



# ***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.

An important contributor to this is the fact that the Belt Conveyor System is seamlessly integrated into the 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. Special designs are available upon request.



#### Impressive delivery times

- production time for your individual Belt Conveyor: 1 week
- Just-In-Time delivery



#### Custom-made sizes

- 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 legs as an option
- fast adjustments to meet your individual requirements



#### Flexibility in drive options and positions

- choose drive option and position of motor
- maintenance-free timing belt drive
- space saving direct drive



#### Speed

- standard speed ranges from 2.6 m/min to 58 m/min
- higher speeds available upon request
- Speed Controller optional



#### Idler options

- roller diameters of 40 mm, 50 mm or 80 mm
- nose bar (16 mm diameter) for transfer of small parts



#### Wide variety of belts

- accumulation belt
- low & high friction belts
- high durability belts for abrasive and corrosive use



#### Fully integrated conveyor system

- compatible with all our extrusion sizes
- frame built with standard extrusion system
- accessible T-slot on 3 sides of the conveyor frame
- this makes it quick and easy to attach accessories or structural elements (i.e. stops) to the machine frame



#### Save time, cut cost

- shortest lead time
- quick configuration of your custom conveyor
- every Belt Conveyor comes fully assembled and tested
- outstanding price/performance ratio



#### Safety

- self-adjusting safety guard between the Belt Conveyor roll and the slider bed
- timing belt guard with window for visual inspection
- complete documentation meeting the latest Machinery Directive





# Just-In-Time Conveyor Technology

## Belt Conveyor

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Belt Conveyors 40  
C4N



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Belt Conveyors 50  
C5N



P. 18

Belt Conveyors 80  
C8N



P. 20

Stand for  
C4N/C5N  
C4F



P. 22

Stand for  
C8N/C8M  
C8F



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## Modular Belt Conveyors

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Straight Modular  
Belt Conveyors  
C8M



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Curved Modular  
Belt Conveyors  
C8M



P. 28

Stand for  
C8N/C8M  
C8F



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## Timing Belt Conveyors

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Timing Belt  
Conveyors 40  
C4T



P. 32

Timing Belt  
Conveyors 80  
C8T



P. 34

Stand for C4T  
C4G



P. 36

Stand for C8T  
C8G



P. 37

## Powered Roller Conveyor

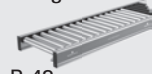
Page 38

Powered  
Roller  
Conveyor  
Straight R5S



P. 42

Powered  
Roller  
Conveyor  
Merge R5M



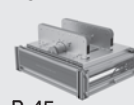
P. 43

Powered  
Roller  
Conveyor  
Curved R5C



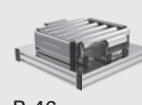
P. 44

Transfer  
Unit 90°  
R5T



P. 45

Turntable  
R5R



P. 46

Lift Station  
R5L



P. 47

Stand for R5\_



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## Side Guide System

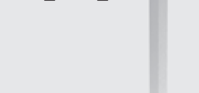
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Side Guide Base  
COP 4561



P. 52

Side Guide Clamp  
With Rod  
CO\_ 900\_



P. 53

Side Guide Clip  
COP 4570



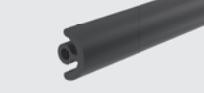
P. 54

Side Guide End  
Piece  
COP 4590



P. 54

Side Guide Plastic  
COL 4590



P. 55

## Conveyor Technology Accessory Overview

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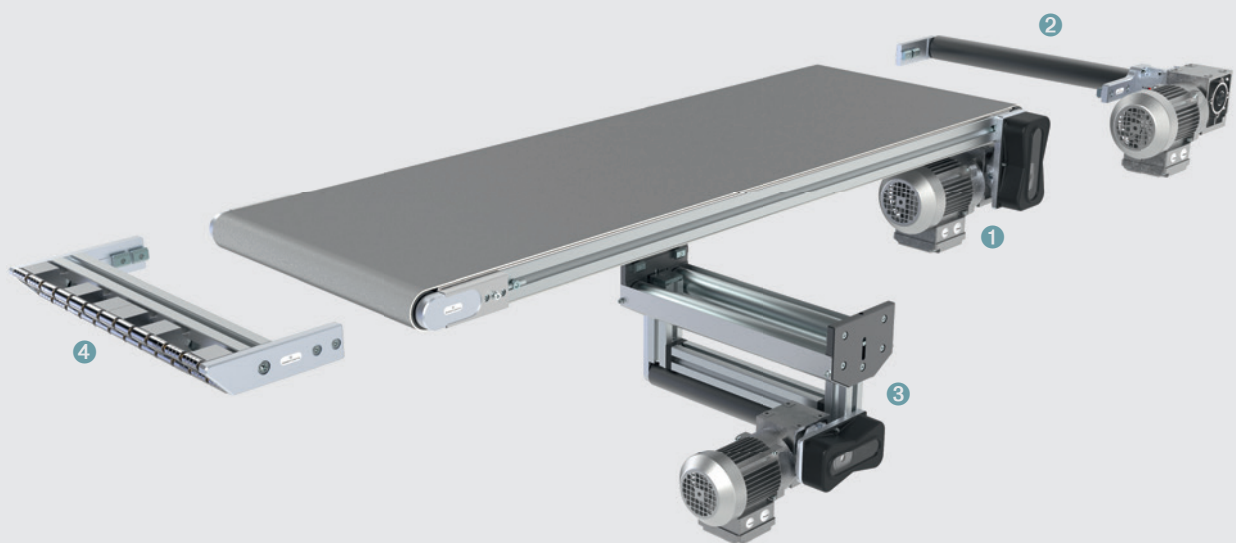


## C4N Belt Conveyor Drive Options



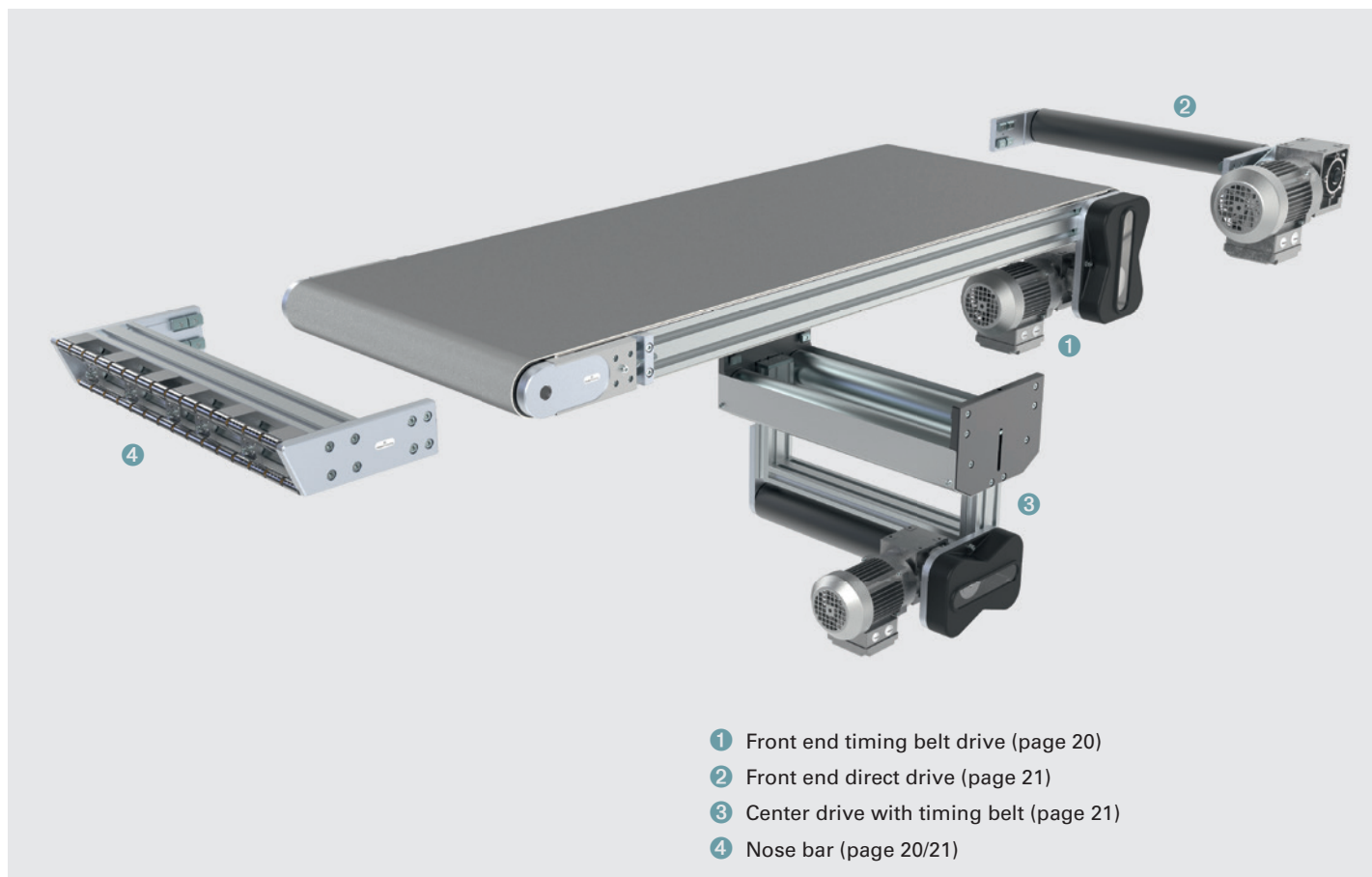
- ① Front end timing belt drive (page 16)
- ② Front end direct drive (page 17)
- ③ Center drive with timing belt (page 17)
- ④ Nose bar (page 16/17)

## C5N Belt Conveyor Drive Options



- ① Front end timing belt drive (page 18)
- ② Front end direct drive (page 19)
- ③ Center drive with timing belt (page 19)
- ④ Nose bar (page 18/19)

## C8N Belt Conveyor Drive Options



## C4N

## Belt Conveyor 40

**Application**

Used for a wide variety of conveying applications

**Technical Data**

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

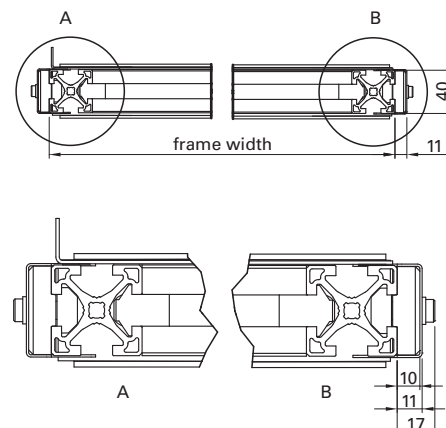
Drive power depending on belt speed and load ranging from 0.12 kW to 0.37 kW  
(208-230/460V; 50/60Hz; IP54)  
Max. total load of material 240 kg

**Belt Type**

low friction, high friction, accumulation, food grade, cut & oil resistant, cleated for incline transport, integrated belt side guides, etc.

**C4N without side guides**

Belt width = frame width - 10 mm

**C4N with side guides**

Frame width  $\leq 120$  mm

Belt width = frame width - 15 mm

Frame width > 120 mm

Belt width = frame width - 20 mm

Side Guides for Belt Conveyors  
see page 50

Drive Option<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

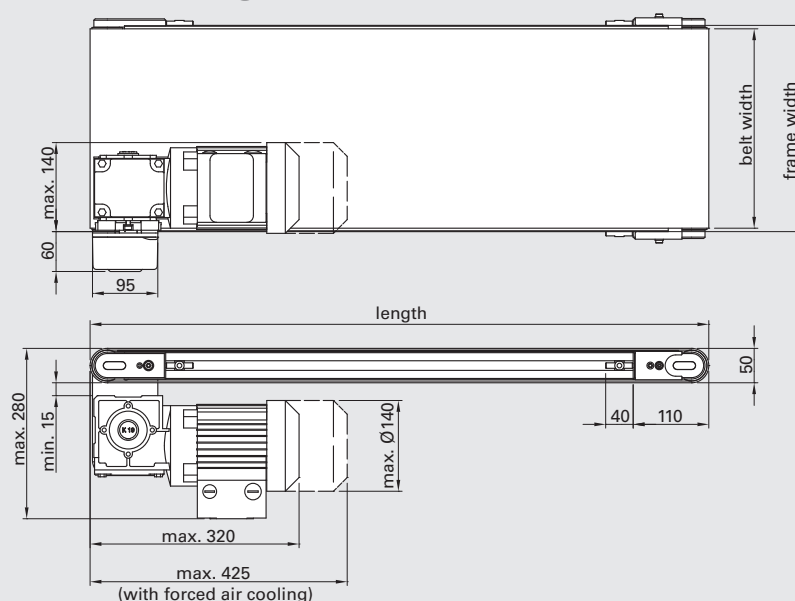
**Front End Direct Drive**

- 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

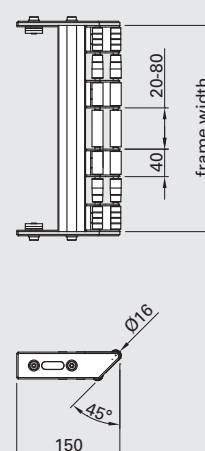
**Center Drive With Timing Belt**

- 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



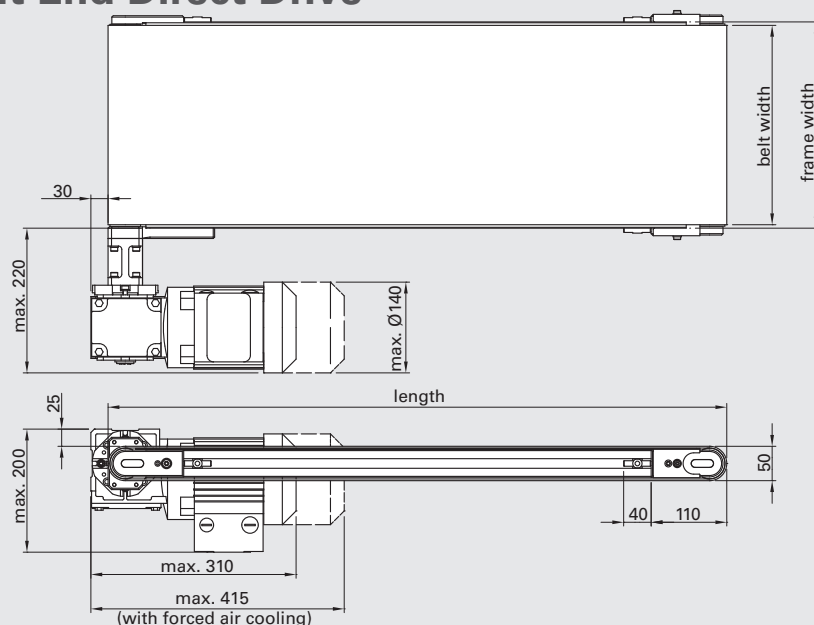
## Optional: nose bar



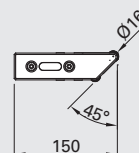
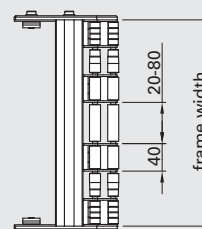
1) Standard direction is pulling. The running direction of all drives can be changed by reversing the polarity of the motor.  
Drawing dimensions in mm



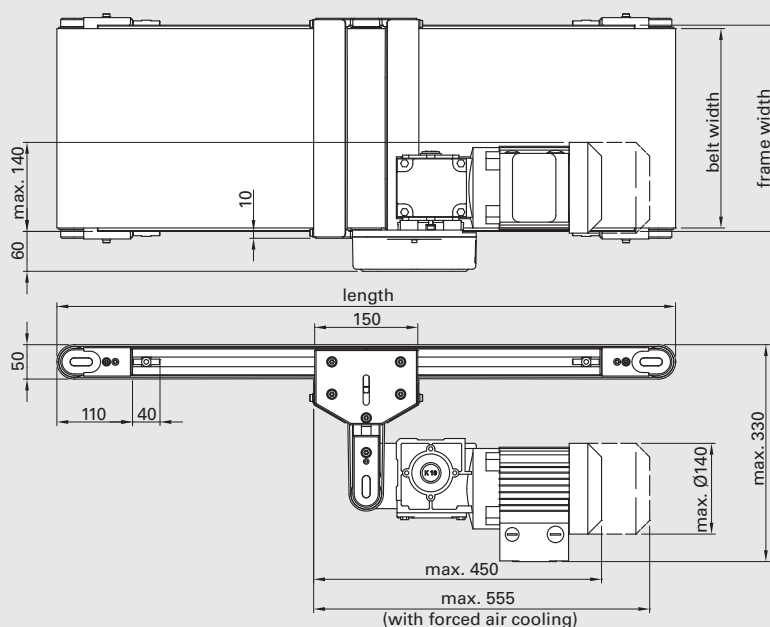
## Front End Direct Drive



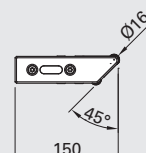
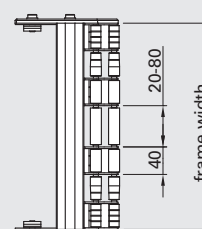
Optional: nose bar



## Center Drive With Timing Belt



Optional: 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

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.  
Drawing dimensions in mm

## C5N

## Belt Conveyor 50

**Application**

Used for a wide variety of conveying applications

**Technical Data**

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

Drive power depending on belt speed and load ranging from

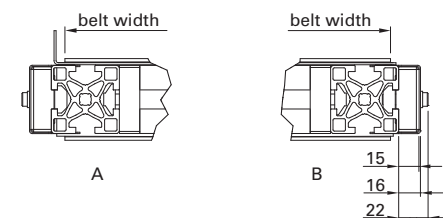
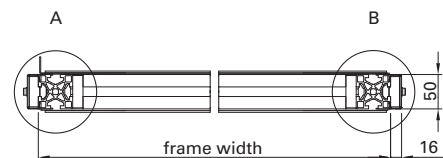
0.12 kW to 0.37 kW

(208-230/460V; 50/60Hz; IP54)

Max. total load of material 340 kg

**Belt Type**

low friction, high friction, accumulation, food grade, cut & oil resistant, cleated for incline transport, integrated belt side guides, etc.



Side Guides for Belt Conveyors  
see page 50

Belt width = frame width - 20 mm

Drive Option<sup>1</sup>**Front End Timing Belt Drive**

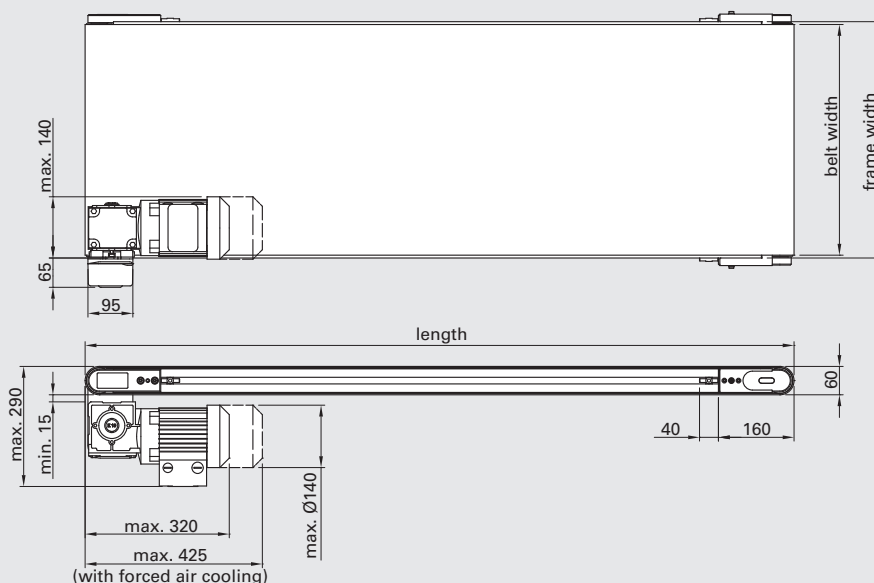
- A** Front end timing belt drive, left
- B** Front end timing belt drive, right
- C** Front end timing belt drive, left, tail end nose bar
- D** Front end timing belt drive, right, tail end nose bar

**Front End Direct Drive**

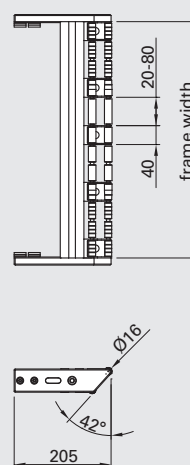
- E** Front end direct drive left
- F** Front end direct drive, right
- G** Front end direct drive, left, with tail end nose bar
- H** Front end direct drive, right, with tail end nose bar

**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

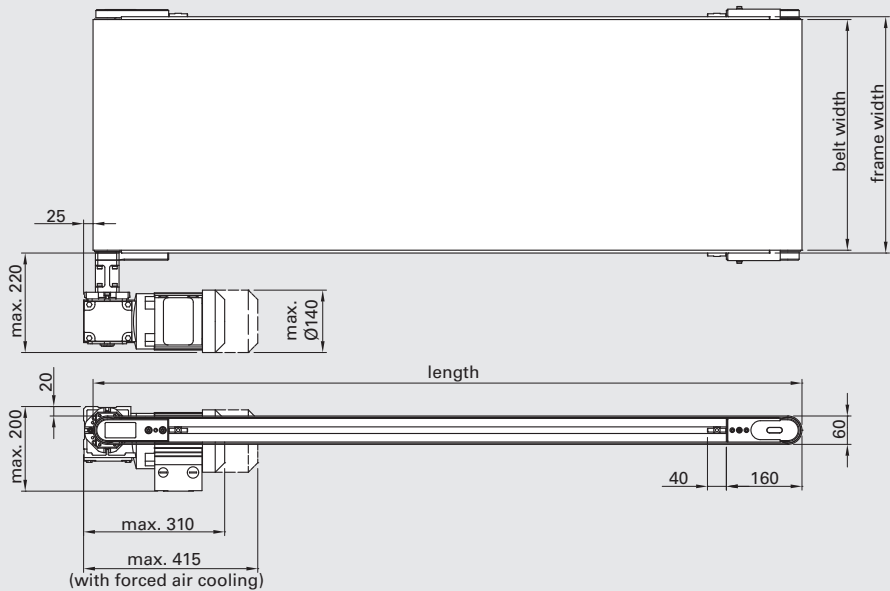
**Front End Timing Belt Drive**

## Optional: nose bar

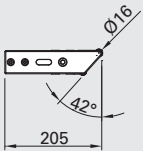
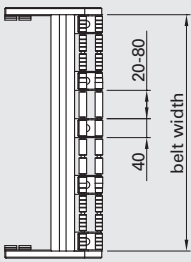


1) Standard direction is pulling. The running direction of all drives can be changed by reversing the polarity of the motor.  
Drawing dimensions in mm

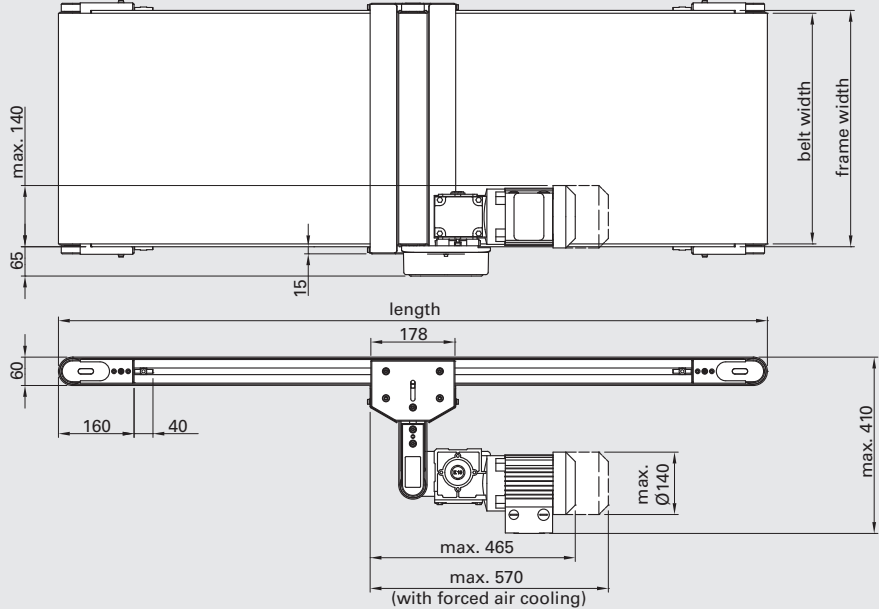
## Front End Direct Drive



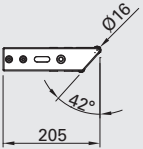
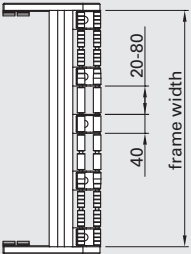
Optional: nose bar



## Center Drive With Timing Belt



Optional: 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

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.  
Drawing dimensions in mm



**Application**

Used for a wide variety of conveying applications

**Technical Data**

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

Drive power depending on belt speed and load ranging from

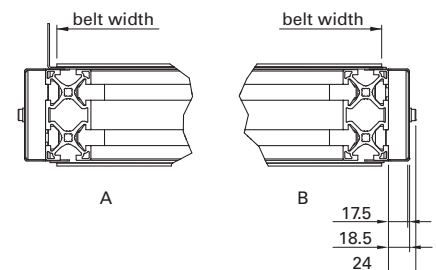
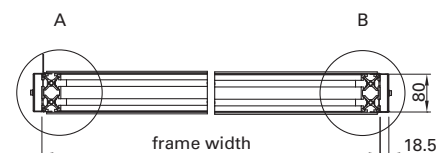
0.25 kW to 0.55 kW

(208-230/460V; 50/60Hz; IP54)

Max. total load of material 800 kg

**Belt Type**

low friction, high friction, accumulation, food grade, cut & oil resistant, cleated for incline transport, integrated belt side guides, etc.



Side Guides for Belt Conveyors  
see page 50

Belt width = frame width - 20 mm

**Drive Option<sup>1</sup>****Front End Timing Belt Drive**

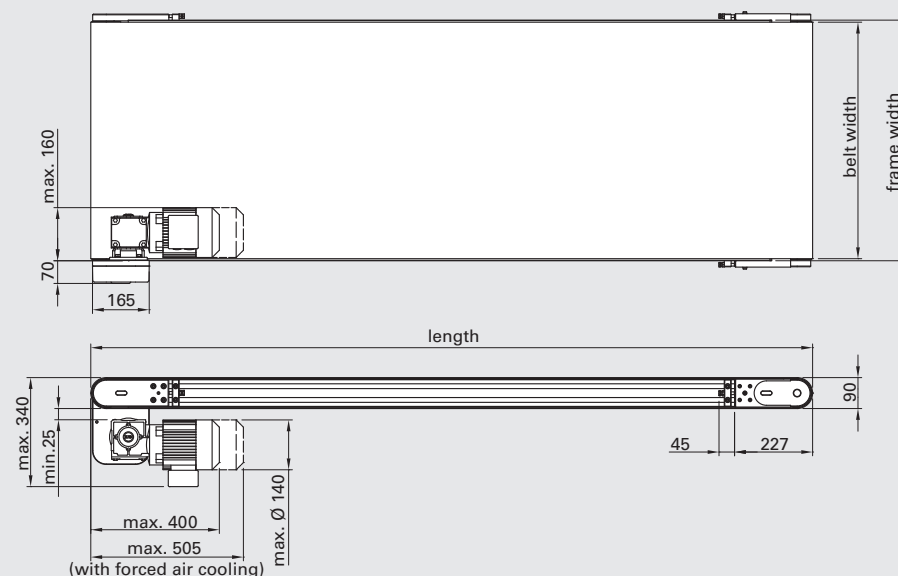
- A** Front end timing belt drive, left
- B** Front end timing belt drive, right
- C** Front end timing belt drive, left, tail end nose bar
- D** Front end timing belt drive, right, tail end nose bar

**Front End Direct Drive**

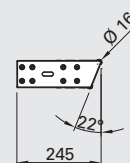
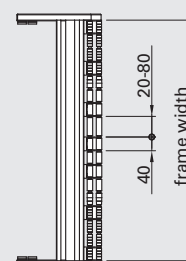
- E** Front end direct drive, left
- F** Front end direct drive, right
- G** Front end direct drive, left, tail end nose bar
- H** Front end direct drive, right, tail end nose bar

**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**

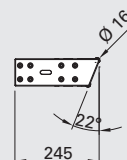
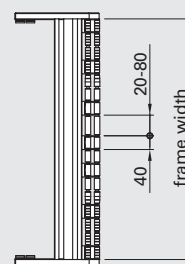
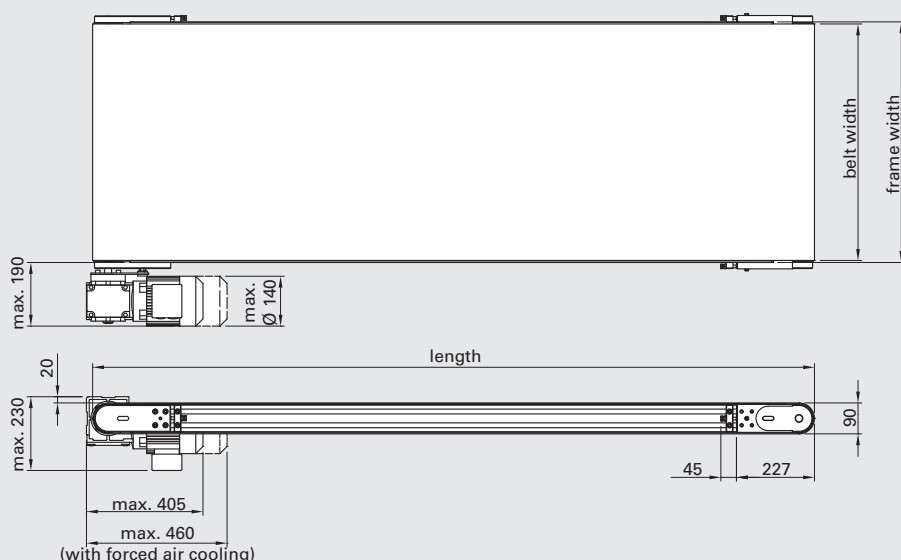
Optional: nose bar



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

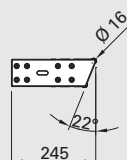
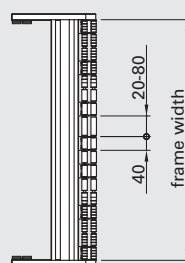
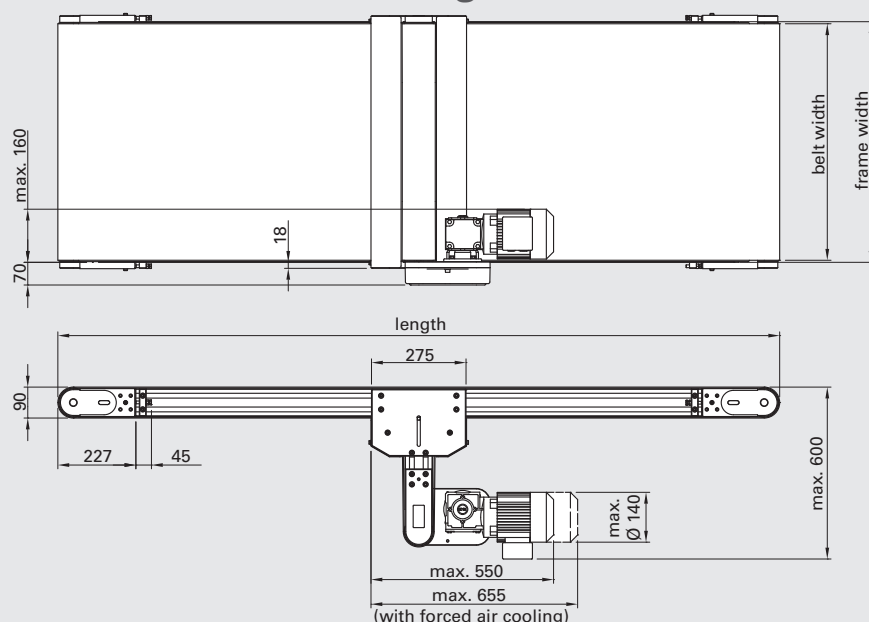
## Front End Direct Drive

Optional: nose bar



## Center Drive With Timing Belt

Optional: 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

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.  
Drawing dimensions in mm

# C4F

# Stand for C4N/C5N

## Application

Stand for Belt Conveyor 40 and 50

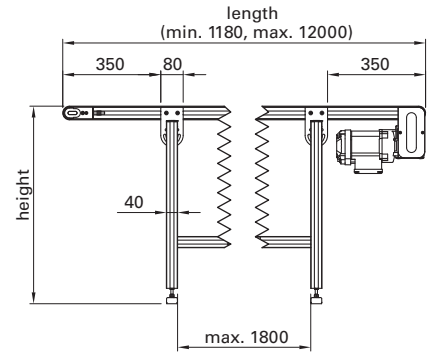
## Technical Data

Material: clear anodized aluminum;  
galvanized GD-Zn; galvanized steel;  
rubber

## Scope of Delivery

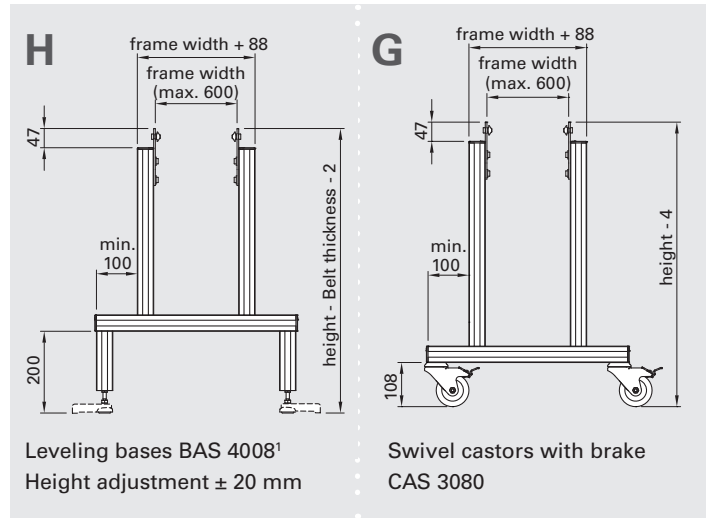
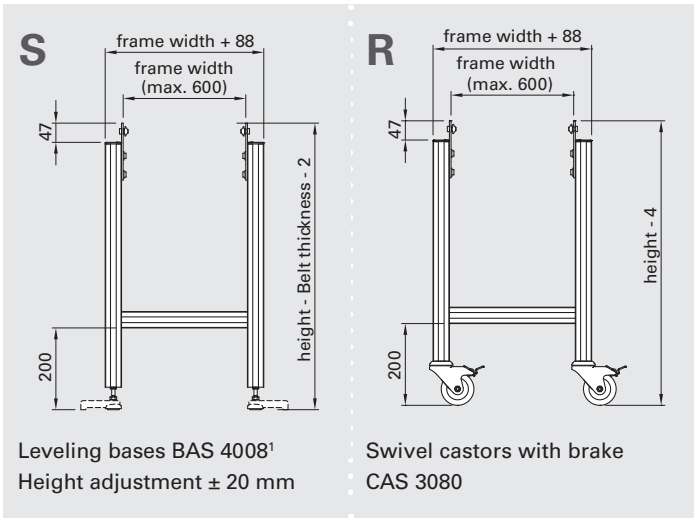
Stand segment fully assembled and  
attached to belt conveyor if applicable

Wide conveyor stand offers additional  
stability when conveyor heights exceed  
3 times the frame width.



## Standard Conveyor Stands

## Wide Conveyor Stands



## Order Code

Description	Order Code <sup>2</sup>			
	Frame Width	Type	Length	Height
Stand for C4N/C5N	C4F	___ NN	___	___

1) Optionally with Floor Mounting BAP 4500

2) Please complete the order code by adding the corresponding parameters for order processing.

Drawing dimensions in mm



## C8F

## Stand for C8N/C8M

**Application**

Stand for Belt Conveyor 80 and  
Modular Belt Conveyor 80

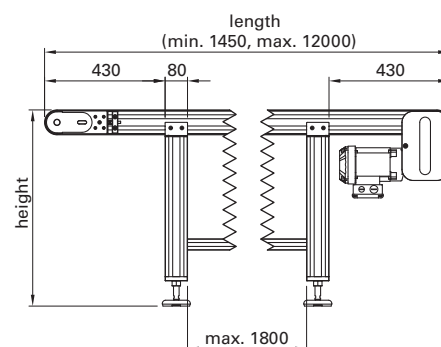
**Technical Data**

Material: clear anodized aluminum;  
galvanized GD-Zn; galvanized steel;  
rubber

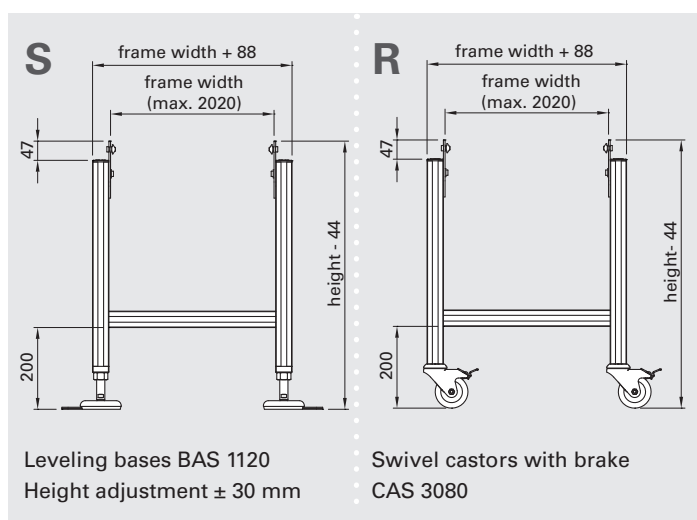
**Scope of Delivery**

Stand segment fully assembled and  
attached to belt conveyor if applicable

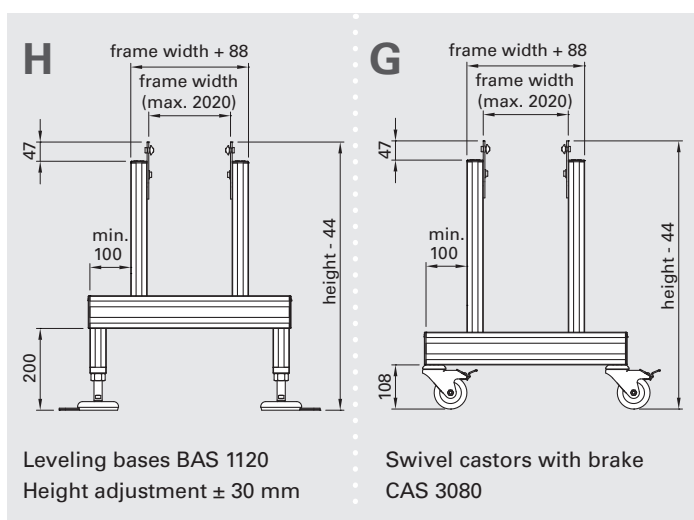
Wide conveyor stand offers additional  
stability when conveyor heights exceed  
3 times the frame width.



## Standard Conveyor Stands



## Wide Conveyor Stands



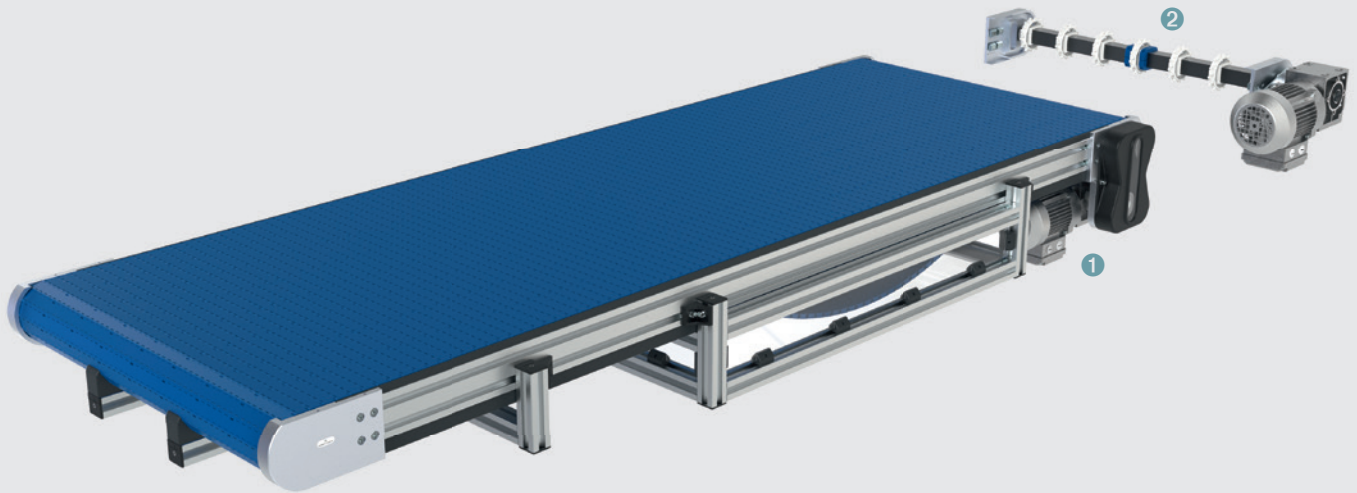
## Order Code

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.

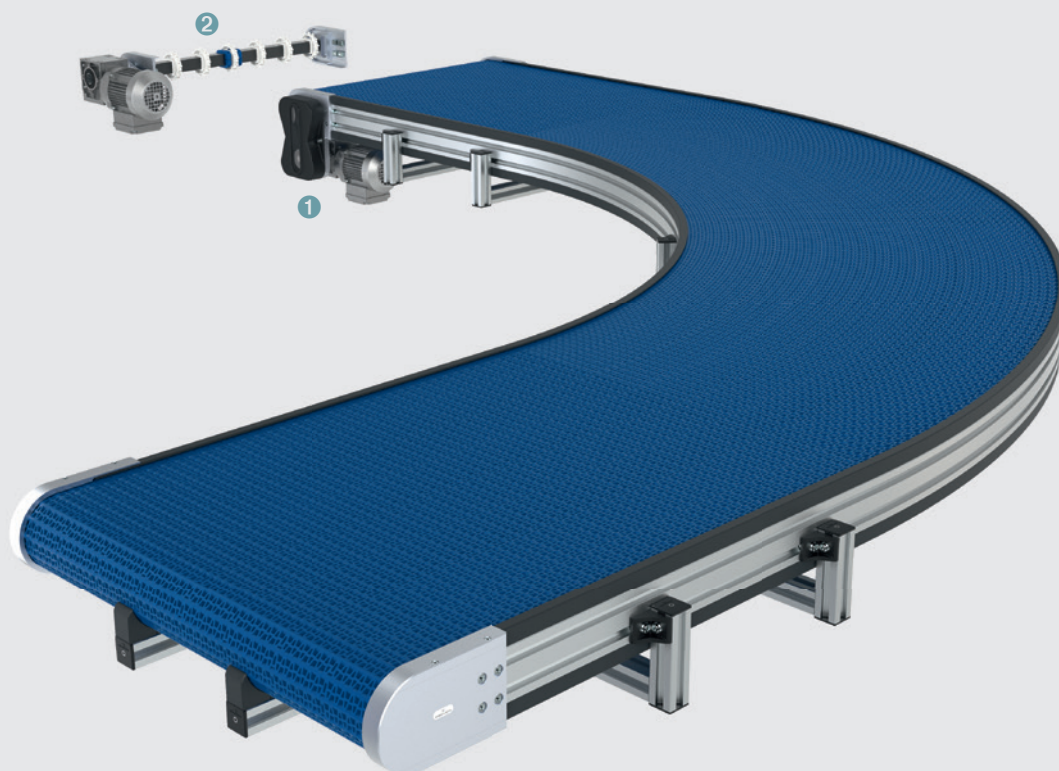
Drawing dimensions in mm

## C8M Straight Modular Belt Conveyor Drive Options



- ① Front end timing belt drive, right (page 26)
- ② Front end direct drive, right (page 27)

## C8M Curved Modular Belt Conveyor Drive Options



- ① Front end timing belt drive, left (page 28)
- ② Front end direct drive, left (page 29)



**Application**

Used for a wide variety of conveying applications

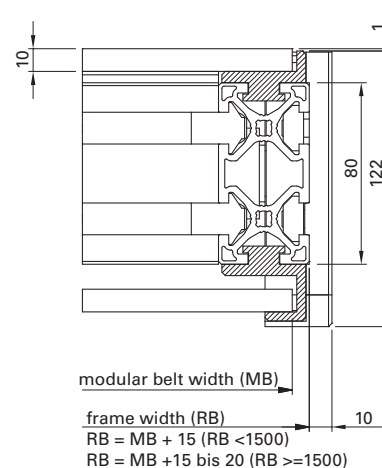
**Technical Data**

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

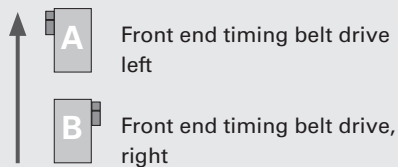
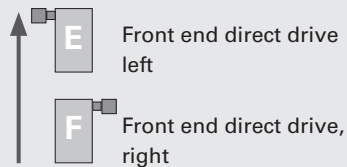
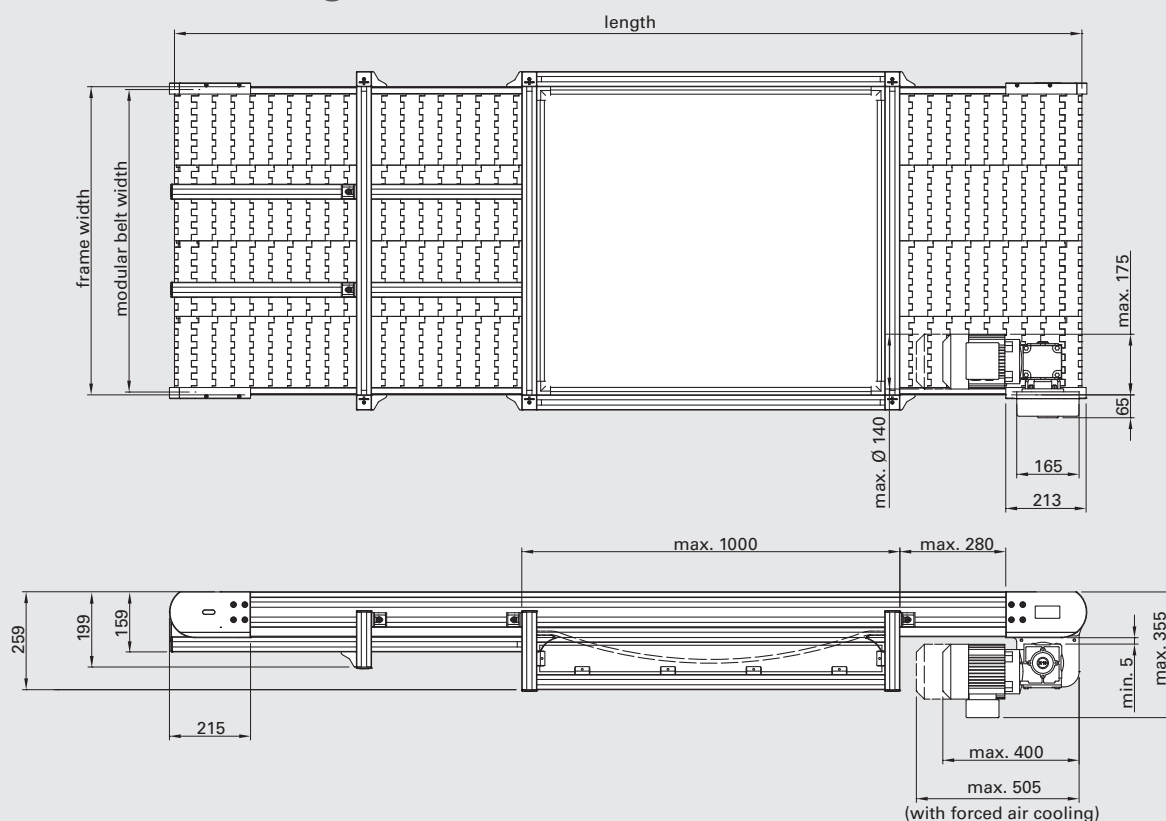
Drive power depending on belt speed  
and load ranging from  
0.25 kW to 0.55 kW  
(208-230/460V; 50/60Hz; IP54)  
Max. total load of material 750 kg  
Modular belt pitch 1 inch

**Modular belt design**

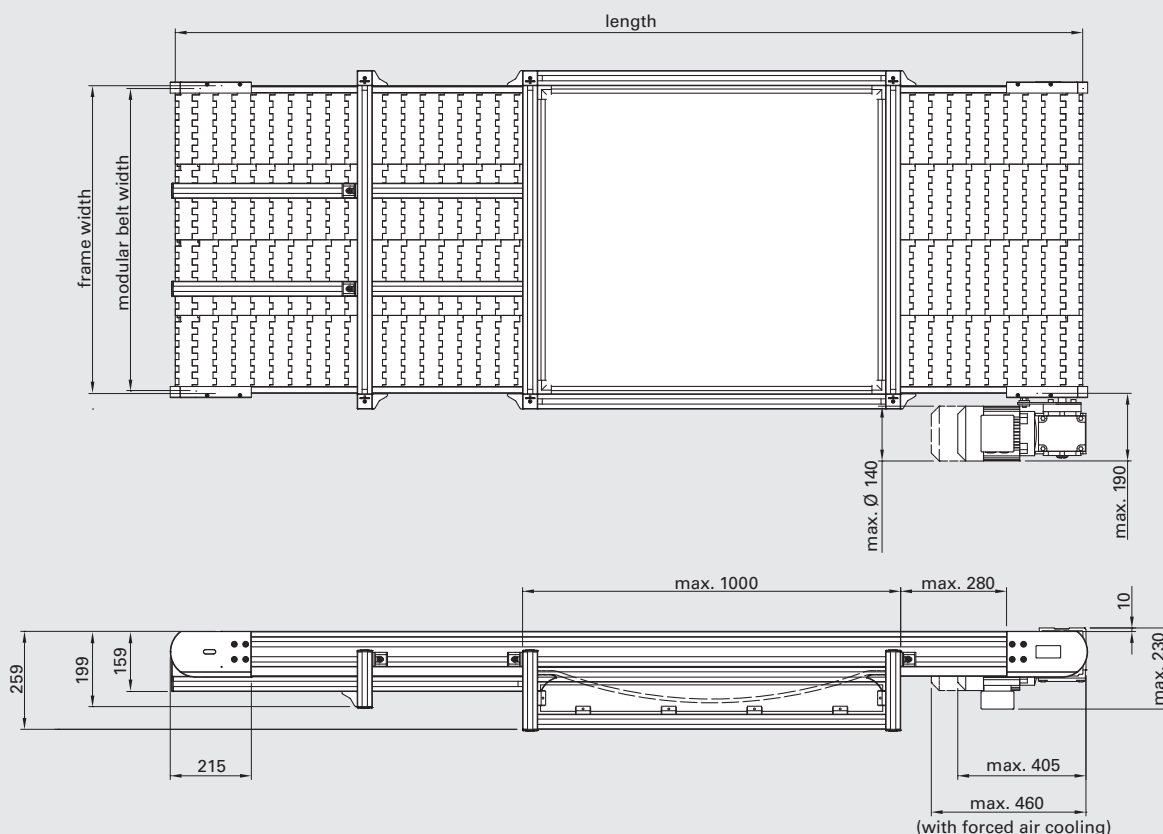
Modular belt open  
Modular belt closed



Side Guides for Modular Belt Conveyors  
see page 50

**Drive Option<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



## Length And Frame Width

Description	Min. length <sup>3</sup>	Max. length <sup>3</sup>	Min. modular belt width <sup>4</sup>	Max. modular belt width <sup>4</sup>
C8M Straight front end timing belt drive	1500 mm	12000 mm	150 mm	2000 mm
C8M Straight front end direct drive	1500 mm	12000 mm	150 mm	2000 mm

## Request For Quote / Order

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 are available upon request
  - 4) Modular belt widths can be ordered ranging from min. 150 mm to max. 2000 mm in steps of 50 mm.
- Drawing dimensions in mm

## C8M

## Curved Modular Belt Conveyors

**Application**

Used for a wide variety of conveying applications

**Technical Data**

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

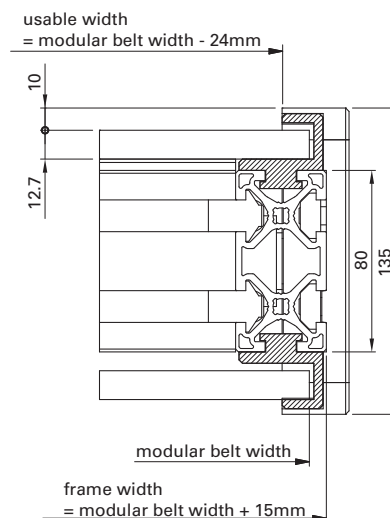
Drive power depending on belt speed  
and load ranging from  
0.25 kW to 0.55 kW  
(208-230/460V; 50/60Hz; IP54)

Maximum load to be conveyed: on  
request

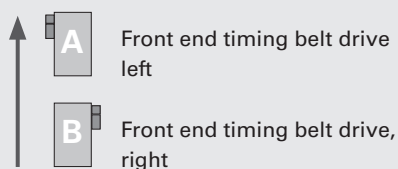
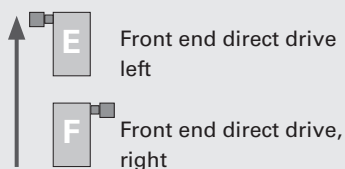
Modular belt pitch 1 inch

**Modular belt design**

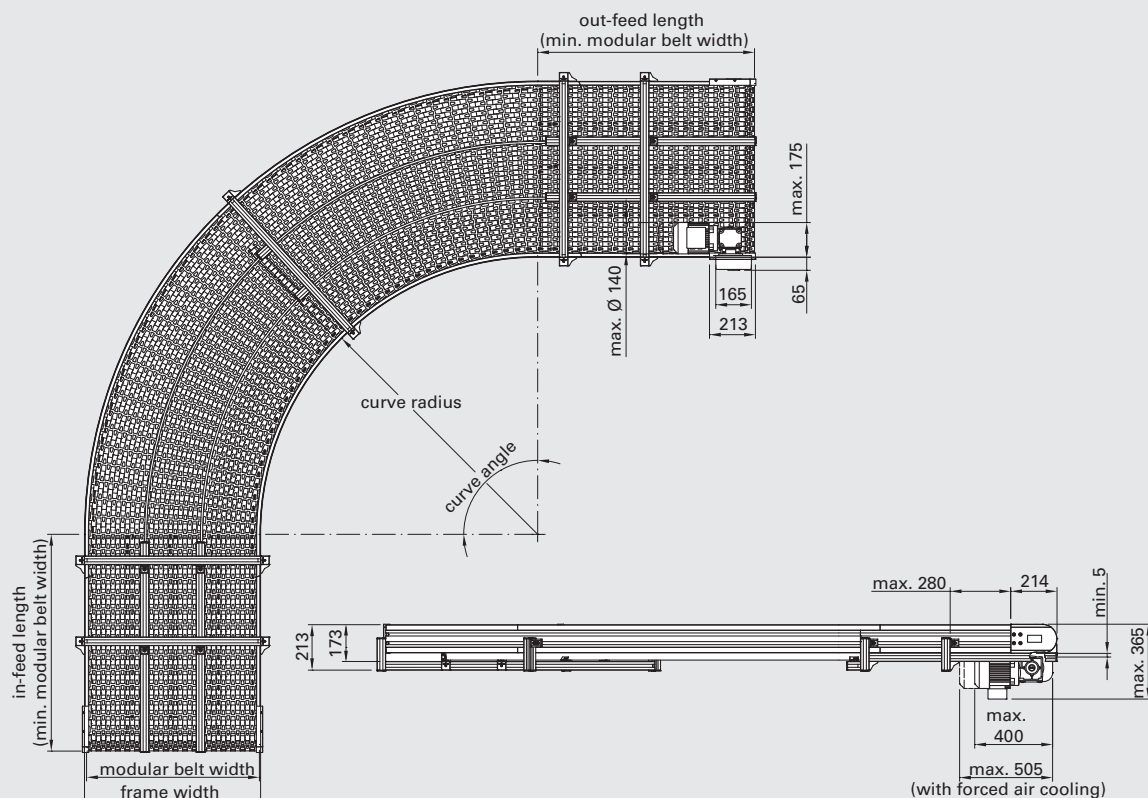
Modular belt open



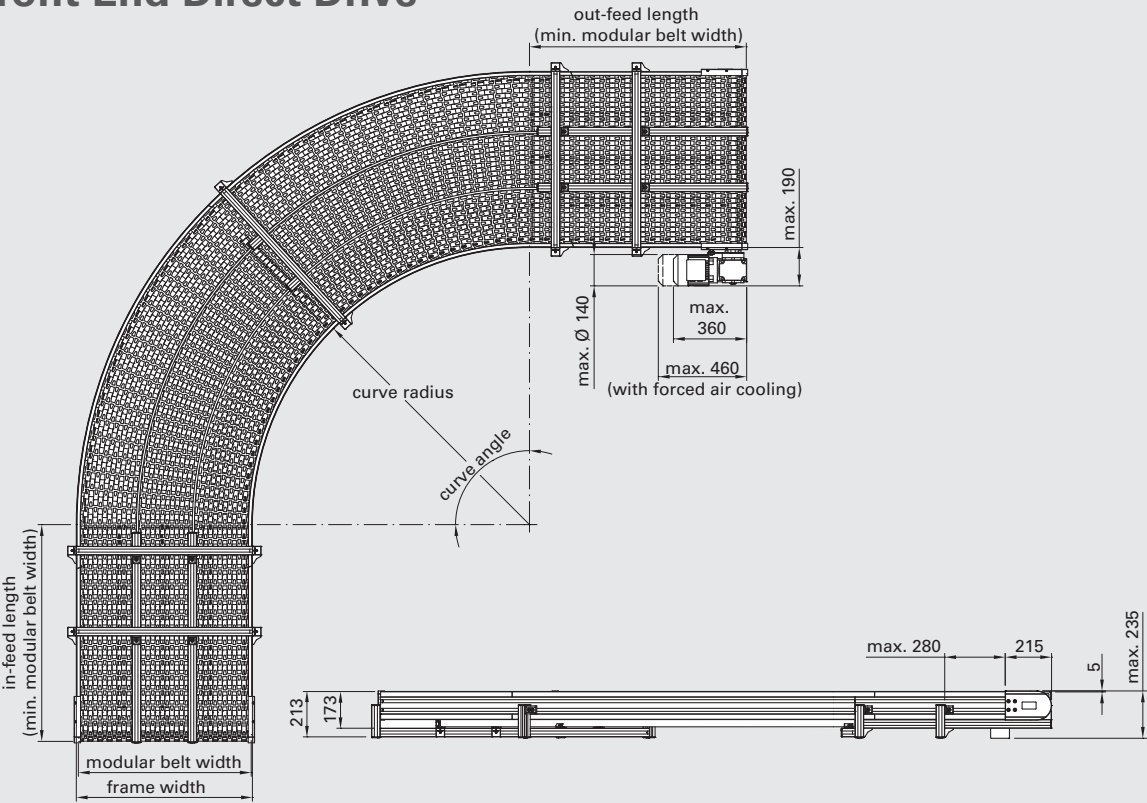
Side Guides for Modular Belt Conveyors  
see page 50

Drive Option<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

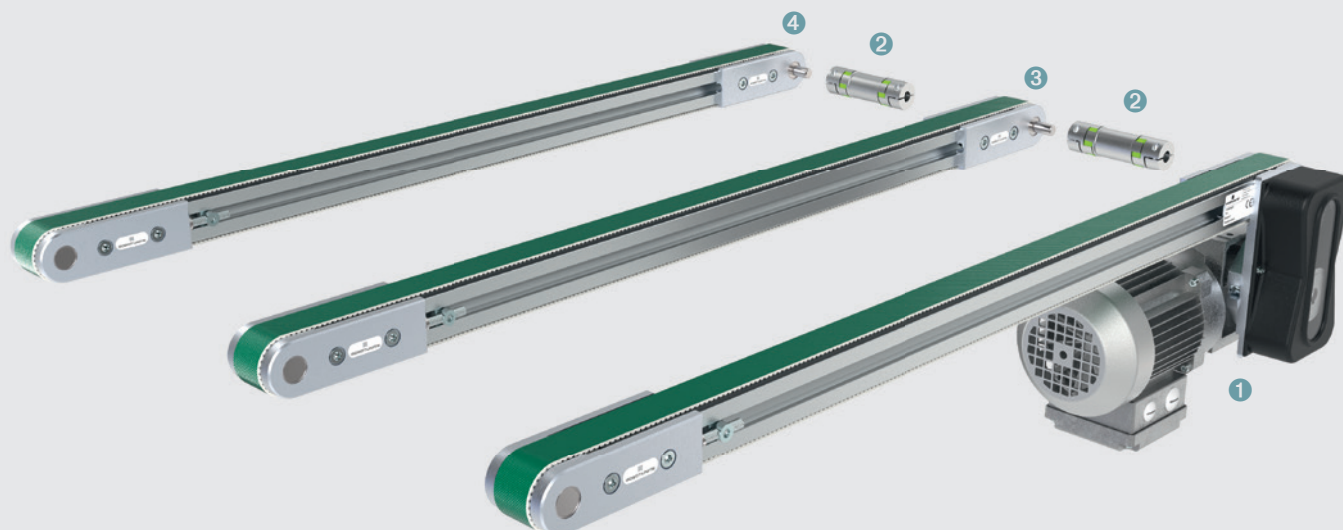
Description	Frame width min. <sup>3</sup>	Frame width max. <sup>3</sup>
C8M Curved front end timing belt drive	215 mm	1215 mm
C8M Curved front end direct drive	215 mm	1215 mm

## Request For Quote / Order

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

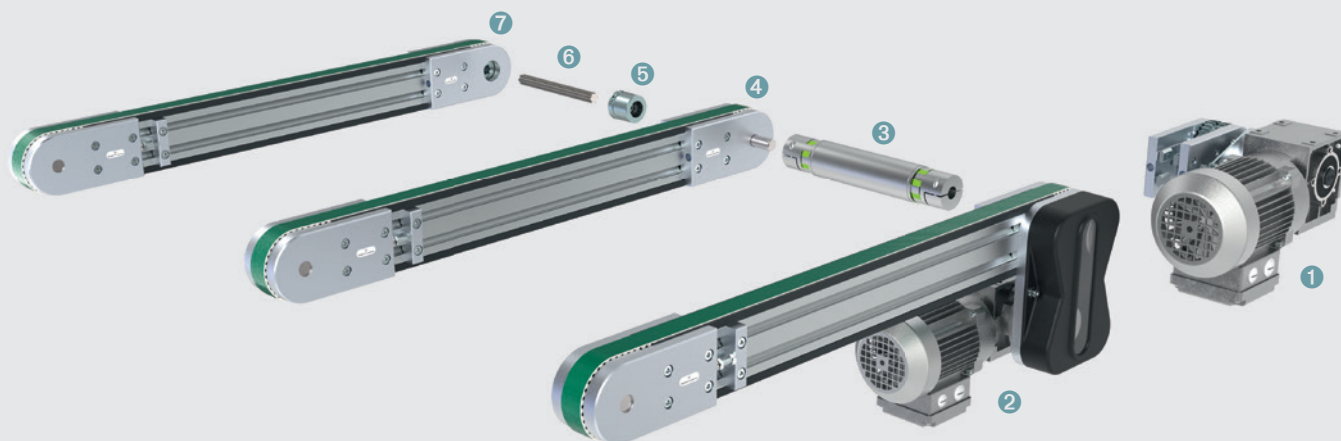
- 1) Only pulling direction is possible
  - 2) Design options on request
  - 3) Frame widths can be ordered ranging from min. 215 mm to max. 1215 mm in steps of 50 mm.
- Drawing dimensions in mm

## C4T Timing Belt Conveyor Drive And Connection Options



- ① Front end timing belt drive, right, with output shaft (page 32)
- ② Connection shaft with coupling COL 5220 (page 175)
- ③ Timing belt lane without motor, output shaft, right (page 32)
- ④ Timing belt lane without motor, with output shaft, right (page 32)

## C8T Timing Belt Conveyor Drive And Connection Options



- ① Front end direct drive, right, with output shaft (page 34)
- ② Front end timing belt drive, right, with output shaft (page 34)
- ③ Connection shaft with coupling COL 5240 (page 175)
- ④ Timing belt lane without motor, with output shaft on both sides (page 34)
- ⑤ Connection Hub COP 4501 (page 142)
- ⑥ Splined Shaft COL 8500 (page 143)
- ⑦ Timing belt lane without motor, with splined shaft hub (page 34)



**Application**

Used for a wide variety of conveying applications

**Technical Data**

Speeds from 3 m/min up to 58 m/min

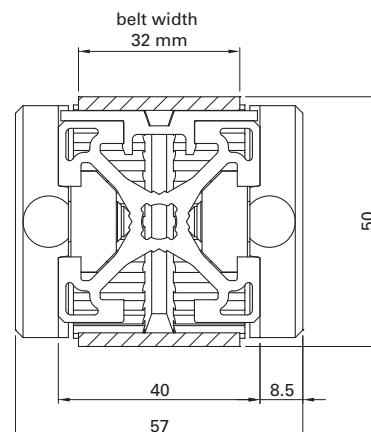
Drive power depending on belt speed and load ranging from 0.12 kW to 0.37 kW  
(208-230/460V; 50/60Hz; IP54)  
Max. total load of material 160 kg

**Pulley**

Number of teeth per pulley = 30  
Pitch circle diameter = 47.75 mm

**Belt Type**

Standard application, cleated for incline transport, accumulation, etc.



Side Guides for Timing Belt Conveyors  
see page 50

## Drive Option<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

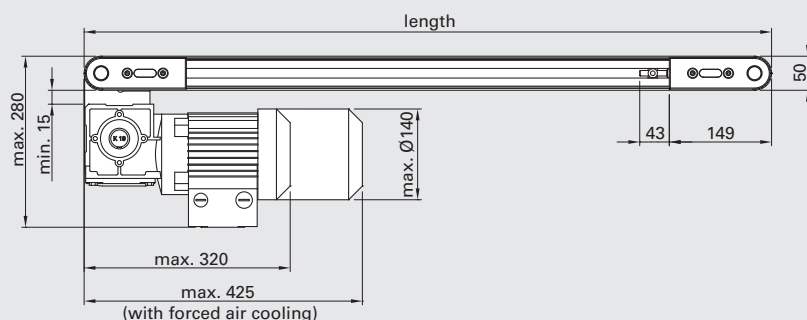
**Front End Timing Belt Drive, Double Lane**

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

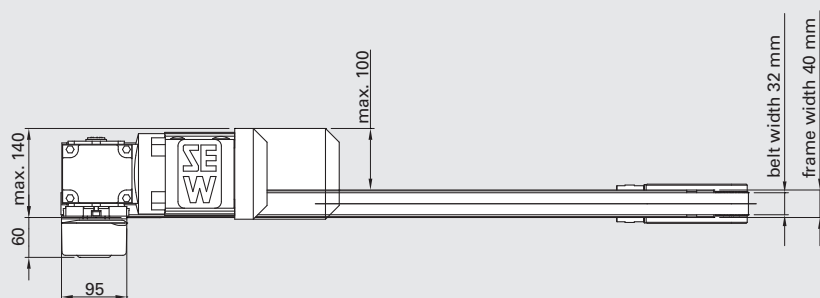
**Front End Timing Belt Drive, Triple Lane**

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

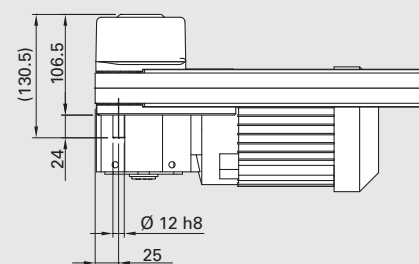
## Front End Timing Belt Drive



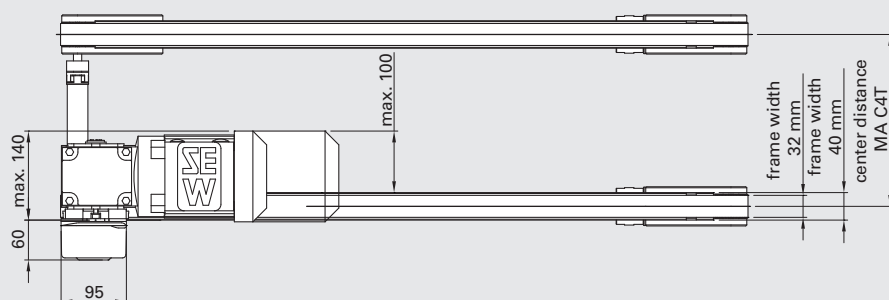
## Front End Timing Belt Drive



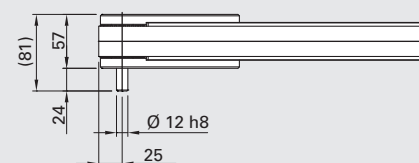
## O/P



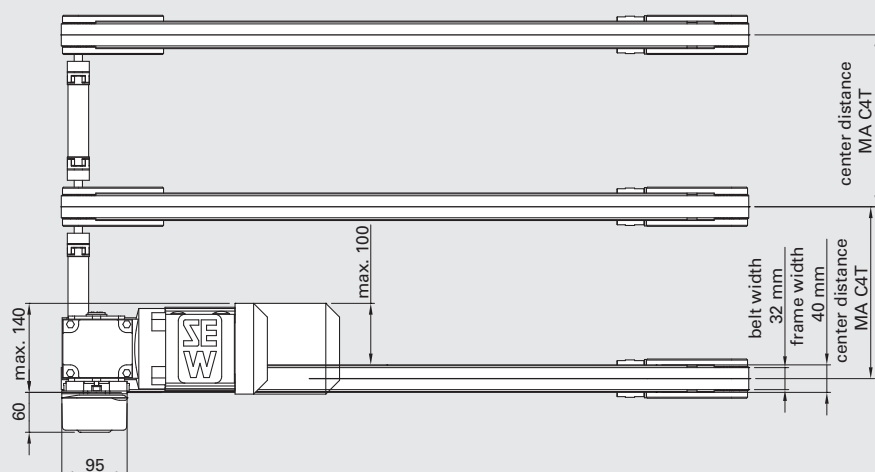
## Front End Timing Belt Drive, Double Lane



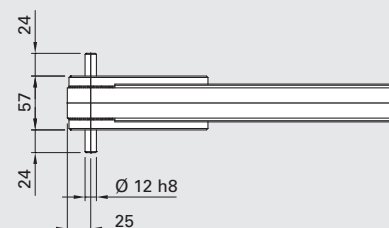
## U/V



## Front End Timing Belt Drive, Triple Lane



## T



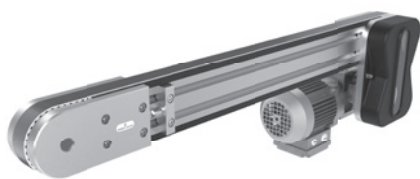
## Length And Frame Width

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.  
Drawing dimensions in mm

**Application**

Used for a wide variety of conveying applications

**Technical Data**

Speeds from 6 m/min up to 66 m/min

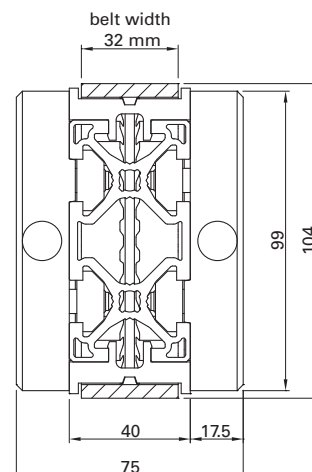
Drive power depending on belt speed and load ranging from 0.25 kW to 0.37 kW  
(208-230/460V; 50/60Hz; IP54)  
Max. total load of material 400 kg

**Pulley**

Number of teeth per pulley = 32  
Pitch circle diameter = 101.85 mm

**Belt Type**

Standard application, cleated for incline transport, accumulation, etc.



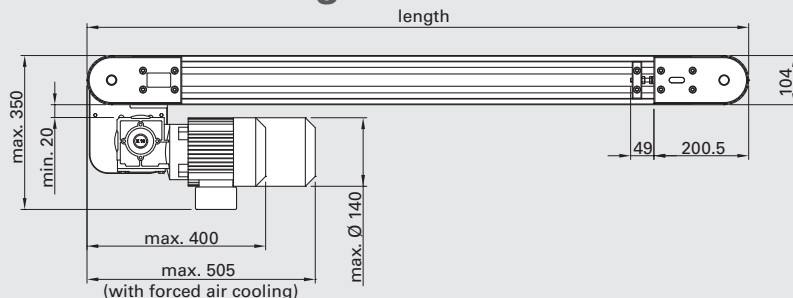
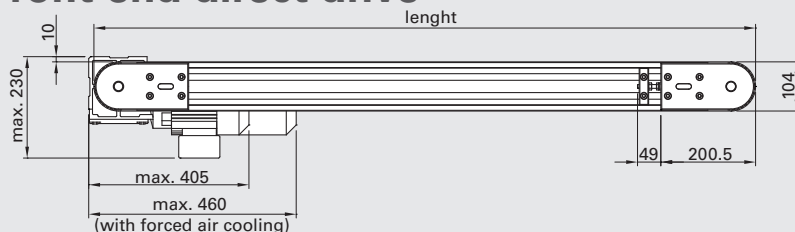
Side Guides for Timing Belt Conveyors see page 50

**Drive Option<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

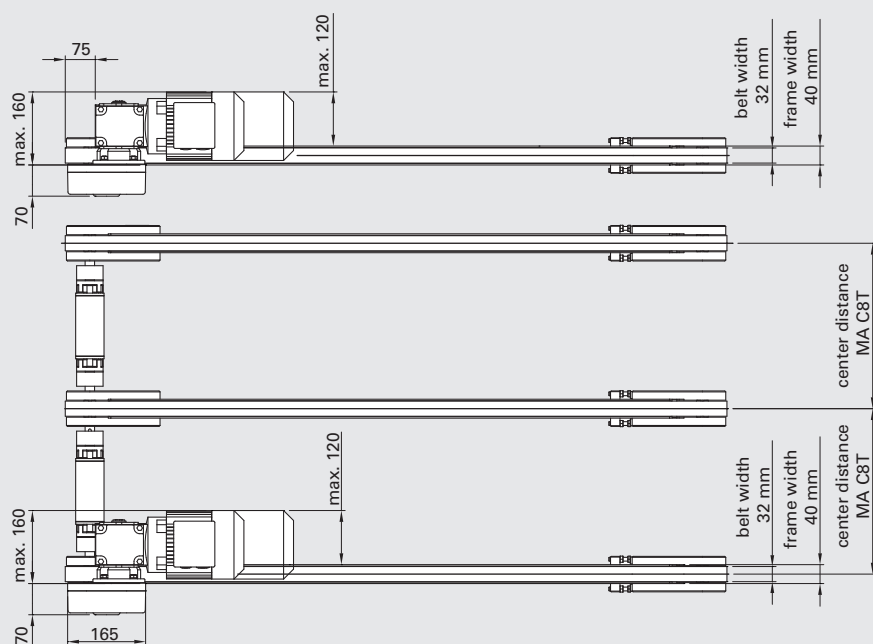
**Timing Belt Lane Without Motor**

- 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

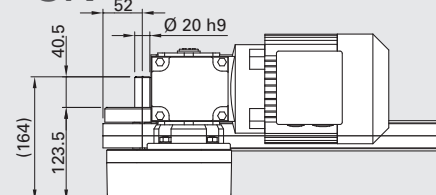
**Timing Belt Lane Without Motor, Adjustable**

- W** Timing belt lane with splined shaft hub

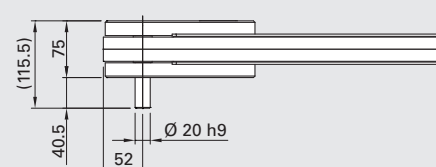
## Front End Timing Belt Drive, Double-, Triple Lane



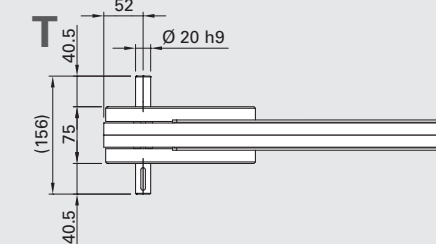
## O/P



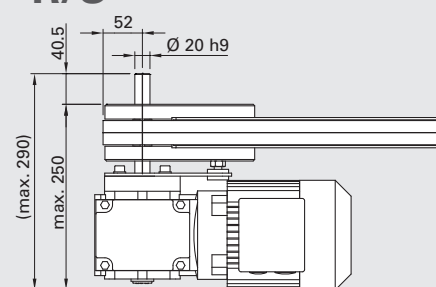
## U/V



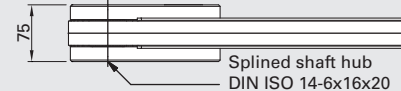
## T



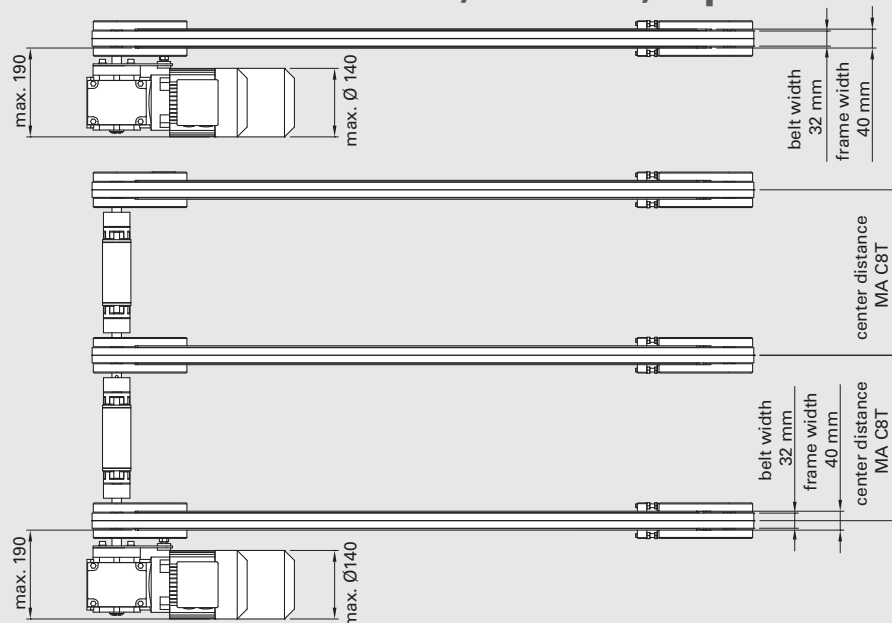
## R/S



## W, adjustable



## Front End Direct Drive, Double-, Triple Lane



## 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.

## C4G

## Stand for C4T

**Application**

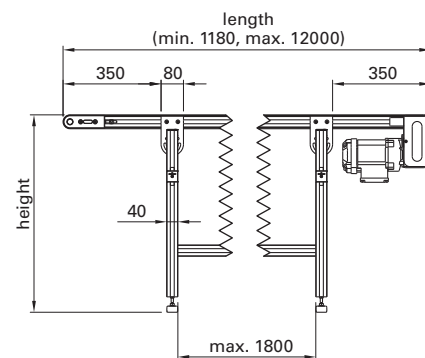
Stand for Timing Belt Conveyor 40

**Technical Data**

Material: clear anodized aluminum;  
galvanized GD-Zn; galvanized steel;  
rubber

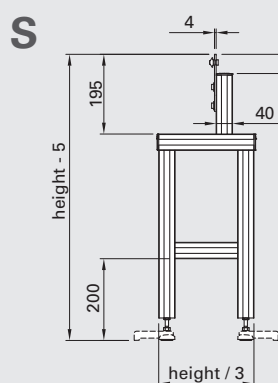
**Scope of Delivery**

Stand segment fully assembled and  
attached to belt conveyor if applicable

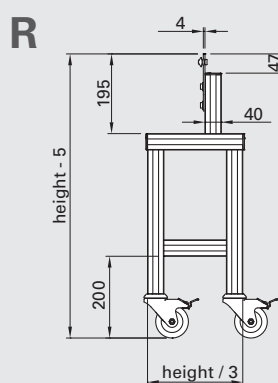


## Stand Types: Single Lane

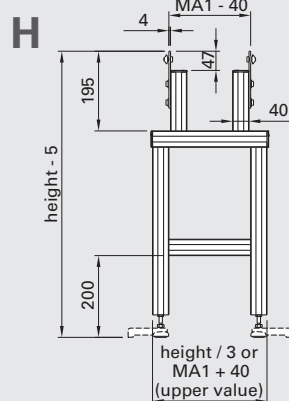
## Stand Types: Double Lanes



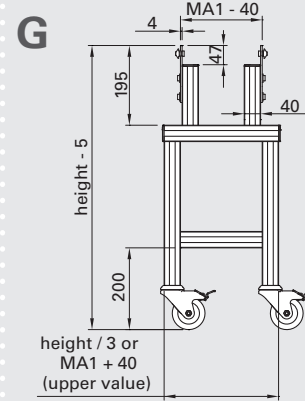
Leveling bases BAS 4008<sup>1</sup>  
Height adjustment  $\pm 20$  mm



Swivel castors with brake  
CAS 3080

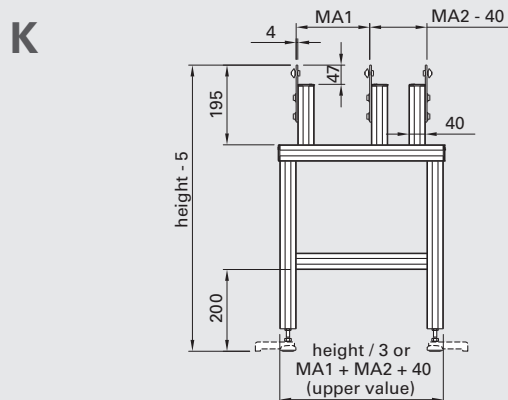


Leveling bases BAS 4008<sup>1</sup>  
Height adjustment  $\pm 20$  mm

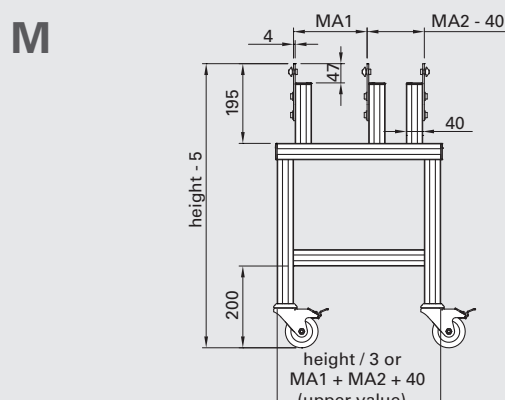


Swivel castors with brake  
CAS 3080

## 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	----	----

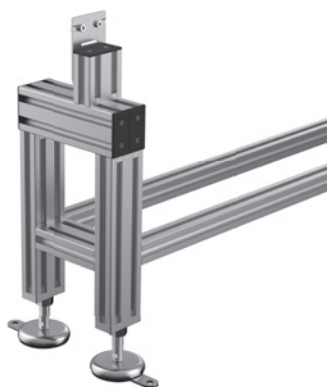
1) Optionally with **Floor Mounting BAP 4500**

2) Please complete the order code by adding the corresponding parameters for order processing.

Drawing dimensions in mm

## C8G

## Stand for C8T

**Application**

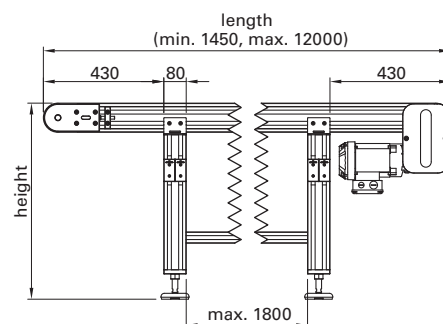
Stand for Timing Belt Conveyor 80

**Technical Data**

Material: clear anodized aluminum;  
galvanized GD-Zn; galvanized steel;  
rubber

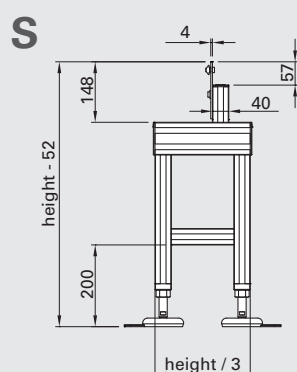
**Scope of Delivery**

Stand segment fully assembled and  
attached to belt conveyor if applicable

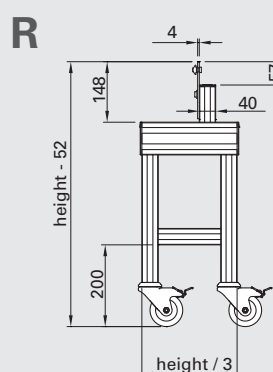


## Stand Types: Single Lane

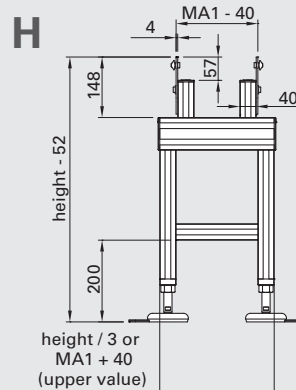
## Stand Types: Double Lanes



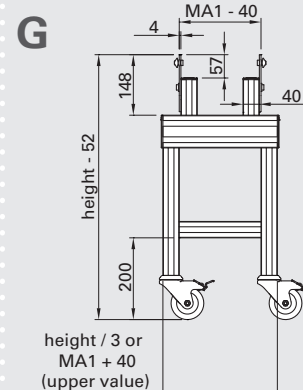
Leveling bases BAS 1120  
Height adjustment  $\pm 30$  mm



Swivel castors with brake  
CAS 3080

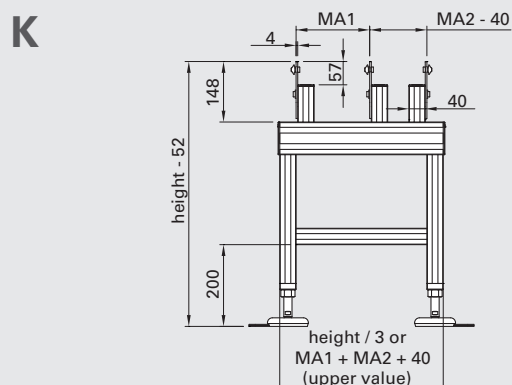


Leveling bases BAS 1120  
Height adjustment  $\pm 30$  mm

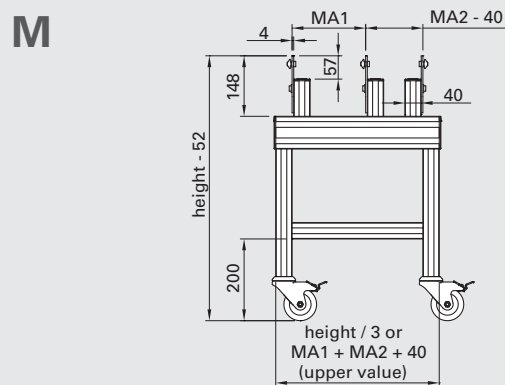


Swivel castors with brake  
CAS 3080

## Stand Types: Triple Lane



Leveling bases BAS 1120  
Height adjustment  $\pm 30$  mm



Swivel castors with brake  
CAS 3080

## Order Code

Description	Order Code <sup>1</sup>				
	Length	Type	Height	MA1	MA2
Stand for C8T	C8G	----	NN	----	----

1) Please complete the order code by adding the corresponding parameters for order processing.

Drawing dimensions in mm



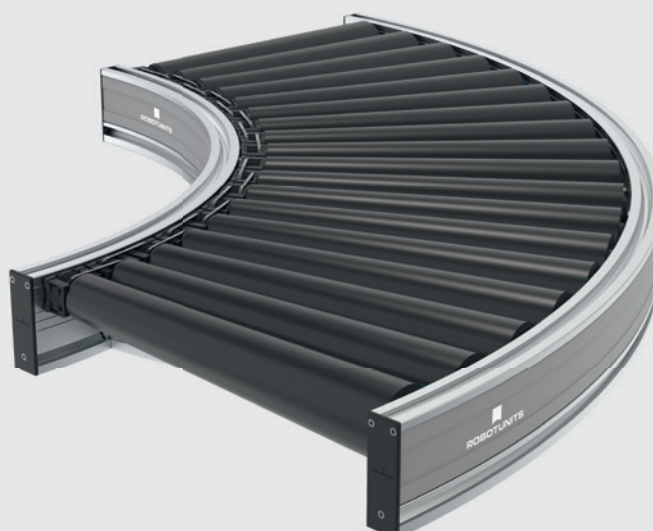
## Powered Roller Conveyor Straight



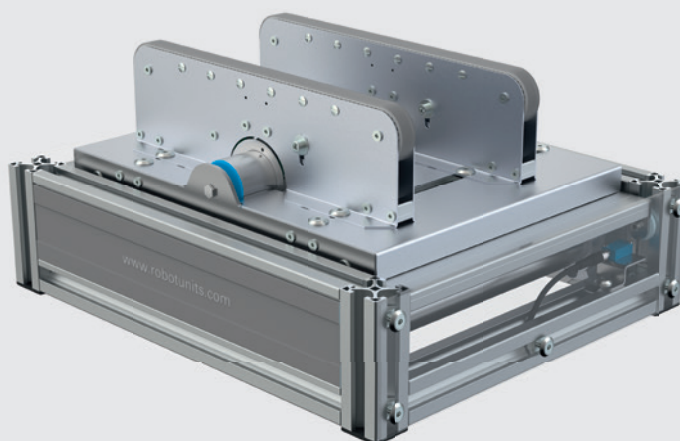
## Powered Roller Conveyor Merge



## Powered Roller Conveyor Curved



## Transfer Unit 90°




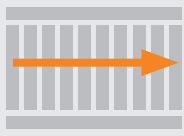


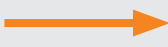
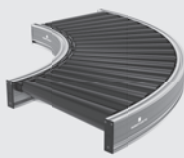

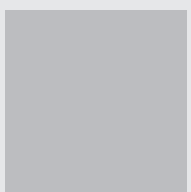






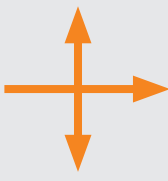
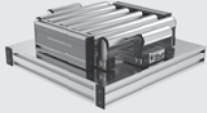



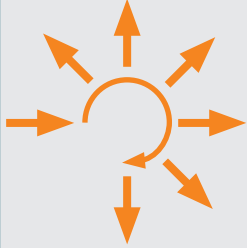

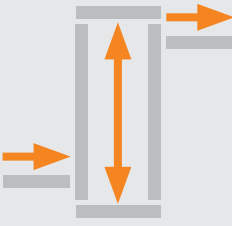


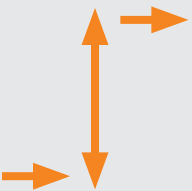
## Turntable



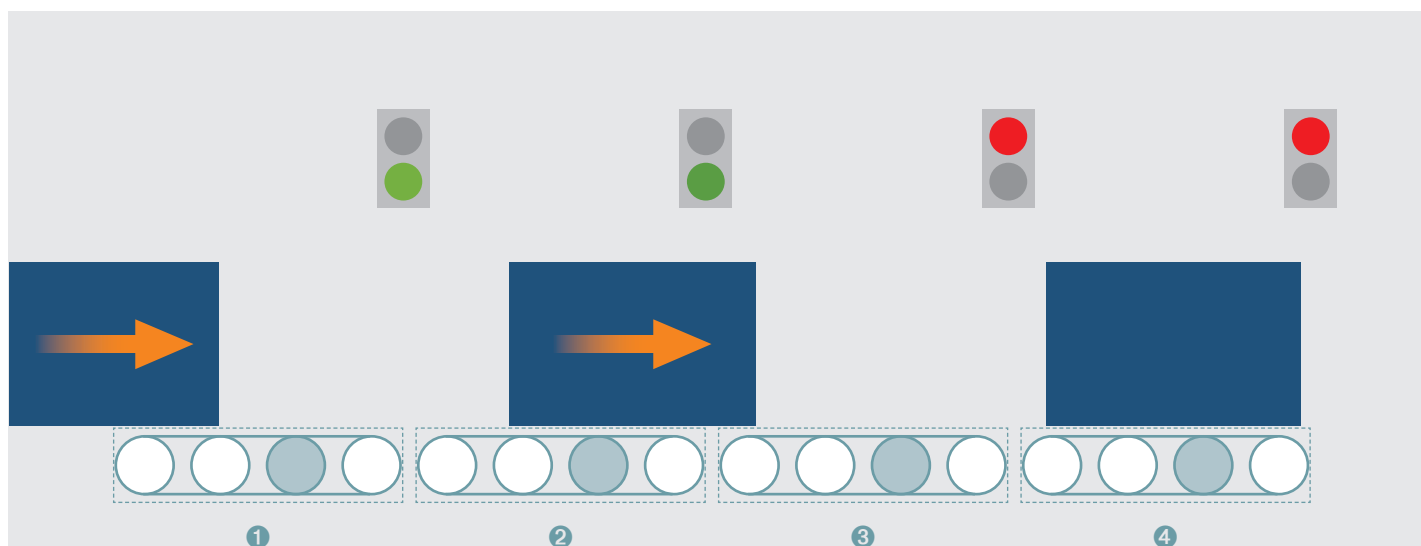
## Lift Station



## Powered Roller Conveyor Modules

Modul	Material alignment Available range Transfer	Space requirement	Output (cycles/h)	Applications
	 0°		 max. 2000	
	 45° / 90°		 max. 2000	
	 0° / ±90°		 max. 1500	
	 0° – 270°		 max. 350	
	 0°		 max. 350	

## Zero Pressure Accumulation

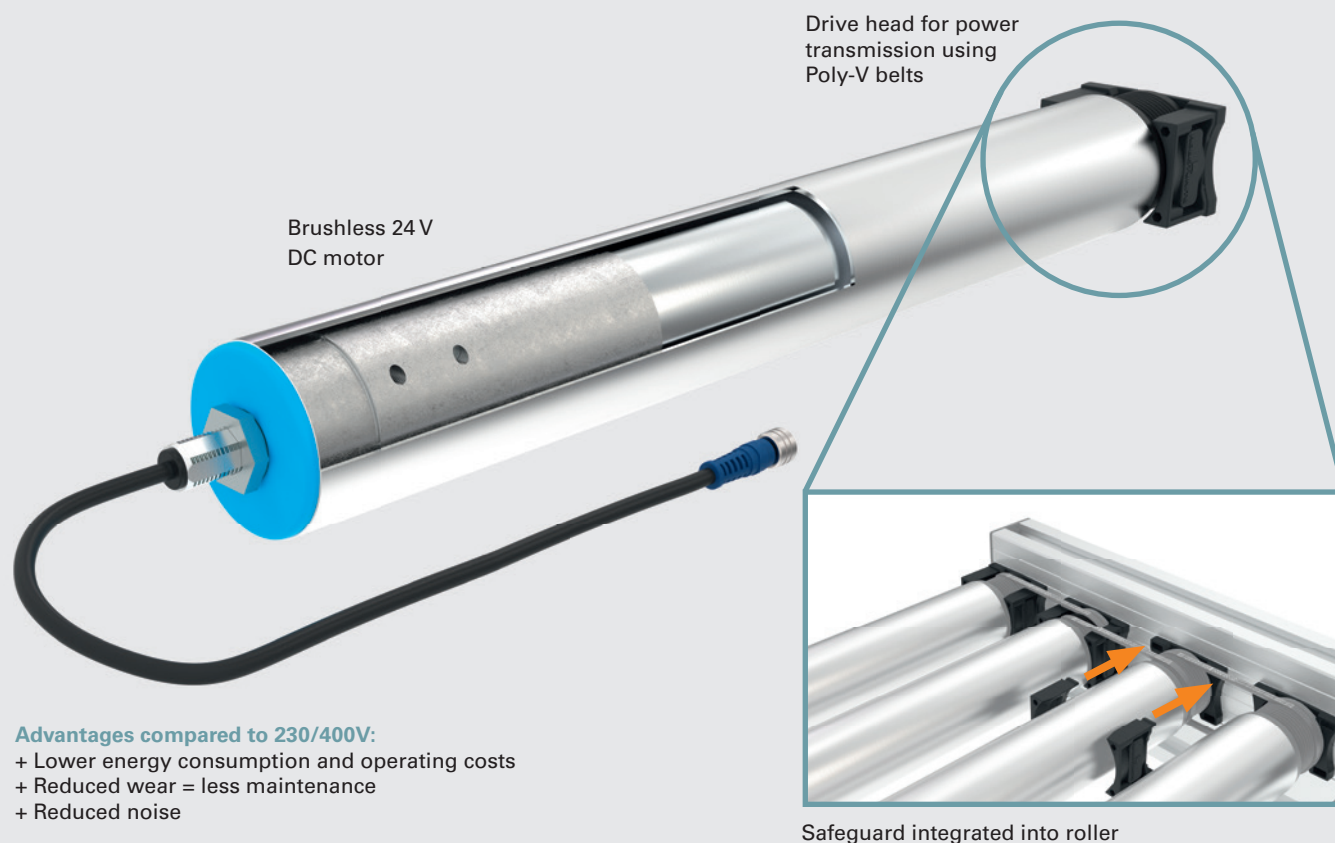


The roller conveyor with zero pressure accumulation logic (ZPA) is divided into individual zones. The different zones are interconnected and communicate with each other. If a transported product is running towards an occupied zone ④, the product remains in the previous free zone ③. When the occupied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

### Advantages

- + "Plug and Play" solution with decentralized controller = no primary control required (e.g. PLC)
- + 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



Side Guides for Powered Roller Conveyors  
see page 51

Supported control protocols:



EtherNet/IP EtherCAT

#### Application

Zero pressure accumulation of products  
in various sizes.

#### Technical Data

Brushless 24 V 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 motorized  
roller: 2.5 A

Ø 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. product load: 50 kg

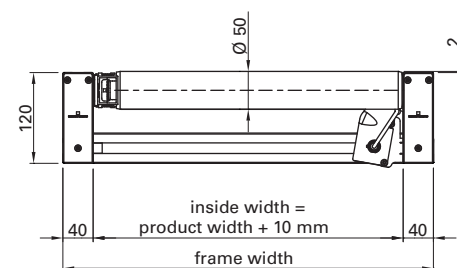
#### Control Unit:

Completely pre-installed incl. sensors

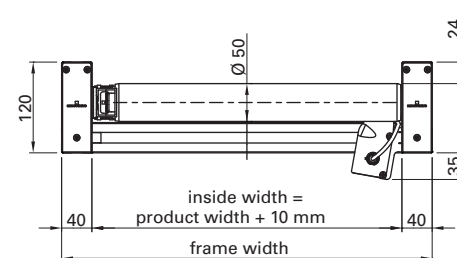
#### Configuration:

Zero pressure accumulation control logic  
(not with EtherCAT)

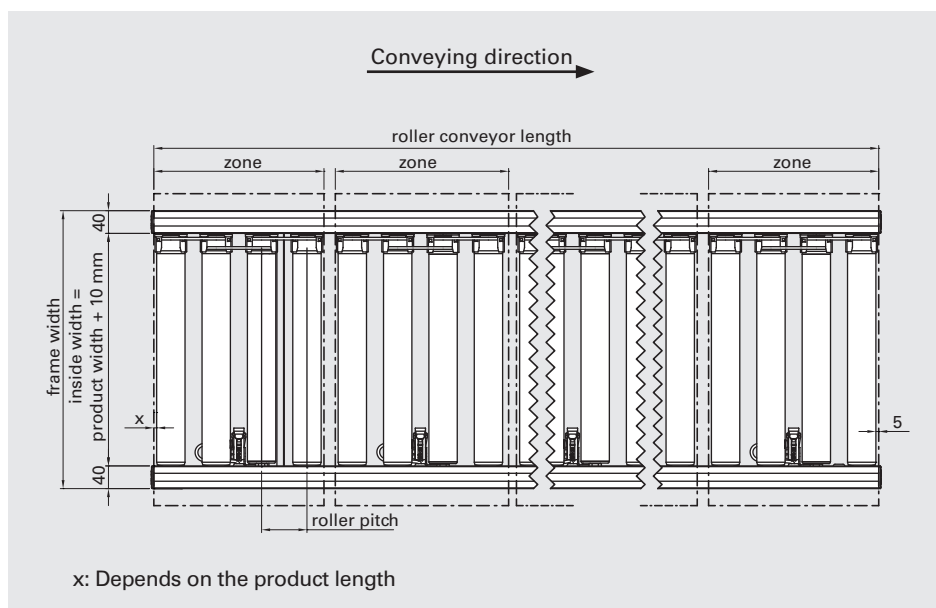
#### Option without side guides



#### Option with side guides

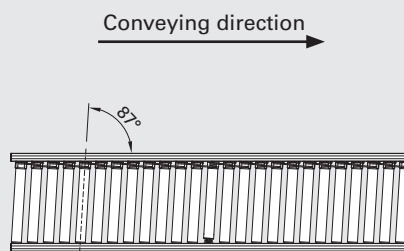


## Dimensions



## Variante

#### Angled Powered Roller Conveyor



## Standard Dimensions

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

Special widths (min. inside width 310 mm, max. inside width 1210 mm), special lengths and special roller pitch are available on request.  
Guide line for roller pitch calculation = product length in conveying direction / 3.75

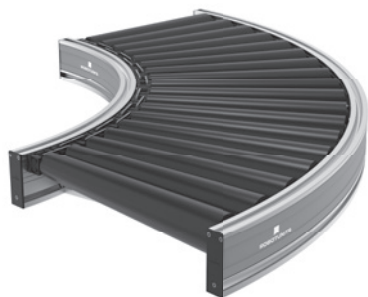
Drawing dimensions in mm





## R5C

## Powered Roller Conveyor Curved



Side Guides for Powered Roller Conveyors  
see page 51

Supported control protocols:



EtherNet/IP EtherCAT

### Application

Zero pressure accumulation of products in various sizes.

### Technical Data

Brushless 24 V 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 motorized roller: 2.5 A

Ø Continuous current per motor roller: 1.5 A

Conveyor rollers driven by Poly-V belts

Roller material: galvanized steel,  
conical plastic attachments

Belt material: Chloroprene with PA  
tension members

Frame material: clear anodized aluminum

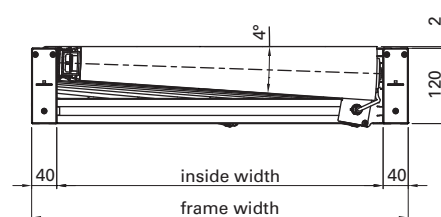
Max. product load: 50 kg

### Control Unit:

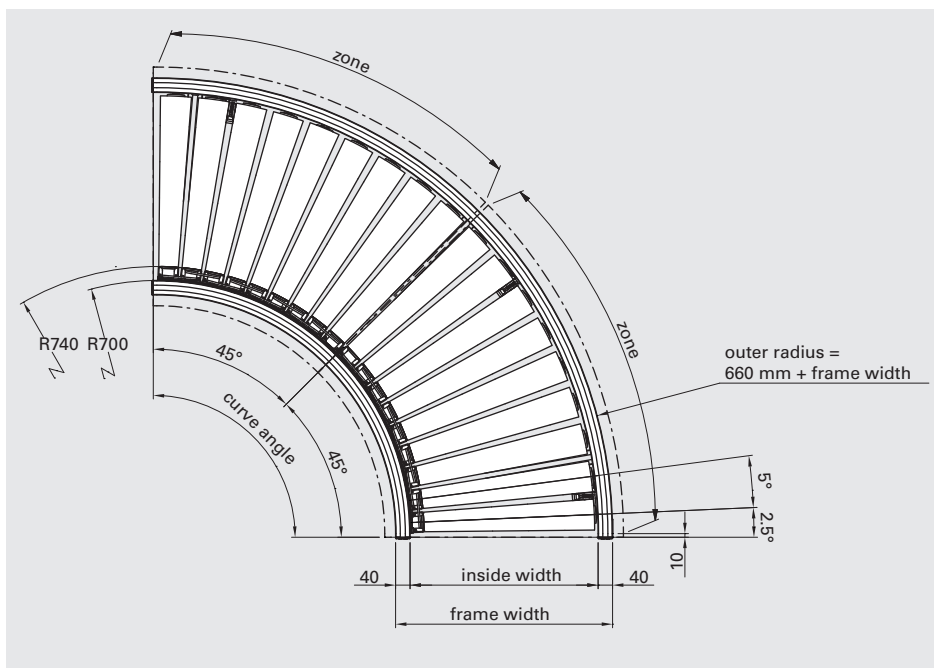
Completely pre-installed incl. sensors

### Configuration:

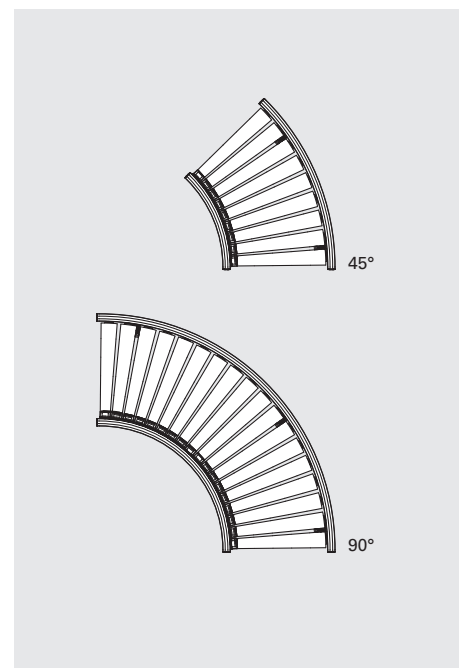
Zero pressure accumulation control logic  
(not with EtherCAT)



## Dimensions



## Standard Angles



The inside width depends on the dimensions of the transported product. Inside width min. 310 mm, inside width max. 1040 mm  
Special curve angles are available on request.

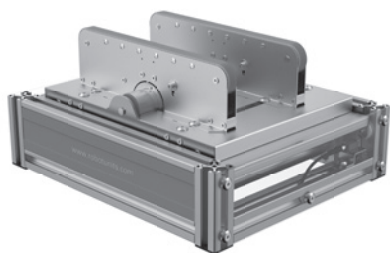
## Request For Quote / Order

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

Drawing dimensions in mm

## R5T

## Transfer Unit 90°



Side Guides for Powered Roller Conveyors  
see page 51

Supported control protocols:



EtherNet/IP EtherCAT

**Application**

90 degree transfer of products in various sizes. It can be integrated into any zone of a Powered Roller Conveyor Straight.

**Technical Data**

Motor: 24 V DC motor for lift motion with a temperature range from +2°C to +40°C  
Max. Continuous current per motorized roller: 3.5 A

Roller material: galvanized steel

Timing belt material: PU

Time for Stroke: 0.5 s

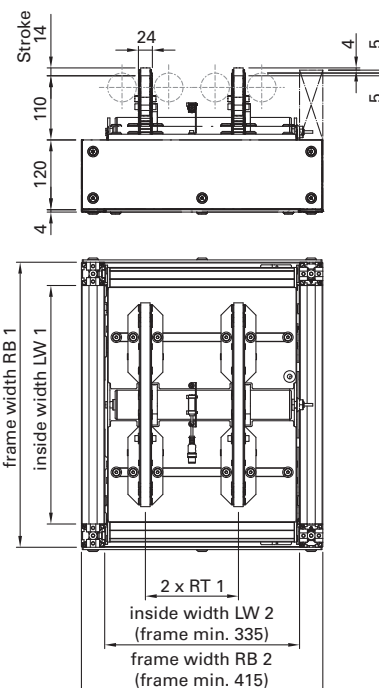
Max. product load: 50 kg

**Control unit:**

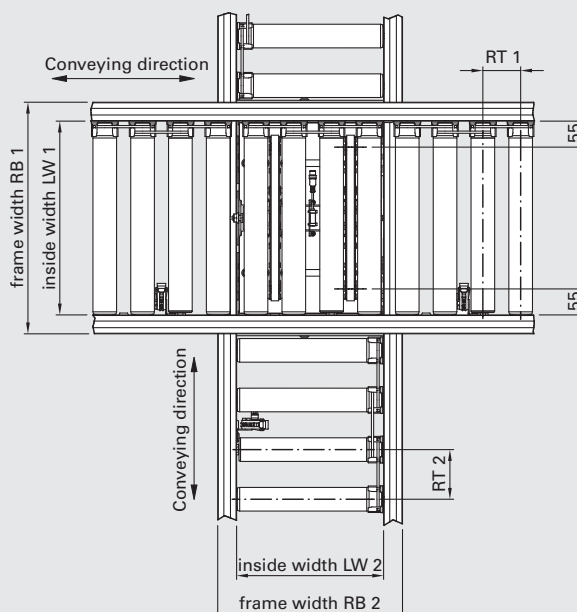
Completely pre-installed incl. sensors

**Configuration:**

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



## Dimensions



## Standard Dimensions

Description	Box (LxB)	Powered Roller Conveyor with Transfer Unit 90°			In-feed or out-feed Powered Roller Conveyor		
		LW 1	RB 1	RT 1	LW 2	RB 2	RT 2
Transfer Unit 90°	400 x 300 mm	310 mm	390 mm	105 mm	410 mm	490 mm	80 mm
Transfer Unit 90°	300 x 400 mm	410 mm	490 mm	80 mm	310 mm	390 mm	105 mm
Transfer Unit 90°	600 x 400 mm	410 mm	490 mm	160 mm	610 mm	690 mm	105 mm
Transfer Unit 90°	400 x 600 mm	610 mm	690 mm	105 mm	410 mm	490 mm	160 mm

Special dimensions are available on request.

Drawing dimensions in mm



Side Guides for Powered Roller Conveyors  
see page 51

Supported control protocols:



EtherNet/IP EtherCAT

#### Application

Correctly positioned turning of products  
in various sizes

#### Technical Data

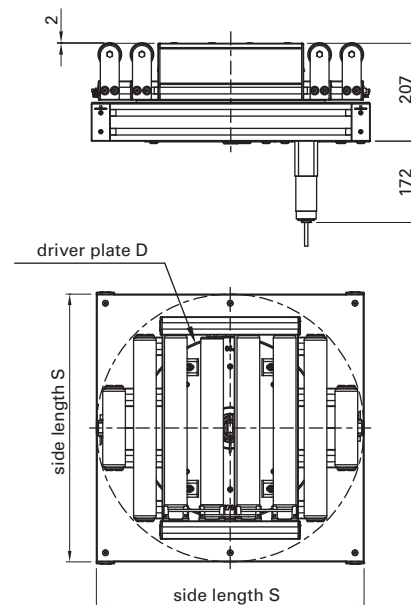
Brushless 24 V DC motor for lift and belt  
Temperature range from +2°C to +40°C  
Max. Continuous current per motorized  
roller: 2.5 A  
Turning range: 0° – 270°  
Cycle time for 90°: 2.5 s  
Max. product load: 50 kg

#### Control unit:

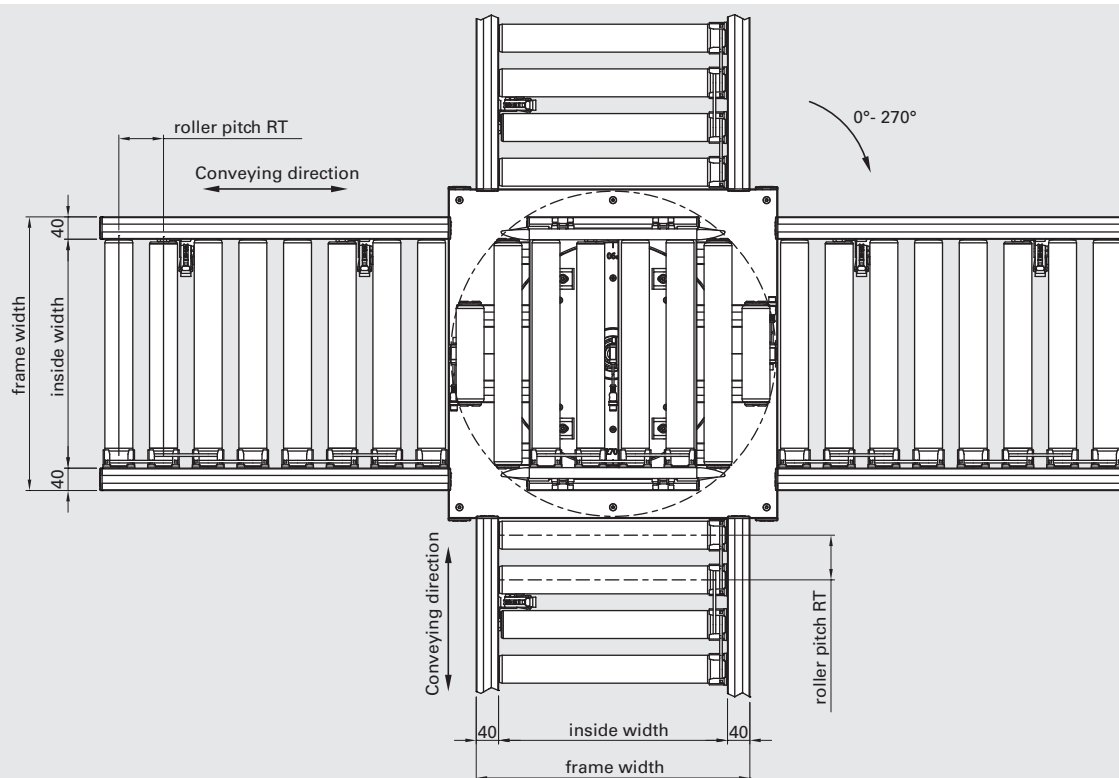
Completely pre-installed incl. sensors

#### Configuration:

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



## Dimensions



## Standard Dimensions

Description	Box (LxW)	Roller Conveyor on the Turntable			Turntable	
		Inside width	Frame width	Roller pitch	Side length S	Carriage 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.

Drawing dimensions in mm

## R5L

## Lift Station With Powered Roller Conveyor

**Application**

Zero pressure accumulation conveying over 2 levels of conveyed goods in different sizes

**Technical Data**

Lift station with three-phase geared motor 400V  
 Speed max. 1 m/s  
 Acceleration max. 0,7 m/s<sup>2</sup>  
 Roller conveyor with brushless 24V DC motor  
 Speeds from 10 to 28 m/min  
 Temperature range from + 2°C bis + 40°C  
 Frame material: clear anodized aluminum  
 Enclosure with polycarbonate panels, optional with safety tunnel and door

**Control Unit:**

Completely pre-installed incl. sensors and control cabinet

**Configuration:**

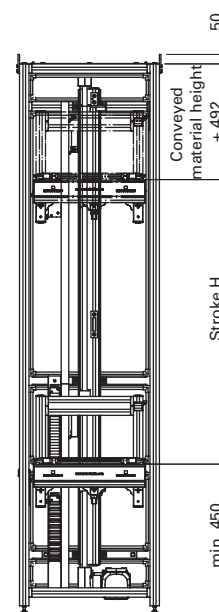
Zero pressure accumulation control logic with downstream roller conveyor (not with EtherCAT)

Side Guides for Powered Roller Conveyors see page 51

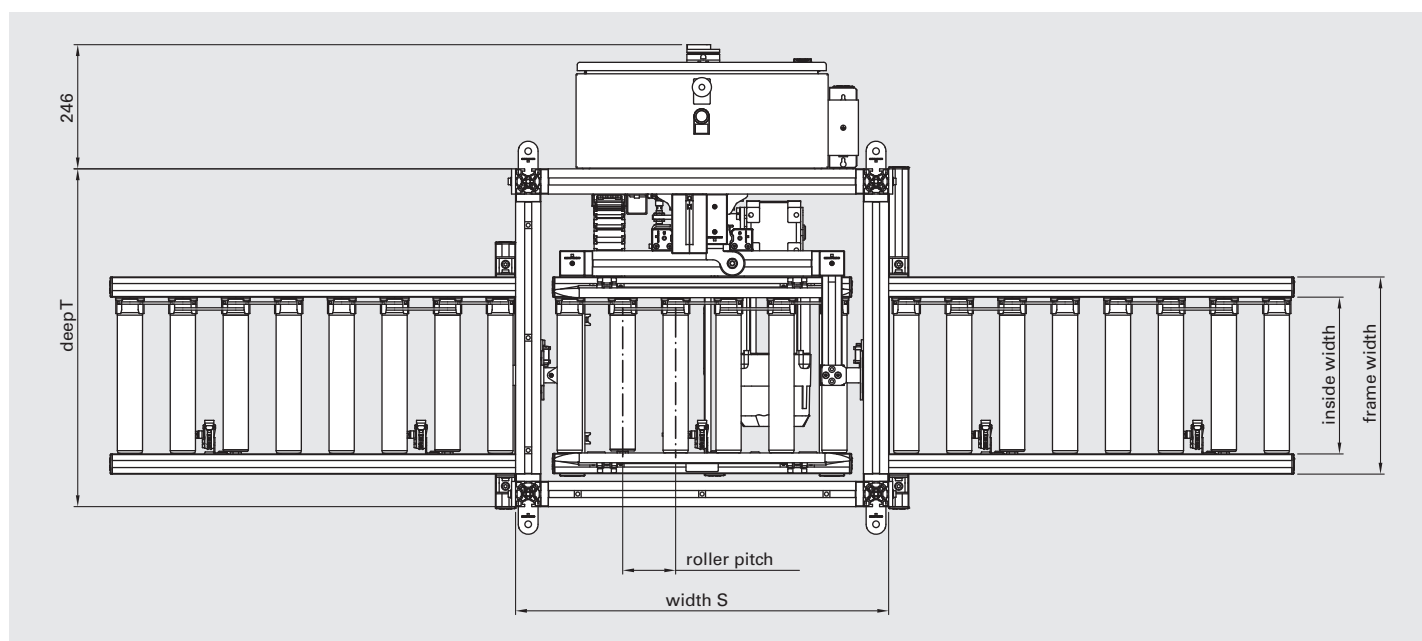
Supported control protocols:



EtherNet/IP EtherCAT



## Dimensions



## Standard Dimensions

Description	Box (LxW)	Roller Conveyor with Lift Station			Lift Station	
		Inside width	Frame width	Roller pitch	Base area (SxT)	Max. Hub h
Lifter Station with Powered Roller Conveyor	400 x 300 mm	310 mm	390 mm	105 mm	740 x 670 mm	5000 mm
Lifter Station with Powered Roller Conveyor	300 x 400 mm	410 mm	490 mm	80 mm	755 x 770 mm	5000 mm
Lifter Station with Powered Roller Conveyor	600 x 400 mm	410 mm	490 mm	160 mm	1015 x 770 mm	5000 mm
Lifter 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.

Drawing dimensions in mm

R5F

Stand for R5S



Application

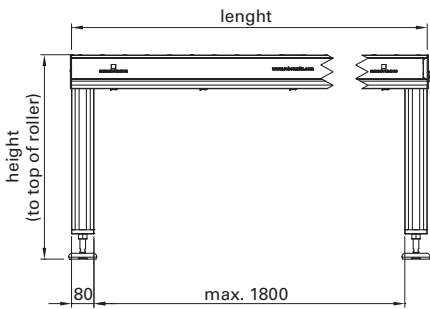
Stand for Powered Roller Conveyor  
Straight

Technical Data

Material: clear anodized aluminum,  
galvanized GD-Zn, galvanized steel,  
PA 6 or rubber

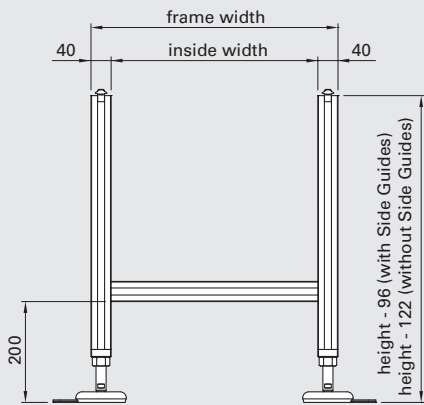
Scope of Delivery

Stand segment fully assembled



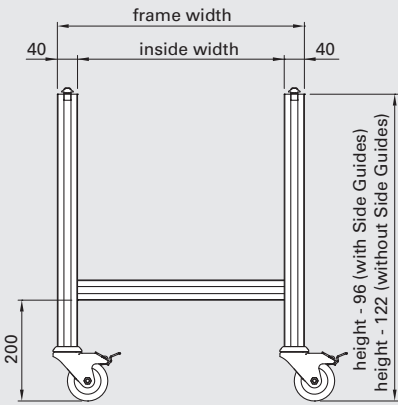
Standard Conveyor Stand

S



Leveling bases BAS 1120  
Height adjustment  $\pm 30$  mm

R



Swivel Castors with brake  
CAS 3080

Order Code

Description	Order Code <sup>1</sup>		
	Frame width	Type	Height
Stand for R5S	R5F	____	_ NN ____

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

R5G

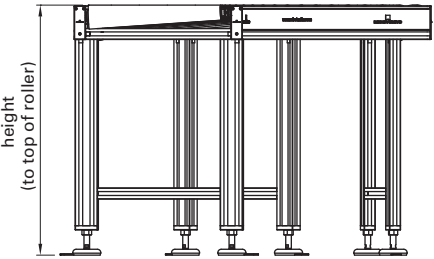
Stand for R5C



**Application**  
Stand for Powered Roller Conveyor  
Curved

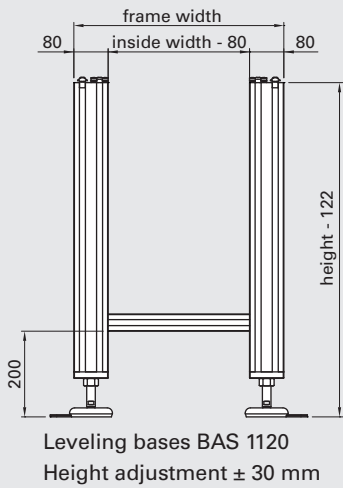
**Technical Data**  
Material: clear anodized aluminum,  
galvanized GD-Zn, galvanized steel,  
PA 6 or rubber

**Scope of Delivery**  
Stand segment fully assembled

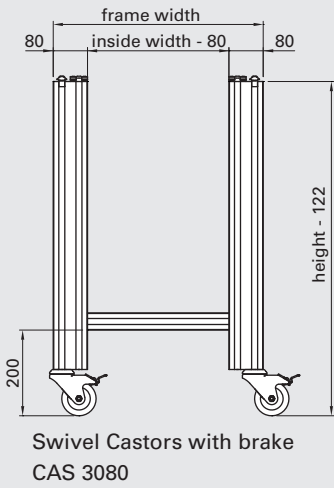


Standard Conveyor Stand

S



R



Order Code

Description	Order Code <sup>1</sup>		
	Frame width	Type	Height
Stand for R5C	R5G	__ NN	__ __ __

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

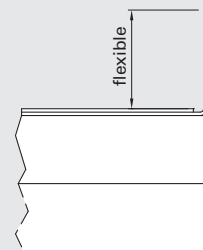


## Side Guide System for Belt, Timing Belt and Modular Belt Conveyors

Belt Conveyor (integrated)



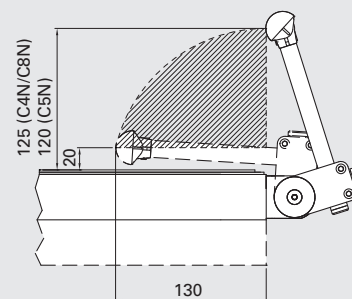
see catalogue  
page 16 (C4N)  
page 18 (C5N)  
page 20 (C8N)



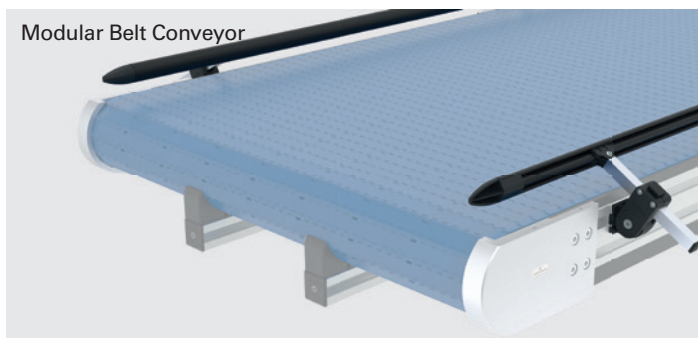
Belt Conveyor



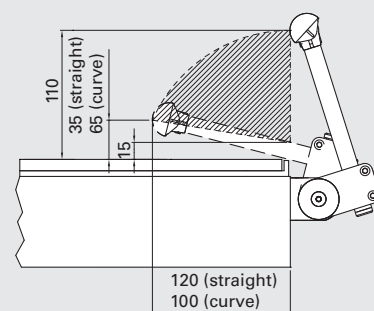
Guide range with  
standard square  
tube length:  
150 mm  
(special length  
possible)



Modular Belt Conveyor



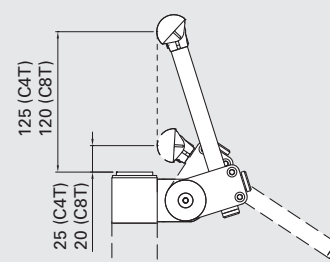
Guide range with  
standard square  
tube length:  
150 mm  
(special length  
possible)



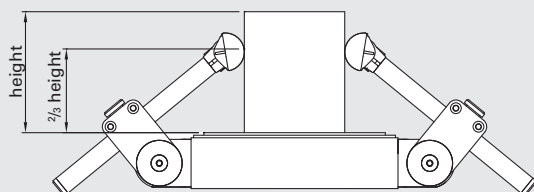
Timing Belt Conveyor



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



## Construction



Recommended height for side guide



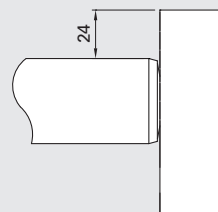
Adjustment range side guide

## Side Guide System for Powered Roller Conveyors

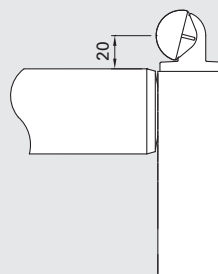
Integrated (only with Powered Roller Conveyor Straight)



see catalogue  
page 42



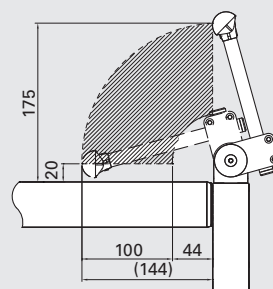
Rigid



Flexible, with overhang



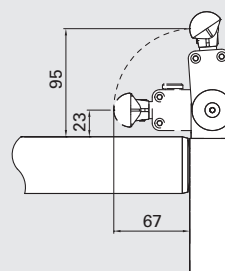
Guide range with  
standard square  
tube length:  
150 mm  
(special length  
possible)



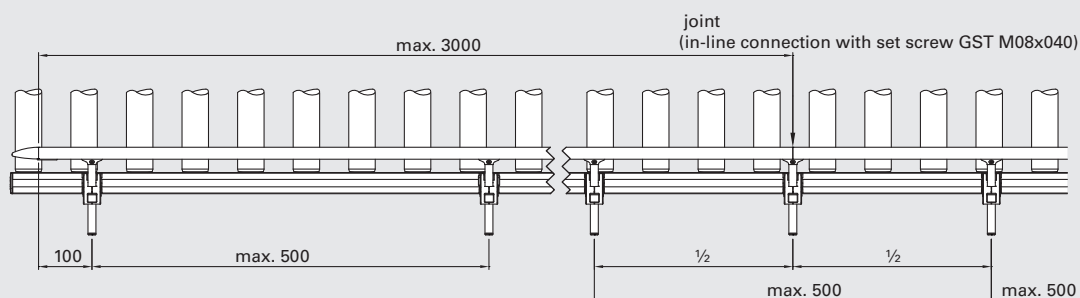
Flexible, without overhang



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



## Assembly



Divide side guide base or clip evenly.  
Attention: Do not exceed maximum distances!

# COP 4561

# Side Guide Base

## Application

For individual positioning of side guides

## Technical Data

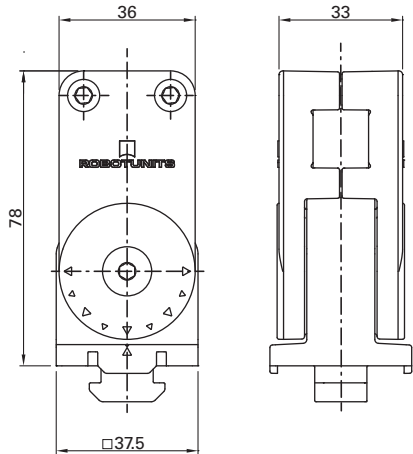
Material:  
 Basic part: PA6 black  
 Brackets: PA6 GF30 black  
 End cap: 18x18 PE-LLD  
 Hardware material: Galvanized steel

## Scope of Delivery

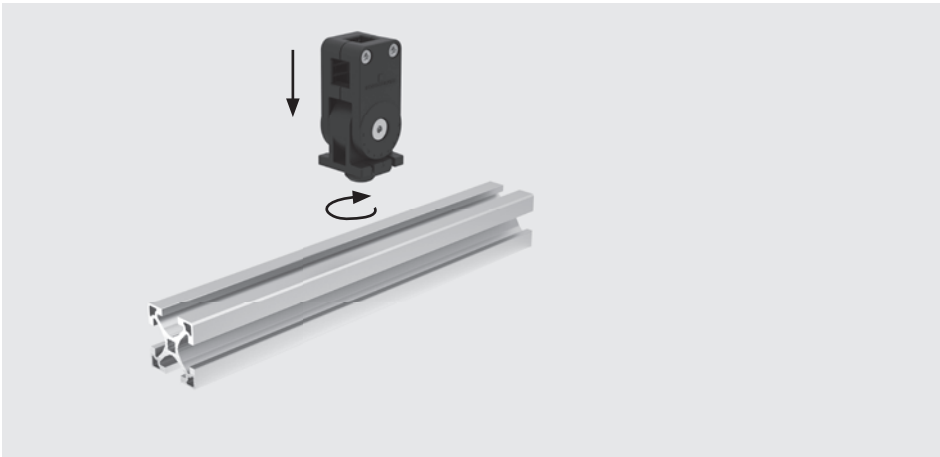
- 1 Side Guide Basic Part
- 1 Side Guide Nut Holder
- 1 Side Guide Bracket Screw
- 2 Screw IBS M05x025
- 2 Hexagon nuts SKM M005
- 1 Screw IBS M08x030 EXNIKO
- 1 Washer SIS M08x13x0.8
- 1 Hexagon nut SKM M008
- 1 CAP 1818 cover cap

## Tightening Torque

IBS M05x025 = 6 Nm  
 IBS M08x030 EXNIKO = 10 Nm



## Assembly



## Order Code

Description	Order Code	Weight
Side Guide Base	COP 4561	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: Aluminium EN AW-6060-T66

Fixing material: Galvanized steel

**Scope of Delivery**

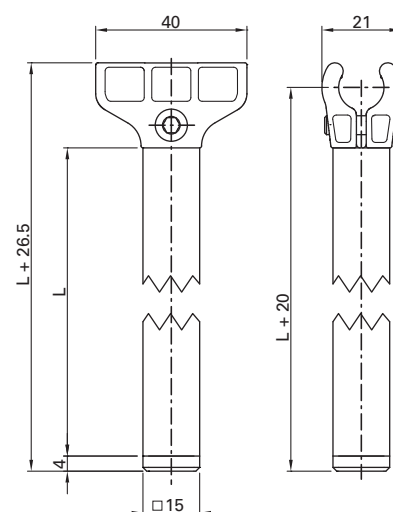
1 Side Guide Clamping Part

1 Screw IBS M05x014

1 Hexagon nut SKM M005

1 CAP 1515 cover cap

1 Square tube 15x15 length 150 mm or variable



## Order Code

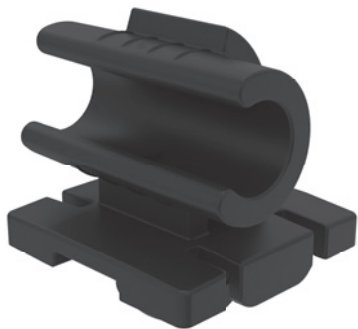
Description	Order Code <sup>1</sup>		Weight
	Length		
Side Guide Clamp With Rod, length 150	COP 9001		0.045 kg
Side Guide Clamp With Rod, length variable	COL 9000 SNN		

1) Please complete the order code by adding the corresponding parameters for order processing.

Drawing dimensions in mm

## COP 4570

## Side Guide Clip

**Application**

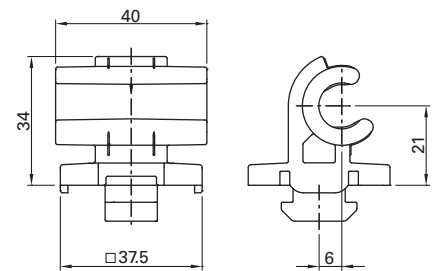
To accomodate side guides

**Technical Data**

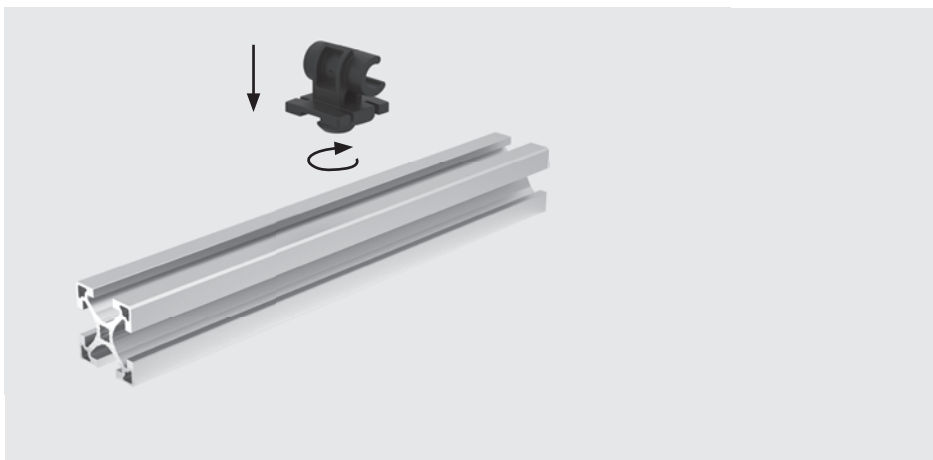
Material: PA6 black

**Scope of Delivery**

10 Side Guide Clips



## Assembly



## Order Code

Description	Order Code	Weight/Piece
Side Guide Clip Set	COP 4570	0.020 kg

## COP 4590

## Side Guide End Piece

**Application**

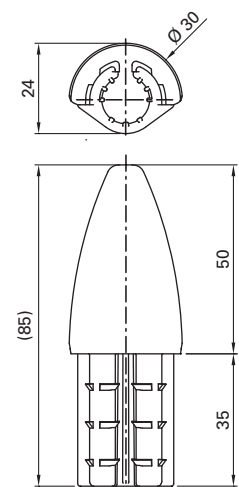
To cover ends of Side Guides

**Technical Data**

Material: PP ESD black

**Scope of Delivery**

4 Side Guide End Pieces



## Order Code

Description	Order Code	Weight/Piece
Side Guide End Piece Kit	COP 4590	0.010 kg

COL 4590

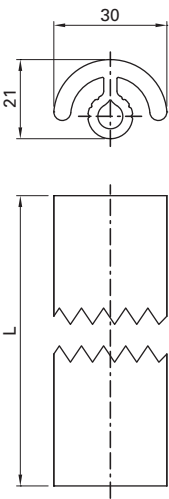
Side Guide Plastic



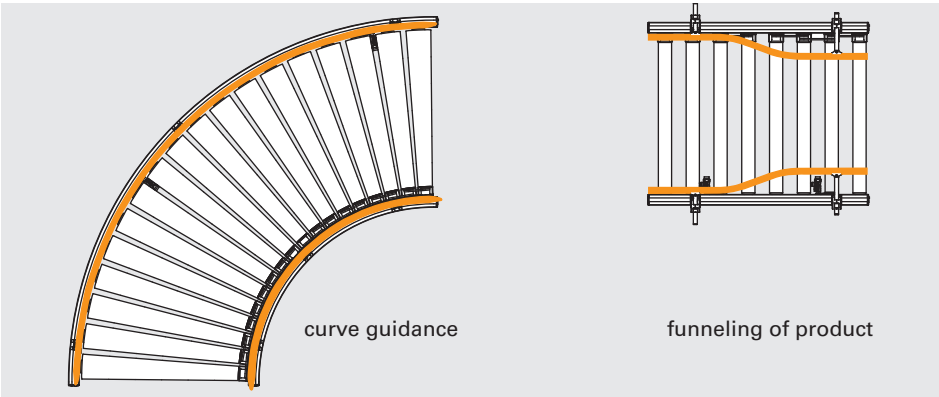
**Application**  
Side Guide for conveyors

**Technical Data**  
Material: PVC-U black

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



Application



Order Code

Description		Order Code	Weight/Meter
Side Guide Plastic, cut to length		COL 4590 SNN ____	0.340 kg
Side Guide Plastic, stock length 3000 mm		COL 4590 NNN 3000	0.340 kg