



# 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

## Belt Conveyors

Page 10



P. 12



P. 14



P. 16



P. 18



P. 19

## Modular Belt Conveyors

Page 20



P. 22



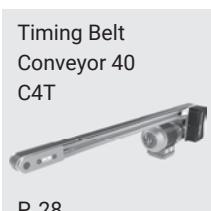
P. 24



P. 19

## Timing Belt Conveyors

Page 26



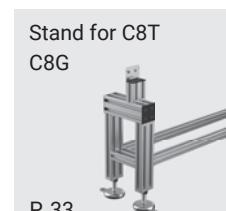
P. 28



P. 30



P. 32



P. 33

# Just-In-Time Conveyor Technology

## Powered Roller Conveyors

Page 34



Straight Powered  
Roller Conveyor  
R5S



P. 38

Aligning Powered  
Roller Conveyor  
R5A



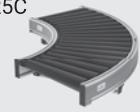
P. 39

Powered Roller  
Conveyor Merge  
R5M



P. 40

Curved Powered  
Roller Conveyor  
R5C



P. 41

Transfer Unit 90°, 50  
R5T0050



P. 42

Transfer Unit 90°, 100  
R5T0100



P. 43

Turntable with  
Powered Roller  
Conveyor R5R



P. 44

Diverter  
R5D



P. 45

Lift Station With  
Powered Roller  
Conveyor  
R5L



P. 46

Stand for Straight  
Roller Conveyor  
R5F



P. 47

Stand for Curved  
Roller Conveyor  
R5K



P. 47

## Roller Conveyors without drive

Page 48

Straight Gravity  
Roller Conveyor  
R5G



P. 48

Stand for Angled  
Conveyor  
R5Z



P. 49

## Side Guide

Page 51

Side Guide Base  
COP4561



P. 52

Side Guide Clamp  
with Rod  
CO\_900\_



P. 53

Side Guide Clip  
COP4570



P. 54

Side Guide End  
Piece  
COP4590



P. 54

Side Guide Plastic  
COL4590

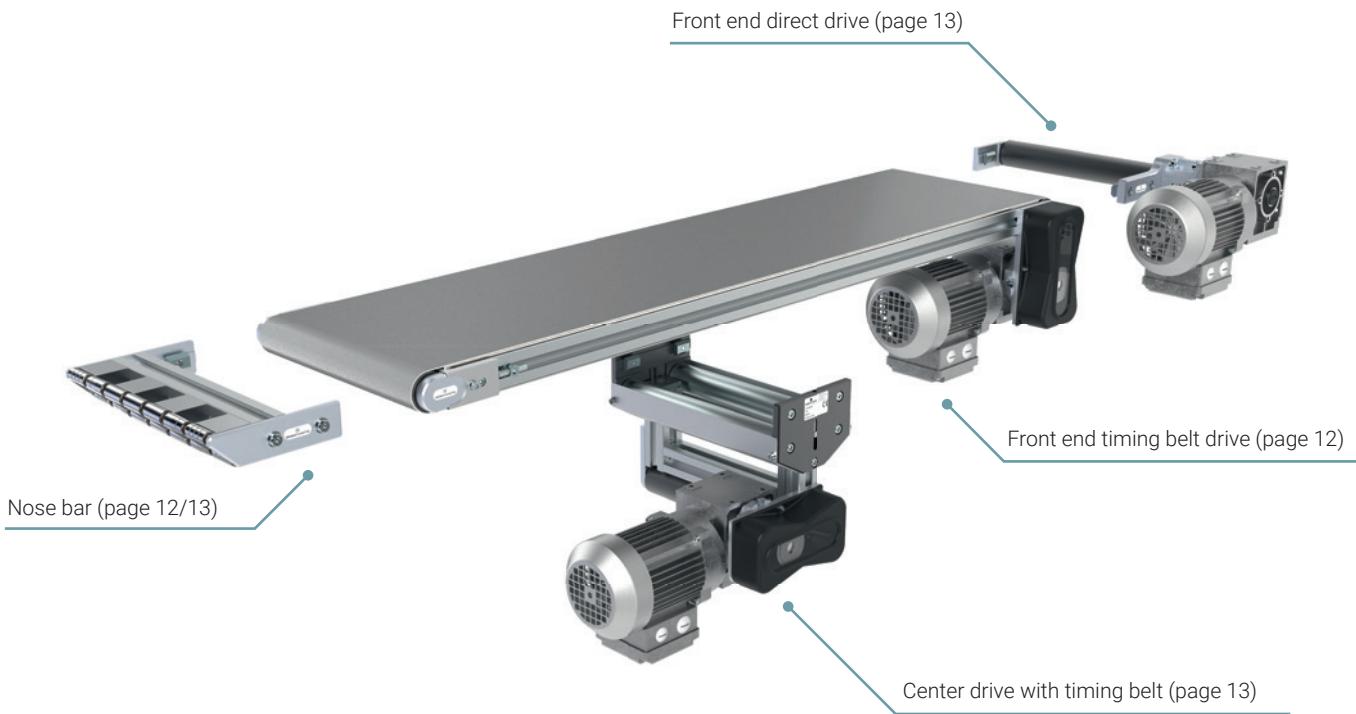


P. 55

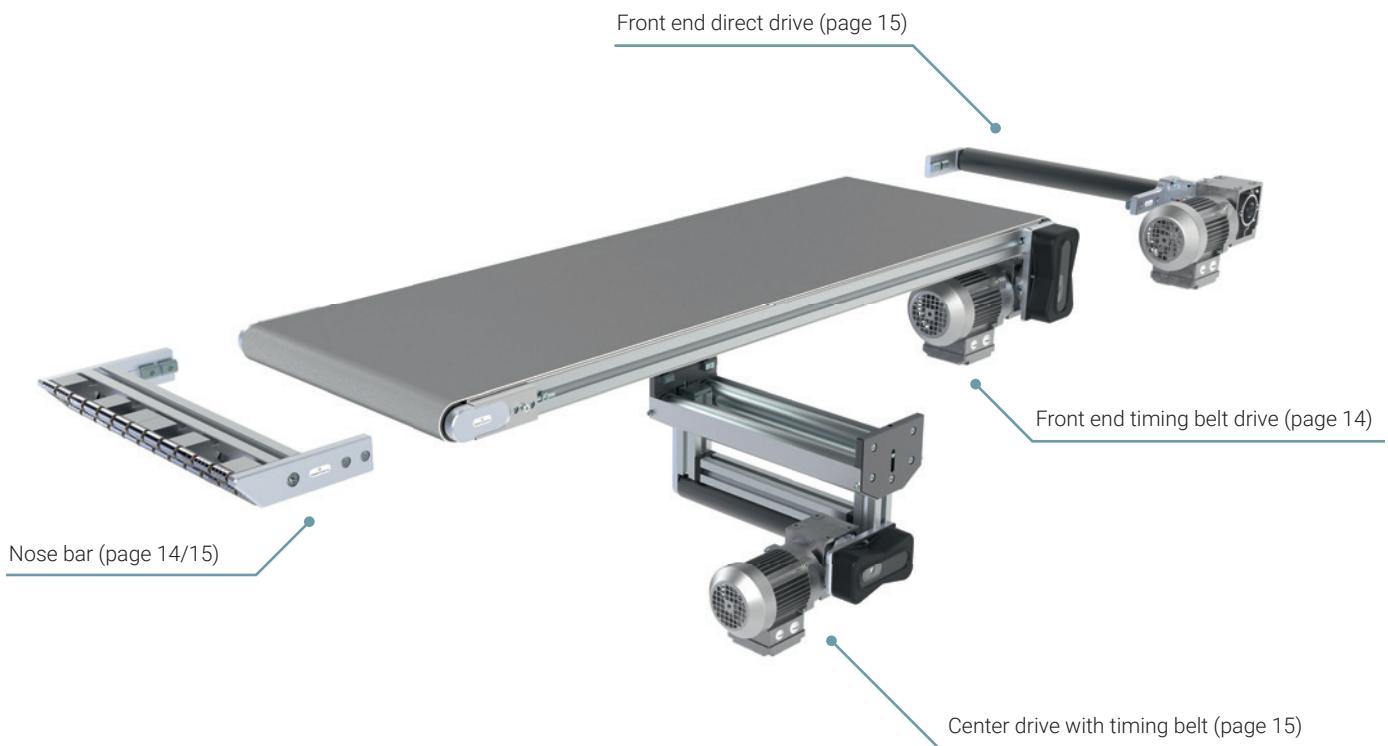
## Conveyor Technology Accessories Overview

Page 146

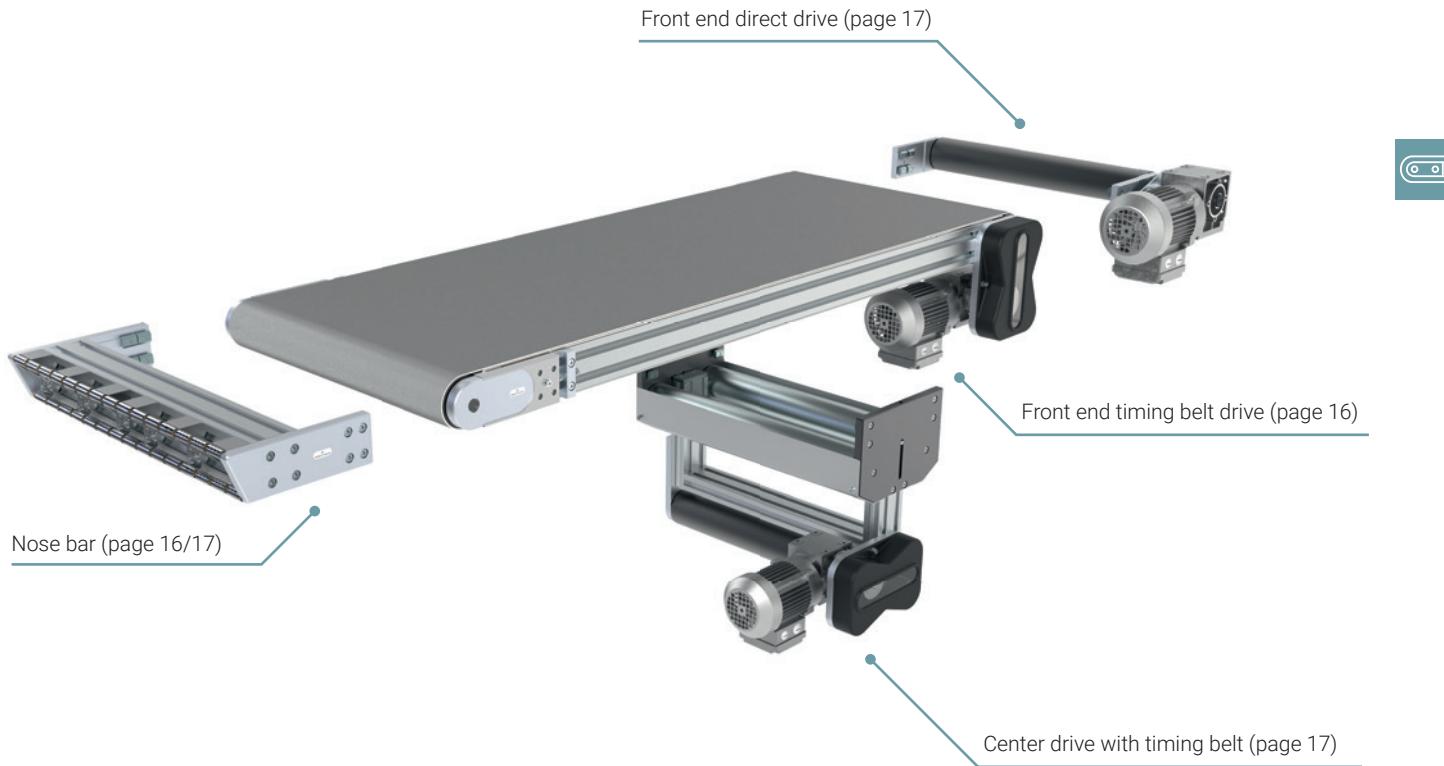
## C4N Belt Conveyor Drive Options



## C5N Belt Conveyor Drive Options



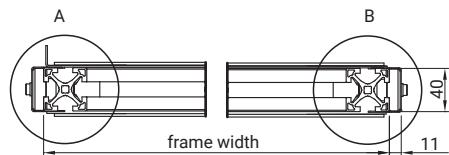
## C8N Belt Conveyor Drive Options





#### Application

Conveying tasks of all kinds

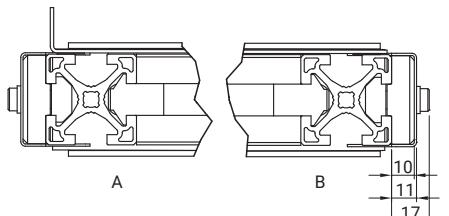


#### Technical data

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  $\leq$  120 mm  
Belt width: Frame width - 15mm  
Frame width  $>$  120 mm  
Belt width: Frame width - 20mm



Side Guide for Belt Conveyor  
See page 50

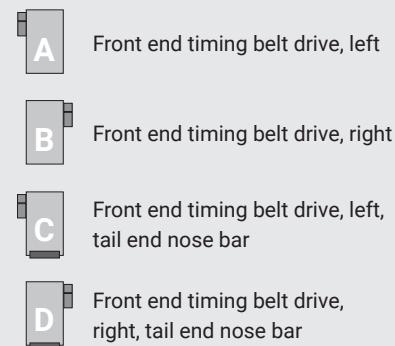


Storage and Feeder Hopper  
Conveyors on request

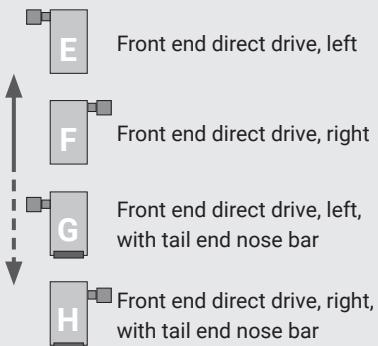


## Drive options<sup>1</sup>

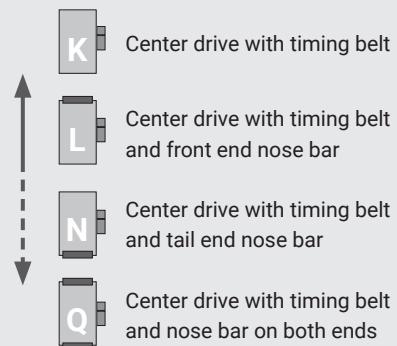
### Front end timing belt drive



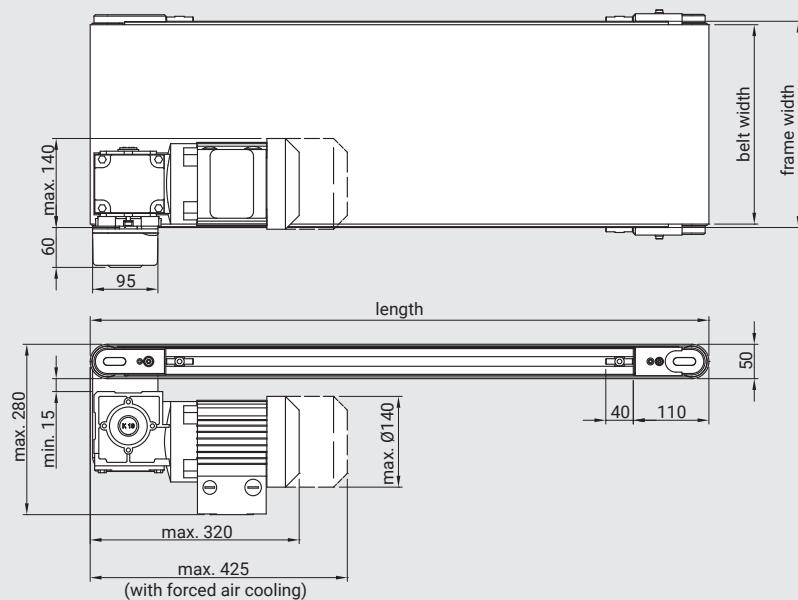
### Front end direct drive



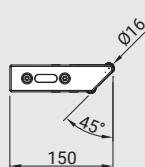
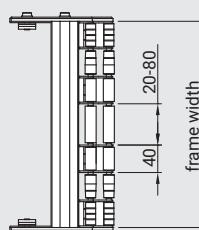
### Center drive with timing belt



## Front end timing belt drive

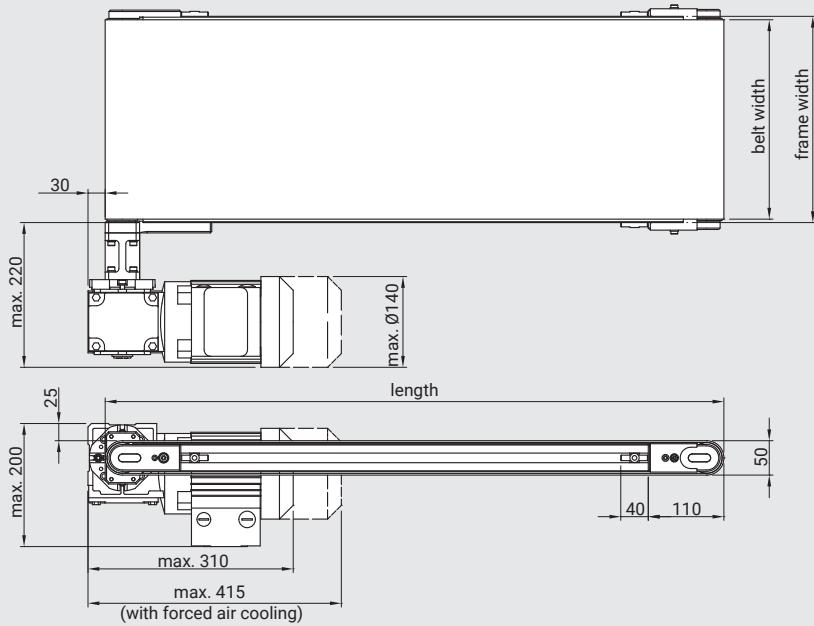


Option: nose bar

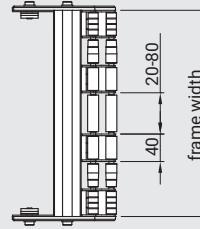


1) Standard direction is pulling. The running direction of all drives can be changed by reversing the polarity of the motor.

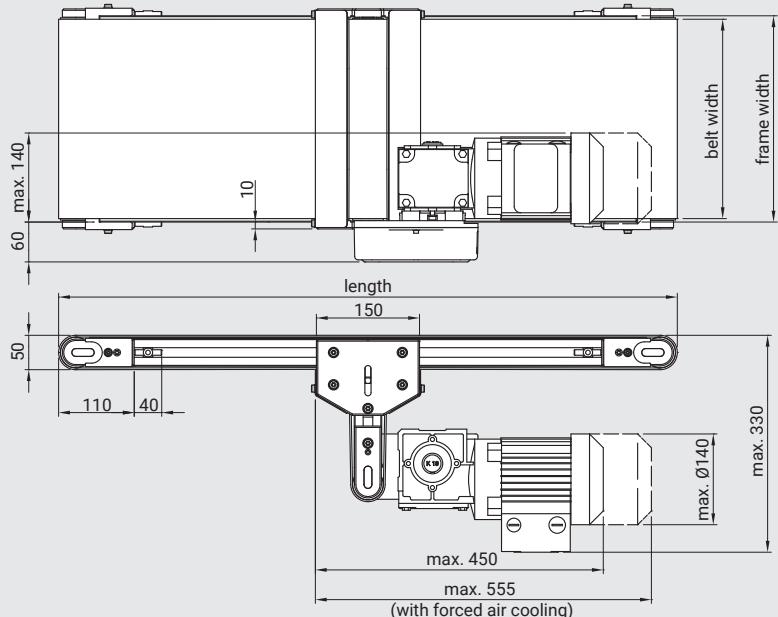
## Front end direct drive



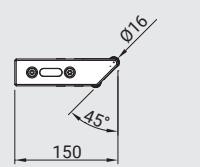
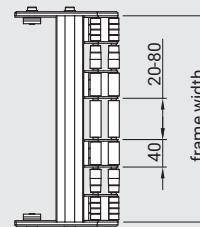
Option: nose bar



## Center drive with timing belt



Option: nose bar



## Standard widths and lengths<sup>2</sup>

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](http://www.robotunits.com)

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

C5N

## Belt Conveyor 50



Side Guide for Belt Conveyor  
See page 50

**Application**

Conveying tasks of all kinds

**Technical data**

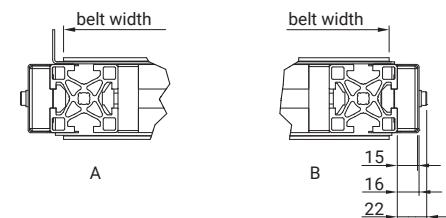
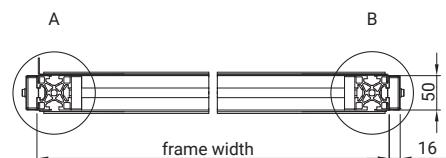
Belt speeds from 3 m/min up to 67 m/min

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

**Drive options<sup>1</sup>****Front end timing belt drive**

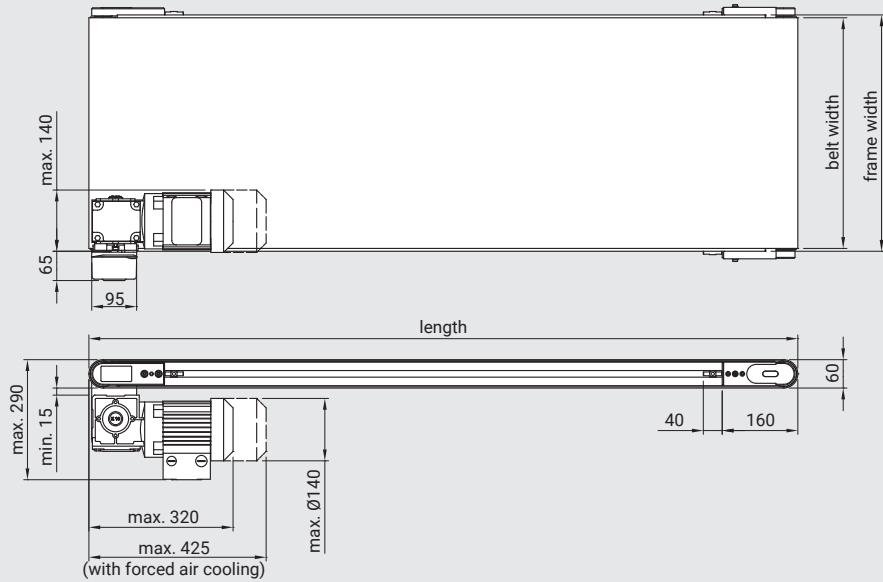
- A** Front end timing belt drive, left
- B** Front end timing belt drive, right
- C** Front end timing belt drive, left, tail end nose bar
- D** Front end timing belt drive, right, tail end nose bar

**Front end direct drive**

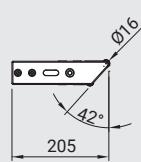
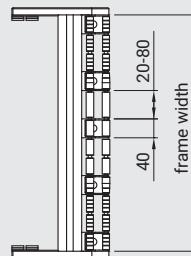
- E** Front end direct drive, left
- F** Front end direct drive, right
- G** Front end direct drive, left, with tail end nose bar
- H** Front end direct drive, right, with tail end nose bar

**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

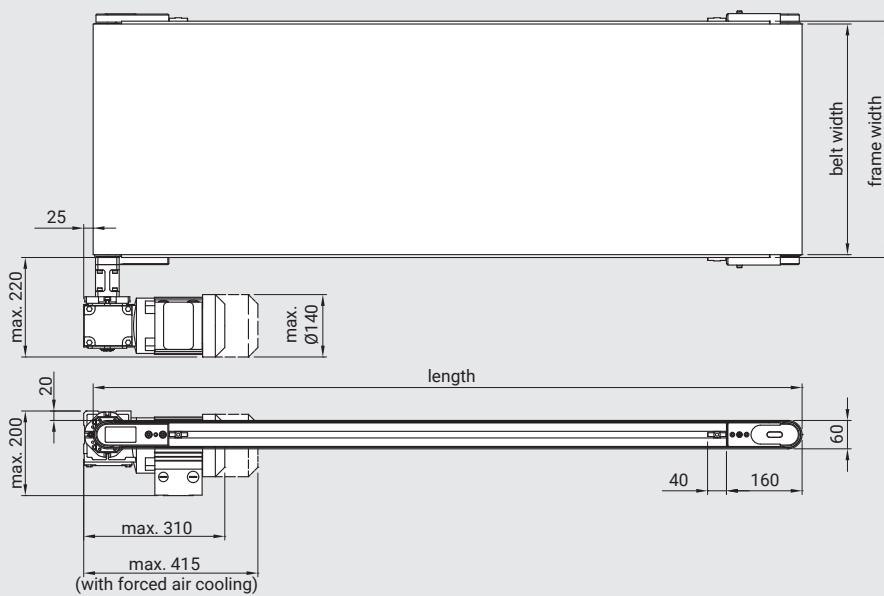
**Front end timing belt drive**

Option: nose bar

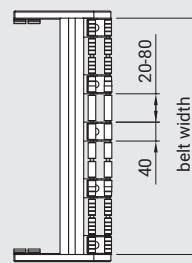


1) Standard direction is pulling. The running direction of all drives can be changed by reversing the polarity of the motor.  
Drawings: dimensions in mm

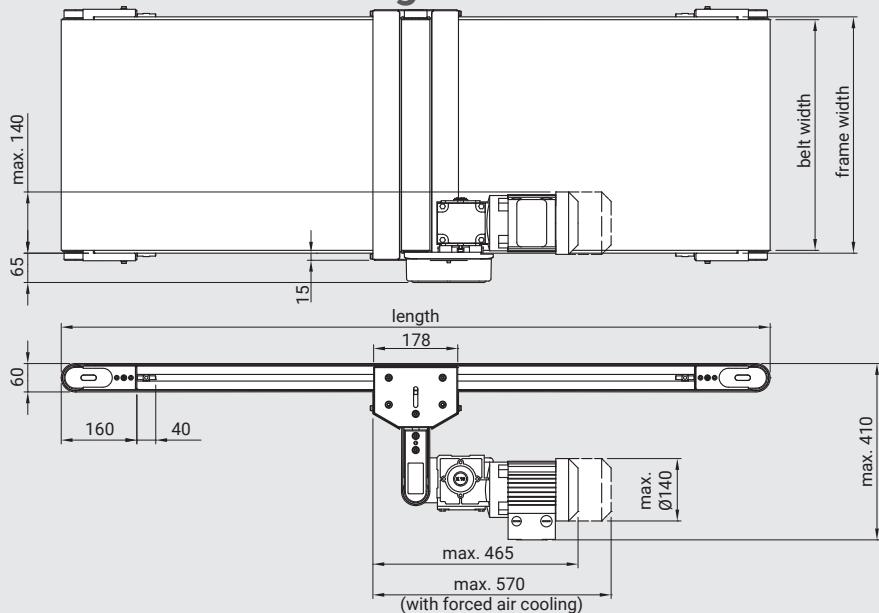
## Front end direct drive



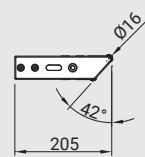
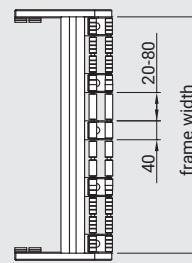
Option: nose bar



## Center drive with timing belt



Option: nose bar



## Standard widths and lengths<sup>2</sup>

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](http://www.robotunits.com)

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

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Side Guide for Belt Conveyor  
See page 50

#### Application

Conveying tasks of all kinds

#### Technical data

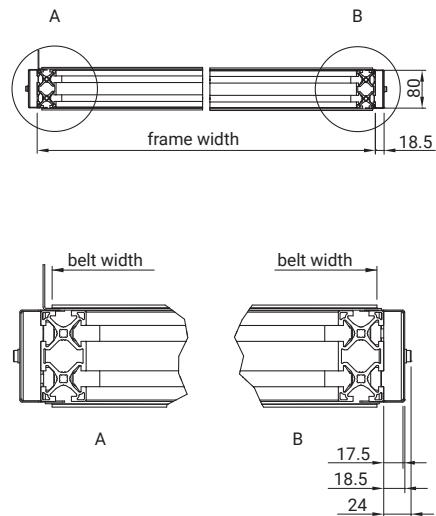
Belt speeds from 5 m/min up to 65 m/min

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

## Drive options<sup>1</sup>

### 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

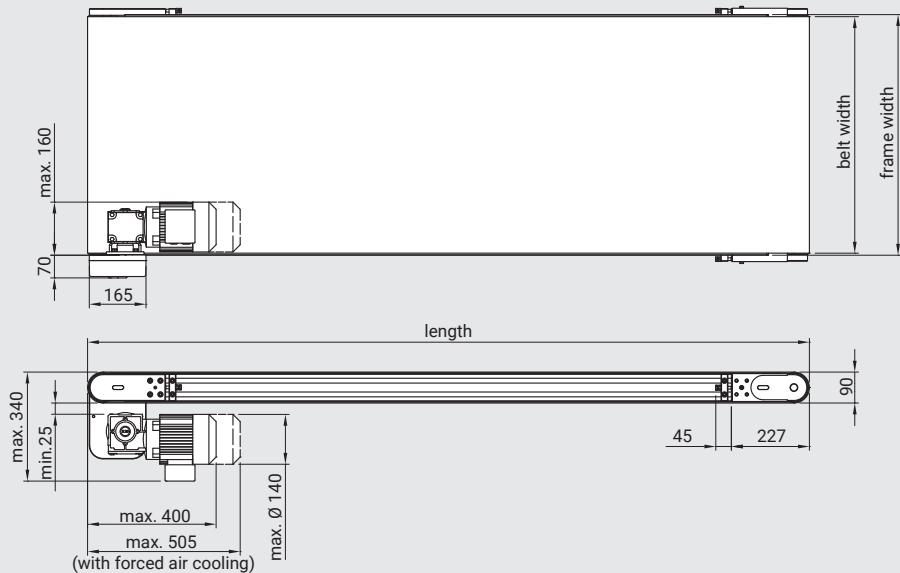
### Front end direct drive

- 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

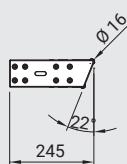
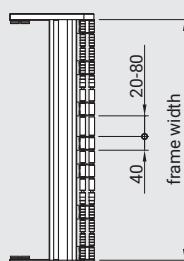
### Center drive with timing belt

- 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

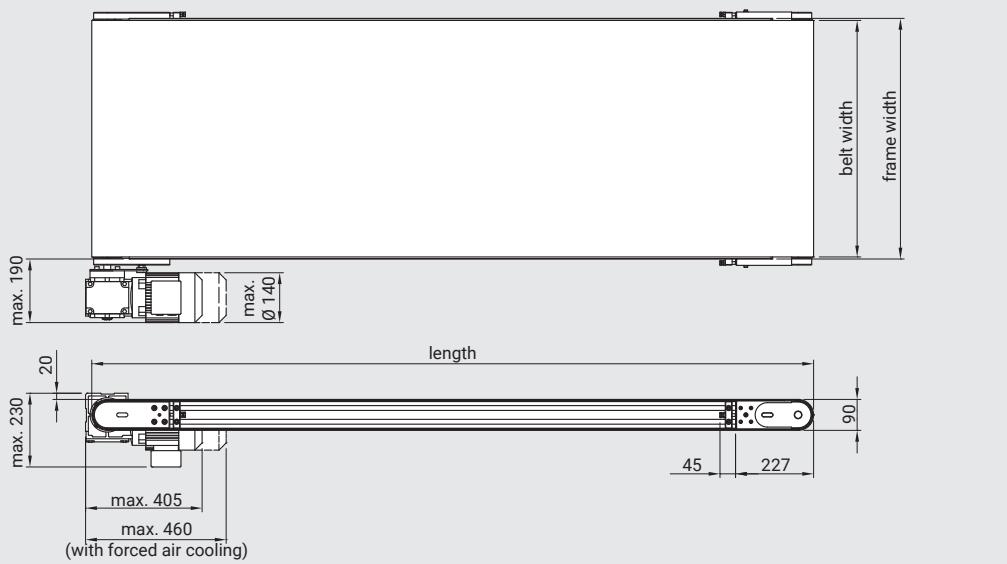


Option: nose bar



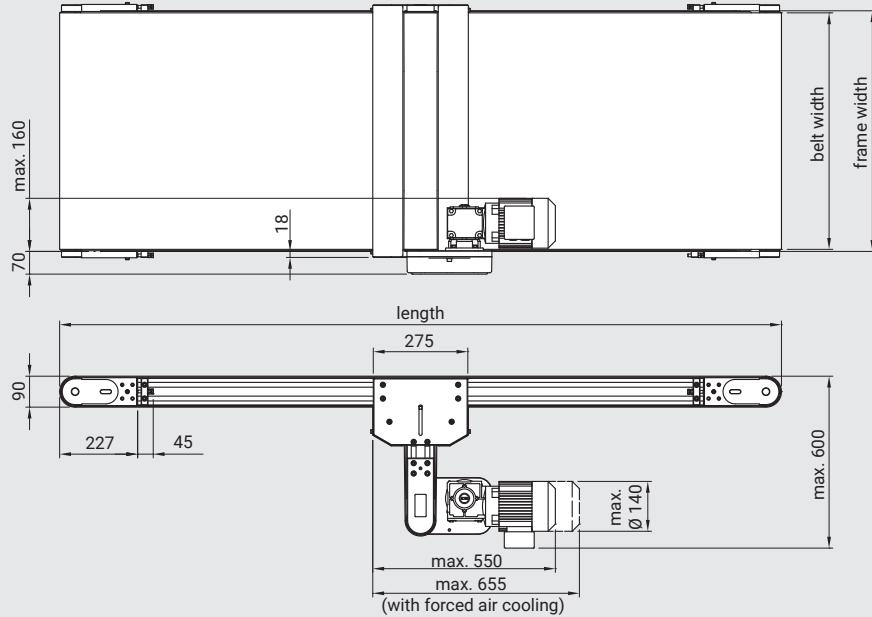
1) Standard direction is pulling. The running direction of all drives can be changed by reversing the polarity of the motor.  
Drawings: dimensions in mm

## Front end direct drive



Option: nose bar

## Center drive with timing belt



Option: nose bar

## Standard widths and lengths<sup>2</sup>

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](http://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

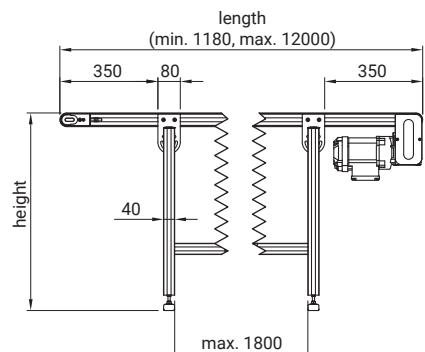
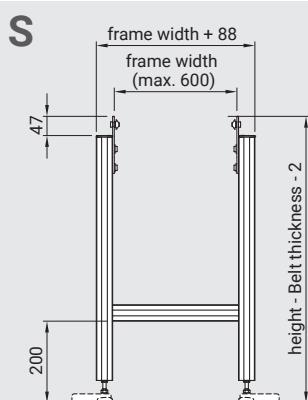
**Technical data**

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

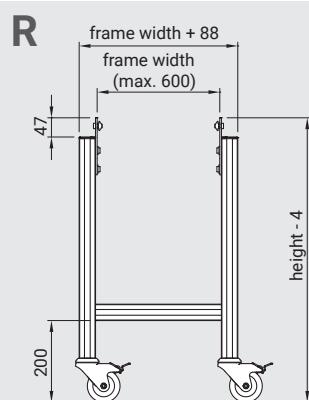
**Scope of delivery**

Stand segment fully assembled and attached to the conveyor belt

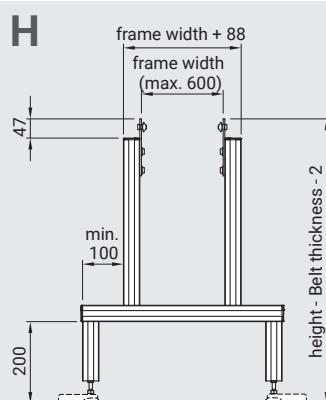
Wide conveyor stands (type H and G) offer additional stability for conveyors with a stand height more than 3 times the frame width.

**Standard conveyor stand types**

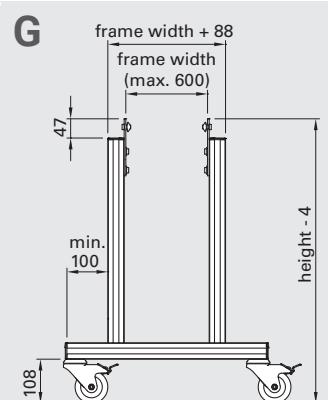
Leveling Bases BAS4008  
Height adjustment  $\pm 20$  mm



Swivel Castors with brake  
CAS3080

**Wide conveyor stand types**

Leveling Bases BAS4008  
Height adjustment  $\pm 20$  mm



Swivel Castors with brake  
CAS3080

**Order code**

Description	Order code <sup>2</sup>			
	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

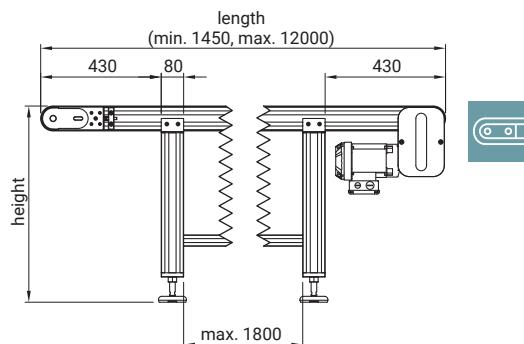
**Technical data**

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

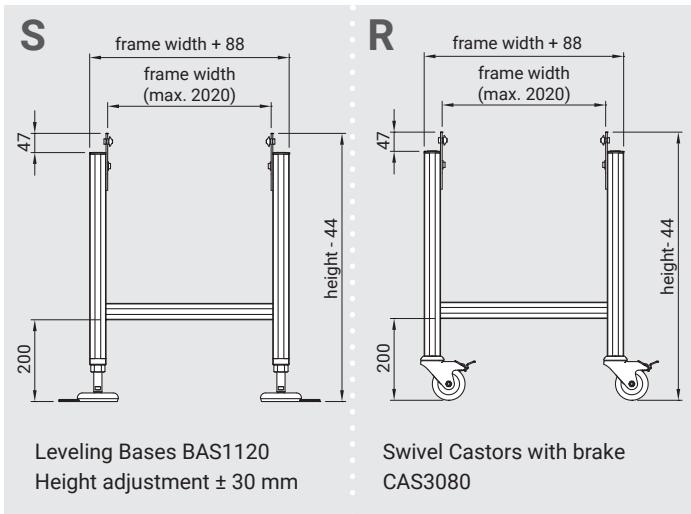
**Scope of delivery**

Stand segment fully assembled and attached to the conveyor belt

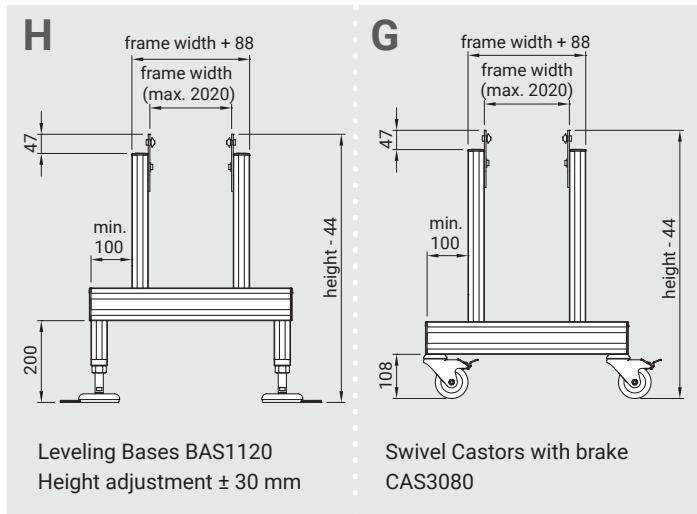
Wide conveyor stands (type H and G) offer additional stability for conveyors with a stand height more than 3 times the frame width.



## Standard conveyor stand types



## Wide conveyor stand types



## Order code

Description	Order code <sup>1</sup>			
	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

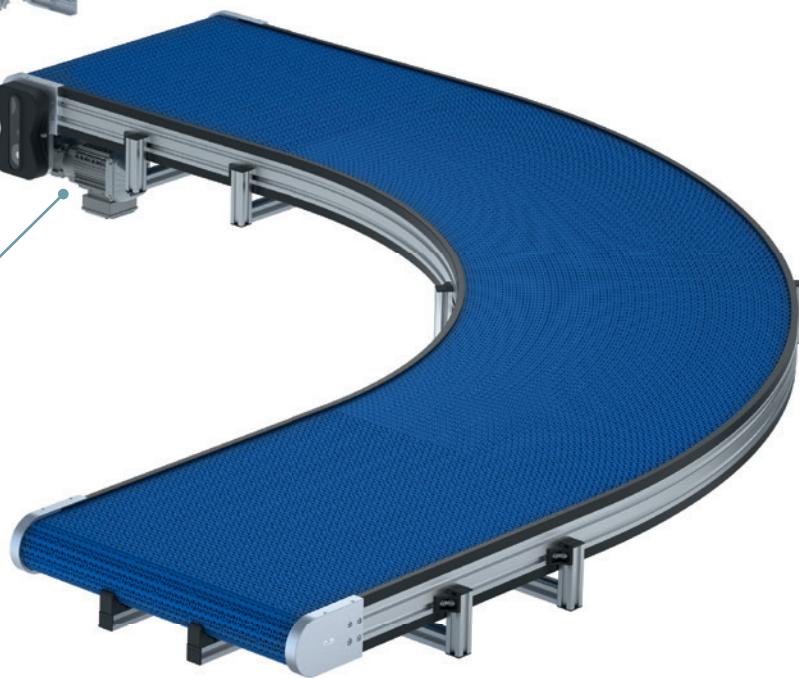


## C8MC Curved Modular Belt Conveyor Drive Options

Front end direct drive, left (page 25)



Front end timing belt drive, left (page 24)





 Side Guide for Modular Belt Conveyor  
See page 50

#### Application

Conveying tasks of all kinds

#### Technical data

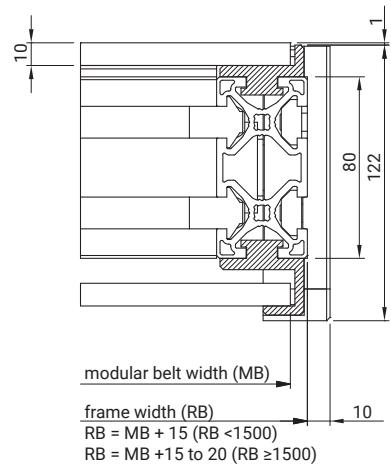
Belt speeds from 6 m/min up to 50 m/min

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<sup>1</sup>

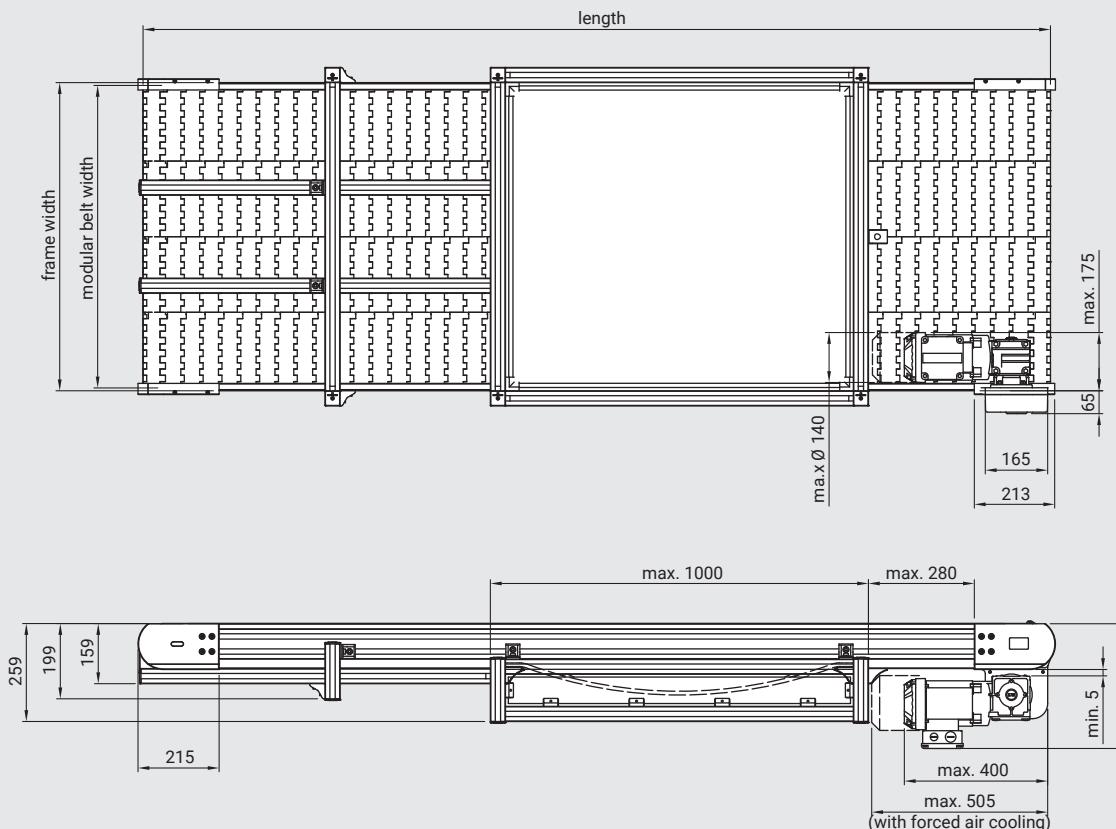
### Front end timing belt drive

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

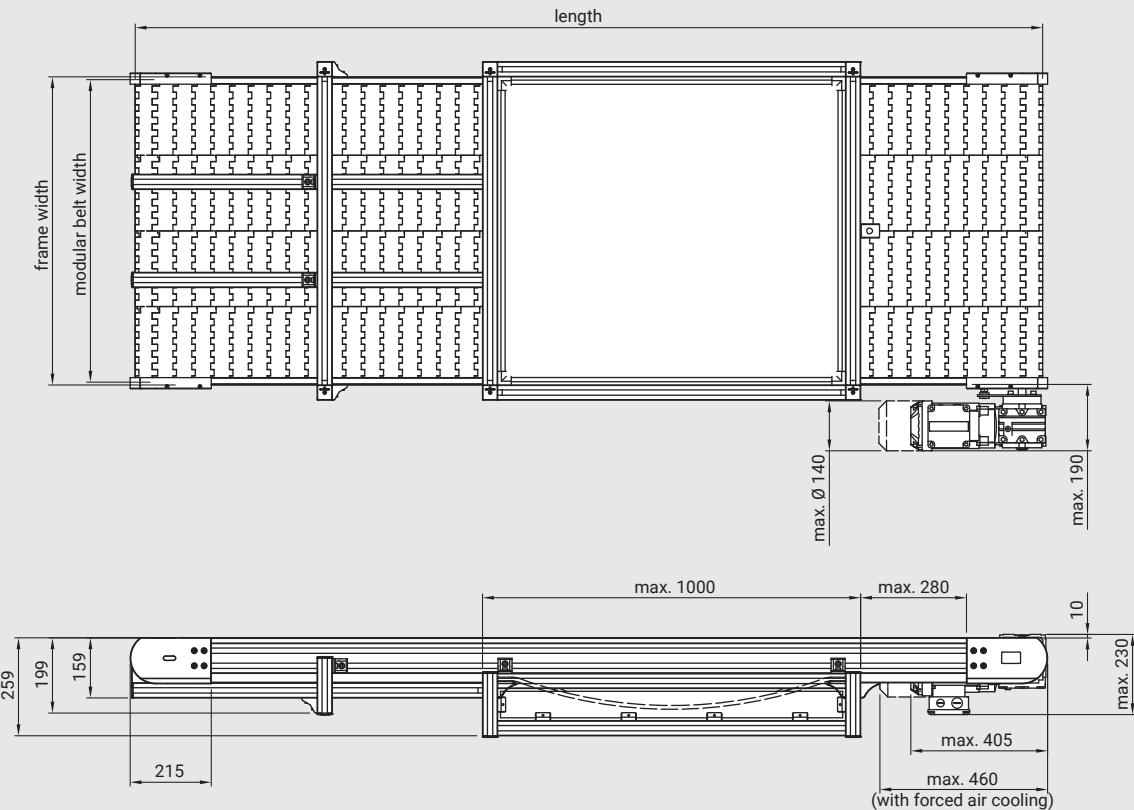
### Front end direct drive

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

## Front end timing belt drive



## Front end direct drive



## Design options<sup>2</sup>

Side view



## Length and frame width

Description	Min. length <sup>3</sup>	Max. length <sup>3</sup>	Min. frame width <sup>4</sup>	Max. frame width <sup>4</sup>
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](http://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



Side Guide for Modular Belt  
Conveyor  
See page 50

#### Application

Conveying tasks of all kinds

#### Technical data

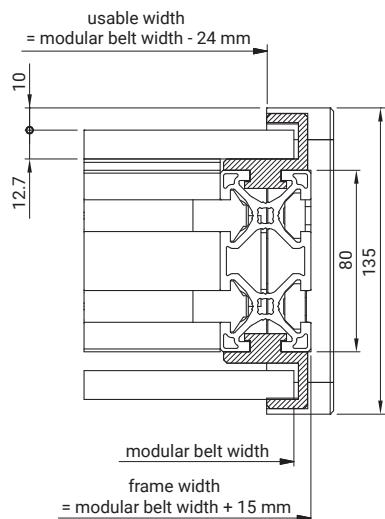
Belt speeds from 6 m/min up to 30 m/min

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

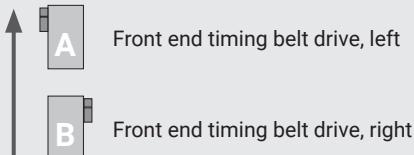


#### Modular belt design

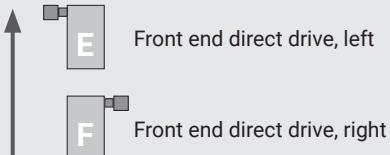
Modular belt open

## Drive options<sup>1</sup>

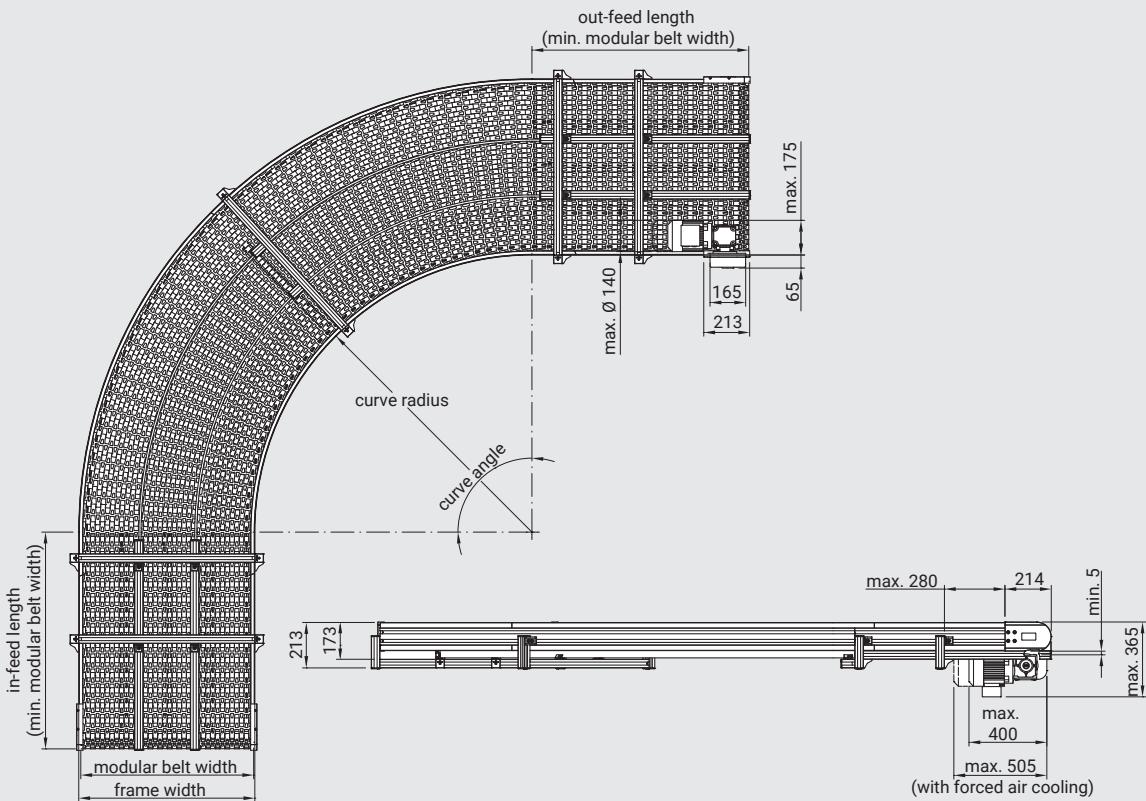
### Front end timing belt drive



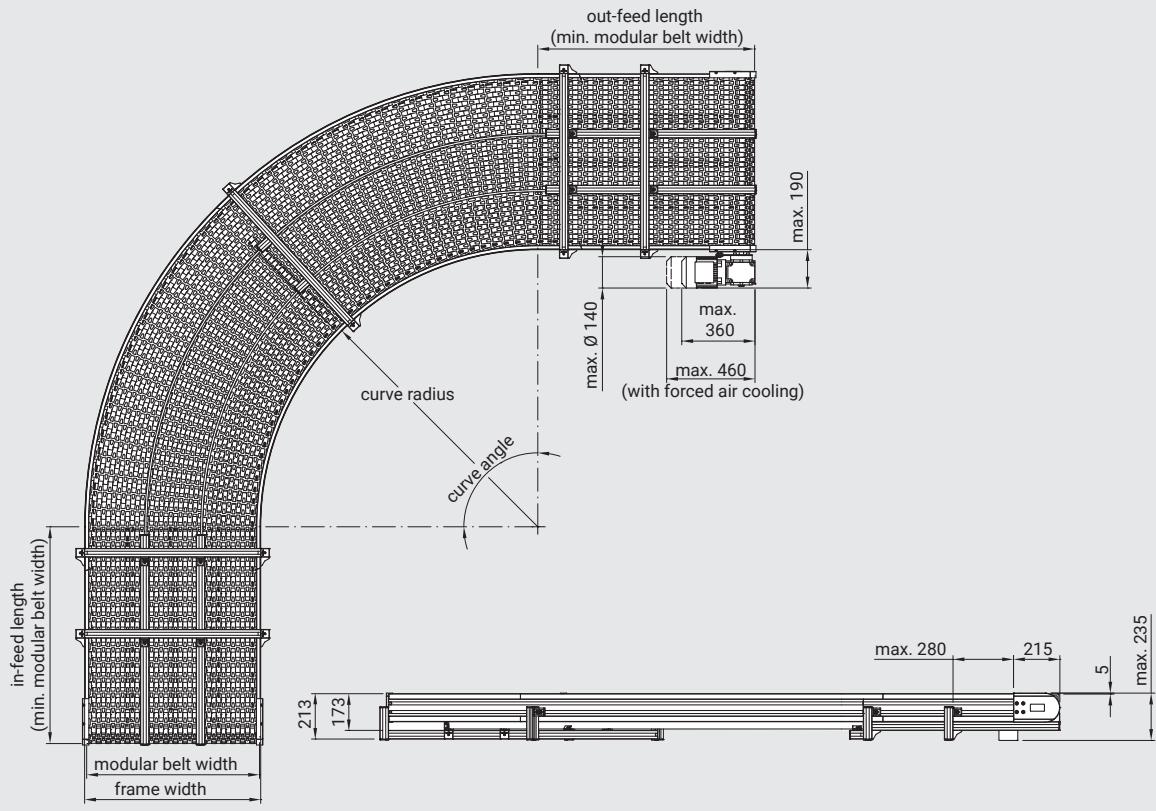
### Front end direct drive



## Front end timing belt drive



## Front end direct drive



## Design options<sup>2</sup>

Side view



Top view



## Frame width

Description	Min. frame width <sup>3</sup>	Max. frame width <sup>3</sup>
C8MC Curved conveyor front end timing belt drive	215 mm	1215 mm
C8MC Curved conveyor front end direct drive	215 mm	1215 mm

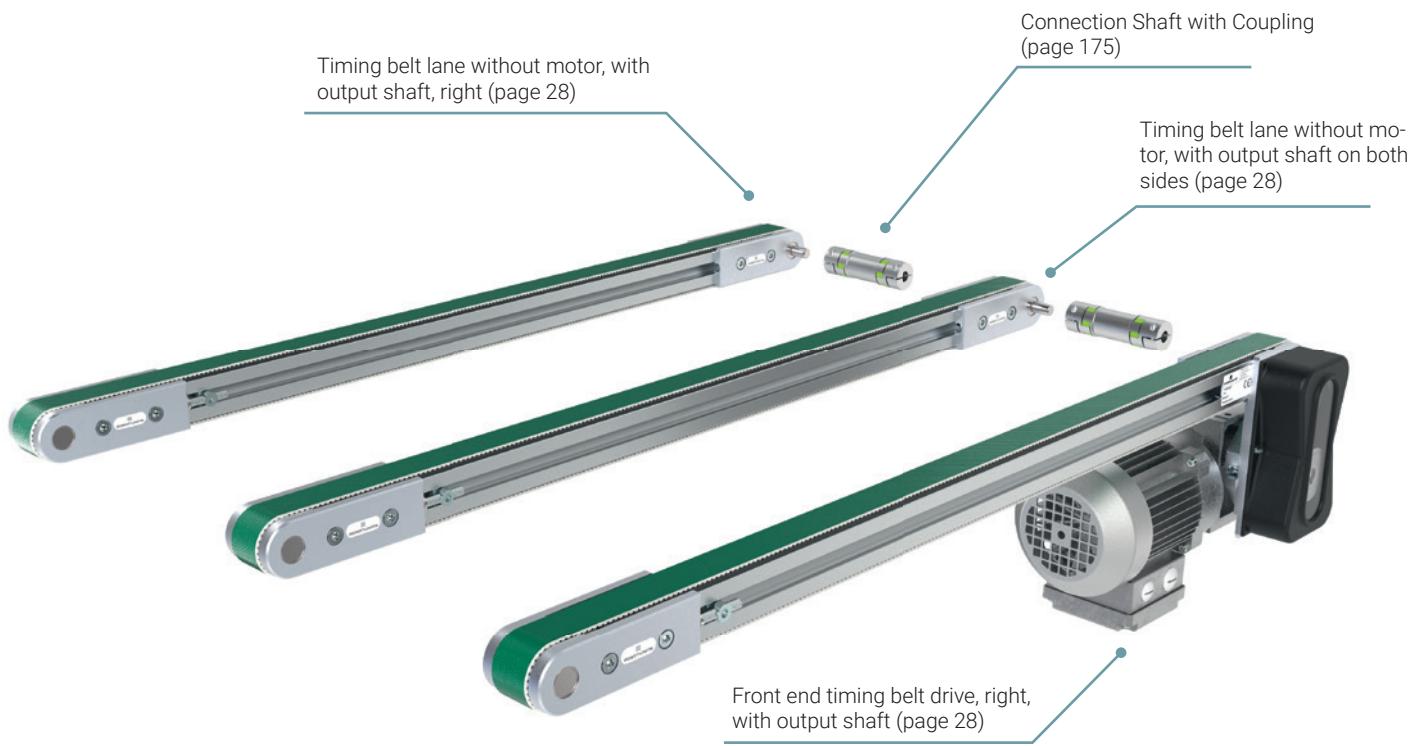
## Request for Quote / Order placement

Please use our request form at [www.robotunits.com](http://www.robotunits.com).

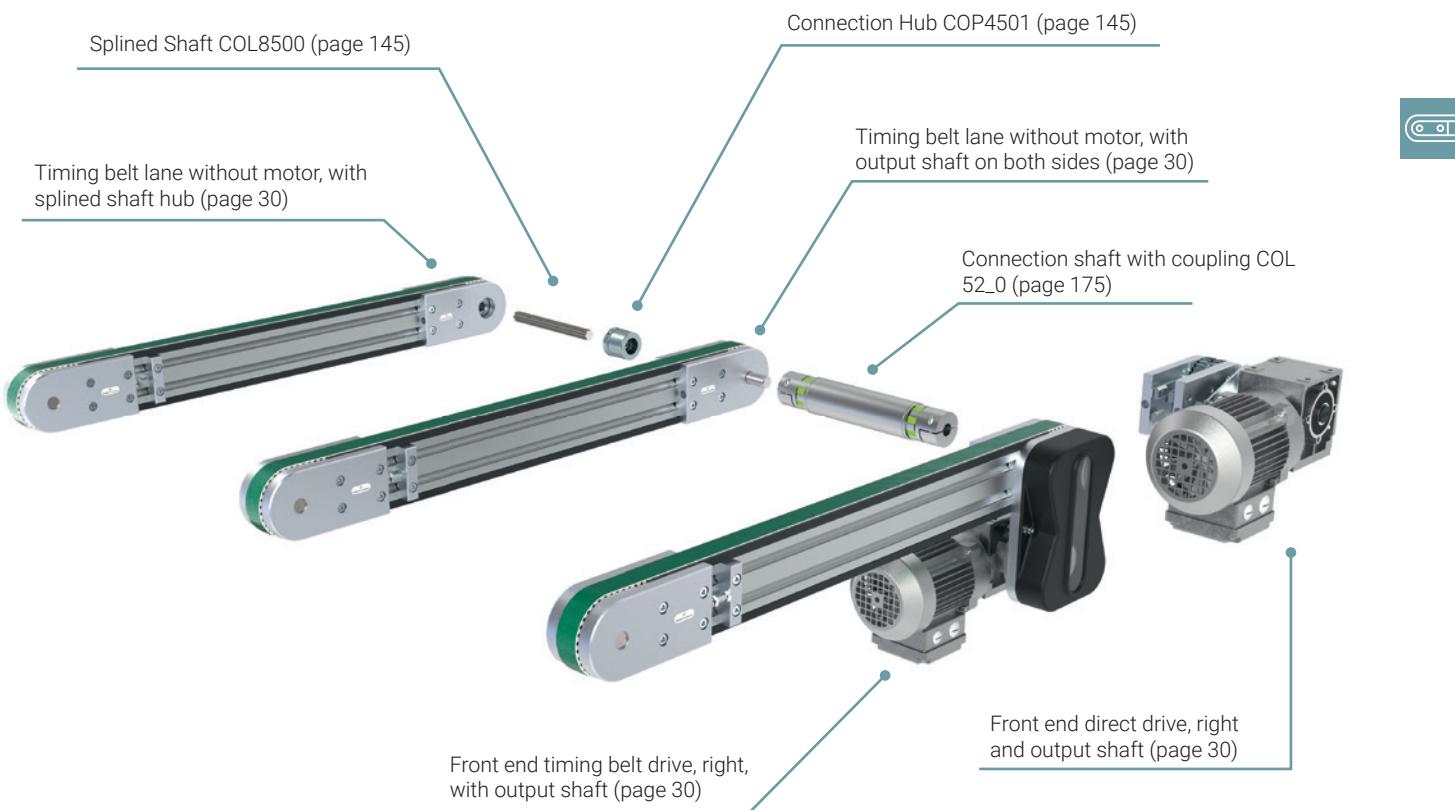
- 1) Only pulling direction is possible
- 2) Design options on request
- 3) Frame widths can be ordered ranging from min. 215 mm to max. 1215 mm in steps of 50 mm.

Drawings: dimensions in mm

## C4T Timing Belt Conveyor Drive And Connection Options



## C8T Timing Belt Conveyor Drive And Connection Options





### Application

Conveying tasks of all kinds

### Technical data

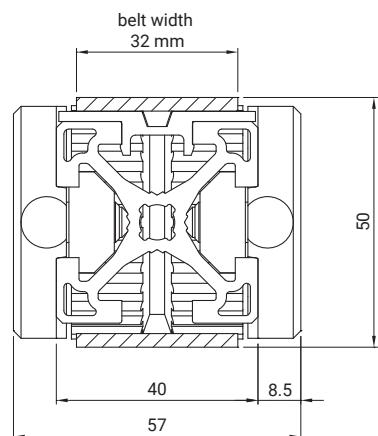
Speed: from 3 m/min to 58 m/min

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



Side Guide for Timing Belt Conveyor  
See page 50



### 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<sup>1</sup>

### 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

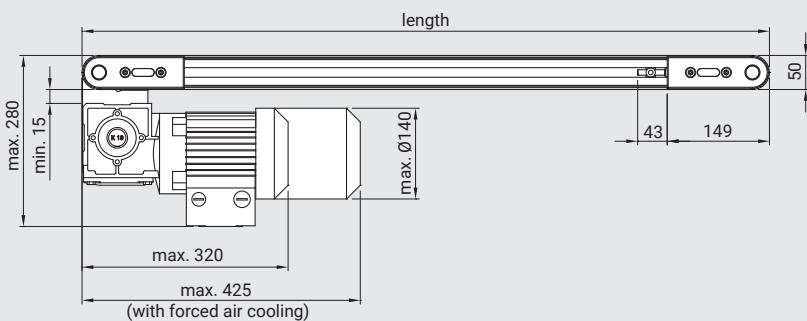
### Front end timing belt drive, double lane

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

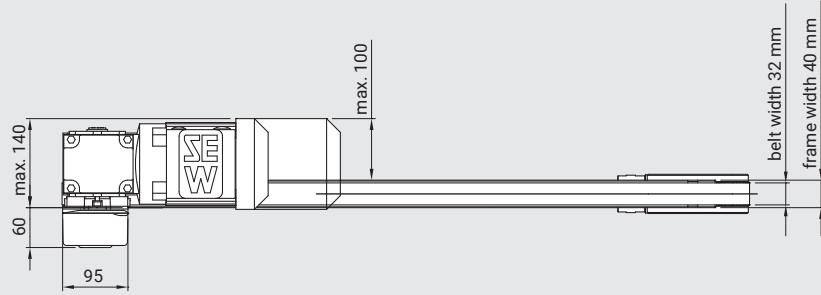
### Front end timing belt drive, triple lane

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

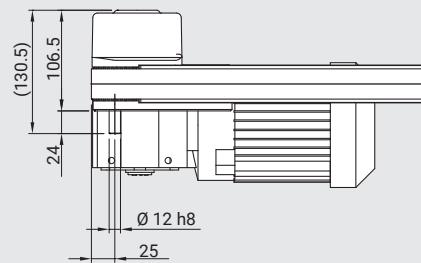
## Front end timing belt drive



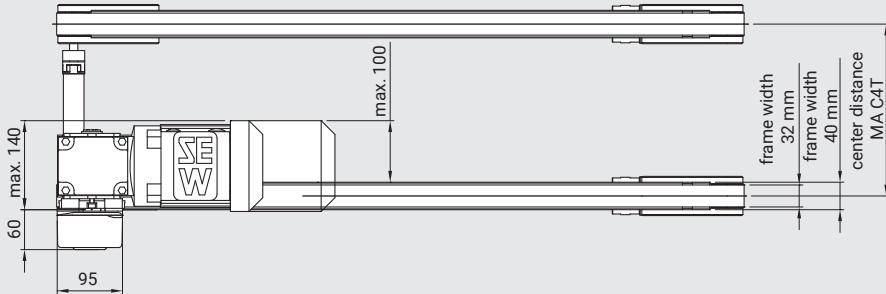
## Front end timing belt drive



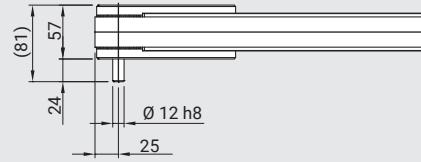
## O/P



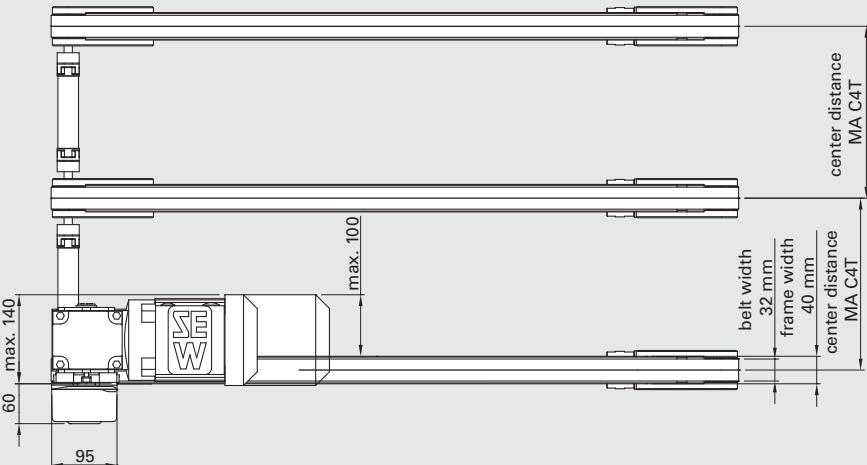
## Front end timing belt drive, double lane



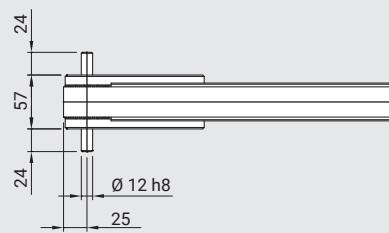
## U/V



## Front end timing belt drive, triple lane



## T



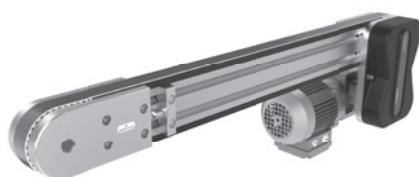
## Length and frame width

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](http://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



 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)

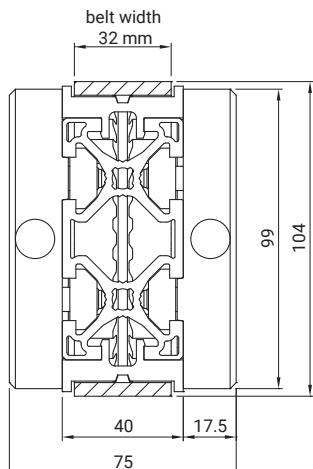
Max. total load of conveyed material: 400 kg  
Temperature range: from -20°C to +40°C

#### 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<sup>1</sup>

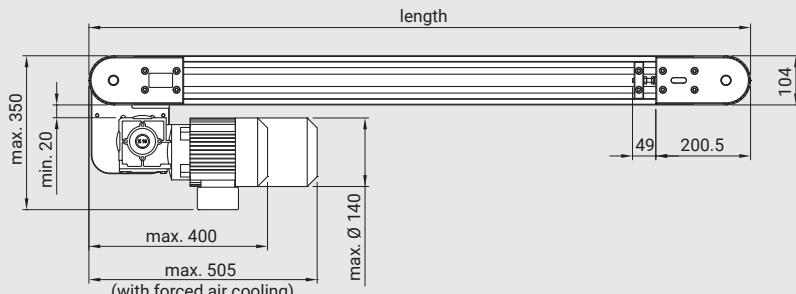
### Front End Timing Belt Drive, Fmax 4000 N

- 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

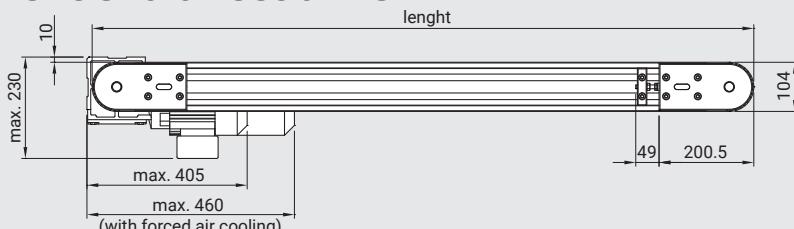
### Front End Direct Drive, Fmax 6000 N

- 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 timing belt drive



## Front end direct drive



### 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

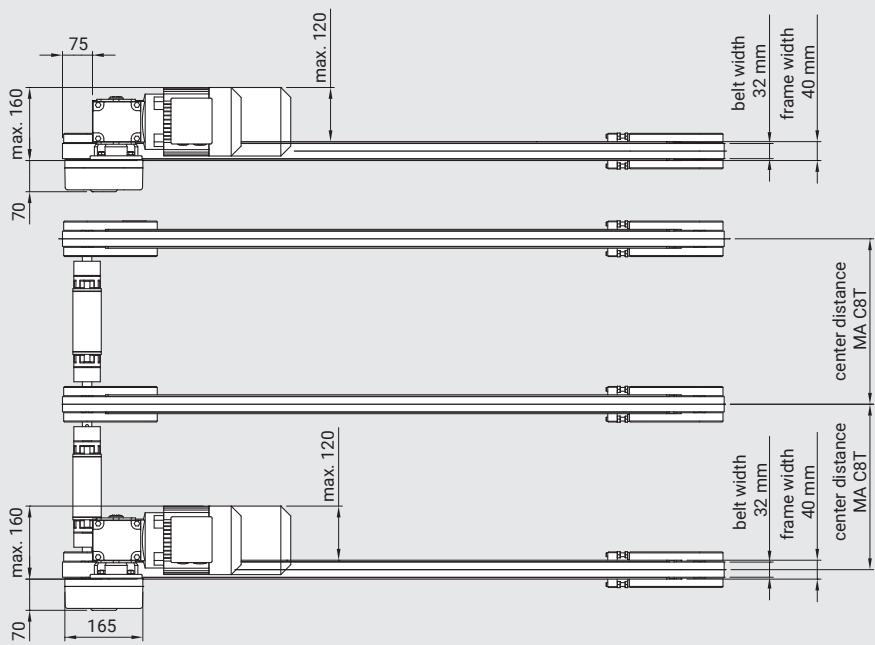
### Timing Belt Lane Without Motor, Adjustable

- 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

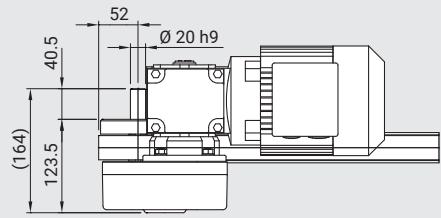
### Timing Belt Lane Without Motor

- W** Timing belt lane with splined shaft hub

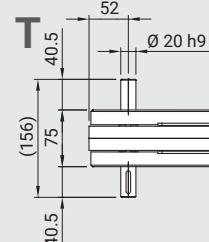
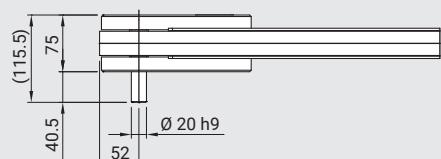
## Front end timing belt drive, double/triple lane



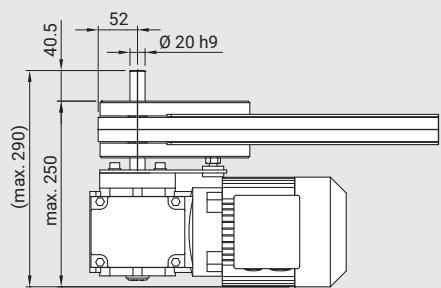
## O/P



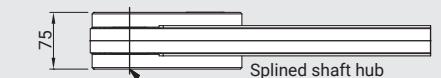
## U/V



## 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](http://www.robotunits.com)

- 1) Standard direction is pulling. The running direction of all drives can be changed by reversing the polarity of the motor.  
Distributed by Valin Corporation | [www.valin.com](http://www.valin.com) | (800) 774-5630 | [customerservice@valin.com](mailto:customerservice@valin.com)

**Application**

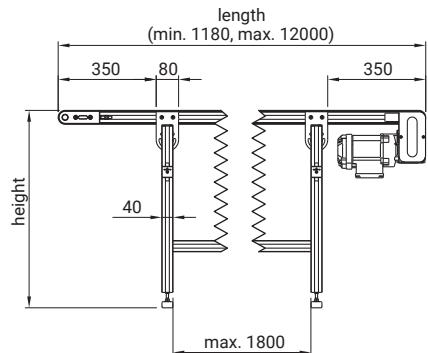
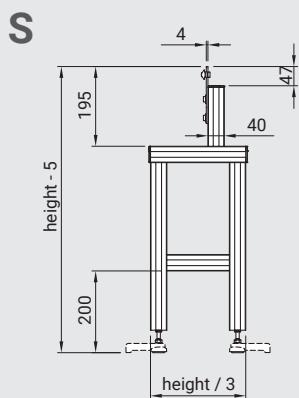
Stand for Timing Belt Conveyor 40

**Technical data**

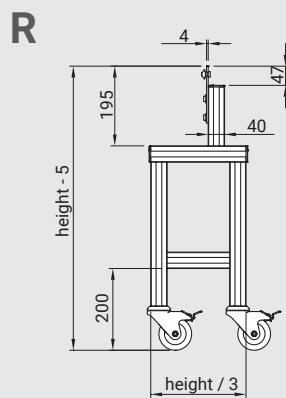
Material: clear anodized aluminum, galvanized die-cast zinc; galvanized steel; rubber

**Scope of delivery**

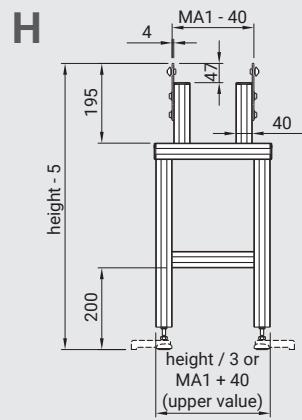
Stand segment fully assembled and attached to the conveyor belt

**Stand types: single lane**

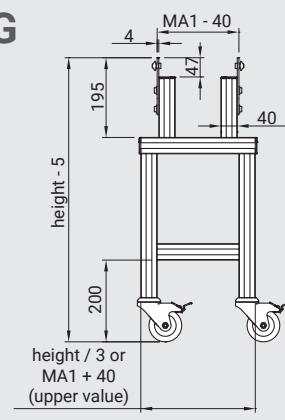
Leveling Bases BAS 4008<sup>1</sup>  
Height adjustment  $\pm 20$  mm



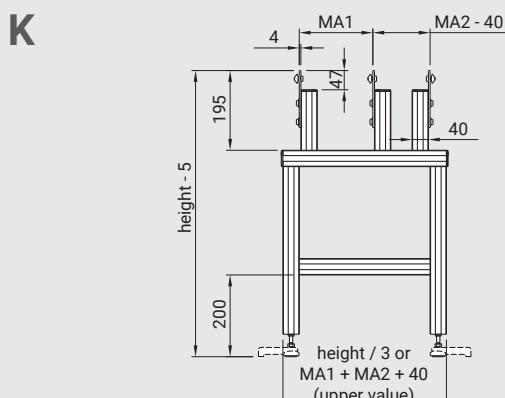
Swivel Castors with brake  
CAS 3080

**Stand types: double lane**

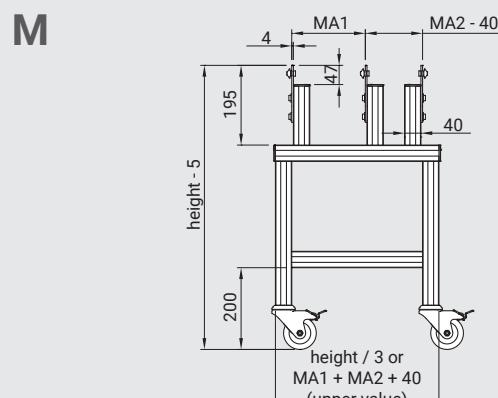
Leveling Bases BAS 4008<sup>1</sup>  
Height adjustment  $\pm 20$  mm



Swivel Castors with brake  
CAS 3080

**Stand types: triple lane**

Leveling Bases BAS 4008<sup>1</sup>  
Height adjustment  $\pm 20$  mm



Swivel Castors with brake  
CAS 3080

**Order code**

Description	Order code <sup>2</sup>				
	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**

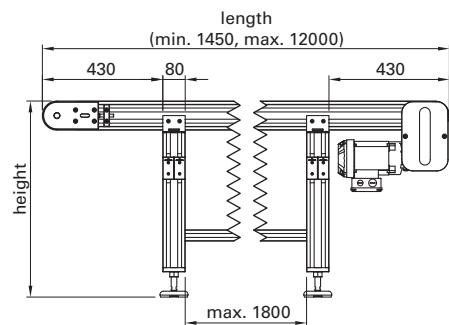
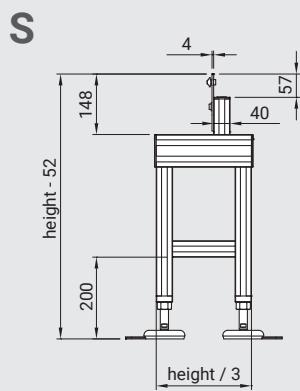
Stand for Timing Belt Conveyor 80

**Technical data**

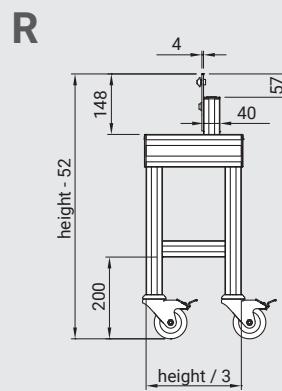
Material: clear anodized aluminum, galvanized die-cast zinc; galvanized steel; rubber

**Scope of delivery**

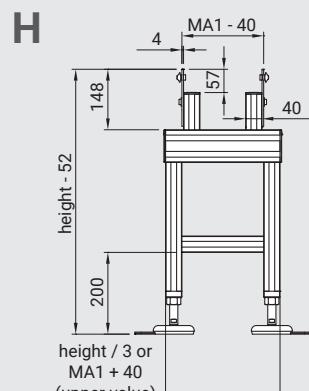
Stand segment fully assembled and attached to the conveyor belt

**Stand types: single lane**

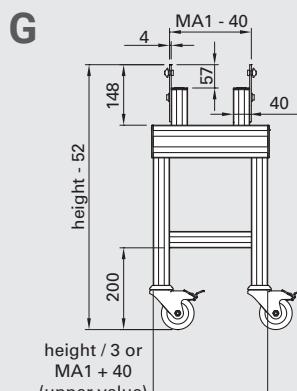
Leveling Bases BAS 1120  
Height adjustment ± 30 mm



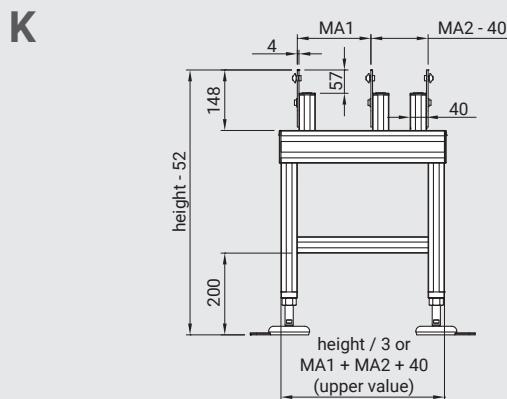
Swivel Castors with brake  
CAS 3080

**Stand types: double lane**

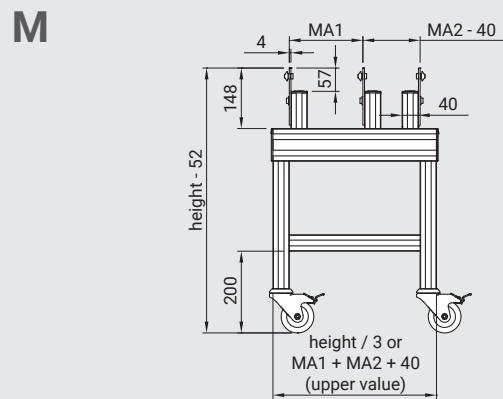
Leveling Bases BAS 1120  
Height adjustment ± 30 mm



Swivel Castors with brake  
CAS 3080

**Stand types: triple lane**

Leveling Bases BAS 1120  
Height adjustment ± 30 mm



Swivel Castors with brake  
CAS 3080

**Order code**

Description  
Stand for C8T

Order code <sup>1</sup>	Length	Type	Height	MA1	MA2
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



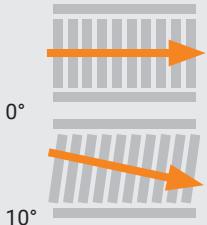
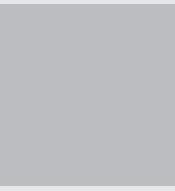
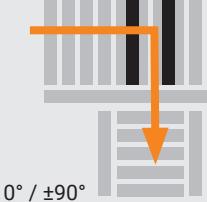
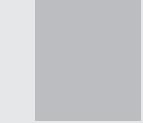
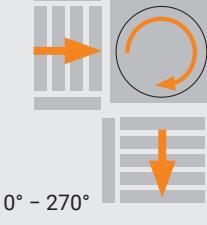
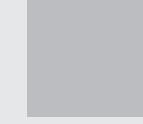
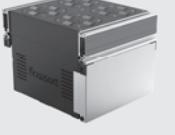
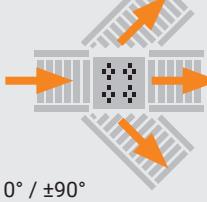
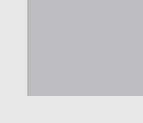
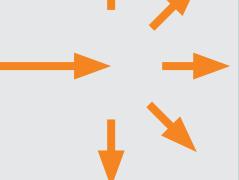
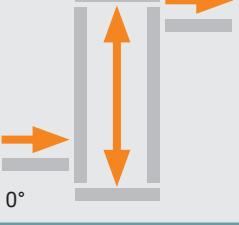
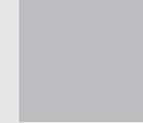
## Lift Station



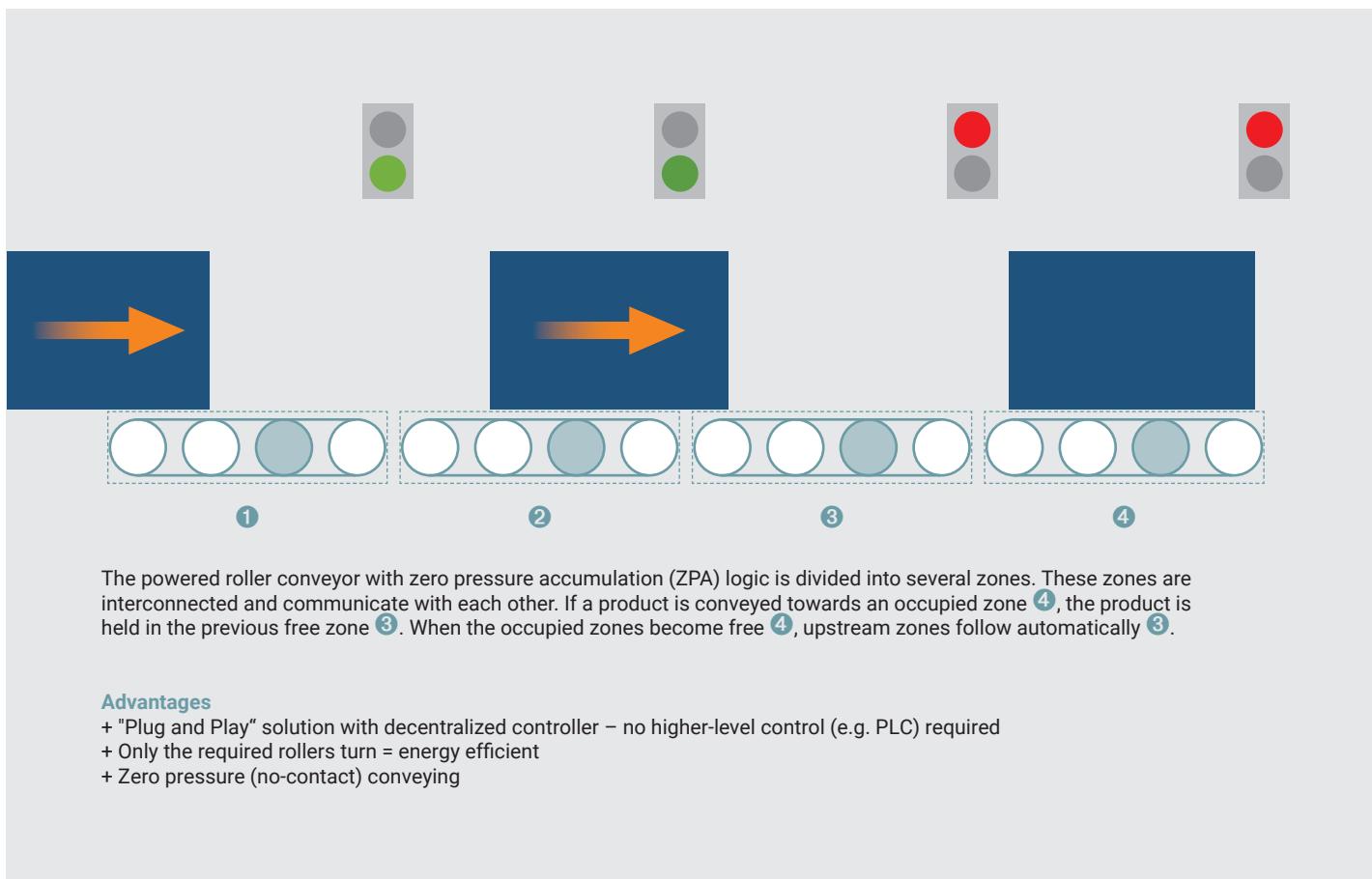
## Diverter



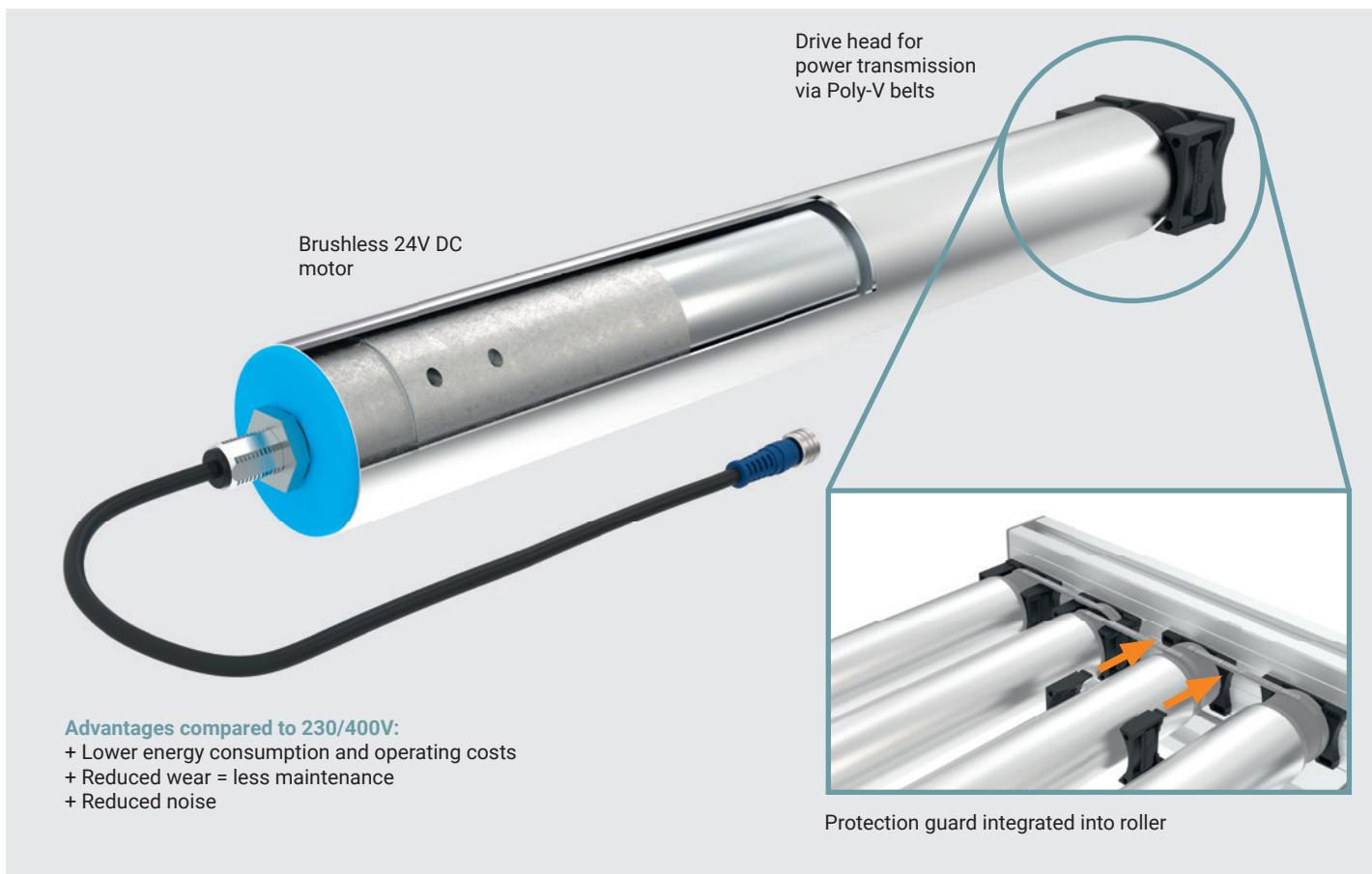
## Powered Roller Conveyor Modules

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



## Drive technology





#### 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

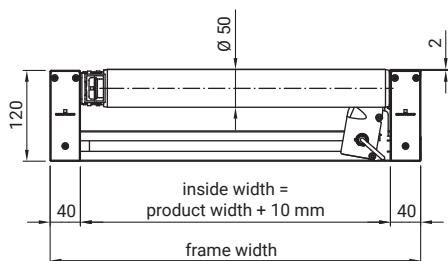
#### Supported control protocols:



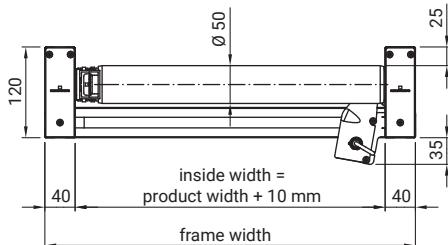
Side Guide for Roller Conveyor

See page 51

#### Option without side guides



#### Option with side guides

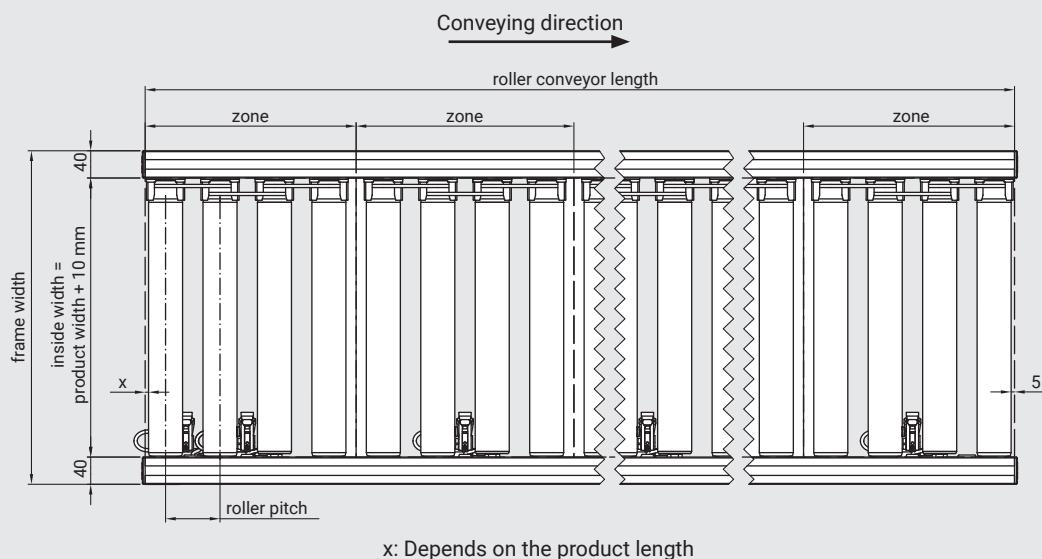


#### Optional roller material:

Stainless steel

PU or PVC rubber coating

## Dimensions



## 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

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

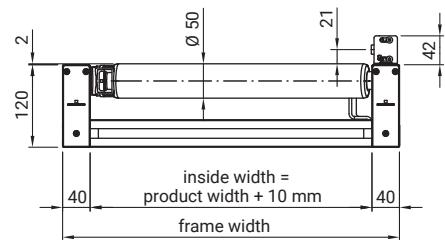
Frame material: clear anodized aluminum

Max. weight of conveyed material: 50 kg

### Control unit:

Fully wired, optionally with sensors

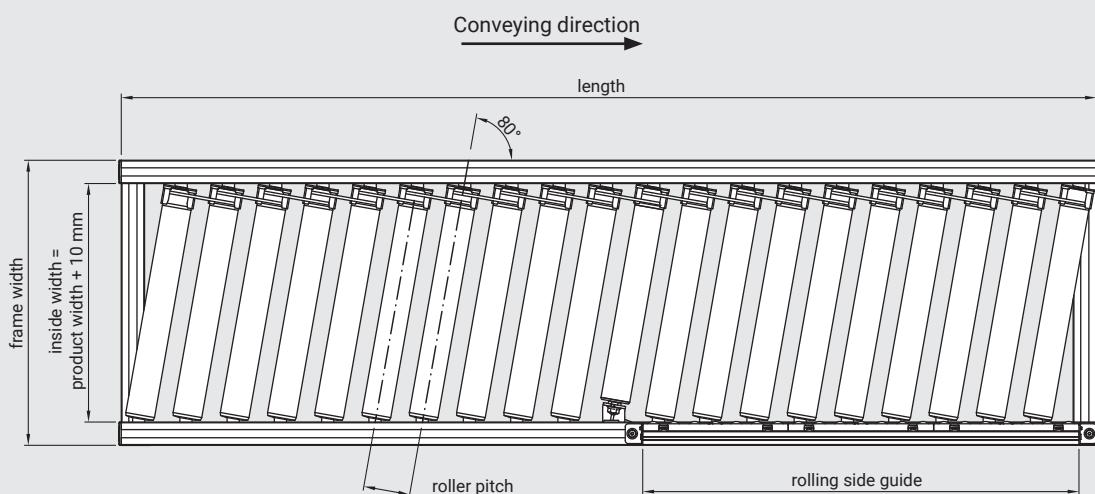
**Offset per meter:** 173 mm



### 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](http://www.robotunits.com).

Drawings: dimensions in mm



#### Side Guide for Roller Conveyor

See page 51

#### Supported control protocols:



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

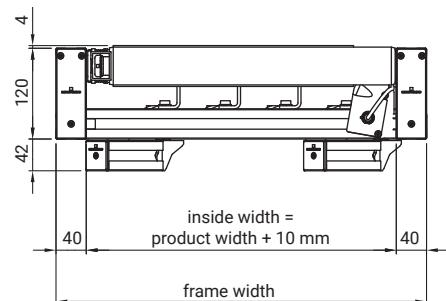
Conveyor rollers driven by Poly-V belts

Roller material: galvanized steel

Belt material: Chloroprene with PA tension members

Frame material: clear anodized aluminum

Max. weight of conveyed material: 50kg

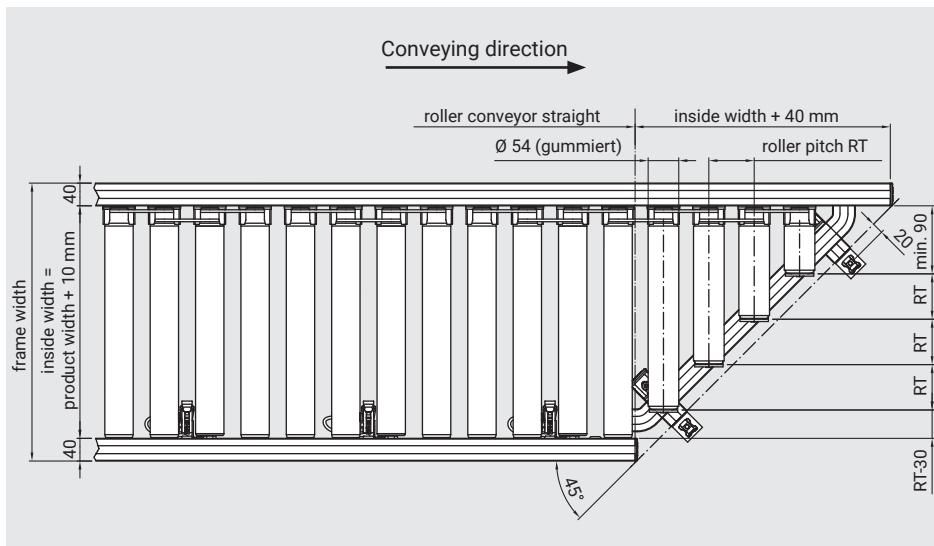


#### Optional roller material:

Stainless steel

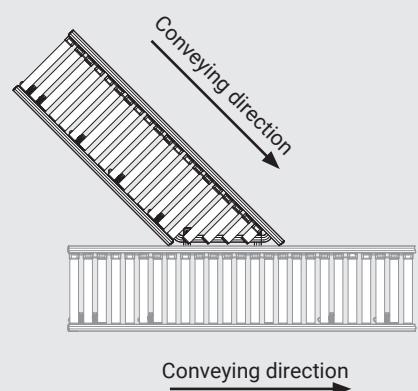
PU or PVC rubber coating

## 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.

R5C

## Powered Roller Conveyor Curved



### Side Guide for Roller Conveyor

See page 51

### Supported control protocols:



### 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

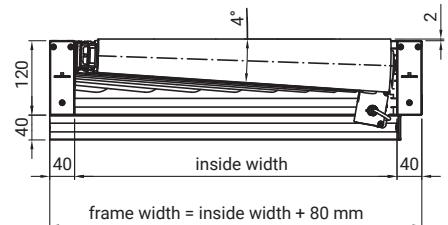
Conveyor rollers driven by Poly-V belts

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



 Side Guide for Roller Conveyor  
See page 51

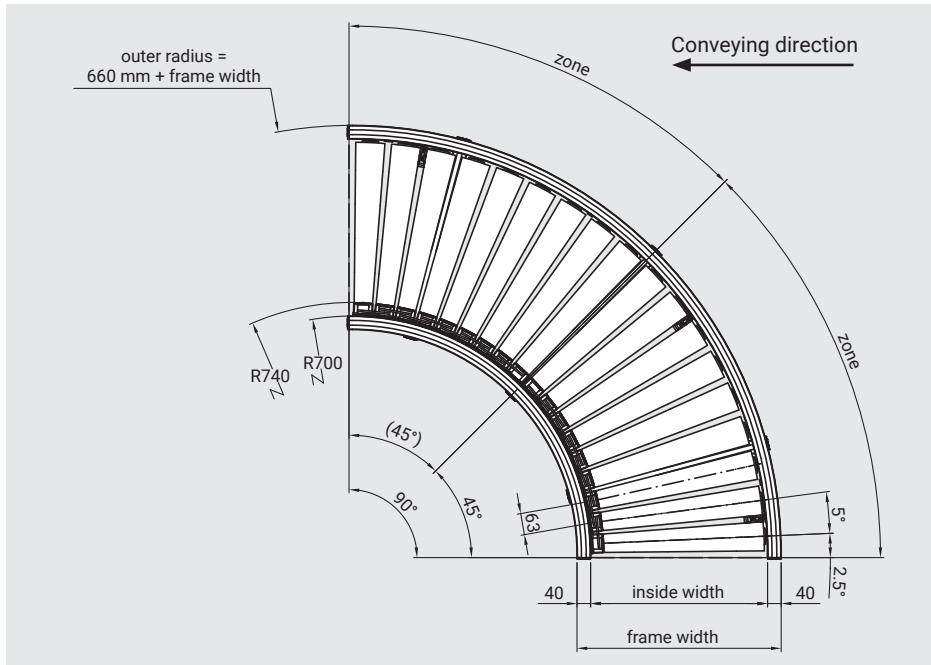
### Control unit:

Completely pre-installed incl. sensors

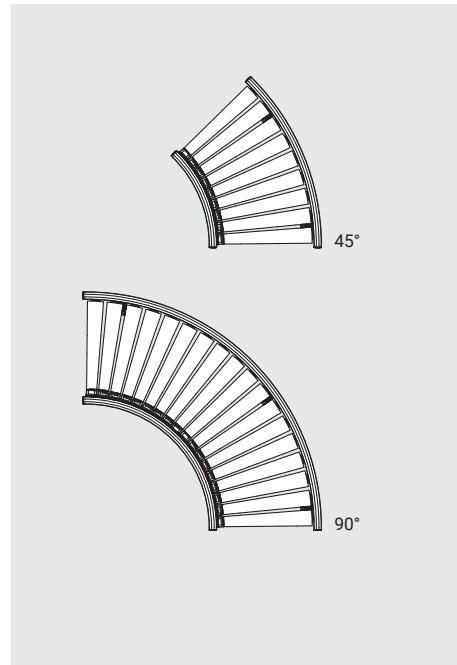
### Configuration:

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](http://www.robotunits.com).

R5T0050

## Transfer Unit 90°, 50



## Supported control protocols:



EtherNet/IP® EtherCAT®

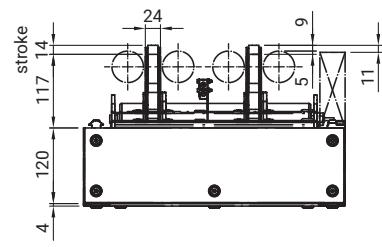
**Application**

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

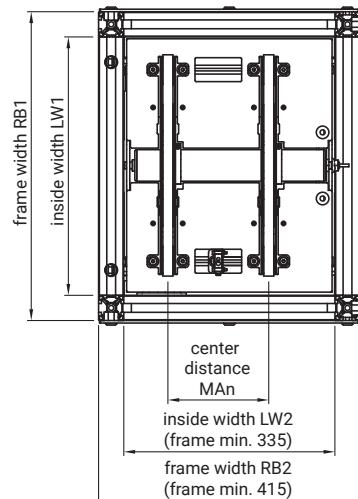
Max. speed:

≤ 20 kg: 48 m/min

≤ 40 kg: 33 m/min

≤ 50 kg: 26 m/min

Max. weight of conveyed material: 50 kg

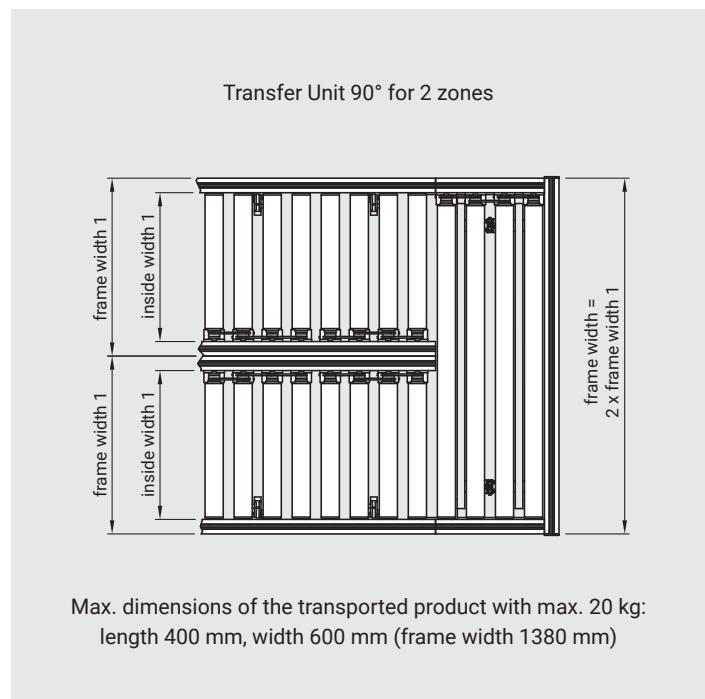
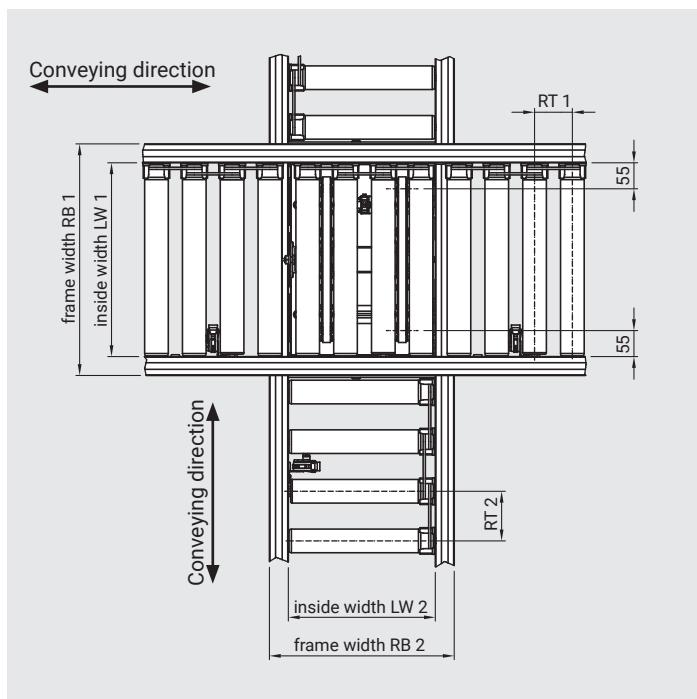
**Control unit:**

Completely pre-installed incl. sensors

**Configuration:**

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

## Dimensions



## Request for Quote / Order placement

Please use our request form at [www.robotunits.com](http://www.robotunits.com).

Drawings: dimensions in mm

Distributed by Valin Corporation | [www.valin.com](http://www.valin.com) | (800) 774-5630 | [customerservice@valin.com](mailto:customerservice@valin.com)

R5T0100

## Transfer Unit 90°, 100

**Application**

90 degree transfer of products in various sizes from min. 400 x 600 mm to max. 1200 x 1200 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

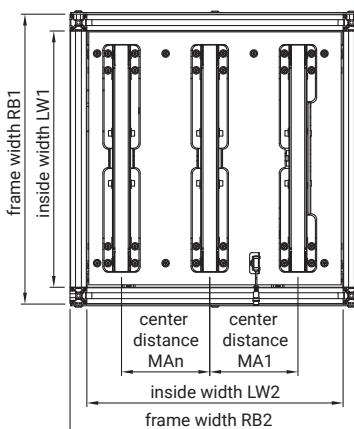
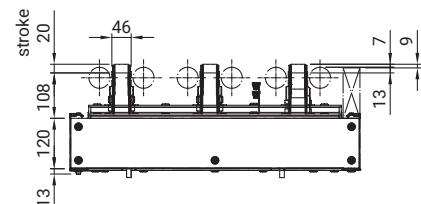
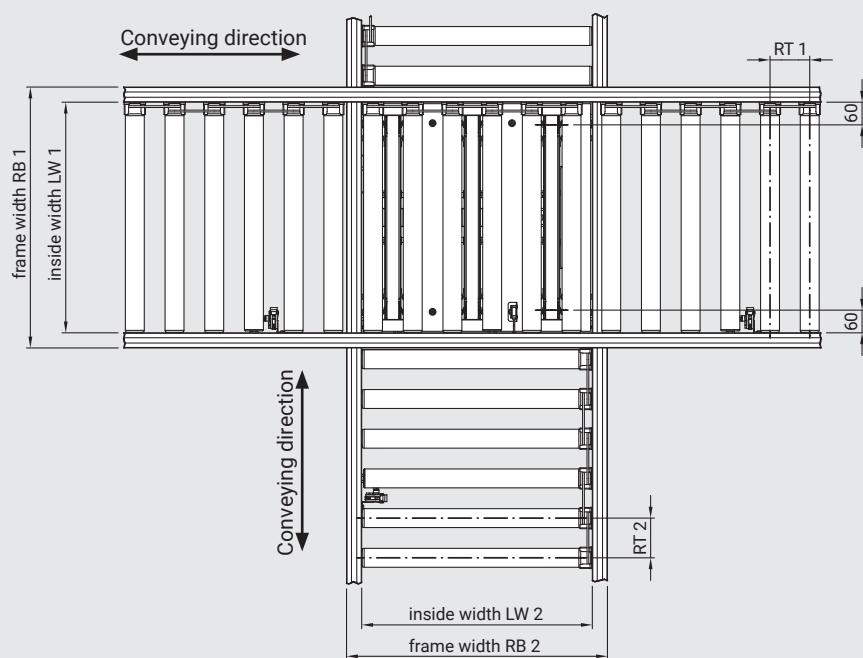
Max. weight of conveyed material: 100 kg

**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](http://www.robotunits.com).

Drawings: dimensions in mm

Distributed by Valin Corporation | [www.valin.com](http://www.valin.com) | (800) 774-5630 | [customerservice@valin.com](mailto:customerservice@valin.com)

R5R

## Turntable With Powered Roller Conveyor



Supported control protocols:

EtherNet/IP® EtherCAT®

Side Guide for Roller Conveyor  
 See page 51

**Application**

Correctly positioned turning of products in various sizes

**Technical data**

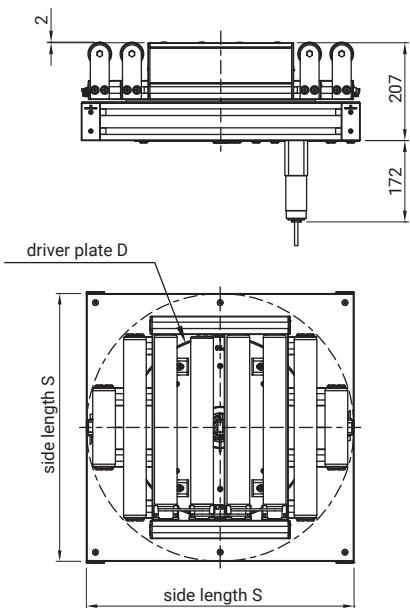
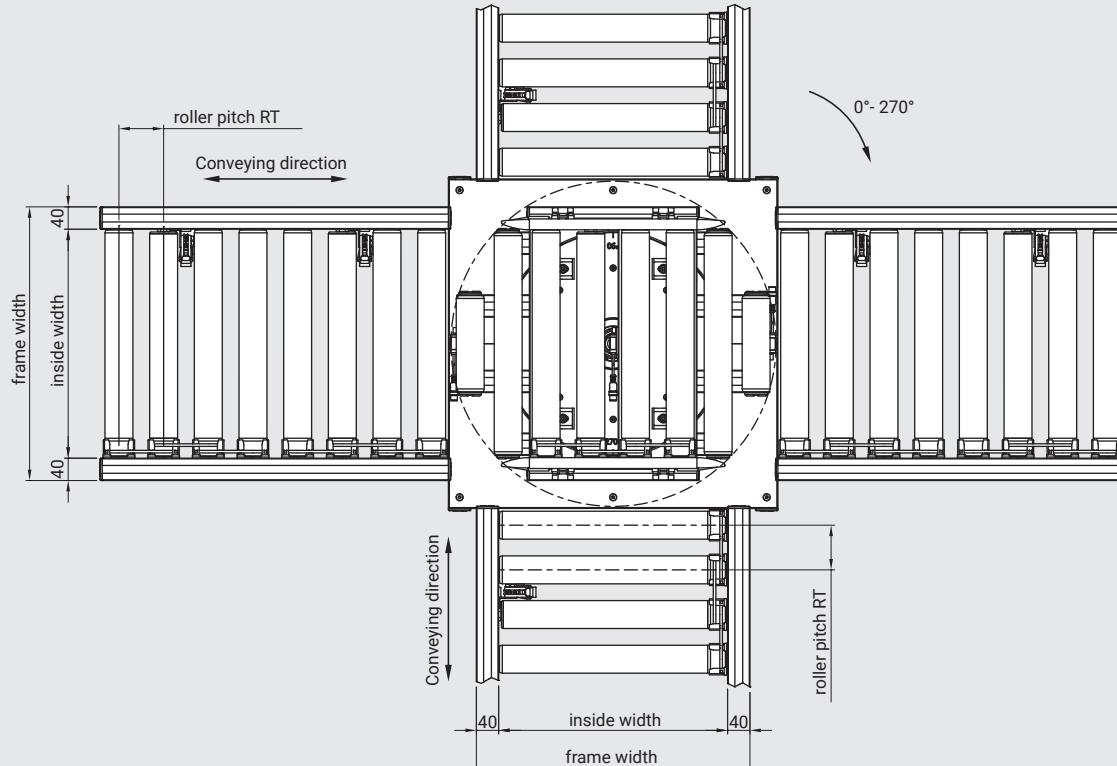
Brushless 24V DC motor  
 Temperature range: from +2°C to +40°C  
 Max. continuous current per motor roller: 2.5 A  
 Turning range: 0° - 270°  
 Travel time for 90°: 2.5s  
 Max. weight of conveyed material: 50 kg

**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**

Description	Conveyed material (LxW)	Roller Conveyor on the Turntable			Turntable	
		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.

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°

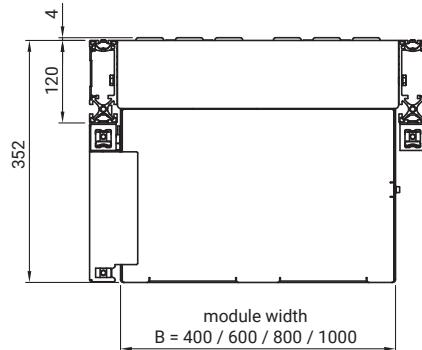
Housing material: coated steel

Roller material: PU

Max. weight of conveyed material: 35 kg

Max. throughput: 6,000 products per hour

Max. roller speed: 90 m/min

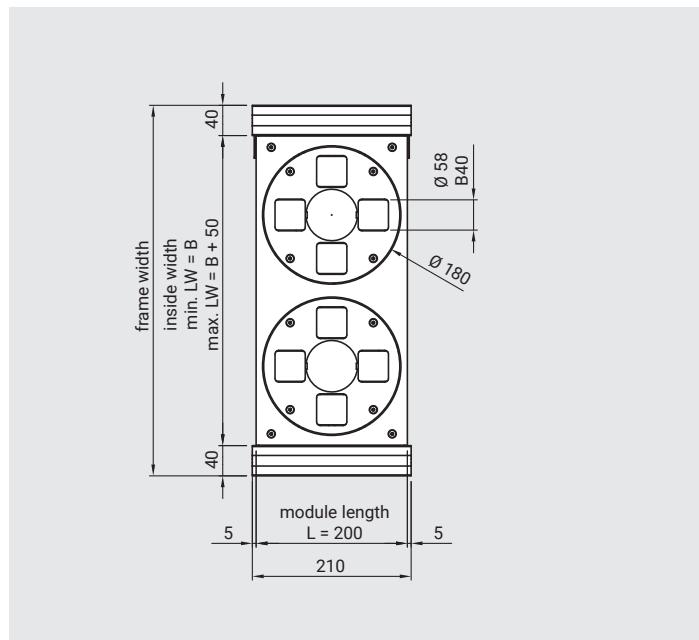


### Supported control protocols:

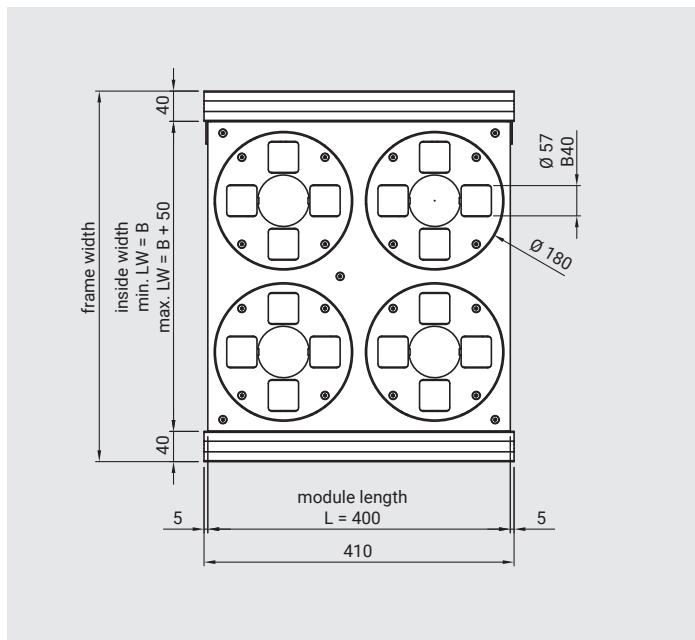


EtherNet/IP EtherCAT

## 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](http://www.robotunits.com) or contact us.

Drawings: dimensions in mm



Side Guide for Roller Conveyor

See page 51

Supported control protocols:

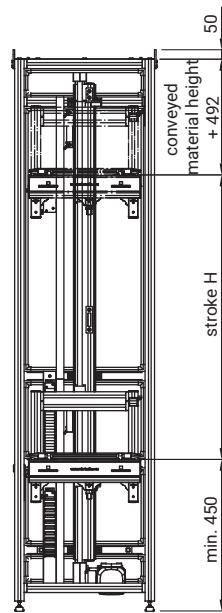


#### Application

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/s<sup>2</sup>  
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



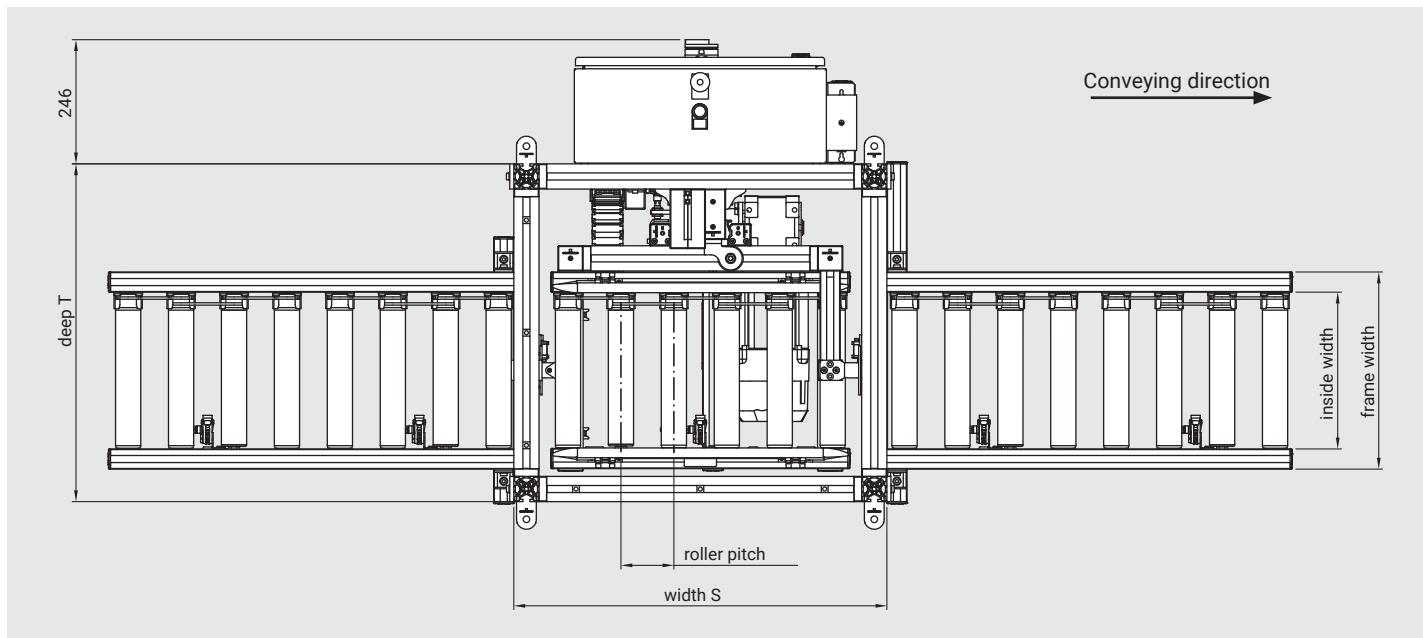
#### Control unit:

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

Description	Conveyed material (LxW)	Powered Roller Conveyor on Lift Station			Lift Station	
		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.

R5F

## Stand for Straight Conveyor

**Application**

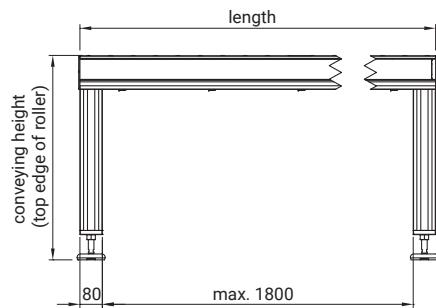
Stand for Powered Roller Conveyor Straight and Gravity Roller Conveyor Straight

**Technical data**

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

**Scope of delivery**

Stand segment fully assembled

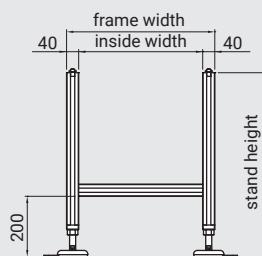


## Standard conveyor stand types

**S**

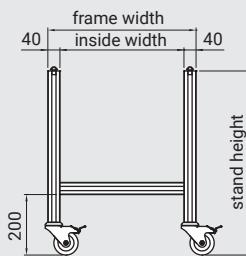
Leveling Bases BAS1120  
Height adjustment  $\pm 30$  mm

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

Stand for Straight Roller Conveyor

	Frame width	Order code Type	Length	Conveying height
	R5F	---	NN	---

R5K

## Stand for Curved Conveyor

**Application**

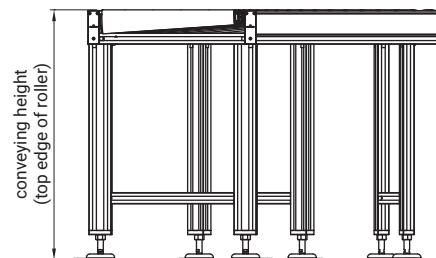
Stand for Powered Roller Conveyor Curved 45° and Curved 90°.

**Technical data**

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

**Scope of delivery**

Stand segment fully assembled

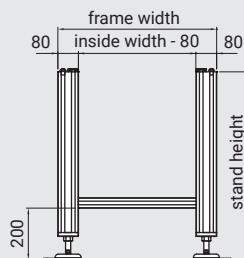


## Standard conveyor stand types

**S**

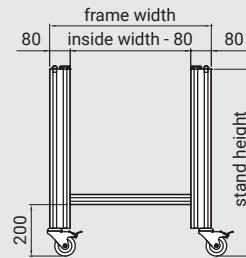
Leveling Bases BAS1120  
Height adjustment  $\pm 30$  mm

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

Stand for Curved Roller Conveyor

	Frame width	Order code Type	Curve angle	Conveying height
	R5K	---	NN	---



#### Application

Gravity-assisted conveying of products in various sizes

#### Technical data

Frame material: clear anodized aluminum

Roller material: galvanized steel

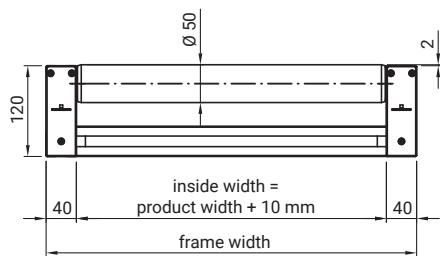
Temperature range: from -20°C to +80°C

Max. weight of conveyed material: 100 kg

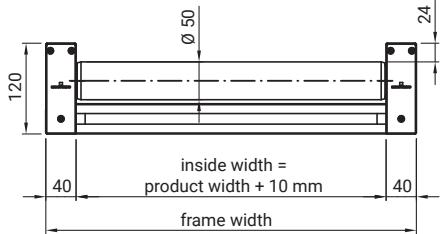
Inside width min.: 90 mm

Inside width max.: 1210 mm

#### Option without side guides



#### Option with side guides

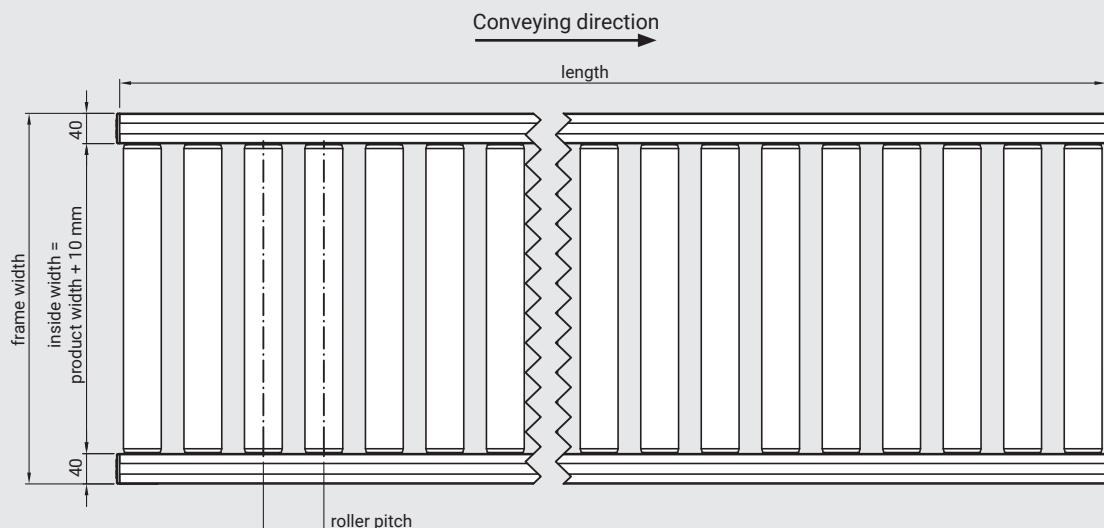


Side Guide for Roller Conveyor  
See page 51



Optionally with end stop

## Dimensions



Please use our request form at [www.robotunits.com](http://www.robotunits.com).

Drawings: dimensions in mm

R5Z

## Stand for Inclined Conveyor

**Application**

Stand for Powered Roller Conveyor Straight and Gravity Roller Conveyor Straight

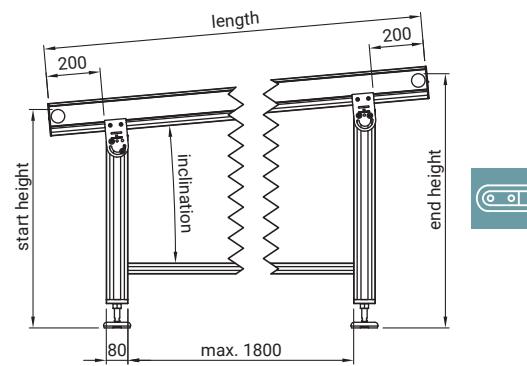
**Technical data**

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

**Scope of delivery**

Stand segment fully assembled

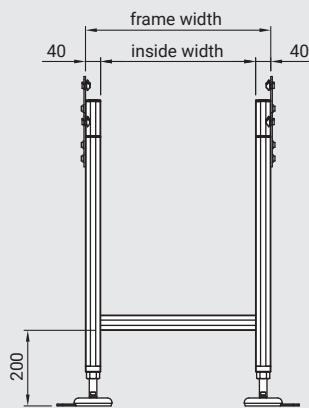
Wide conveyor stands (type H and G) offer additional stability for Powered Roller Conveyors with a stand height more than 3 times the frame width.



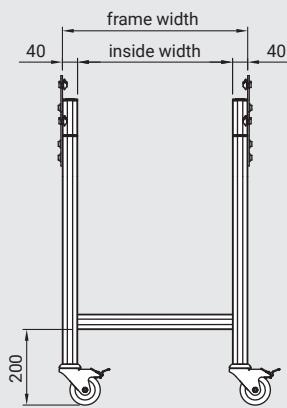
## Standard conveyor stand types

**S**

Leveling Bases BAS1120  
Height adjustment  $\pm 30$  mm

**R**

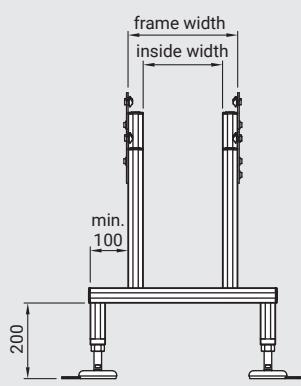
Swivel Castors CAS3080  
with brake



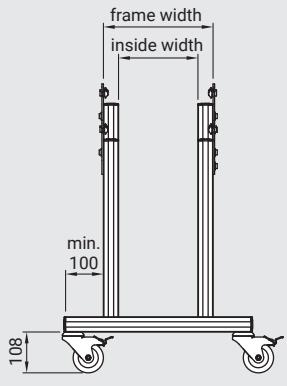
## Wide conveyor stand types

**H**

Leveling Bases BAS1120  
Height adjustment  $\pm 30$  mm

**G**

Swivel Castors CAS3080  
with brake



## Order code

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

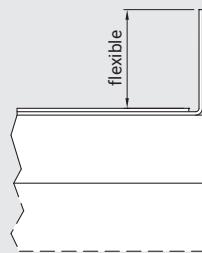
## Side Guide System for Belt, Timing Belt and Modular Belt Conveyors

Belt Conveyor (integrated)



See catalog

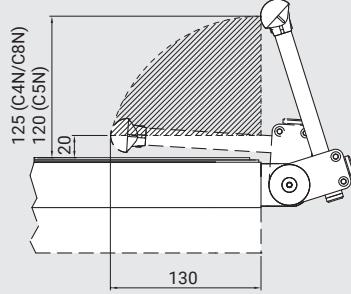
page 16  
(C4N)  
page 18  
(C5N)  
page 20  
(C8N)



Belt Conveyors



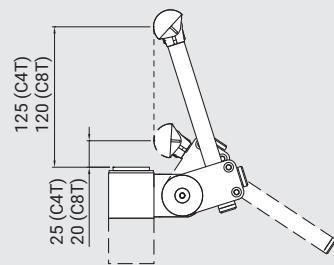
Guide range with  
standard square  
tube length  
150 mm  
(special length  
possible)



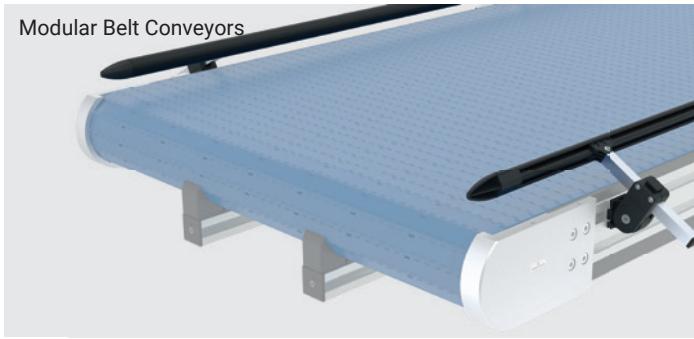
Timing Belt Conveyors



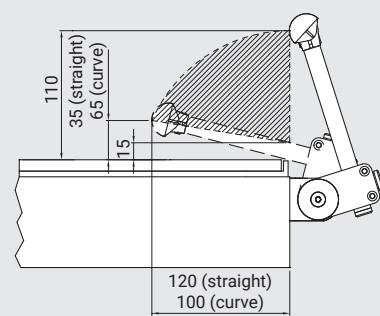
Guide range with  
standard square  
tube length  
150 mm  
(special length  
possible)



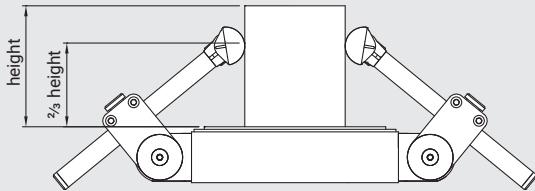
Modular Belt Conveyors



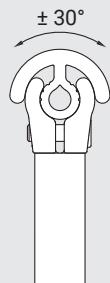
Guide range with  
standard square  
tube length  
150 mm  
(special length  
possible)



### Design note



Recommended height side guide



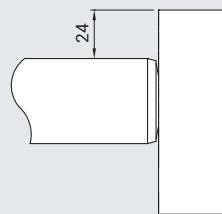
Adjustment range side guide

## Side Guide for Roller Conveyor

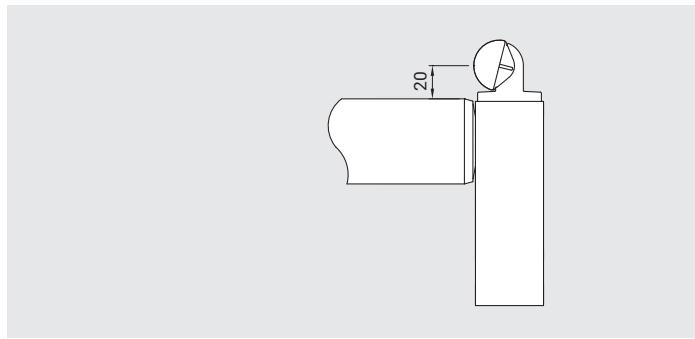
Integrated (only with Powered Roller Conveyor Straight)



See catalog page 38



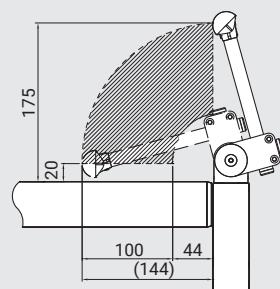
Rigid



Flexible, with overhang



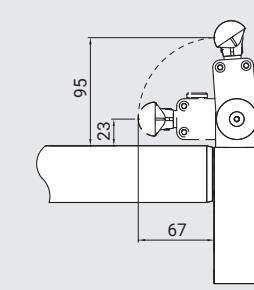
Guide range with standard square tube length 150 mm (special length possible)



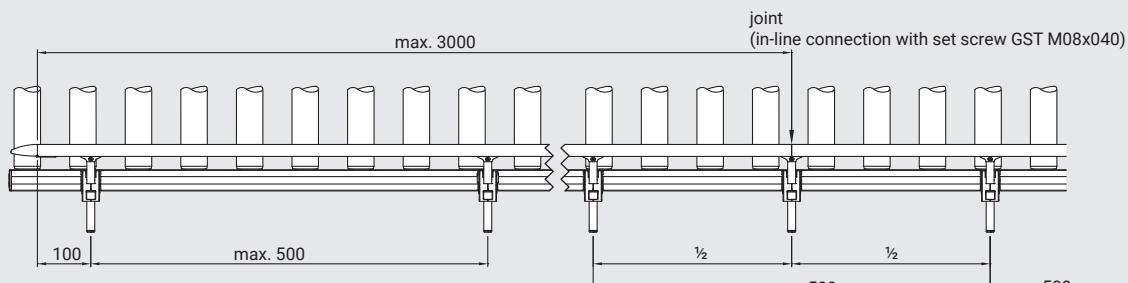
Flexible, without overhang



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!



#### Application

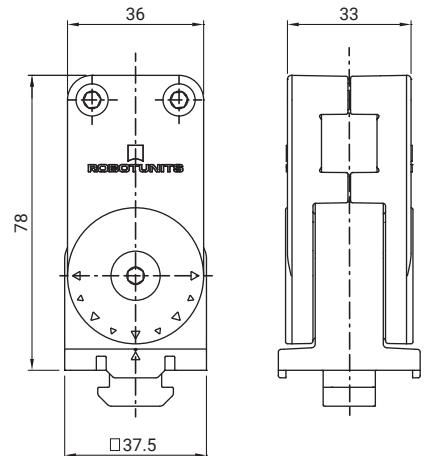
For individual positioning of side guides

#### Technical data

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

#### Scope of delivery

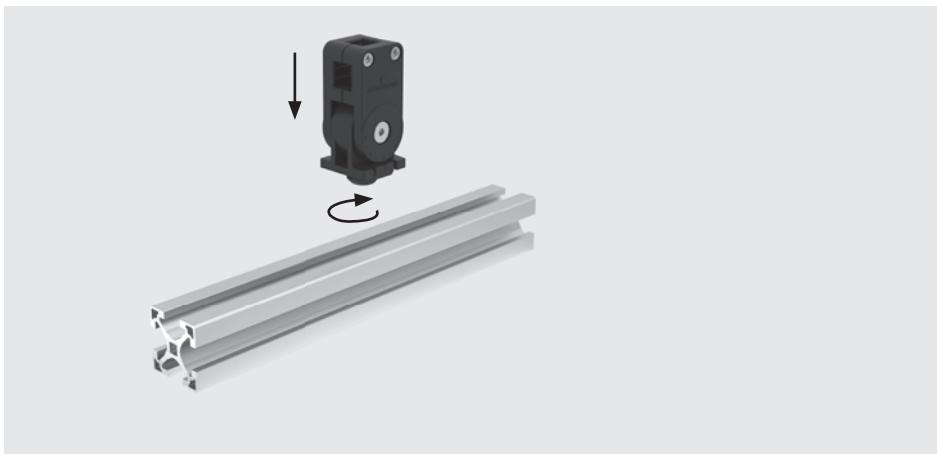
1 Side Guide Base Part  
1 Side Guide bracket nut  
1 Side Guide bracket screw  
2 cap screws ISO 4762 M5x25  
2 hexagon nuts ISO 4032 M5  
1 cap screw, extra low head M8x30  
1 lock washer 8.4x13x0.8  
1 hexagon nut ISO 4032 M8  
1 CAP1818 End Cap  
2 shim washers 8x14x0.5 DIN988



#### 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

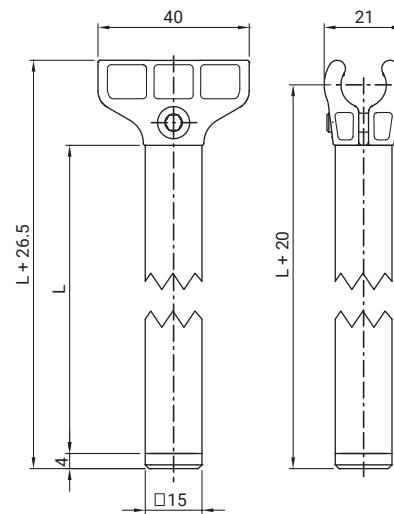
1 Side Guide Clamping Part

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**

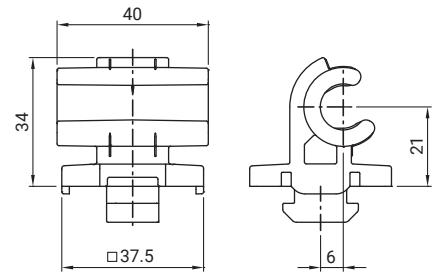
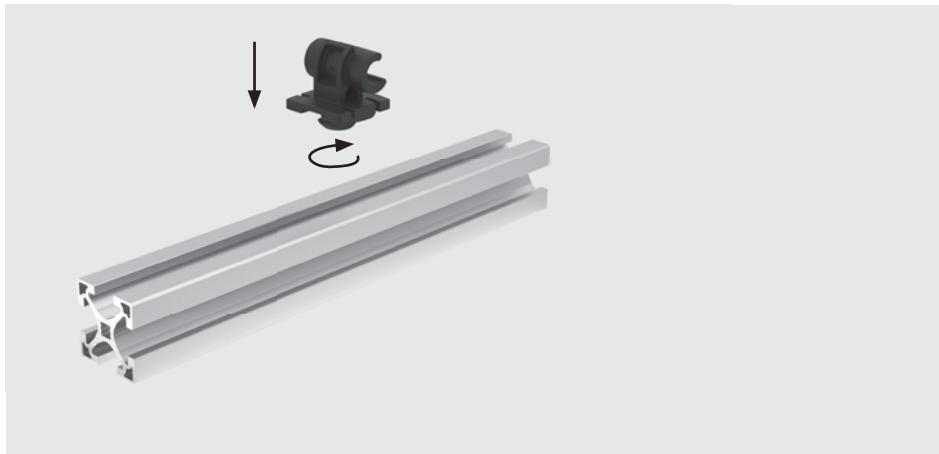
To accomodate side guides

**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**

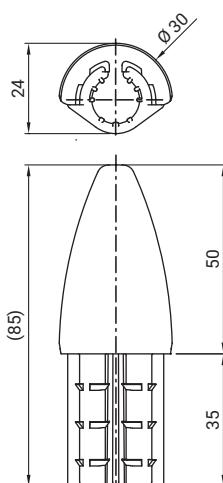
To cover the ends of side guides

**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

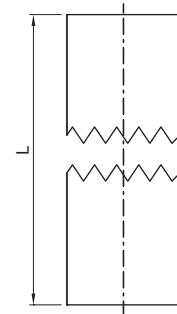
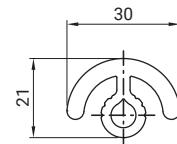
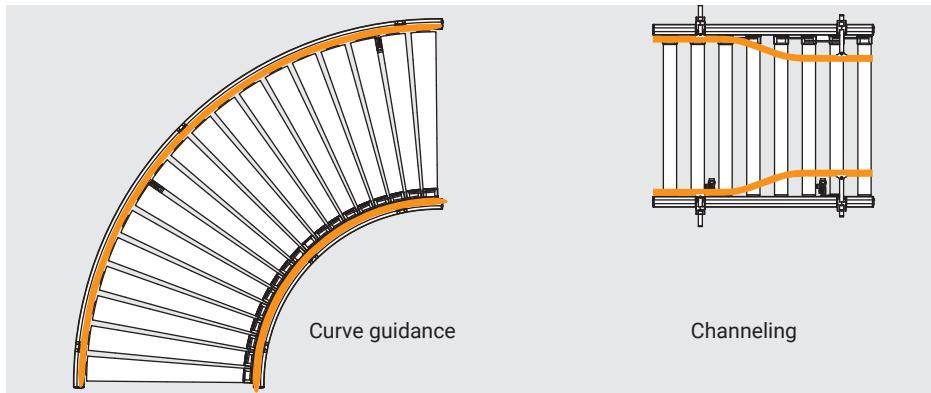
**Applications**

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****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