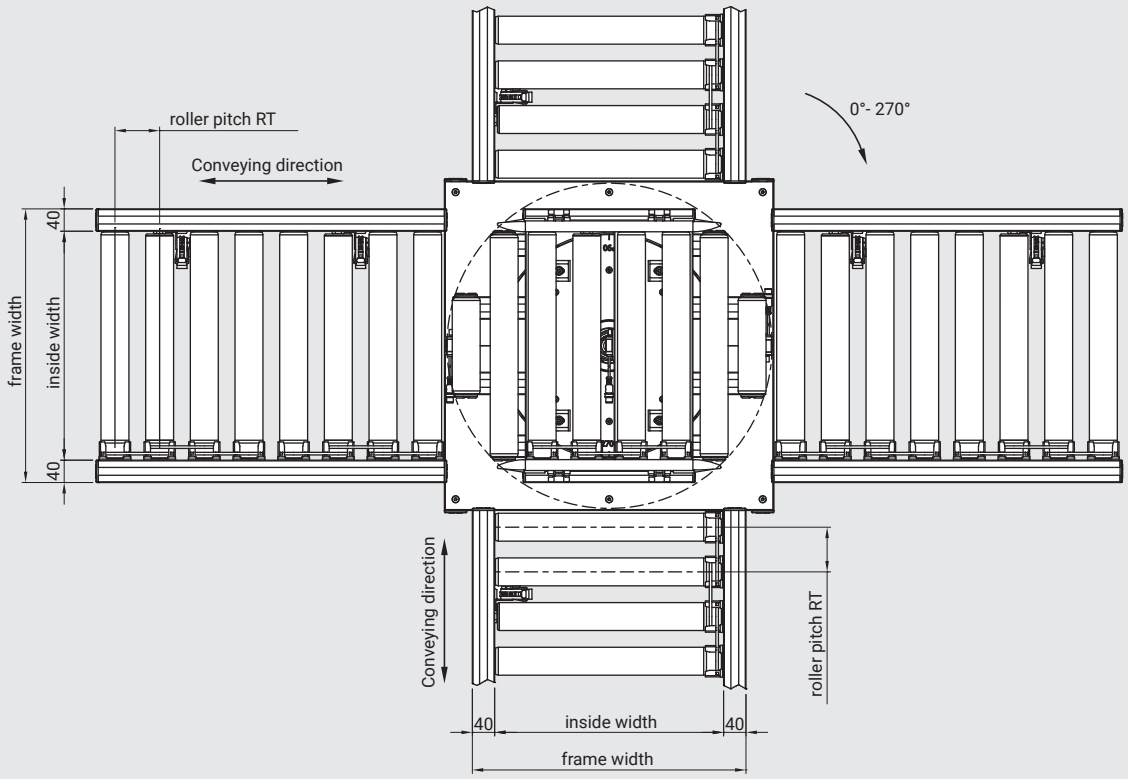
Technical data
Brushless 24V DC motor
Temperature range: from +2°C to +40°C
Max. continuous current per motor roller: 2.5 A
Turning range: 0° - 270°
Travel time for 90°: 2.5s
Max. weight of conveyed material: 50 kg

Control unit:
Completely pre-installed incl. sensors

Configuration:
Zero pressure accumulation control logic with upstream and downstream Powered Roller Conveyor (not with EtherCAT)



Dimensions



Standard dimensions

		Roller Conveyor on the Turntable			Turntable	
Description	Conveyed material (LxW)	Inside width	Frame width	Roller pitch	Side length S	Driver plate D
Turntable with Powered Roller Conveyor	400 x 300 mm	310 mm	390 mm	105 mm	590 mm	Ø 400 mm
Turntable with Powered Roller Conveyor	300 x 400 mm	410 mm	490 mm	80 mm	590 mm	Ø 400 mm
Turntable with Powered Roller Conveyor	600 x 400 mm	410 mm	490 mm	160 mm	790 mm	Ø 630 mm
Turntable with Powered Roller Conveyor	400 x 600 mm	610 mm	690 mm	105 mm	790 mm	Ø 630 mm

Special dimensions are available on request.

Drawings: dimensions in mm

R5D Diverter

Diverter without cover plate

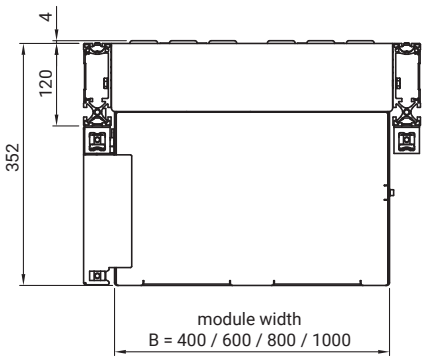
Diverter with cover plate

Application
Sorting of conveyed products with various sizes. Can be integrated into any conveyor line

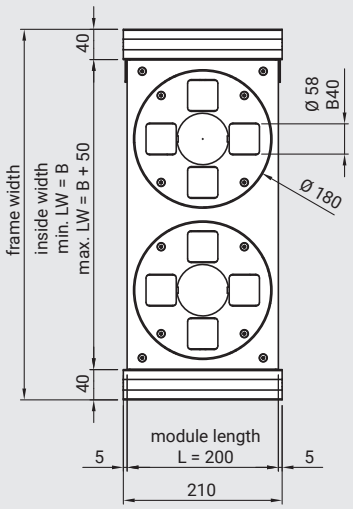
Technical data
Brushless 24 V DC motor for rotary motion and rollers (2 motorized rollers per conveyor line)
Temperature range: from +2°C to +40°C
Max. continuous current per motor roller: 2.5 A
Turning range: -90° to +90°
Housing material: coated steel
Roller material: PU
Max. weight of conveyed material: 35 kg
Max. throughput: 6,000 products per hour
Max. roller speed: 90 m/min

Supported control protocols:

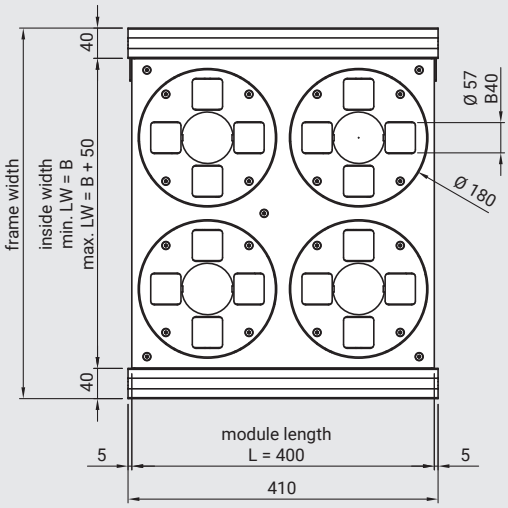
PROFINET Modbus CC-Link
EtherNet/IP EtherCAT



Single Line Diverter



Double Line Diverter



Request for Quote / Order placement

The selection of the appropriate diverter depends on the product, dimensions, weight, throughput, conveying speed and angle of ejection.
For more information, visit www.robotunits.com or contact us.

Drawings: dimensions in mm

R5L Lift Station With Powered Roller Conveyor

Side Guide for Roller Conveyor
See page 51

Supported control protocols:

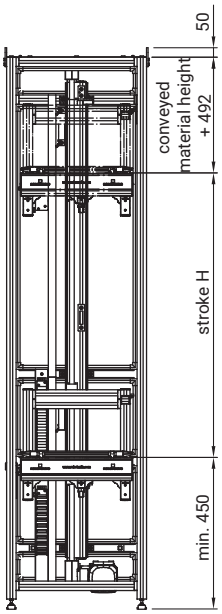
PROFINET Modbus CC-Link EtherNet/IP EtherCAT

Application
Zero pressure accumulation conveying over 2 levels of products in different sizes

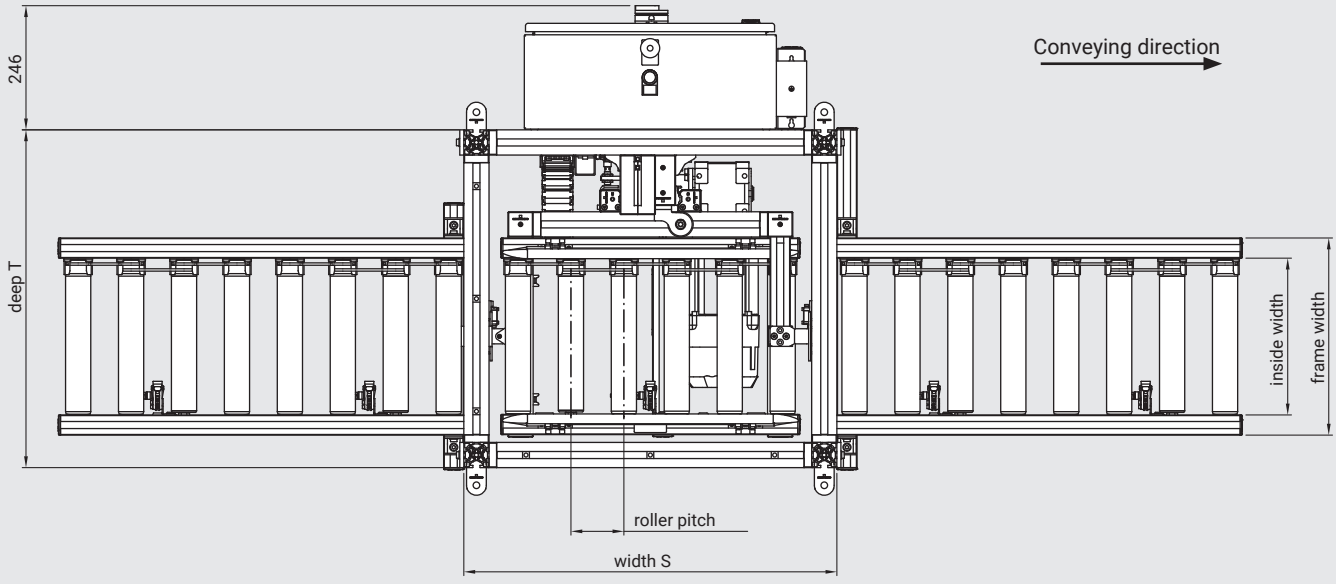
Technical data
Lift station with three-phase geared motor 400V
Speed: max. 1m/s
Acceleration max. 0.7m/s²
Roller conveyor with brushless 24V DC motor
Speed: from 10m/min to 28 m/min
Temperature range: from 2°C to 40°C
Frame material: clear anodized aluminum
Enclosure with polycarbonate panels, optionally with safety tunnel and door

Control unit:
Completely wired incl. sensors and control cabinet

Configuration:
Zero pressure accumulation control logic with upstream and downstream Powered Roller Conveyor (not with EtherCAT)



Dimensions



Standard dimensions

		Powered Roller Conveyor on Lift Station			Lift Station	
Description	Conveyed material (LxW)	Inside width	Frame width	Roller pitch	Base area (SxT)	Max. stroke h
Lift Station With Powered Roller Conveyor	400 x 300 mm	310 mm	390 mm	105 mm	740 x 670 mm	5000 mm
Lift Station With Powered Roller Conveyor	300 x 400 mm	410 mm	490 mm	80 mm	755 x 770 mm	5000 mm
Lift Station With Powered Roller Conveyor	600 x 400 mm	410 mm	490 mm	160 mm	1015 x 770 mm	5000 mm
Lift Station With Powered Roller Conveyor	400 x 600 mm	610 mm	690 mm	105 mm	740 x 970 mm	5000 mm

Special dimensions are available on request.

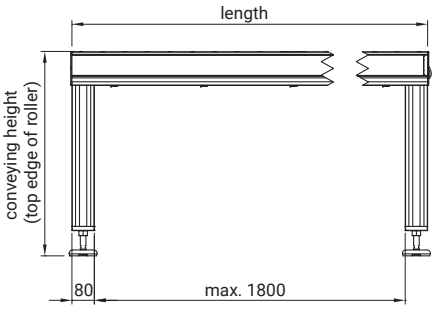
Drawings: dimensions in mm

R5F Stand for Straight Conveyor

Application
Stand for Powered Roller Conveyor Straight and Gravity Roller Conveyor Straight

Technical data
Material: clear anodized aluminum, galvanized die-cast zinc, galvanized steel, PA 6 or rubber

Scope of delivery
Stand segment fully assembled

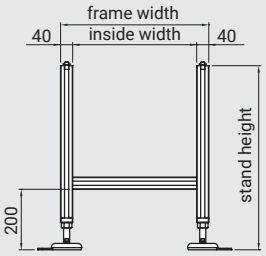


Standard conveyor stand types

S

Leveling Bases BAS1120
Height adjustment ± 30 mm

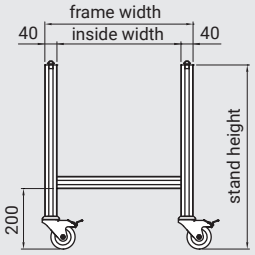
Conveying height = stand height + x:
x = 96 mm (integrated side guide)
x = 122 mm (without side guide)



R

Swivel Castors CAS3080
with brake

Conveying height = stand height + x:
x = 96 mm (integrated side guide)
x = 122 mm (without side guide)



Order code

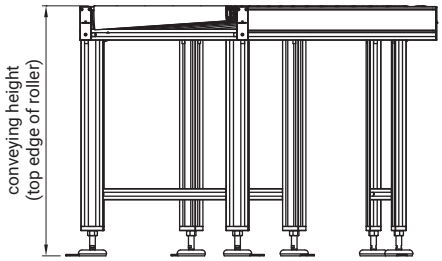
Description	Order code			
	Frame width	Type	Length	Conveying height
Stand for Straight Roller Conveyor	R5F ____	_ NN	____	____

R5K Stand for Curved Conveyor

Application
Stand for Powered Roller Conveyor Curved 45° and Curved 90°.

Technical data
Material: clear anodized aluminum, galvanized die-cast zinc, galvanized steel, PA 6 or rubber

Scope of delivery
Stand segment fully assembled

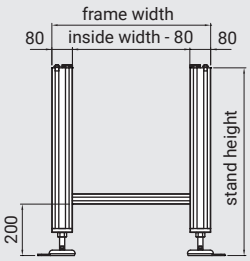


Standard conveyor stand types

S

Leveling Bases BAS1120
Height adjustment ± 30 mm

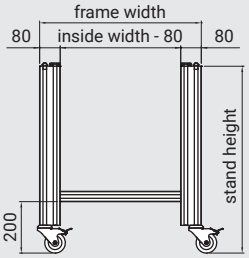
Conveying height = stand height + x:
x = 122 mm (without side guide)



R

Swivel Castors CAS3080
with brake

Conveying height = stand height + x:
x = 122 mm (without side guide)



Order code

Description	Order code			
	Frame width	Type	Curve angle	Conveying height
Stand for Curved Roller Conveyor	R5K ____	_ NN	____	____

Drawings: dimensions in mm

R5G Straight Gravity Roller Conveyor

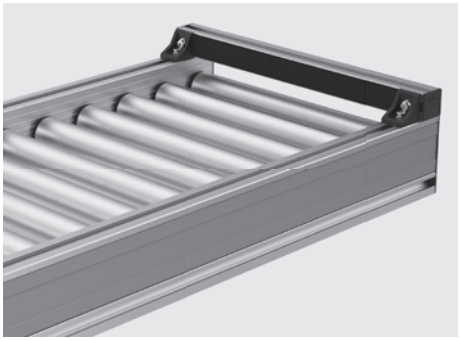
Application
Gravity-assisted conveying of products in various sizes

Technical data
Frame material: clear anodized aluminum
Roller material: galvanized steel
Temperature range: from -20°C to +80°C
Max. weight of conveyed material: 100 kg

Inside width min.: 90 mm
Inside width max.: 1210 mm

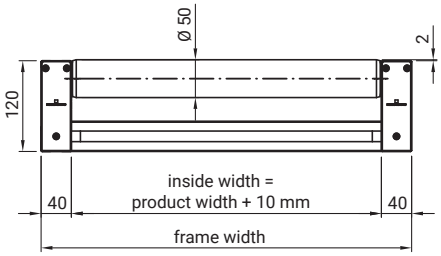
Side Guide for Roller Conveyor
See page 51

Roller options:
- Standard rollers with metal bearing (ESD)
- Low-friction rollers with plastic bearings (no ESD)

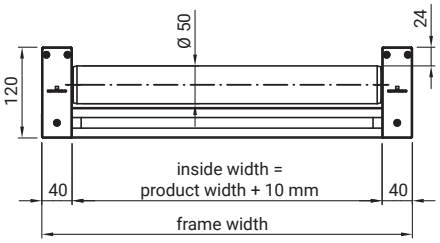


Optionally with end stop

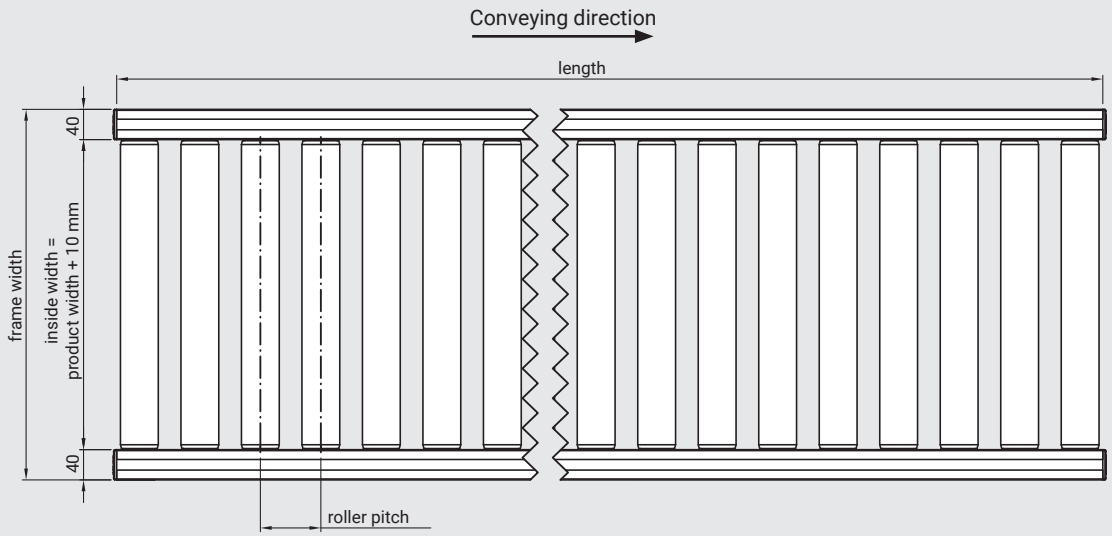
Option without side guides



Option with side guides



Dimensions



Please use our request form at www.robotunits.com.

Drawings: dimensions in mm

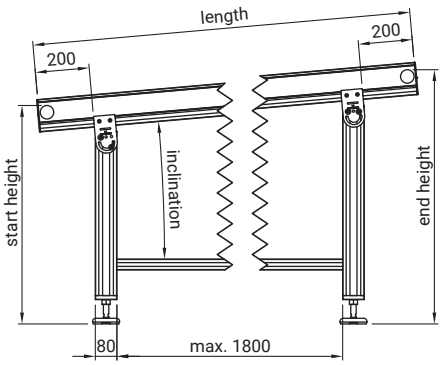
R5Z Stand for Inclined Conveyor

Application
Stand for Powered Roller Conveyor Straight and Gravity Roller Conveyor Straight

Technical data
Material: clear anodized aluminum, galvanized die-cast zinc, galvanized steel, PA 6 or rubber

Scope of delivery
Stand segment fully assembled

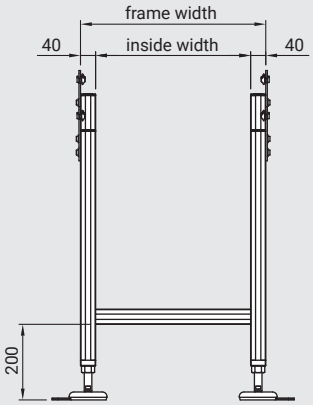
Wide conveyor stands (type H and G) offer additional stability for Powered Roller Conveyors with a stand height more than 3 times the frame width.



Standard conveyor stand types

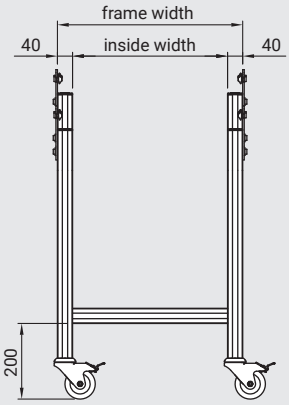
S

Leveling Bases BAS1120
Height adjustment ± 30 mm



R

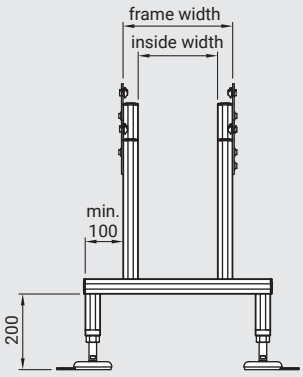
Swivel Castors CAS3080
with brake



Wide conveyor stand types

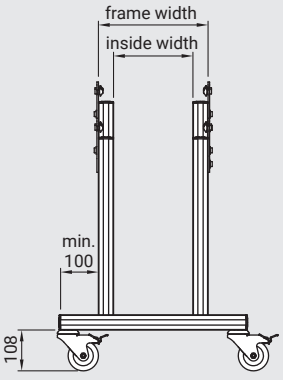
H

Leveling Bases BAS1120
Height adjustment ± 30 mm



G

Swivel Castors CAS3080
with brake



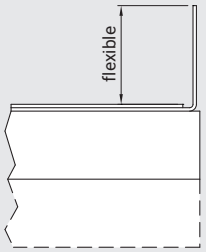
Order code

Description	Order code	Frame width	Type	Length	Start height	End height
Stand for Angled Conveyor	R5Z	_ _ _ _	_ NN	_ _ _ _	_ _ _ _	_ _ _ _

Side Guide System for Belt, Timing Belt and Modular Belt Conveyors

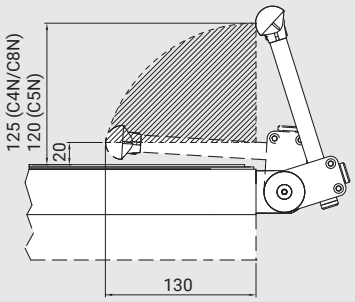
Belt Conveyor (integrated)

See catalog
page 16
(C4N)
page 18
(C5N)
page 20
(C8N)



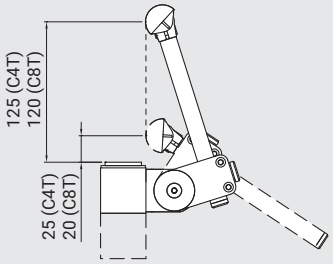
Belt Conveyors

Guide range with
standard square
tube length
150 mm
(special length
possible)

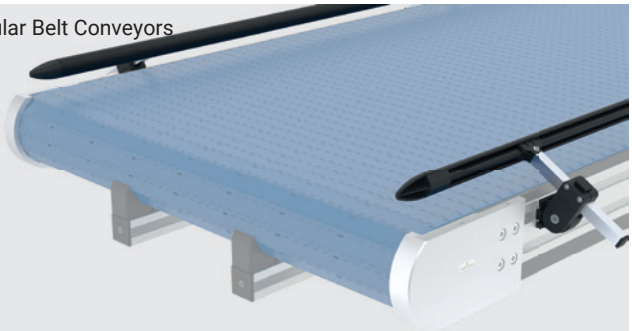


Timing Belt Conveyors

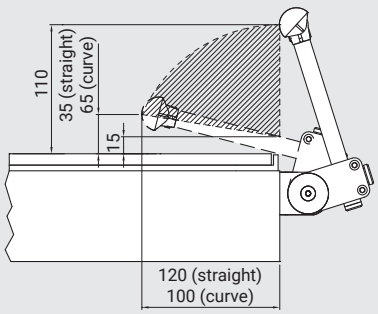
Guide range with
standard square
tube length
150 mm
(special length
possible)



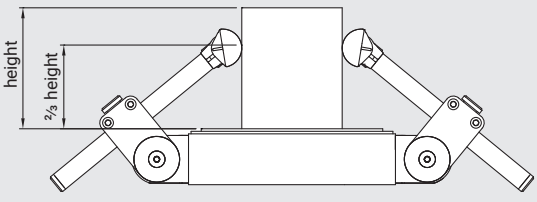
Modular Belt Conveyors



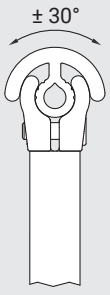
Guide range with
standard square
tube length
150 mm
(special length
possible)



Design note



Recommended height side guide

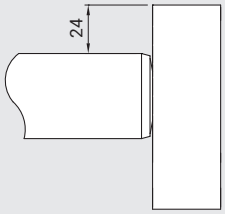


Adjustment range side guide

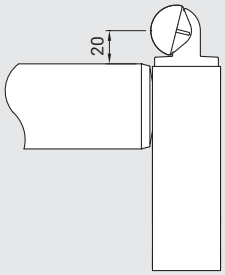
Side Guide for Roller Conveyor

Integrated (only with Powered Roller Conveyor Straight)

See catalog page 38

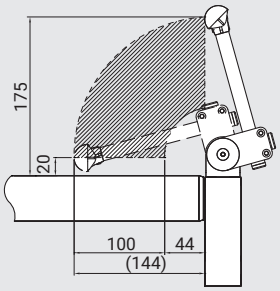


Rigid



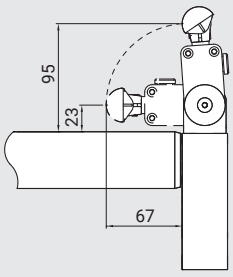
Flexible, with overhang

Guide range with standard square tube length 150 mm (special length possible)

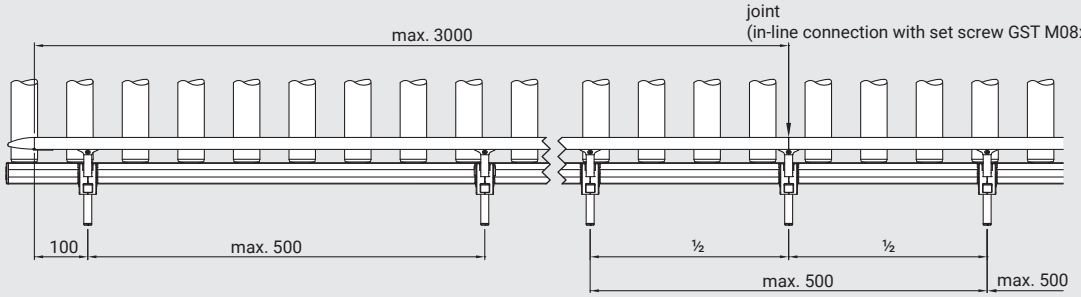


Flexible, without overhang

Guide range with minimum square tube length 30 mm (other lengths possible)



Assembly instructions



Distribute spacing of side guide bases or clips evenly.
IMPORTANT: Do not exceed maximum distances!

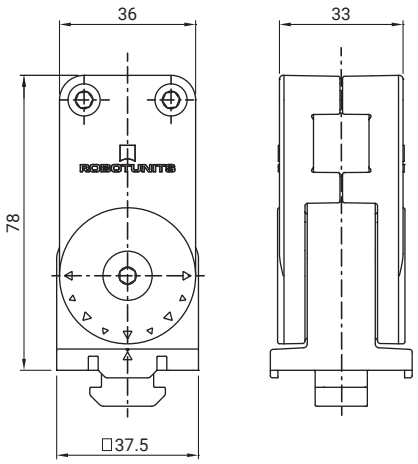
COP4561 Side Guide Base

Application
For individual positioning of side guides

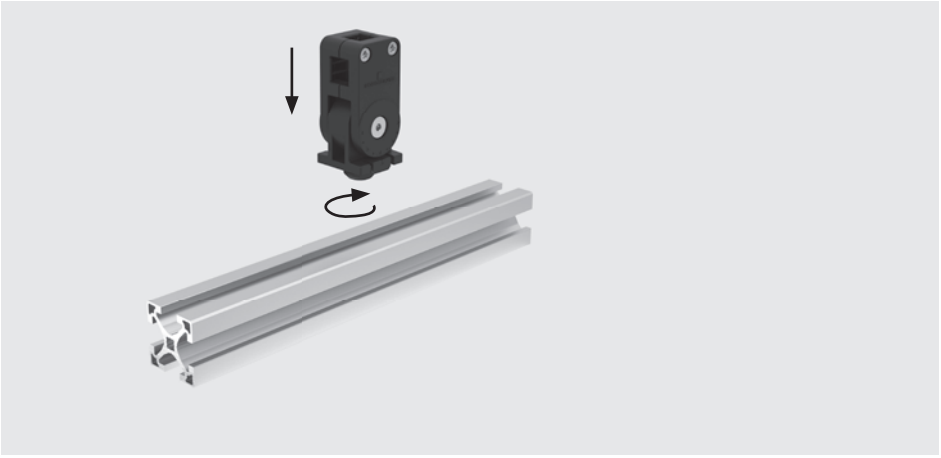
Technical data
Material:
Base Part: PA6 black
Brackets: PA6 GF30 black
End Cap: 18x18 PE-LLD
Fastening material: galvanized steel

Scope of delivery
1 Side Guide Base Part
1 Side Guide bracket nut
1 Side Guide bracket screw
2 cap screws ISO 4762 M5x25
2 hexagon nuts ISO 4032 M5
1 cap screw, extra low head M8x30
1 lock washer 8.4x13x0.8
1 hexagon nut ISO 4032 M8
1 CAP1818 End Cap
2 shim washers 8x14x0.5 DIN988

Tightening torque
Cap screws ISO 4762 M5x25: 6 Nm
Cap screw, extra low head M8x30: 10 Nm



Assembly instructions



Order code

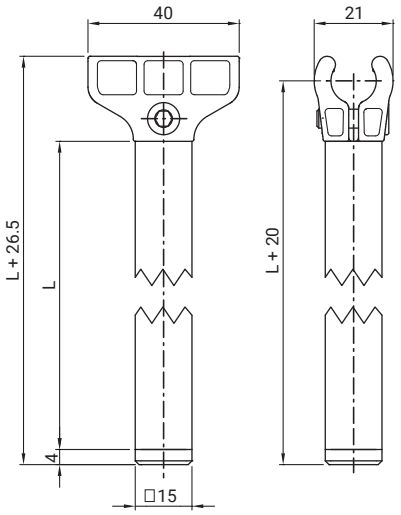
Order code	Item	Description	Weight
COP4561	Side Guide Base	length 6050 mm	0.095 kg

CO_900_ Side Guide Clamp with Rod

Application
For individual positioning of side guides

Technical data
Material:
Clamping part: PA6.6 black
End Cap: 15x15 PE-LLD
Square tube: aluminum EN AW-6060-T66
Fastening material: galvanized steel

Scope of delivery
1 Side Guide Clamping Part
1 cap screw ISO 4762 M5x14
1 hexagon nut ISO 4032 M5
1 CAP1515 End Cap
1 square tube 15x15 length 150 mm or cut to length

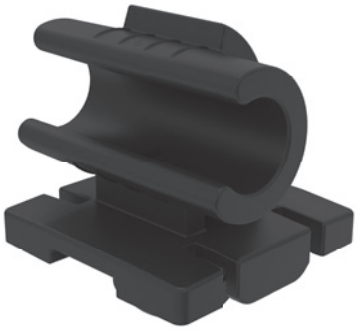


Order code

Order code	Item	Description	Weight
COL9000SNN	Side Guide Clamp with Rod	cut to length	
COP9001	Side Guide Clamp with Rod	length 150 mm	0.045 kg

1) Please complete the order code by adding the desired length.
Drawings: dimensions in mm

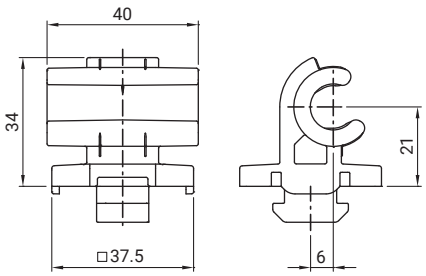
COP4570 Side Guide Clip



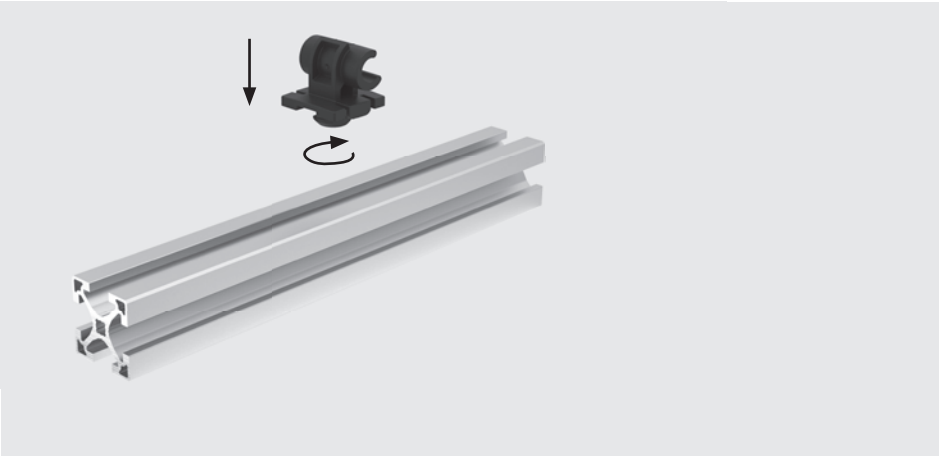
Application
To accomodate side guides

Technical data
Material:
Black PA6

Scope of delivery
10 Side Guide Clips



Assembly instructions



Order code

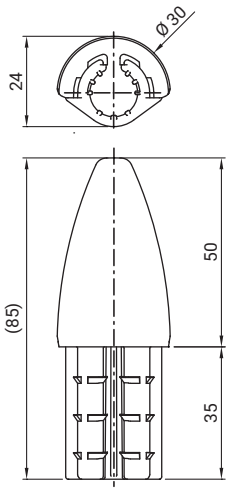
Order code	Item	Description	Weight/Piece
COP4570	Side Guide Clip	Pack of 10 pcs.	0.020 kg

COP4590 Side Guide End Piece

Application
To cover the ends of side guides

Technical data
Material:
Black PP ESD

Scope of delivery
4 Side Guide End Pieces



Order code

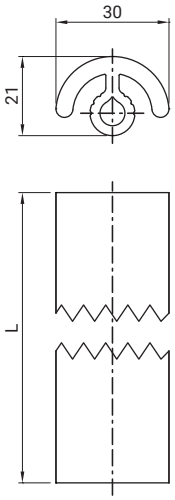
Order code	Item	Description	Weight/Piece
COP4590	Side Guide End Piece	Pack of 4 pcs.	0.010 kg

COL4590 Side Guide Plastic

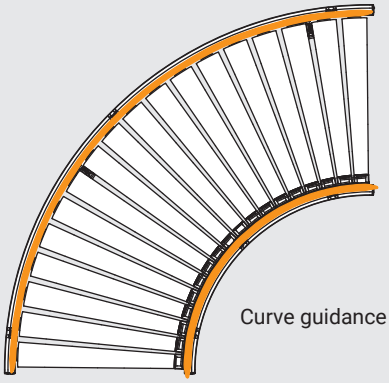
Applications
Plastic profile for the production of side guides

Technical data
Material:
PVC-U black

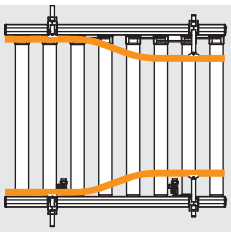
Plastic profile is thermoformable by using a heat gun (softening point 80°C)



Application



Curve guidance



Channeling

Order code

Order code	Item	Description	Weight/Meter
COL4590SNN	Side Guide Plastic, cut to length		0.340 kg
COL4590NNN	Side Guide Plastic, stock length	length 3000 mm	0.340 kg

Drawings: dimensions in mm