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

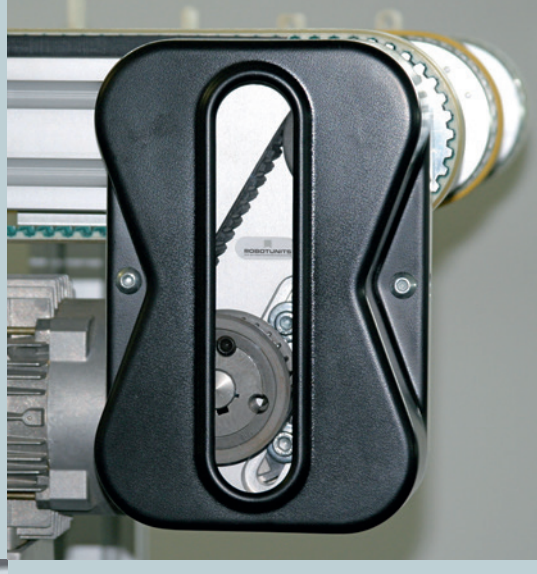
Idler options
- roller diameters of 40 mm, 50 mm or 80 mm
- nose bar (16 mm diameter) for transfer of small parts

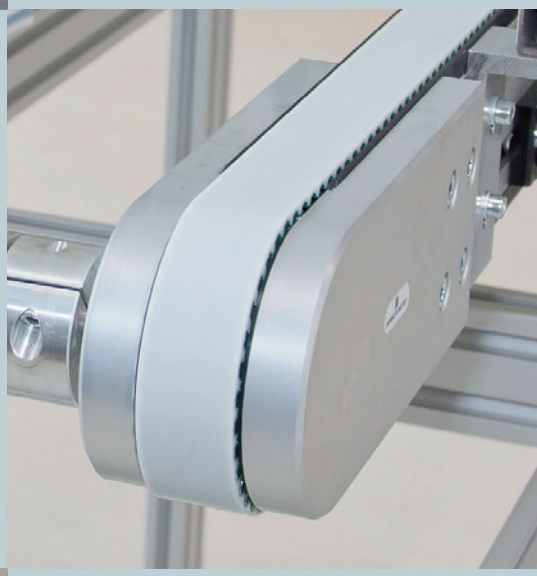
Wide variety of belts
- accumulation belt
- low & high friction belts
- high durability belts for abrasive and corrosive use

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

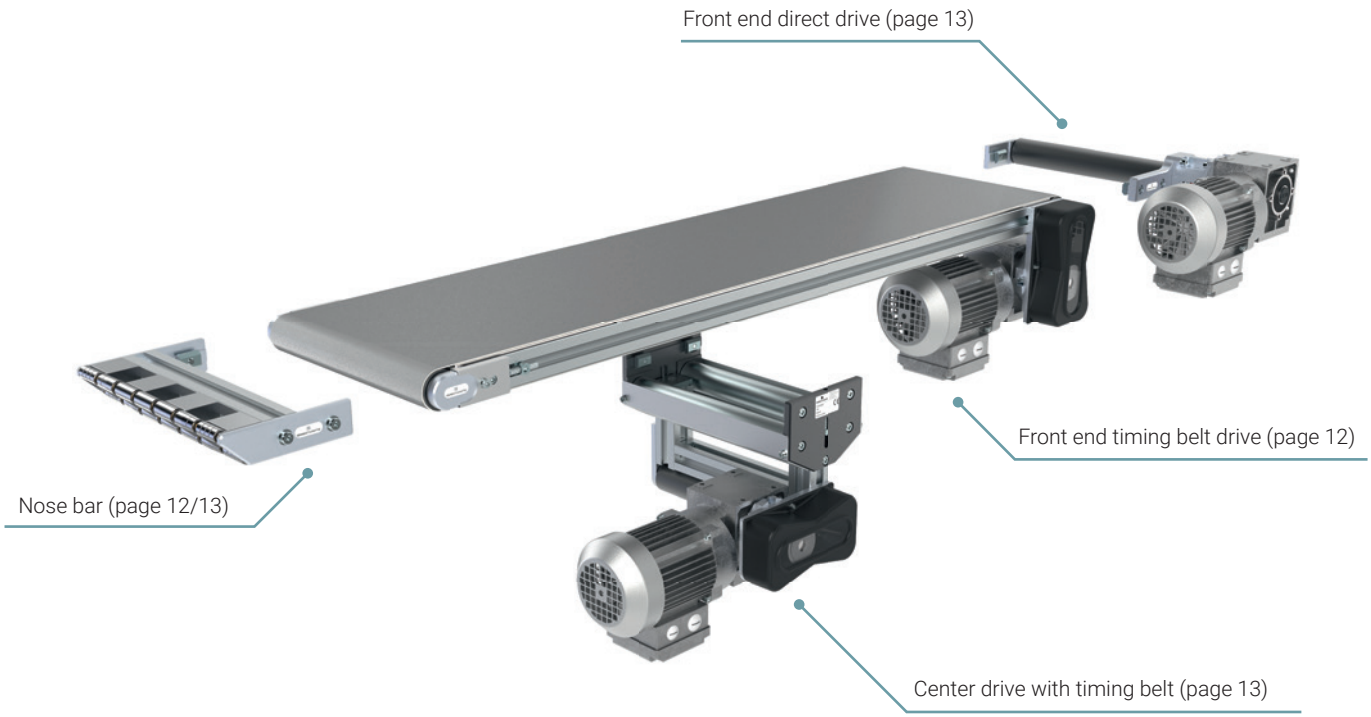
Safety
- self-adjusting safety guard between the Belt Conveyor roll and the slider bed
- timing belt guard with window for visual inspection
- complete documentation meeting the latest Machinery Directive



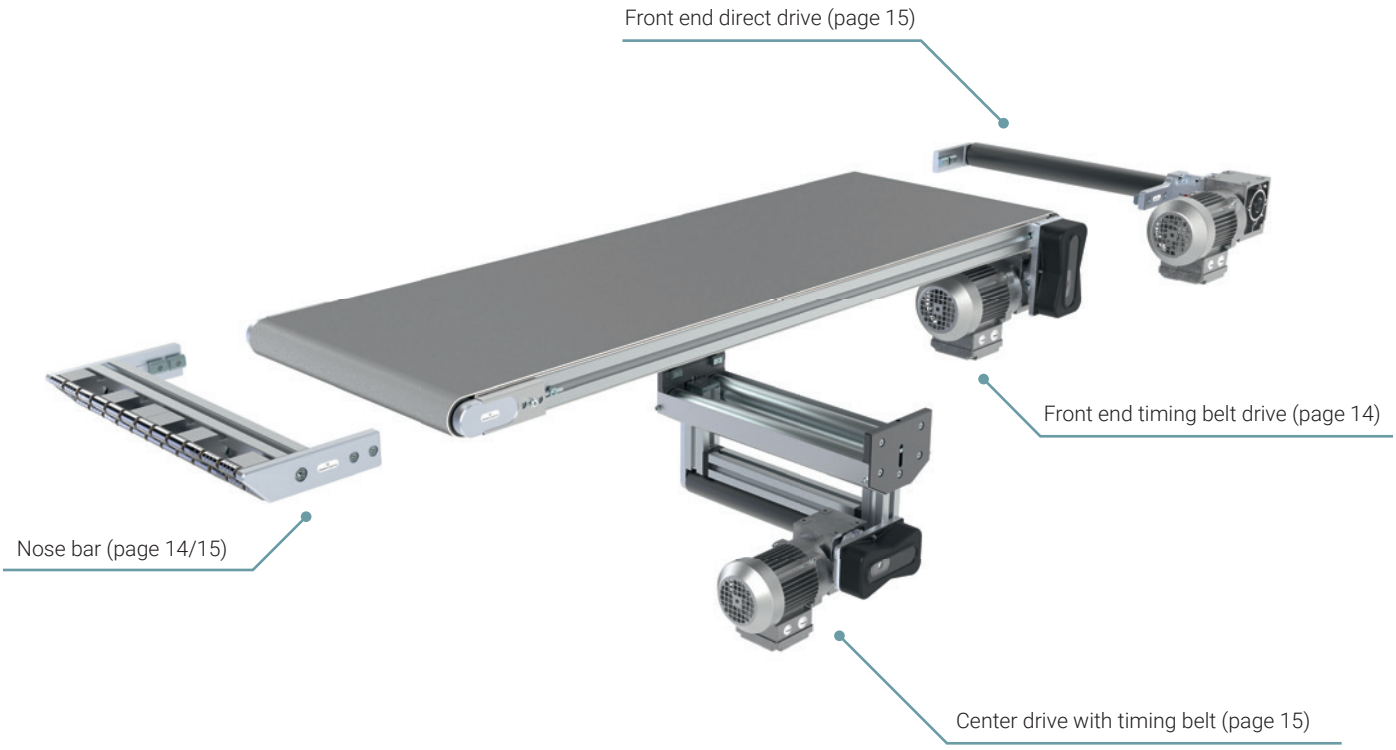


Just-In-Time Conveyor Technology

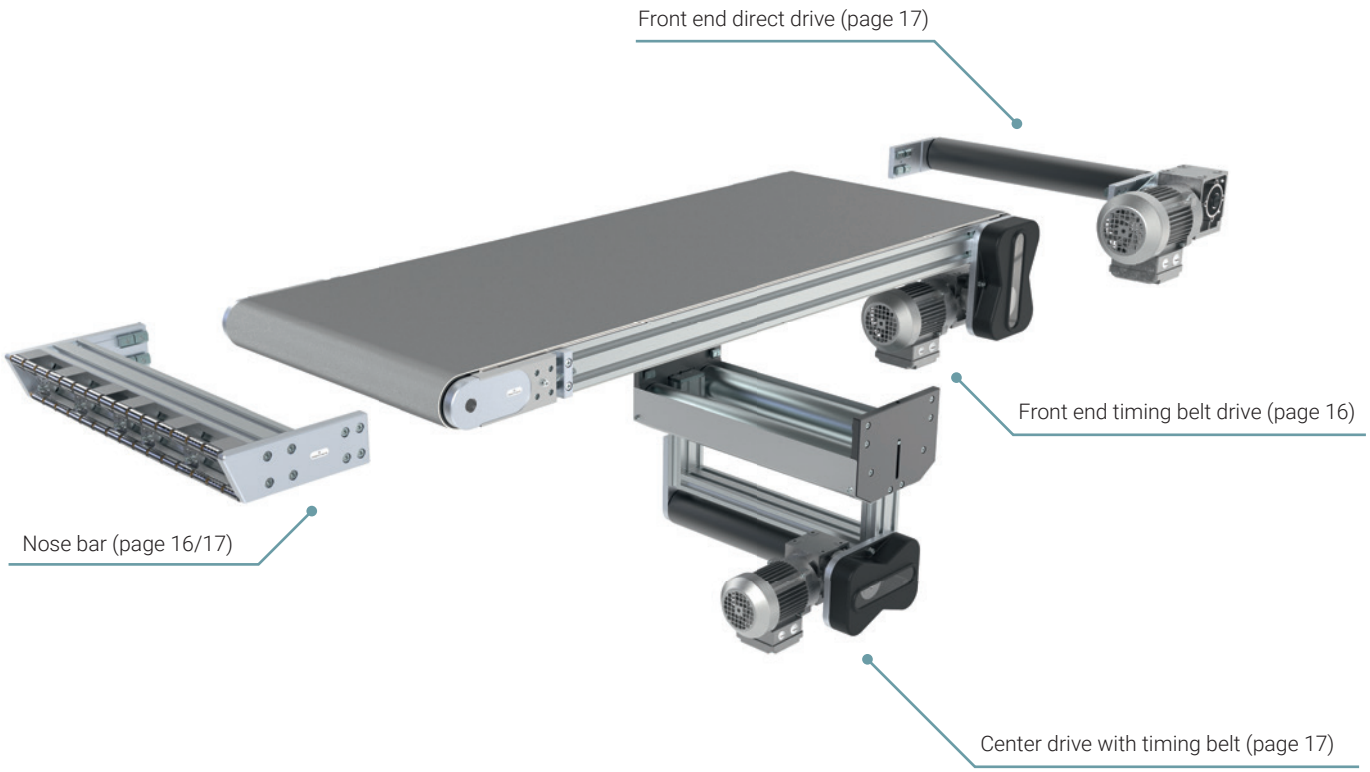
C4N Belt Conveyor Drive Options



C5N Belt Conveyor Drive Options



C8N Belt Conveyor Drive Options



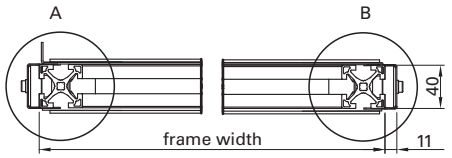
C4N Belt Conveyor 40

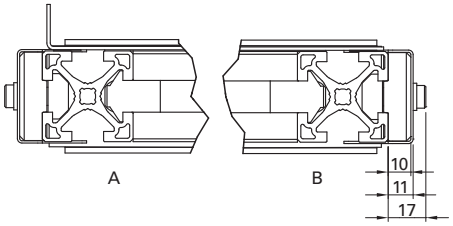
Application
Used for a wide variety of conveying applications

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.





Side Guides for Belt Conveyors
see page 46

C4N without side guides
Belt width = frame width - 10 mm

C4N with side guides
Frame width ≦ 120 mm
Belt width = frame width - 15 mm
Frame width > 120 mm
Belt width = frame width - 20 mm

Drive Option[1]

Front End Timing Belt Drive

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

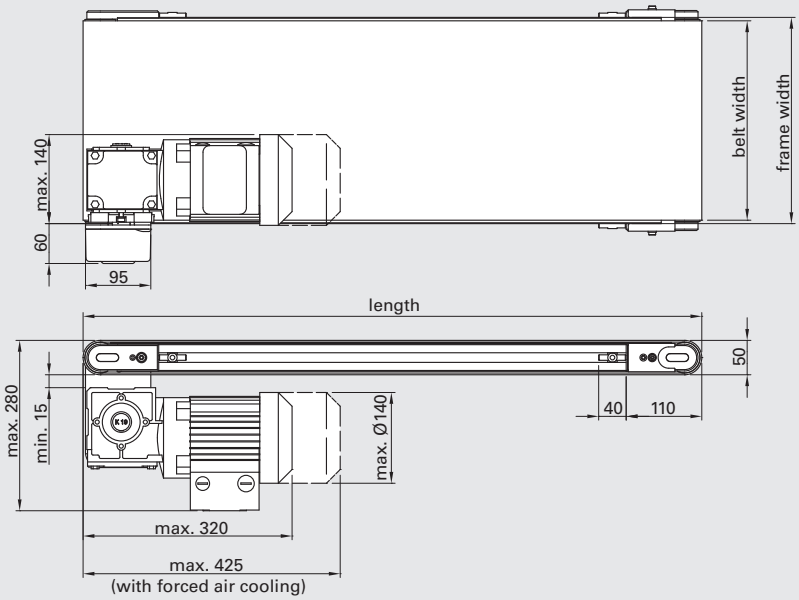
Front End Direct Drive

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

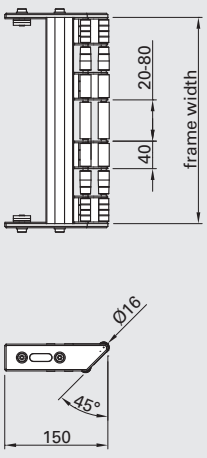
Center Drive With Timing Belt

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

Front End Timing Belt Drive



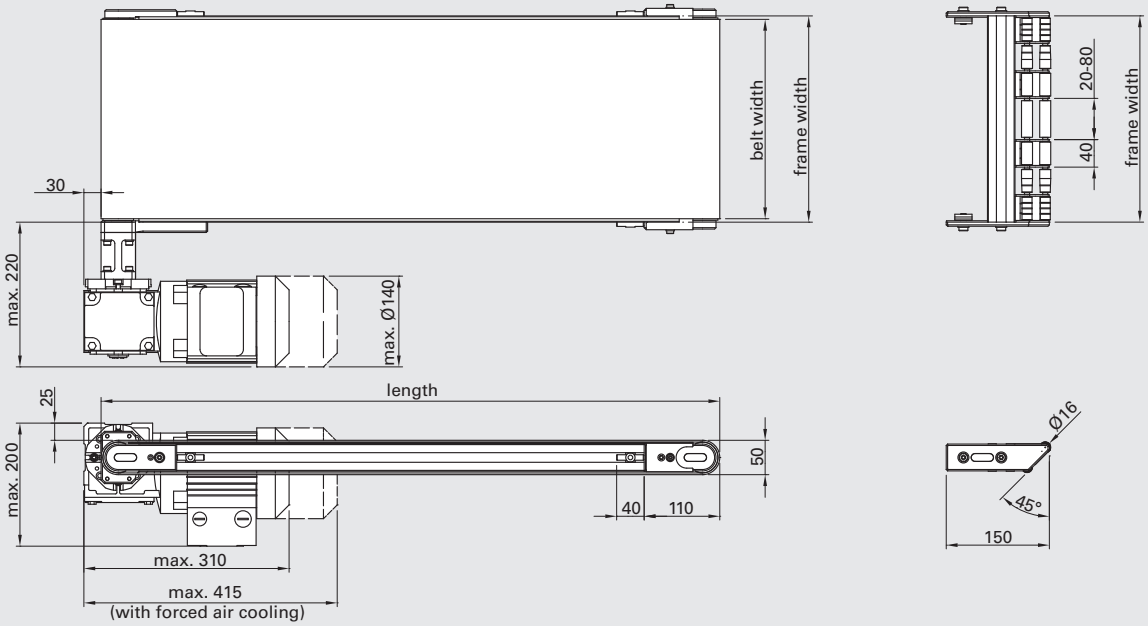
Optional: nose bar



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

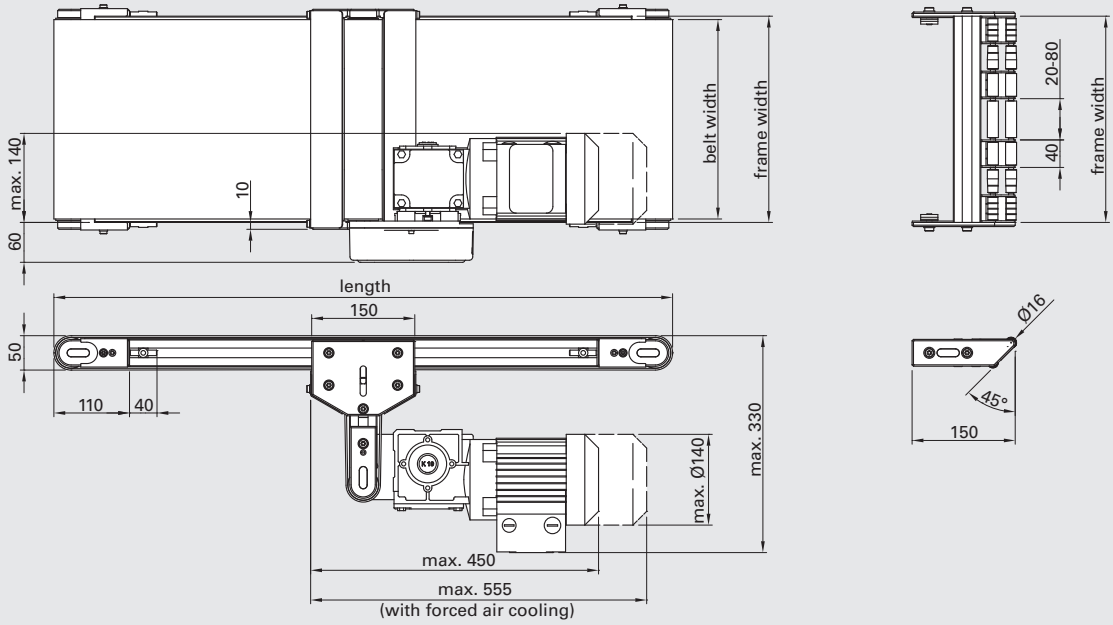
Front End Direct Drive

Optional: nose bar



Center Drive With Timing Belt

Optional: nose bar



Standard Widths And Lengths[2]

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

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

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

Request For Quote / Order

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

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

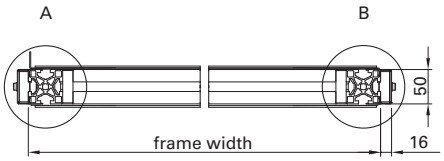
C5N Belt Conveyor 50

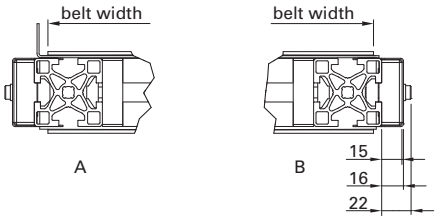
Application
Used for a wide variety of conveying applications

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 46

Belt width = frame width - 20 mm

Drive Option[1]

Front End Timing Belt Drive

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

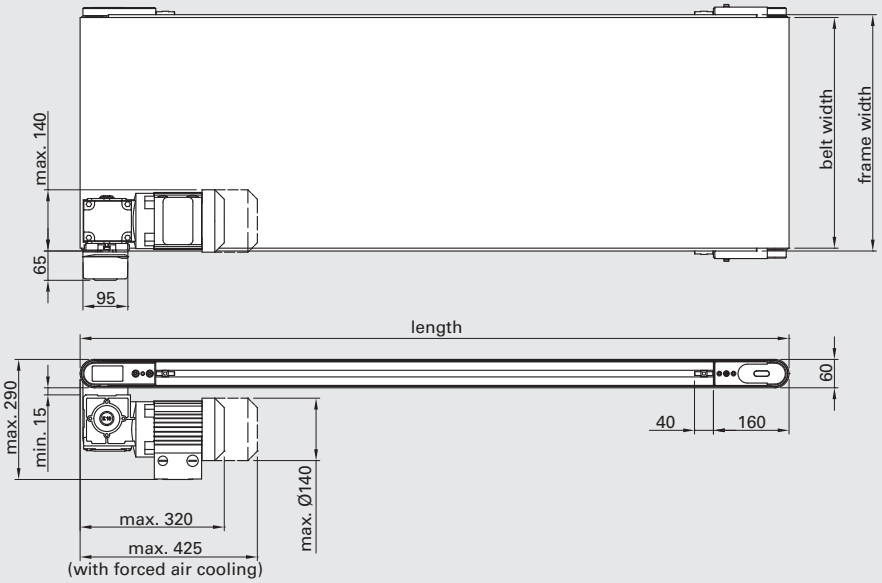
Front End Direct Drive

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

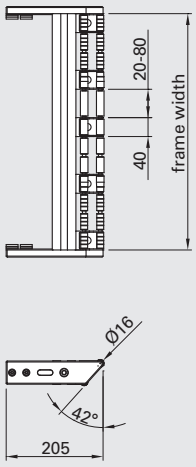
Center Drive With Timing Belt

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

Front End Timing Belt Drive



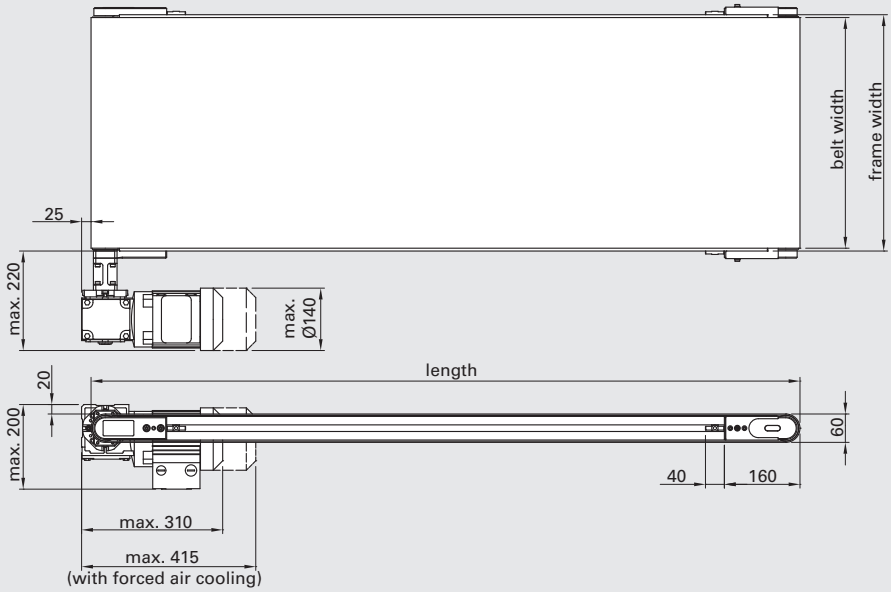
Optional: nose bar

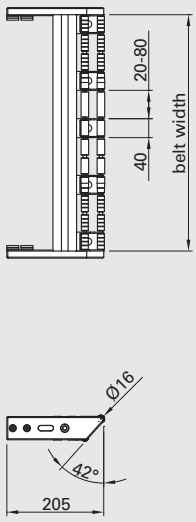


1) Standard direction is pulling. The running direction of all drives can be changed by reversing the polarity of the motor.
Drawing dimensions in mm

Front End Direct Drive

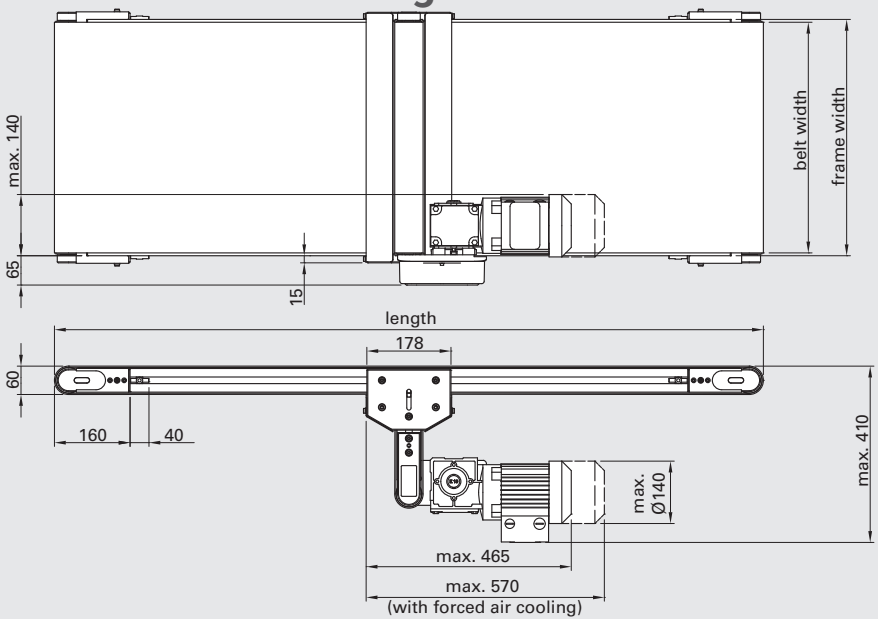
Optional: nose bar

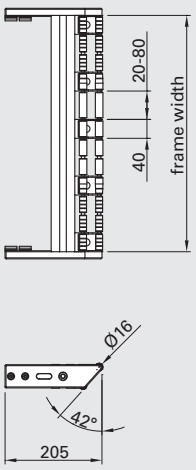




Center Drive With Timing Belt

Optional: nose bar





Standard Widths And Lengths[2]

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

Design Options

Side view

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

Request For Quote / Order

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

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

C8N Belt Conveyor 80

Application
Used for a wide variety of conveying applications

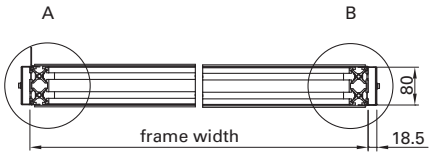
Technical Data
Belt speeds from 5 m/min up to 65 m/min

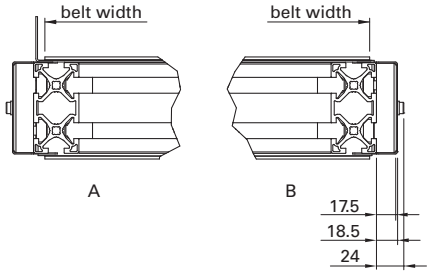
Drive power depending on belt speed and load ranging from
0.25 kW to 0.55 kW
(208-230/460V; 50/60Hz; IP54)
Max. total load of material 800 kg

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 46

Belt width = frame width - 20 mm





Drive Option[1]

Front End Timing Belt Drive

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

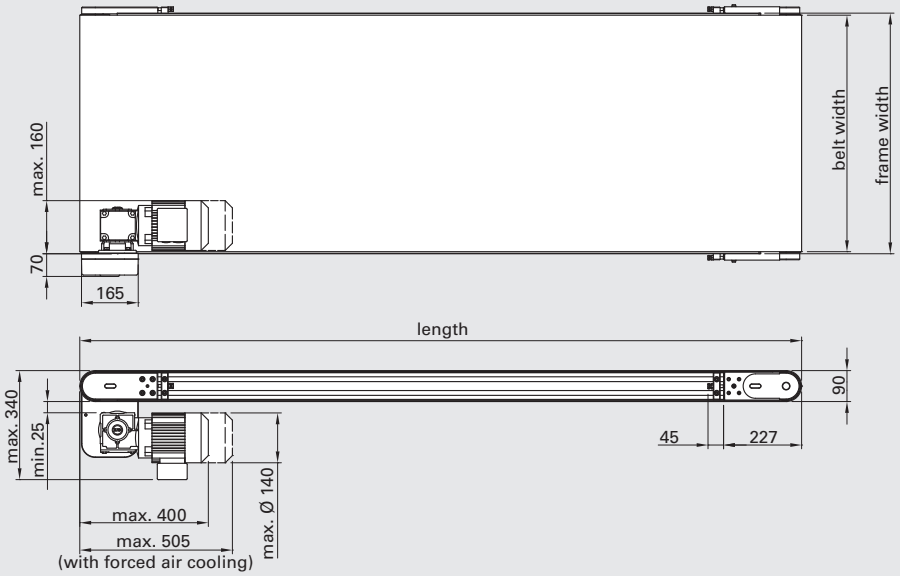
Front End Direct Drive

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

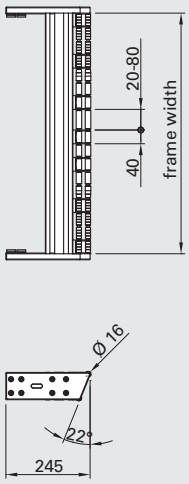
Center Drive With Timing Belt

- 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

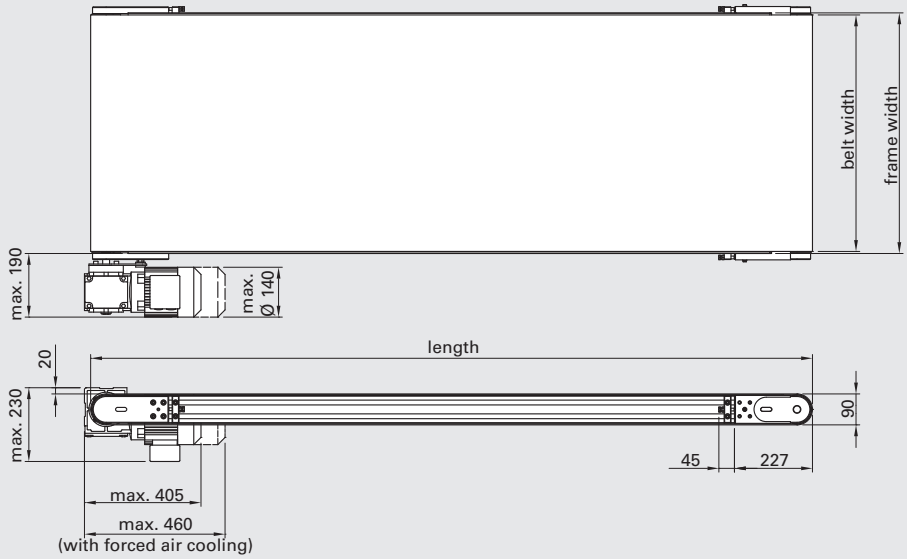


Optional: nose bar

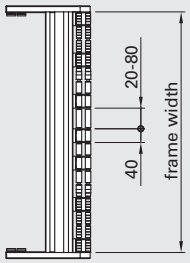


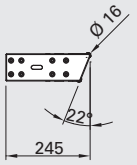
1) Standard direction is pulling. The running direction of all drives can be changed by reversing the polarity of the motor.
Drawing dimensions in mm

Front End Direct Drive

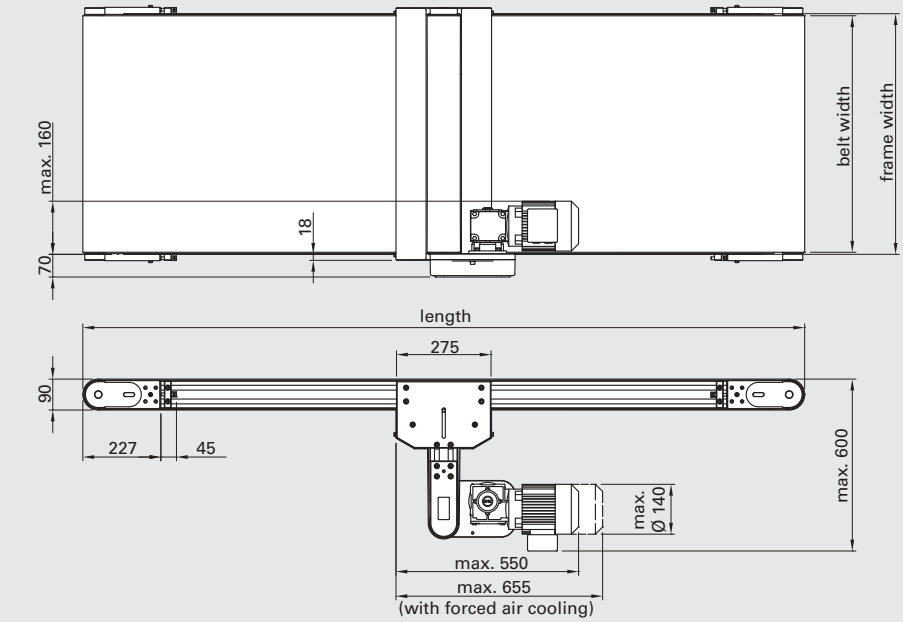


Optional: nose bar

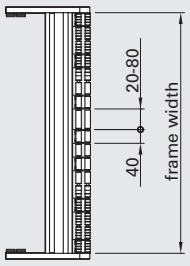


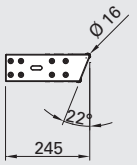


Center Drive With Timing Belt



Optional: nose bar





Standard Widths And Lengths[2]

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

Design Options

Side view

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

Request For Quote / Order

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

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

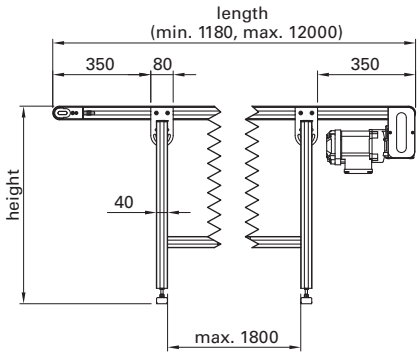
C4F Stand for C4N/C5N

Application
Stand for Belt Conveyor 40 and 50

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

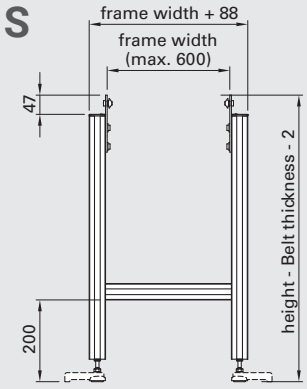
Scope of Delivery
Stand segment fully assembled and attached to belt conveyor if applicable

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



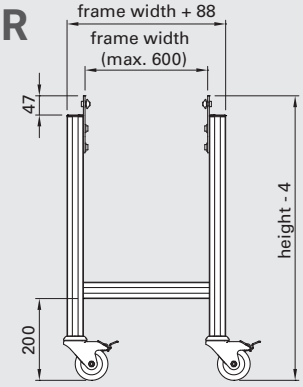
Standard Conveyor Stands

S



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

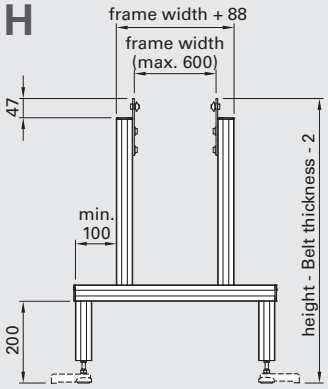
R



Swivel castors with brake CAS 3080

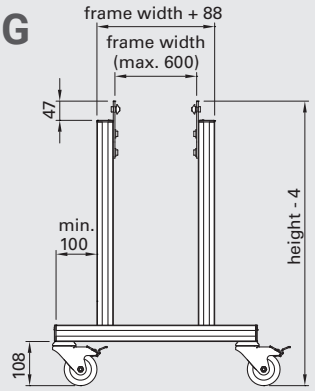
Wide Conveyor Stands

H



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

G



Swivel castors with brake CAS 3080

Order Code

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

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

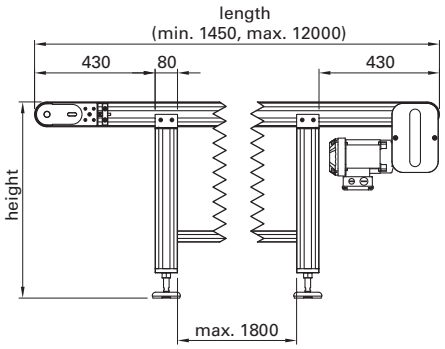
C8F Stand for C8N/C8M

Application
Stand for Belt Conveyor 80 and Modular Belt Conveyor 80

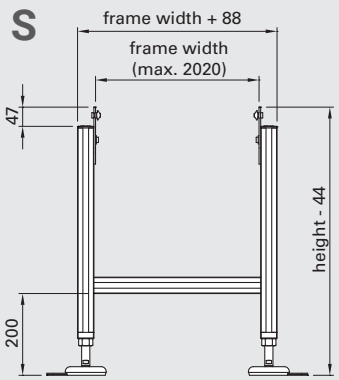
Technical Data
Material: clear anodized aluminum; galvanized GD-Zn; galvanized steel; rubber

Scope of Delivery
Stand segment fully assembled and attached to belt conveyor if applicable

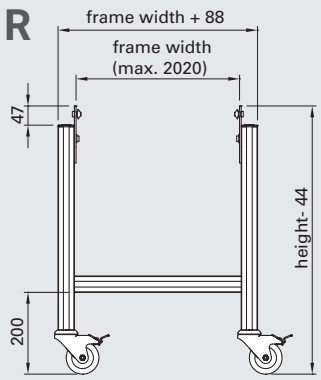
Wide conveyor stand offers additional stability when conveyor heights exceed 3 times the frame width.



Standard Conveyor Stands

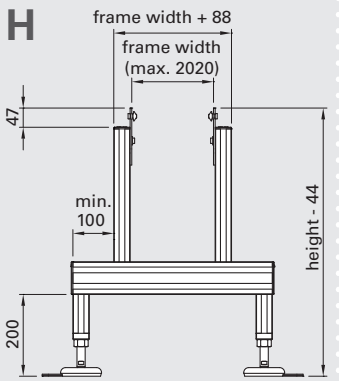


Leveling bases BAS 1120
Height adjustment ± 30 mm

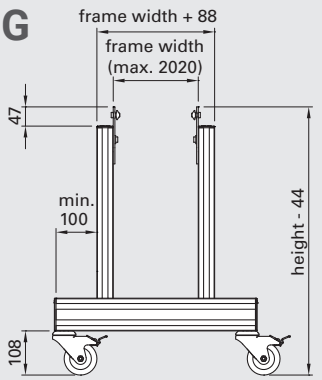


Swivel castors with brake CAS 3080

Wide Conveyor Stands



Leveling bases BAS 1120
Height adjustment ± 30 mm



Swivel castors with brake CAS 3080

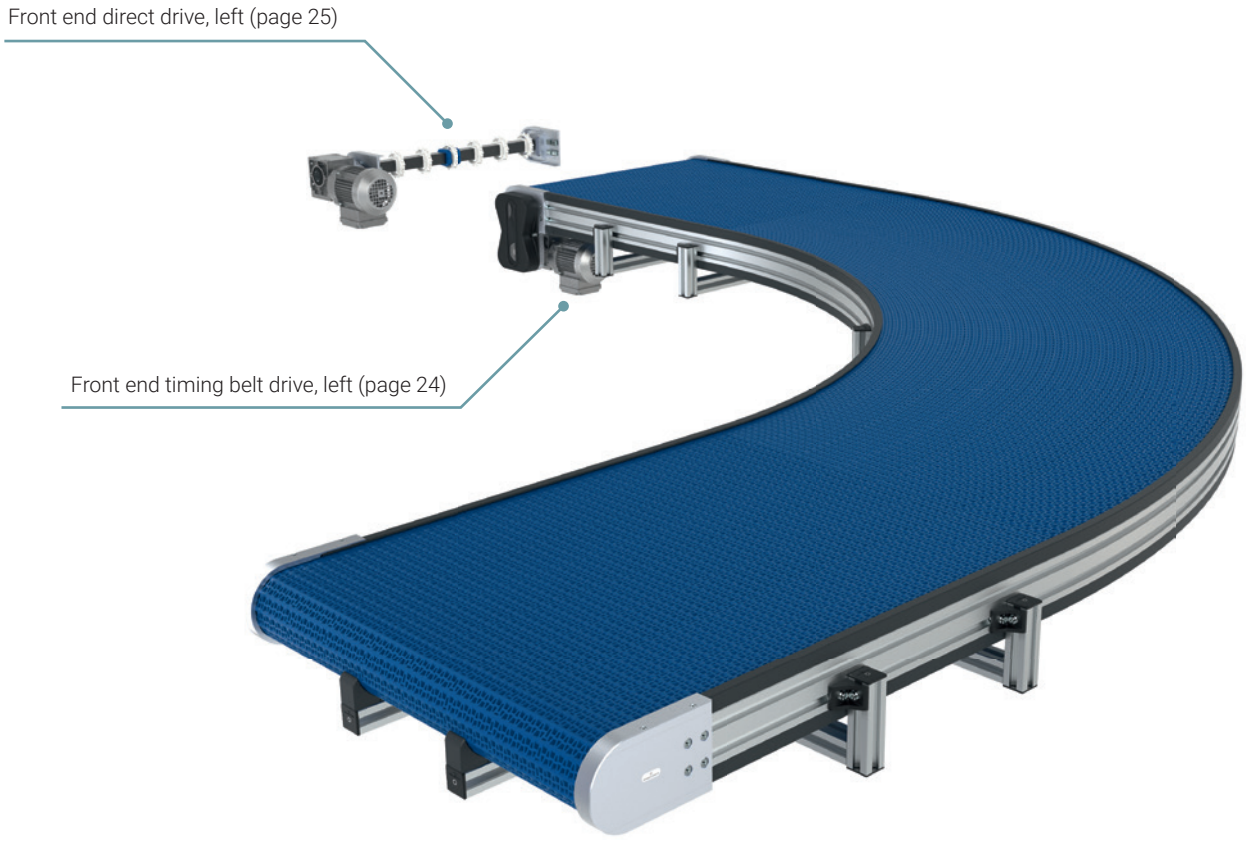
Order Code

	Order Code[1]			
Description	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

C8M Curved Modular Belt Conveyor Drive Options



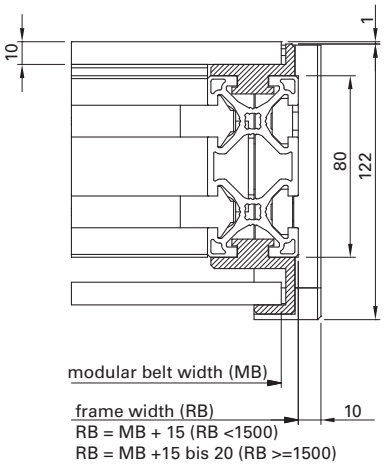
C8M Straight Modular Belt Conveyors

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 46

Drive Option[1]

Front End Timing Belt Drive

A — Front end timing belt drive left

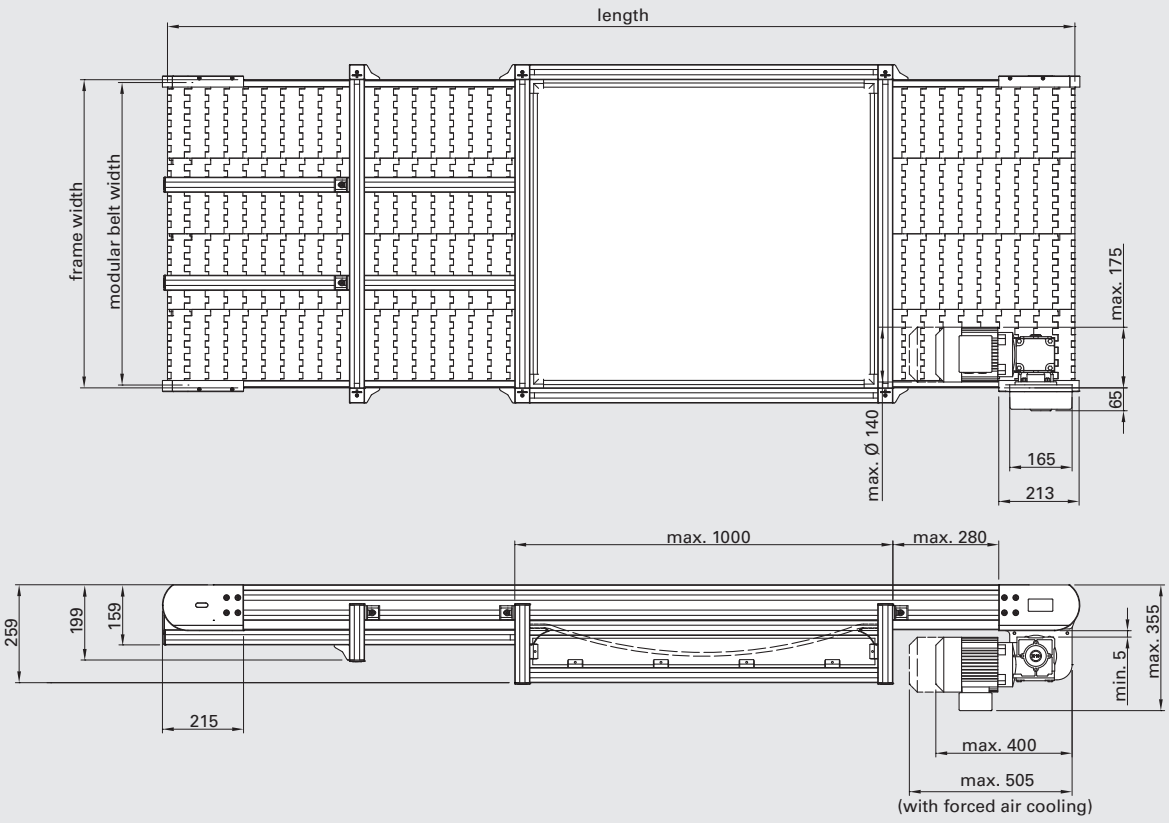
B — Front end timing belt drive, right

Front End Direct Drive

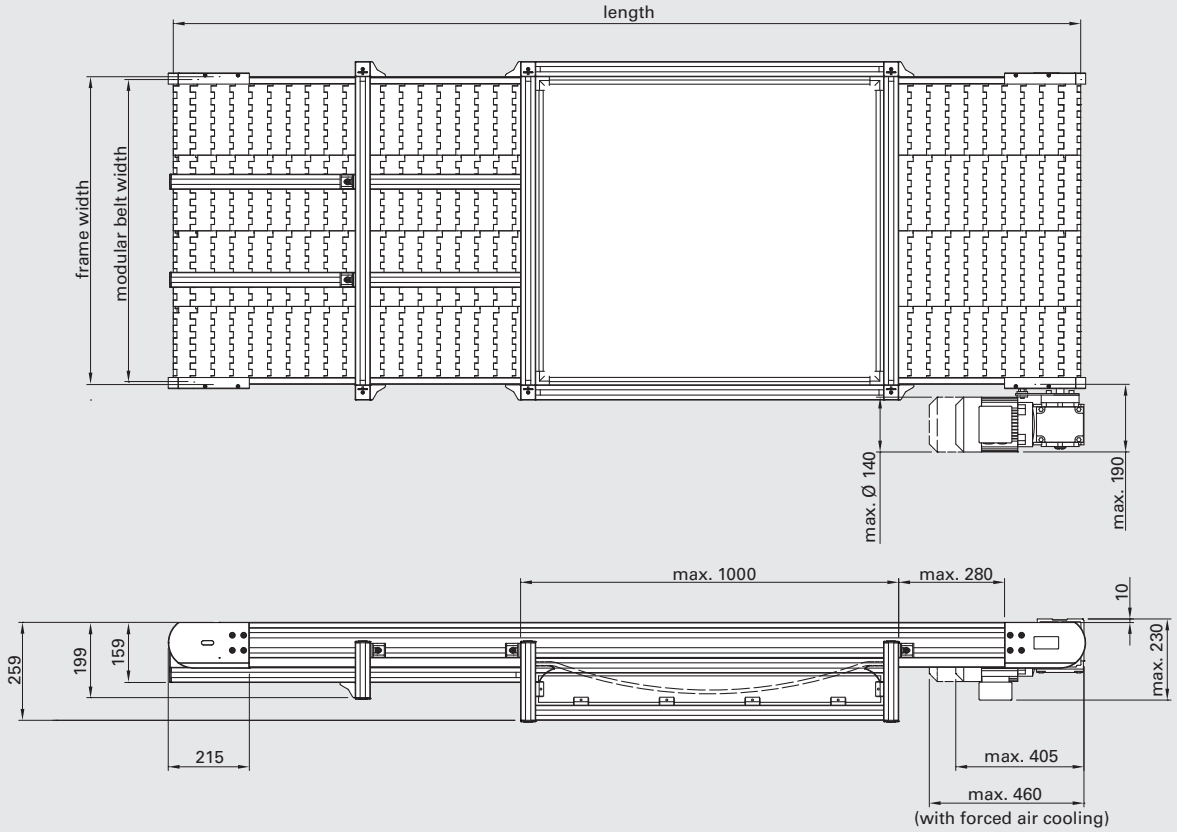
E — Front end direct drive left

F — Front end direct drive, right

Front End Timing Belt Drive



Front End Direct Drive



Design Options[2]

Side view

Length And Frame Width

Description	Min. length[3]	Max. length[3]	Min. modular belt width[4]	Max. modular belt width[4]
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

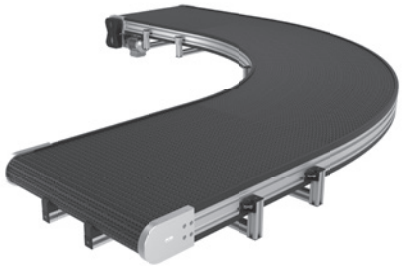
Request For Quote / Order

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

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

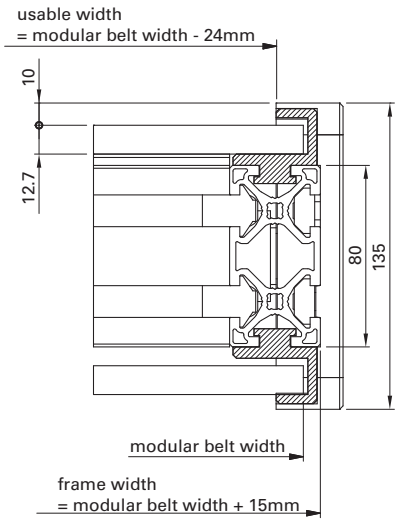


Application
Used for a wide variety of conveying applications

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 46

Drive Option[1]

Front End Timing Belt Drive

A — Front end timing belt drive left

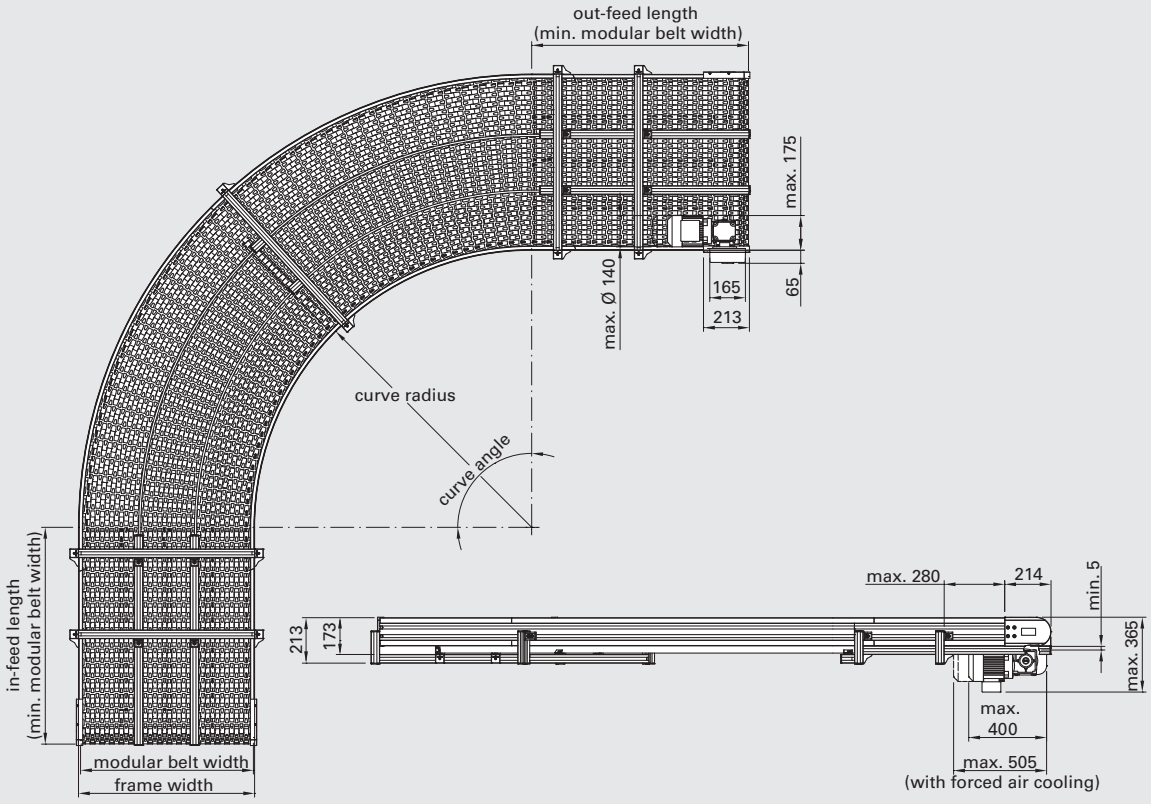
B — Front end timing belt drive, right

Front End Direct Drive

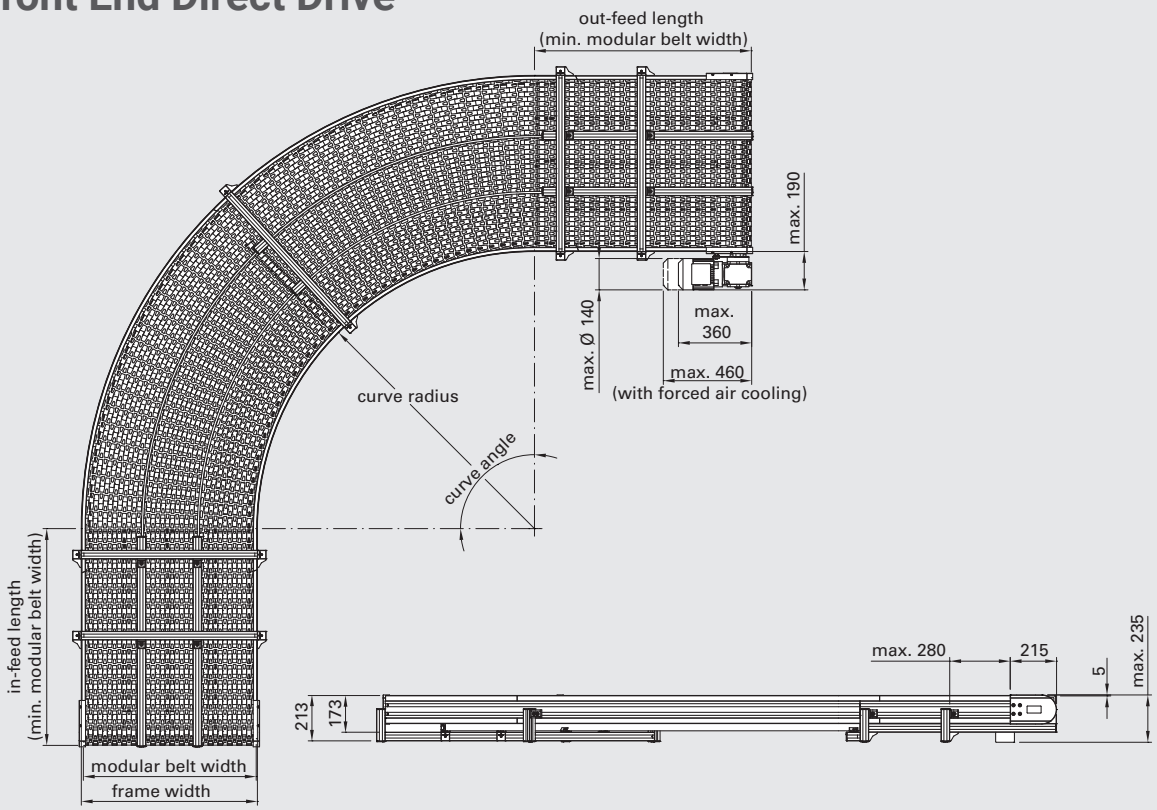
E — Front end direct drive left

F — Front end direct drive, right

Front End Timing Belt Drive



Front End Direct Drive



Design Options[2]

Side view

Top view

Frame Width

Description	Frame width min.[3]	Frame width max.[3]
C8M Curved front end timing belt drive	215 mm	1215 mm
C8M Curved front end direct drive	215 mm	1215 mm

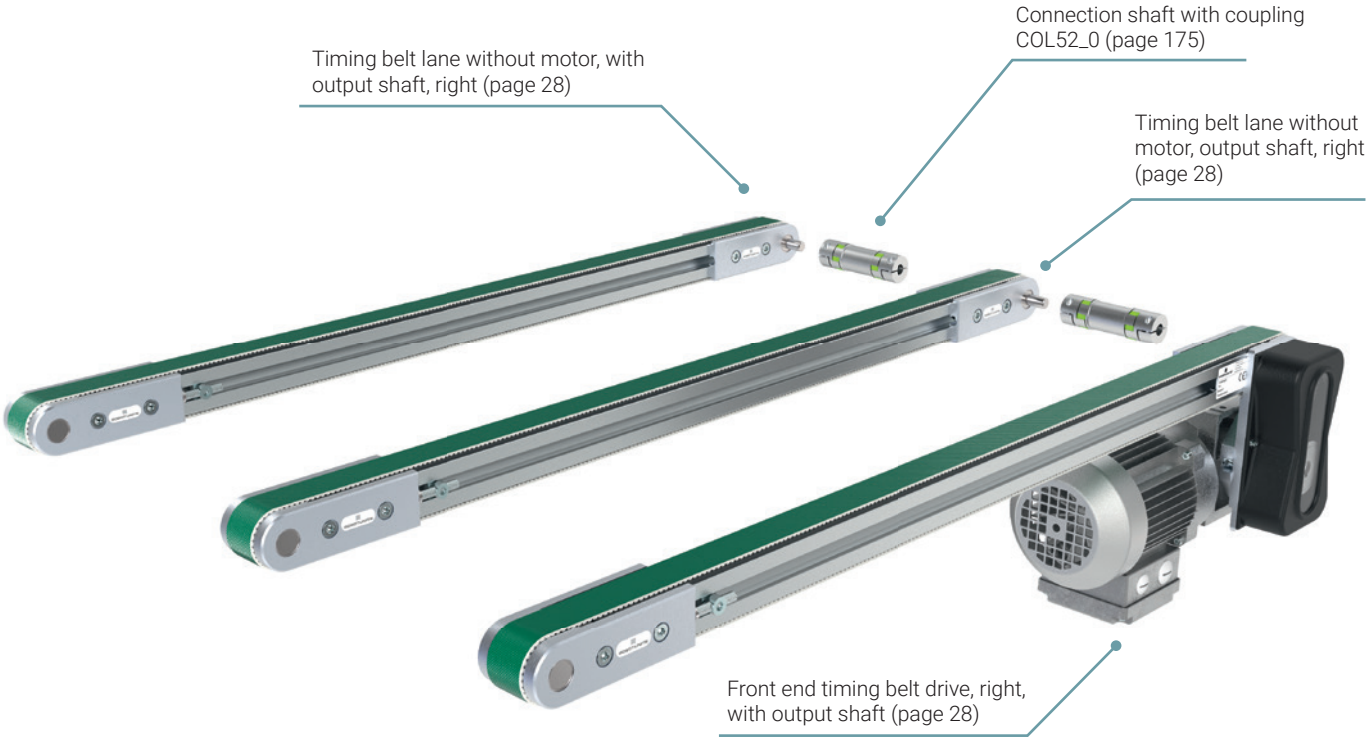
Request For Quote / Order

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

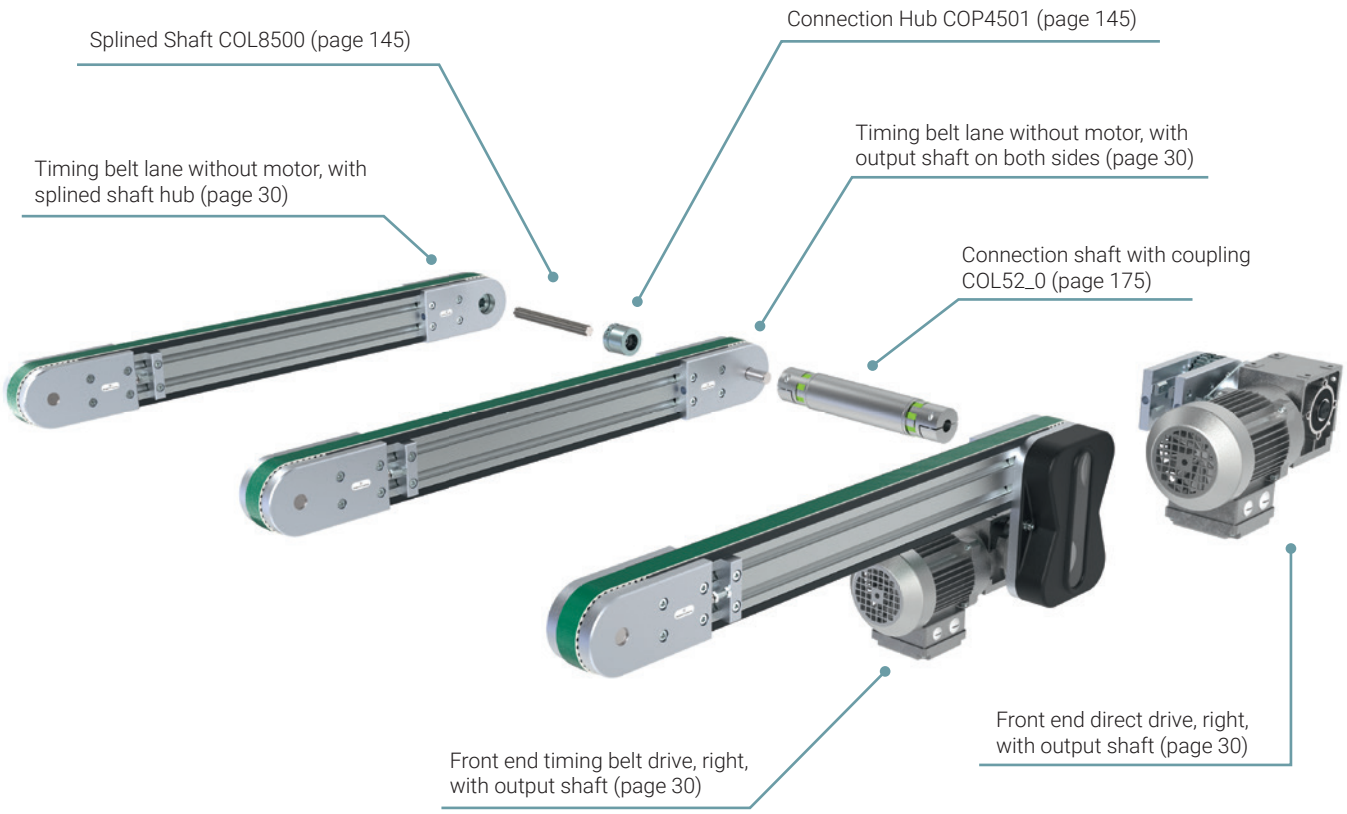
1) Only pulling direction is possible
2) Design options on request
3) Frame widths can be ordered ranging from min. 215 mm to max. 1215 mm in steps of 50 mm.

Drawing dimensions in mm

C4T Timing Belt Conveyor Drive And Connection Options



C8T Timing Belt Conveyor Drive And Connection Options



C4T Timing Belt Conveyor 40

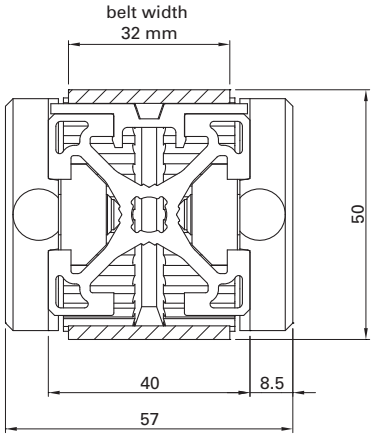
Application
Used for a wide variety of conveying applications

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 46

Drive Option[1]

Front End Timing Belt Drive

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

Timing Belt Lane Without Motor

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

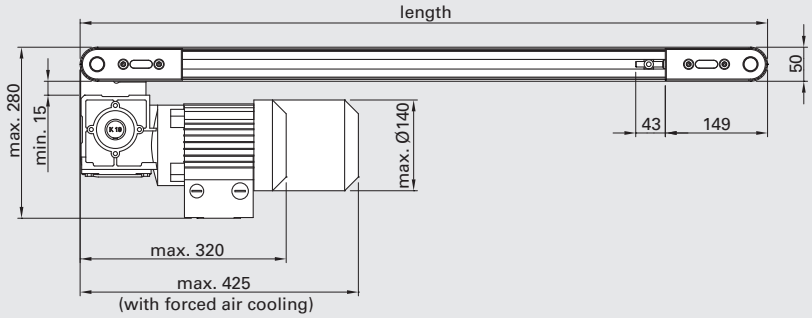
Front End Timing Belt Drive, Double Lane

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

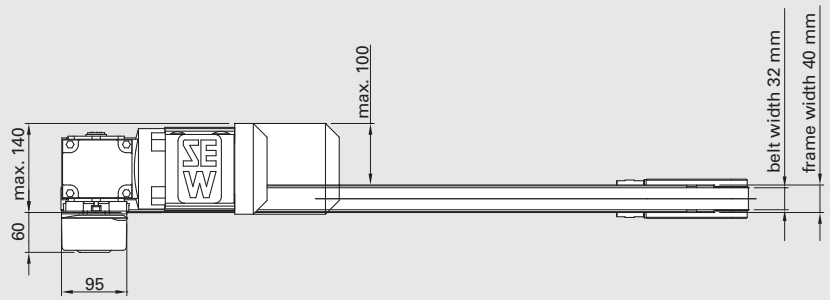
Front End Timing Belt Drive, Triple Lane

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

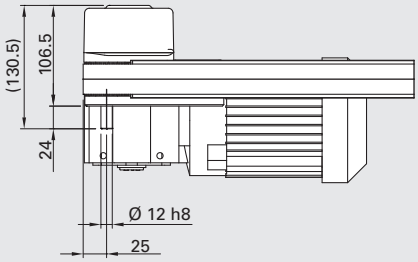
Front End Timing Belt Drive



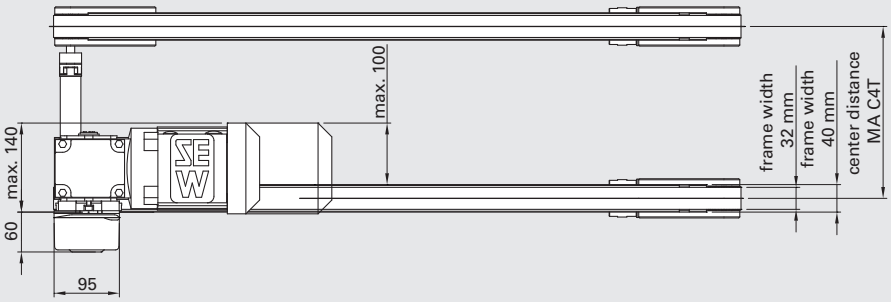
Front End Timing Belt Drive



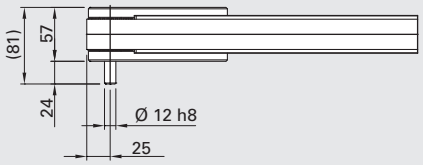
O/P



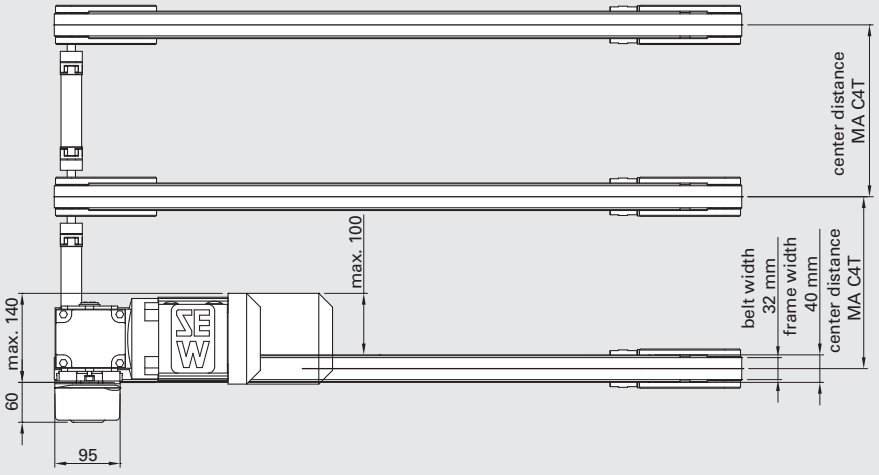
Front End Timing Belt Drive, Double Lane



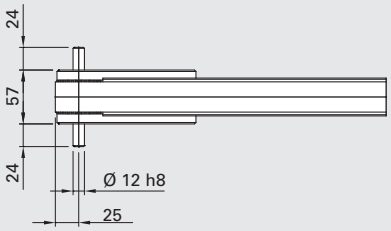
U/V



Front End Timing Belt Drive, Triple Lane



T



Length And Frame Width

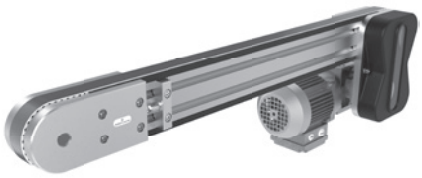
Description	Min. length	Max. length	MA1	MA2
Timing Belt Conveyor 40 Front end timing belt drive	400 mm	12000 mm		
Timing Belt Conveyor 40 Front end timing belt drive, double lane	400 mm	12000 mm	____	
Timing Belt Conveyor 40 Front end timing belt drive, triple lane	400 mm	12000 mm	____	____
Timing Belt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

Order Placement

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

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

C8T Timing Belt Conveyor 80



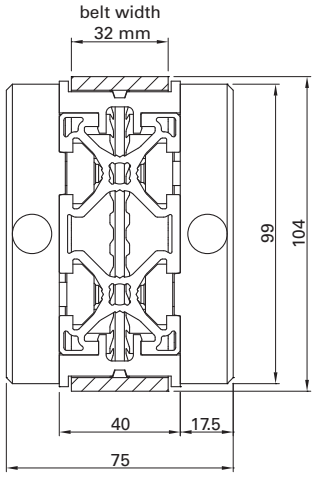
Application
Used for a wide variety of conveying applications

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 46

Drive Option[1]

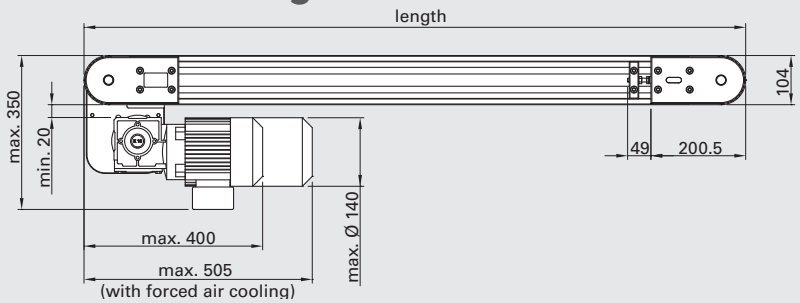
Front End Timing Belt Drive, Fmax 4000 N

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

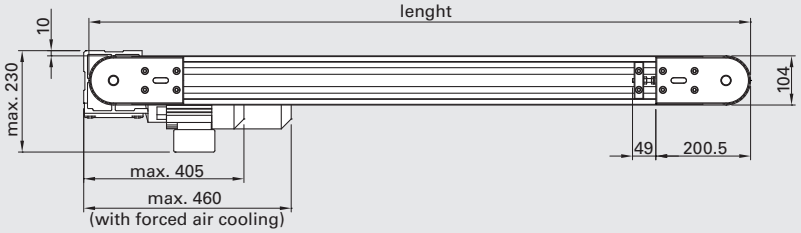
Front End Direct Drive, Fmax 6000 N

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

Front end 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

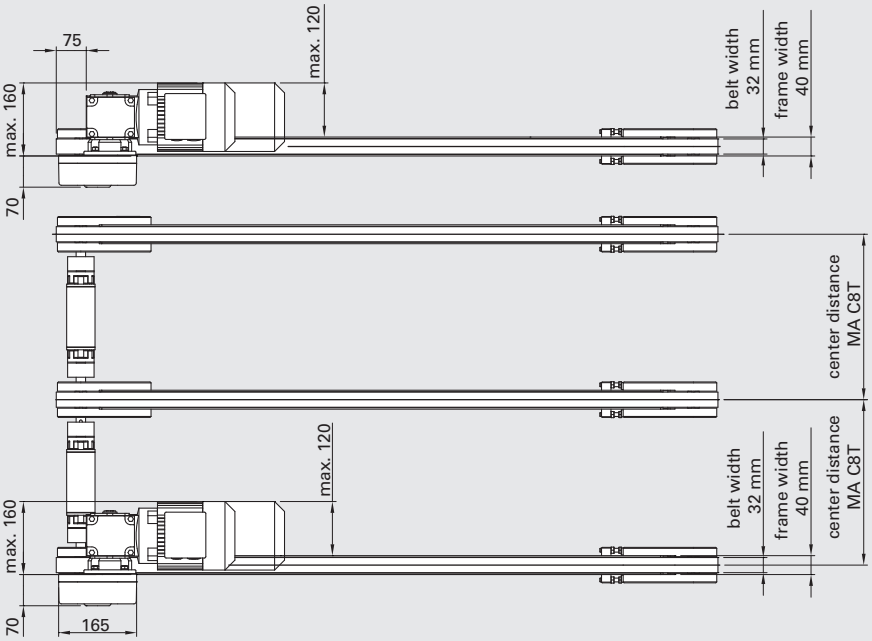
Timing Belt Lane Without Motor

- 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

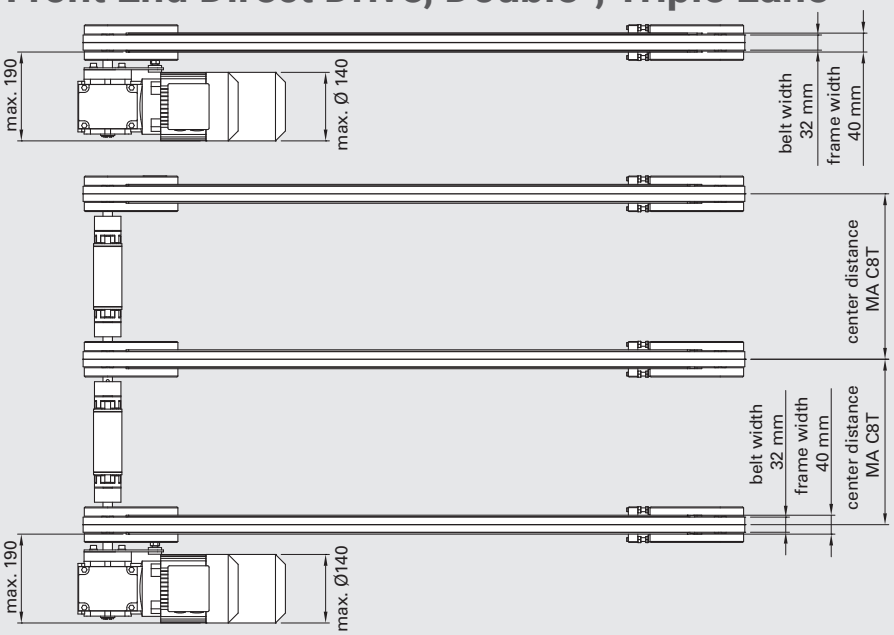
Timing Belt Lane Without Motor, Adjustable

- W — Timing belt lane with splined shaft hub

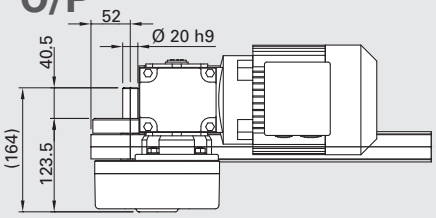
Front End Timing Belt Drive, Double-, Triple Lane



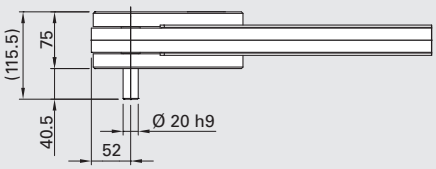
Front End Direct Drive, Double-, Triple Lane



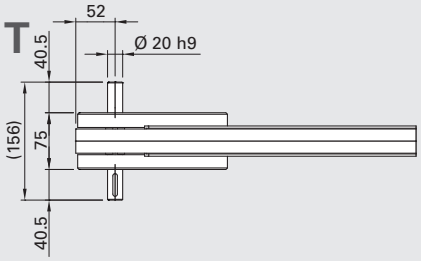
O/P



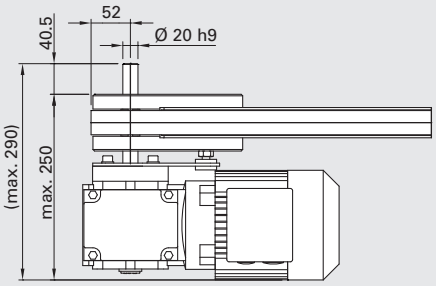
U/V



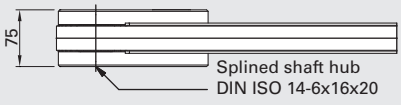
T



R/S



W, adjustable



Length And Frame Width

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

Order Placement

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

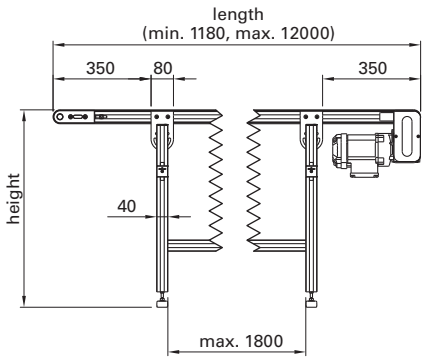
1) Standard direction is pulling. The running direction of all drives can be changed by reversing the polarity of the motor.

C4G Stand for C4T

Application
Stand for Timing Belt Conveyor 40

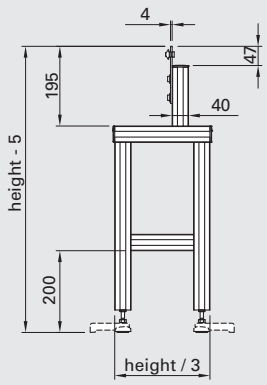
Technical Data
Material: clear anodized aluminum; galvanized GD-Zn; galvanized steel; rubber

Scope of Delivery
Stand segment fully assembled and attached to belt conveyor if applicable



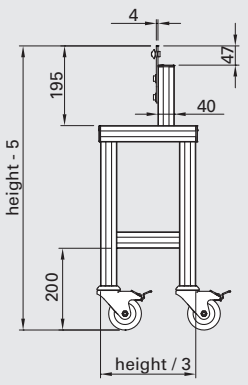
Stand Types: Single Lane

S



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

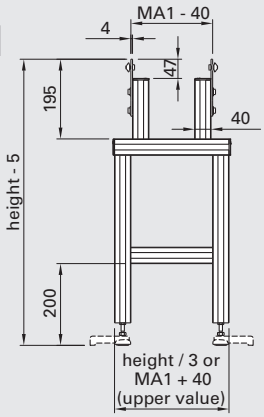
R



Swivel castors with brake CAS 3080

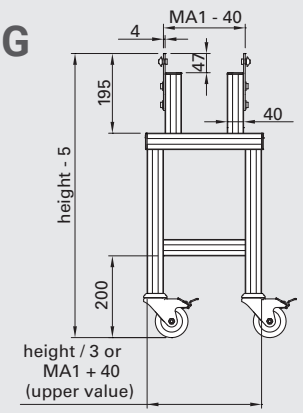
Stand Types: Double Lanes

H



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

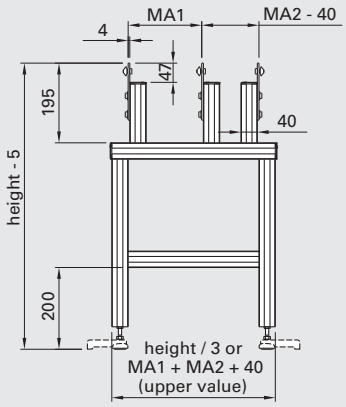
G



Swivel castors with brake CAS 3080

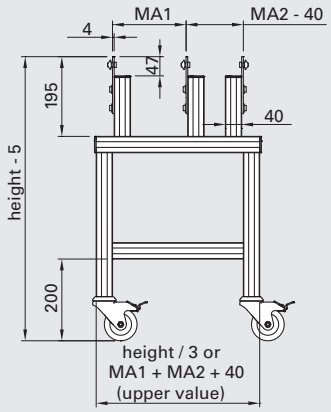
Stand Types: Triple Lane

K



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

M



Swivel castors with brake CAS 3080

Order Code

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

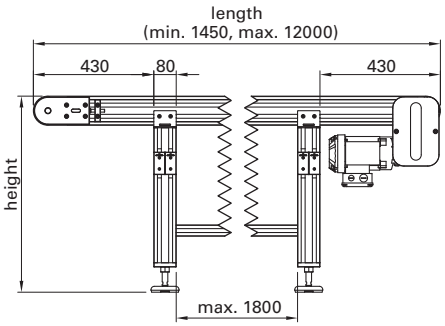
1) Optionally with Floor Mounting Plate BAP 4500
2) Please complete the order code by adding the corresponding parameters for order processing.
Drawing dimensions in mm

C8G Stand for C8T

Application
Stand for Timing Belt Conveyor 80

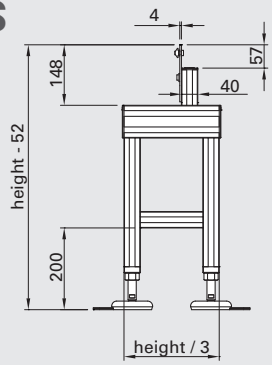
Technical Data
Material: clear anodized aluminum; galvanized GD-Zn; galvanized steel; rubber

Scope of Delivery
Stand segment fully assembled and attached to belt conveyor if applicable



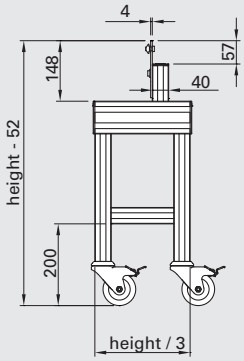
Stand Types: Single Lane

S



Leveling bases BAS 1120
Height adjustment ± 30 mm

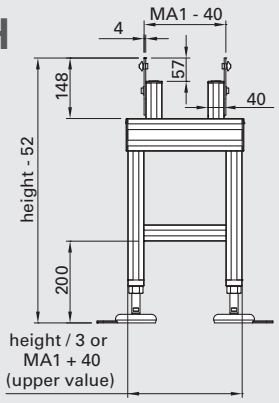
R



Swivel castors with brake CAS 3080

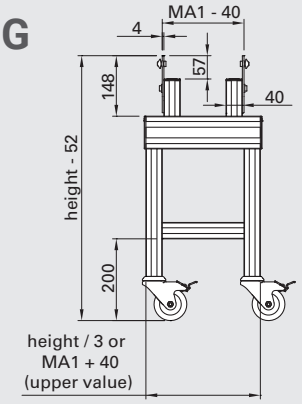
Stand Types: Double Lanes

H



Leveling bases BAS 1120
Height adjustment ± 30 mm

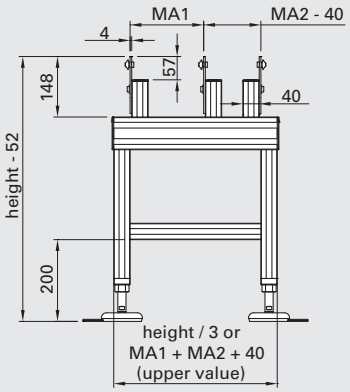
G



Swivel castors with brake CAS 3080

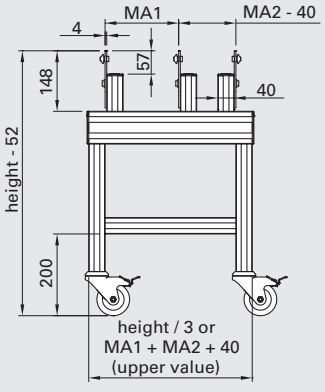
Stand Types: Triple Lane

K



Leveling bases BAS 1120
Height adjustment ± 30 mm

M



Swivel castors with brake CAS 3080

Order Code

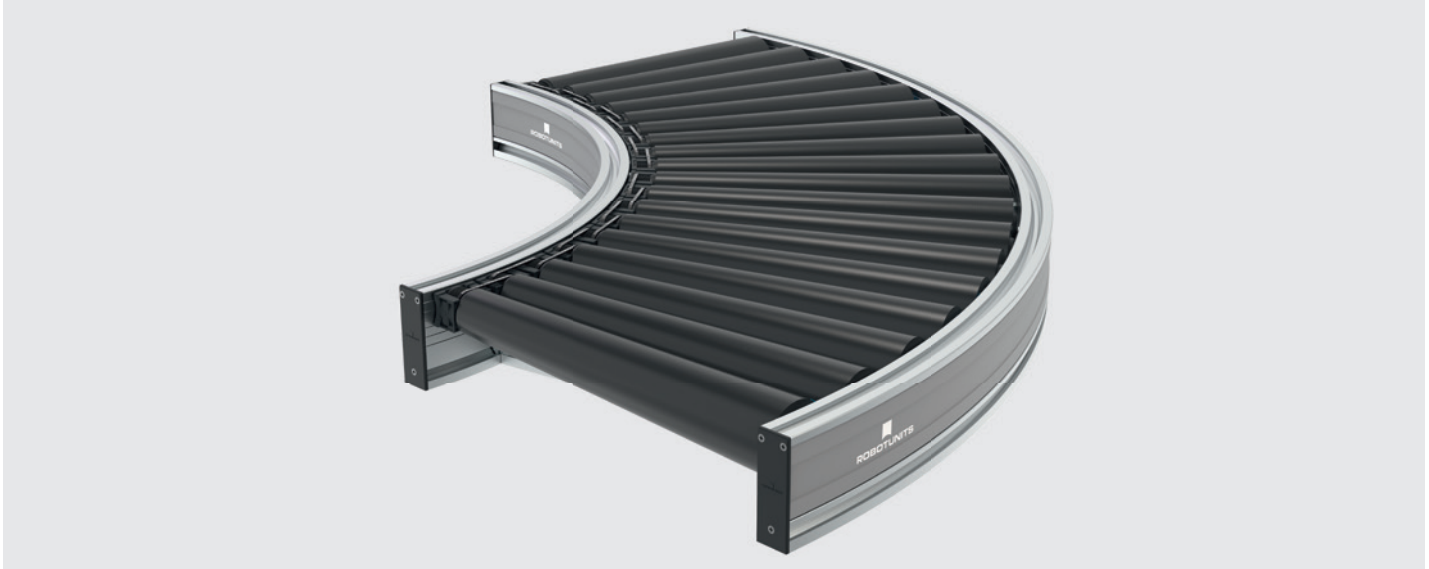
	Order Code[1]				
Description	Length	Type	Height	MA1	MA2
Stand for C8T	C8G ____	_ NN	____	____	____

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

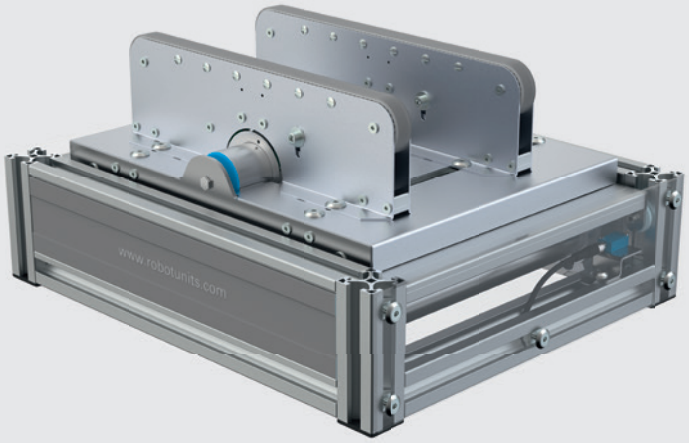
Powered Roller Conveyor Straight

Powered Roller Conveyor Merge

Powered Roller Conveyor Curved



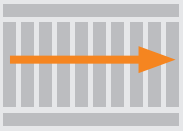
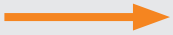
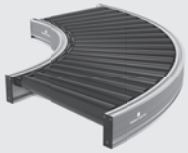
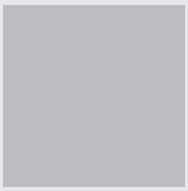
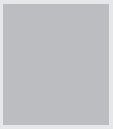
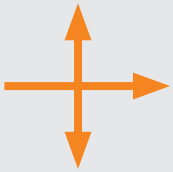
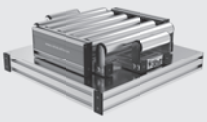
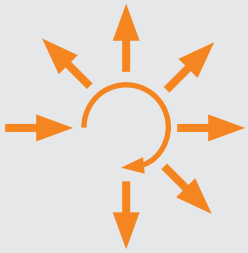
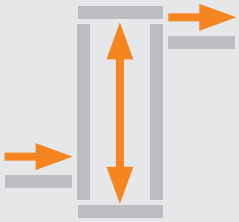
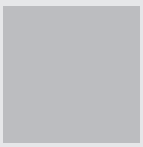
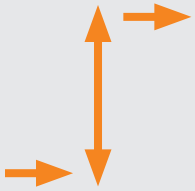
Transfer Unit 90°



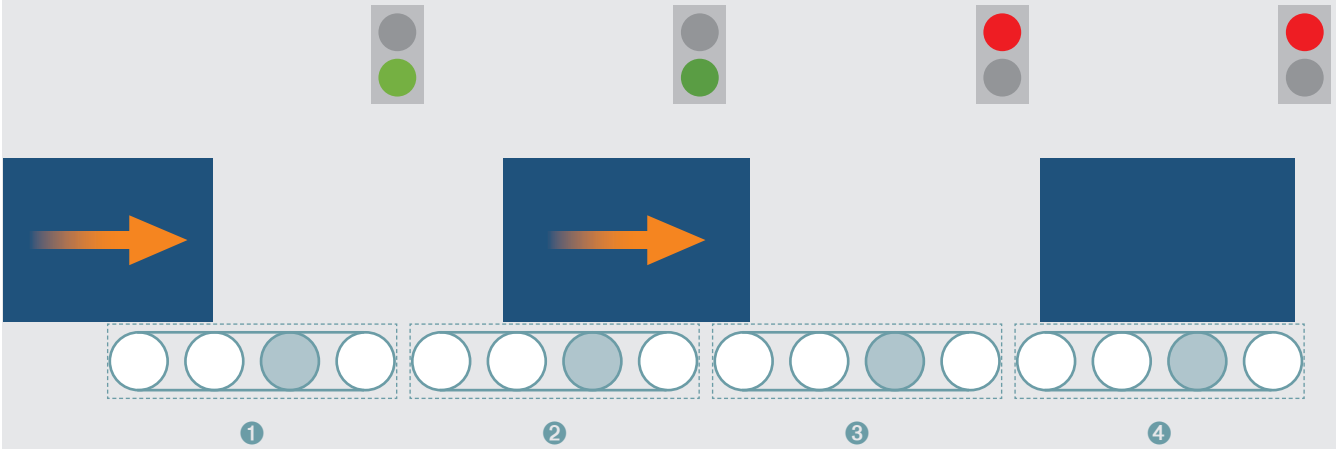
Turntable

Lift Station

Powered Roller Conveyor Modules

Module	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	

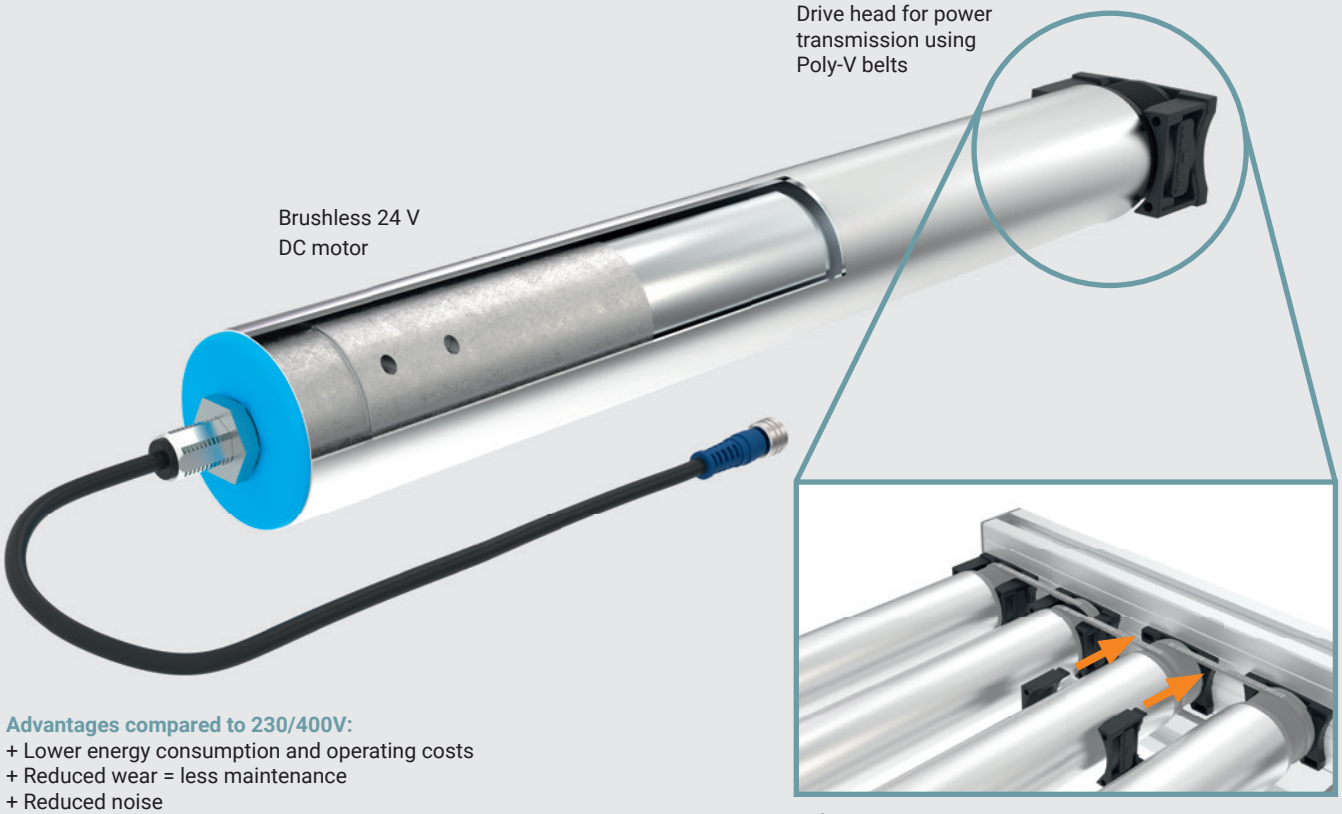
Zero Pressure Accumulation



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 = engery 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

Safeguard integrated into roller

R5S Powered Roller Conveyor Straight

Side Guides for Powered Roller Conveyors
see page 47

Supported control protocols:

PROFINET Modbus CC-Link
EtherNet/IP EtherCAT

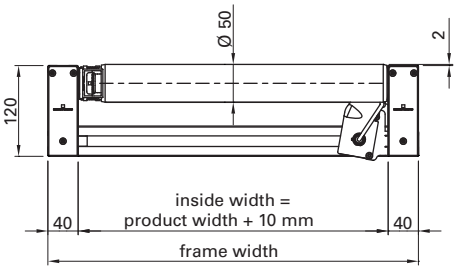
Application
Zero pressure accumulation of products in various sizes.

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

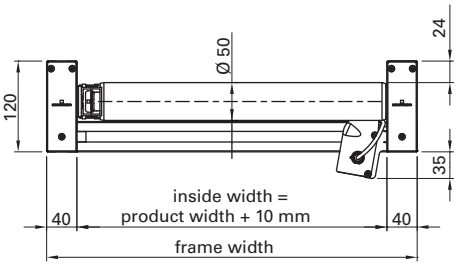
Control Unit:
Completely pre-installed incl. sensors

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

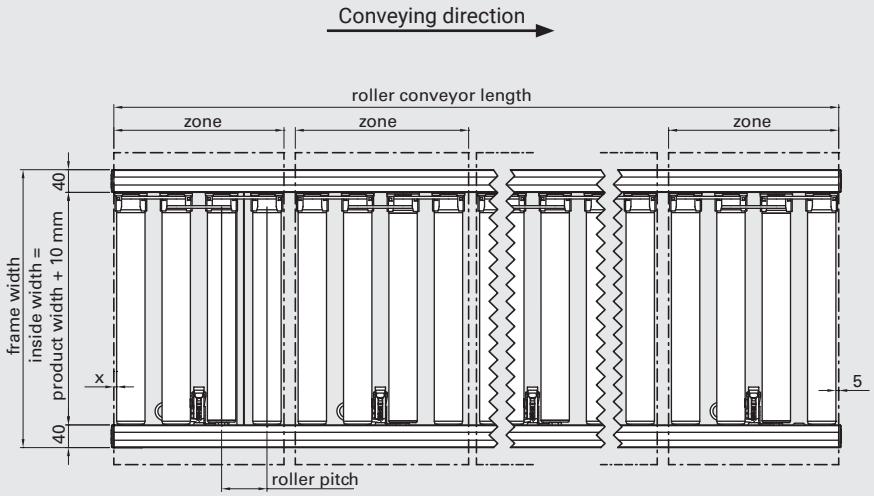
Option without side guides



Option with side guides



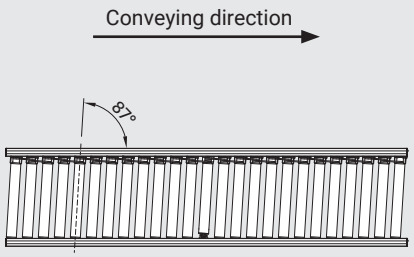
Dimensions



x: Depends on the product length

Variant

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

R5M Powered Roller Conveyor Merge

Side Guides for Powered Roller Conveyors see page 47

Supported control protocols:

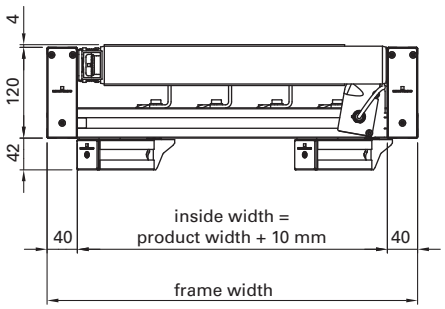
PROFINET Modbus CC-Link EtherNet/IP EtherCAT

Application
Zero Pressure accumulation conveying and merging into an existing conveyor line

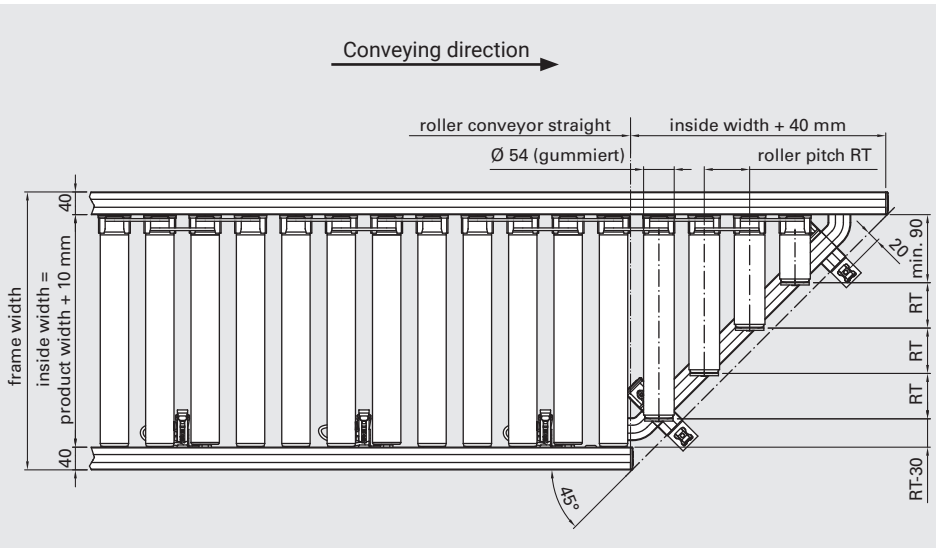
Technical Data
Brushless 24 V DC motor
Speed Code / Speed:
15 = 2 to 20 m/min (Alternative)
20 = 10 to 28 m/min (Standard)
35 = 15 to 50 m/min (Alternative)
Temperature range: from +2°C to +40°C
Max. Continuous current per motorized roller: 2.5 A
Ø Continuous current per motor roller: 1.5 A
Conveyor 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 and control cabinet

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

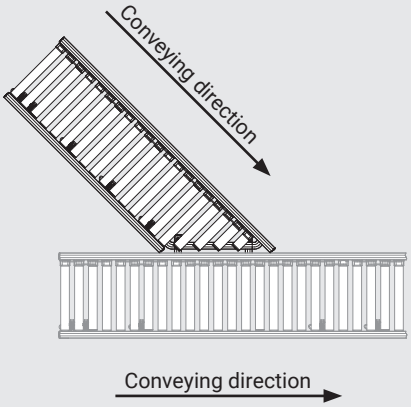


Dimensions



Layout

Powered Roller Conveyor Straight with Merge



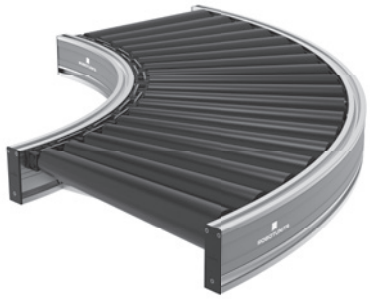
Standard Dimensions

Description	Box (LxB)	Inside width	Frame width	Roller pitch	Standard length 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.

Drawing dimensions in mm

R5C Powered Roller Conveyor Curved



Side Guides for Powered Roller Conveyors
see page 47

Supported control protocols:

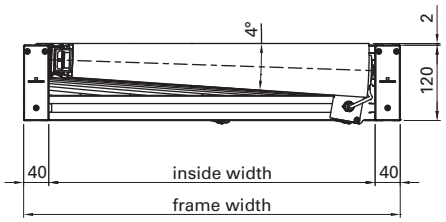
PROFINET Modbus CC-Link
EtherNet/IP EtherCAT

Application
Zero pressure accumulation of products in various sizes.

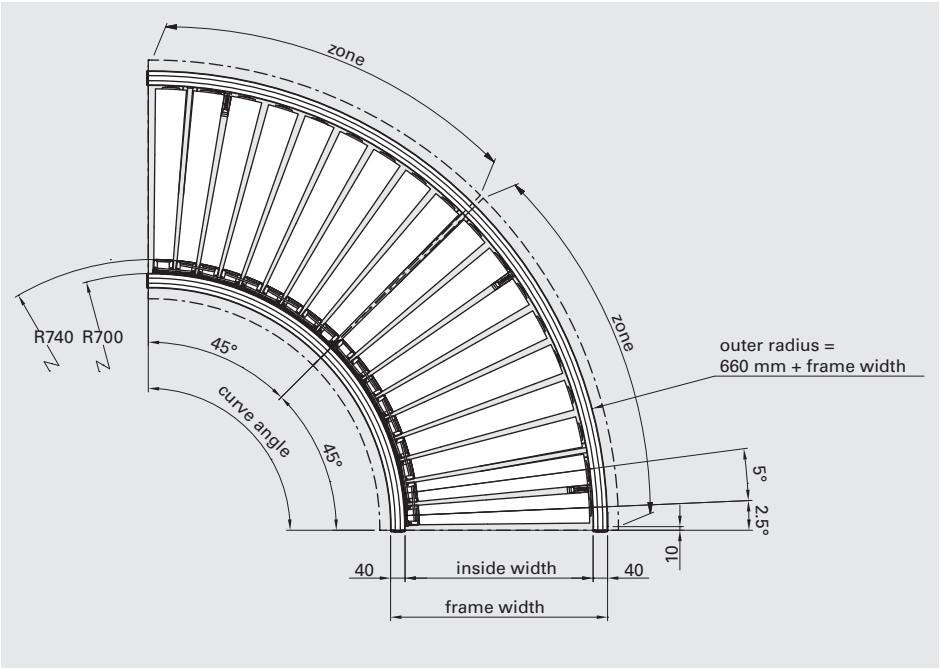
Technical Data
Brushless 24 V DC motor
Speed Code / Speed:
15 = 2 to 20 m/min (Alternative)
20 = 10 to 28 m/min (Standard)
35 = 15 to 50 m/min (Alternative)
Temperature range: from +2°C to +40°C
Max. Continuous current per motorized roller: 2.5 A
Ø Continuous current per motor roller: 1.5 A
Conveyor 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

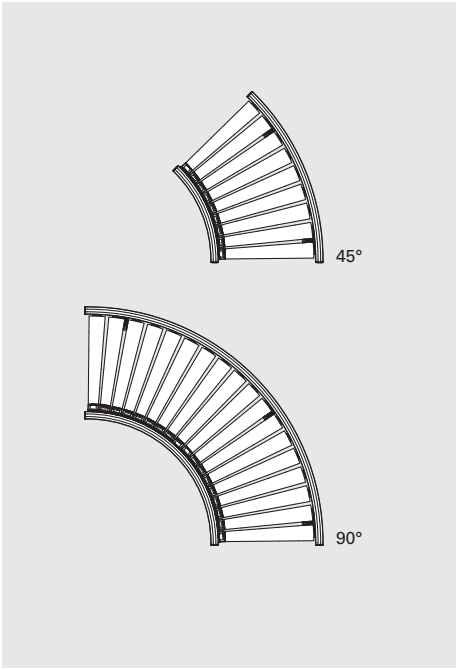
Configuration:
Zero pressure accumulation control logic (not with EtherCAT)



Dimensions



Standard Angles



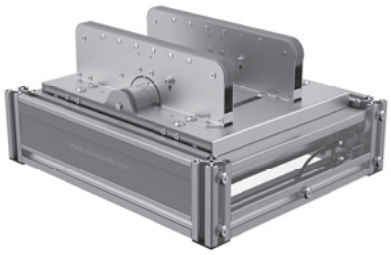
The inside width depends on the dimensions of the transported product. Inside width min. 310 mm, inside width max. 1040 mm
Special curve angles are available on request.

Request For Quote / Order

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

Drawing dimensions in mm

R5T Transfer Unit 90°



Side Guides for Powered Roller Conveyors see page 47

Supported control protocols:

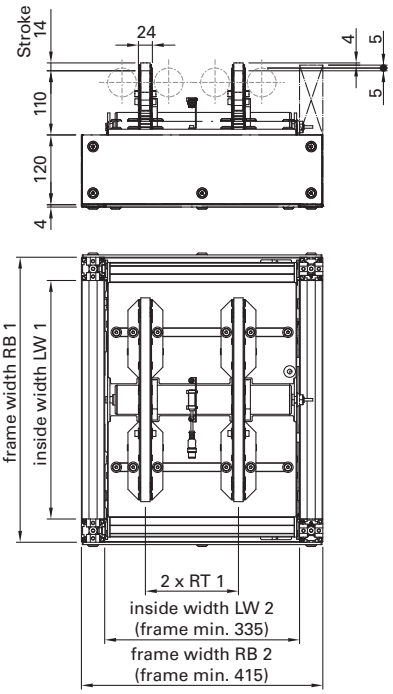
PROFINET® Modbus CC-Link EtherNet/IP EtherCAT

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

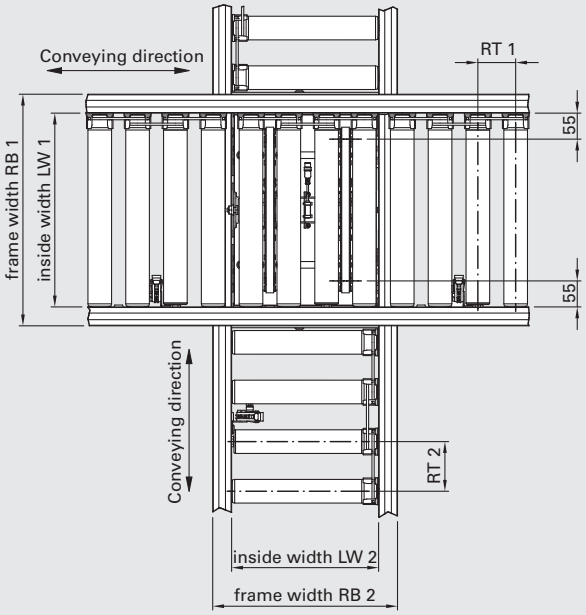
Technical Data
Motor: 24 V DC motor for lift motion with a temperature range from +2°C to +40°C
Max. Continuous current per motorized roller: 3.5 A
Roller material: galvanized steel
Timing belt material: PU
Time for Stroke: 0.5 s
Max. product load: 50 kg

Control unit:
Completely pre-installed incl. sensors

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



Dimensions



Standard Dimensions

		Powered Roller Conveyor with Transfer Unit 90°			In-feed or out-feed Powered Roller Conveyor		
Description	Box (LxB)	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

R5R Turntable With Powered Roller Conveyor

Side Guides for Powered Roller Conveyors
see page 47

Supported control protocols:

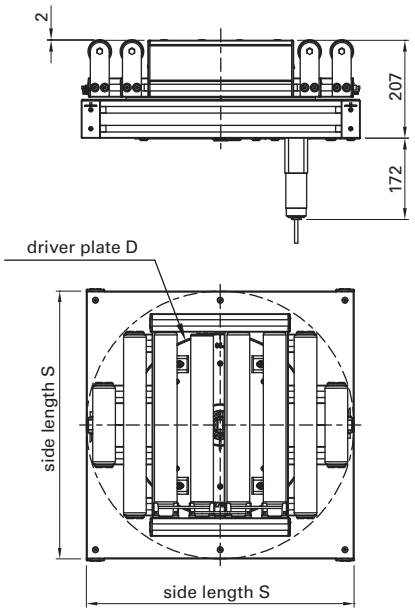
PROFINET® Modbus CC-Link
EtherNet/IP EtherCAT

Application
Correctly positioned turning of products in various sizes

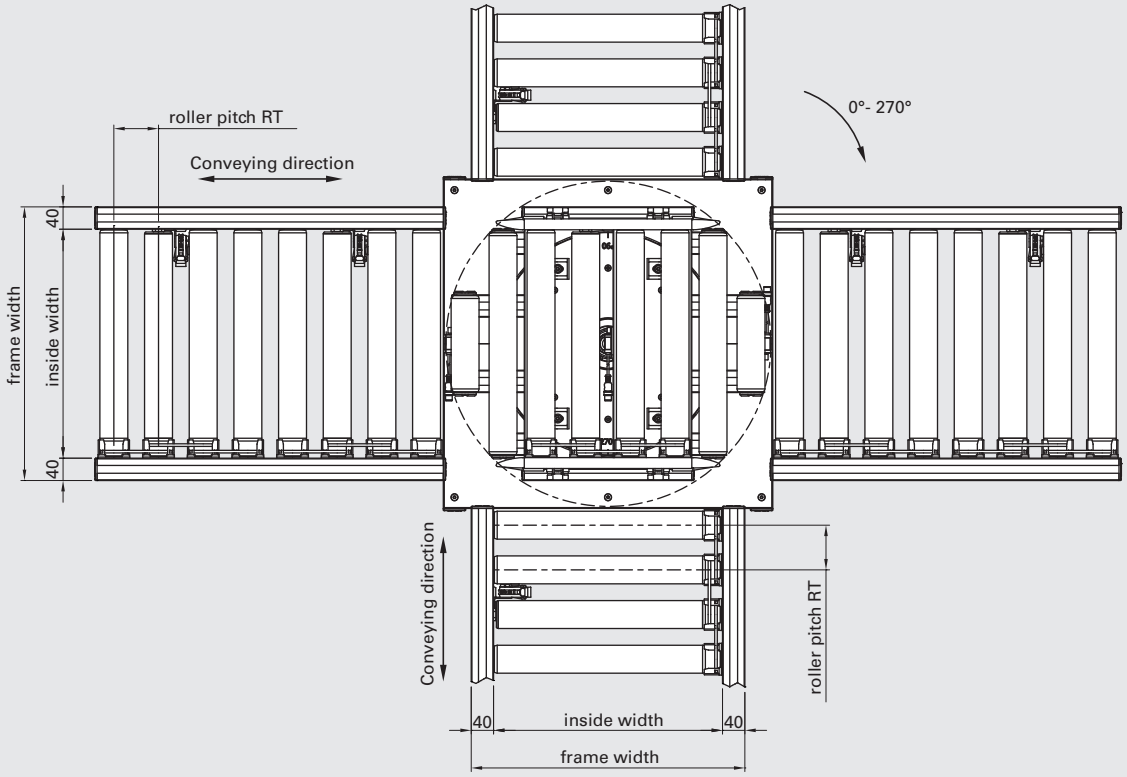
Technical Data
Brushless 24 V DC motor for lift and belt
Temperature range from +2°C to +40°C
Max. Continuous current per motorized roller: 2.5 A
Turning range: 0° – 270°
Cycle time for 90°: 2.5 s
Max. product load: 50 kg

Control unit:
Completely pre-installed incl. sensors

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



Dimensions



Standard Dimensions

		Roller Conveyor on the Turntable			Turntable	
Description	Box (LxW)	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

Side Guides for Powered Roller Conveyors
see page 47

Supported control protocols:

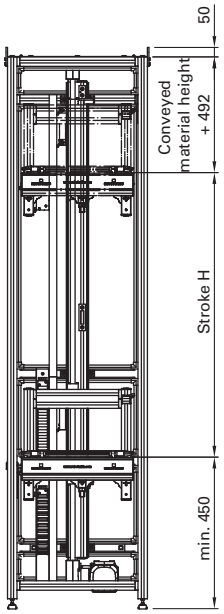
PROFINET® Modbus CC-Link
EtherNet/IP EtherCAT

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

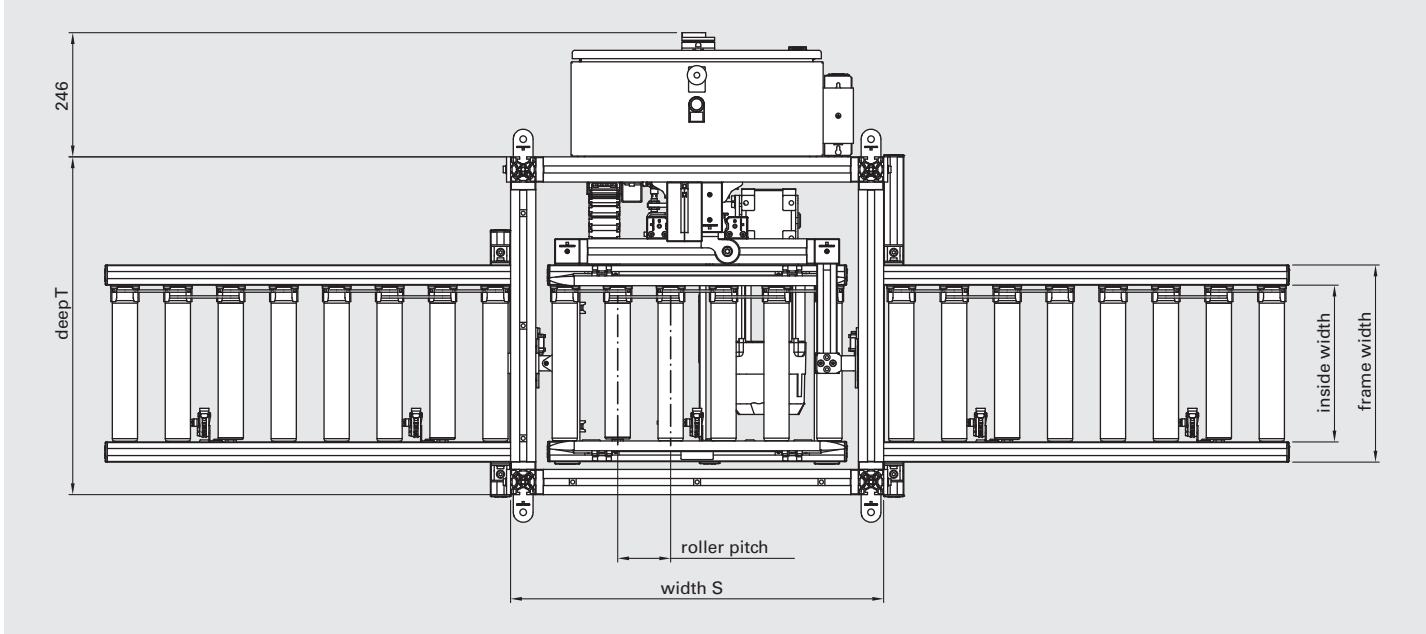
Technical Data
Lift station with three-phase geared motor 400V
Speed max. 1 m/s
Acceleration max. 0,7 m/s²
Roller conveyor with brushless 24V DC motor
Speeds from 10 to 28 m/min
Temperature range from + 2°C bis + 40°C
Frame material: clear anodized aluminum
Enclosure with polycarbonate panels, optional 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)



Dimensions



Standard Dimensions

		Roller Conveyor with Lift Station			Lift Station	
Description	Box (LxW)	Inside width	Frame width	Roller pitch	Base area (SxT)	Max. Hub 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.

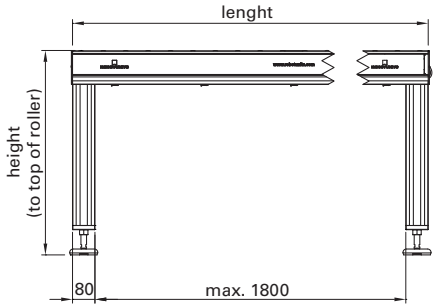
Drawing dimensions in mm

R5F Stand for R5S

Application
Stand for Powered Roller Conveyor Straight

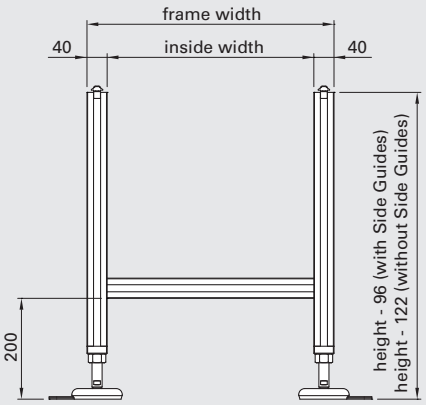
Technical Data
Material: clear anodized aluminum, galvanized GD-Zn, galvanized steel, PA 6 or rubber

Scope of Delivery
Stand segment fully assembled



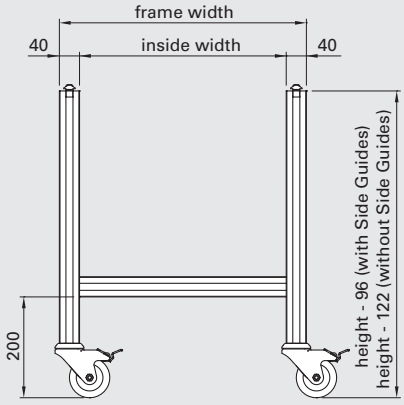
Standard Conveyor Stand

S



Leveling bases BAS 1120
Height adjustment ± 30 mm

R



Swivel Castors with brake
CAS 3080

Order Code

Description	Order Code[1]			
		Frame width	Type	Height
Stand for R5S	R5F	_ _ _ _	_ NN	_ _ _ _

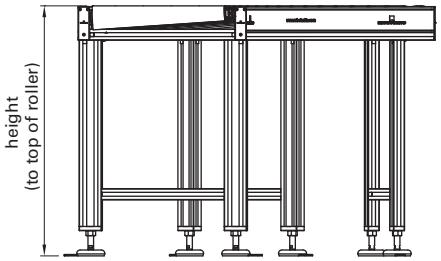
1) Please complete the order code by adding the corresponding parameters for order processing.
Drawing dimensions in mm

R5G Stand for R5C

Application
Stand for Powered Roller Conveyor Curved

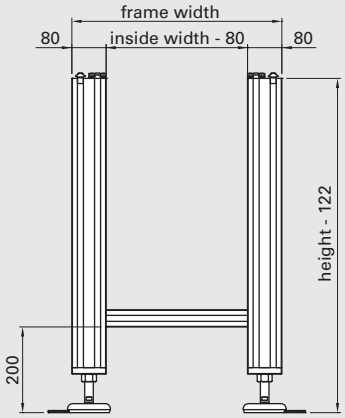
Technical Data
Material: clear anodized aluminum, galvanized GD-Zn, galvanized steel, PA 6 or rubber

Scope of Delivery
Stand segment fully assembled



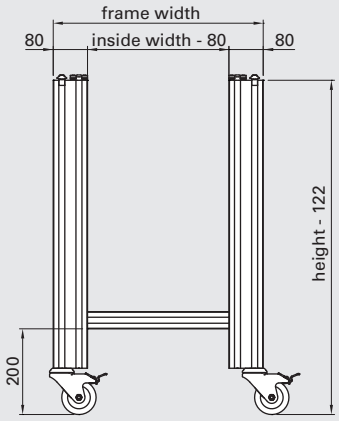
Standard Conveyor Stand

S



Leveling bases BAS 1120
Height adjustment ± 30 mm

R



Swivel Castors with brake
CAS 3080

Order Code

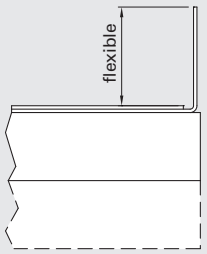
Description	Order Code[1]			
		Frame width	Type	Height
Stand for R5C	R5G	_ _ _ _	_ NN	_ _ _ _

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

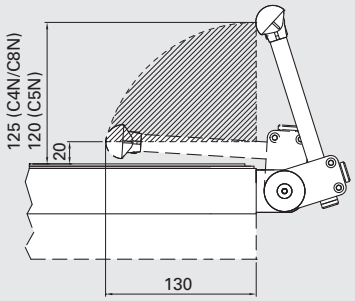
Belt Conveyor (integrated)

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

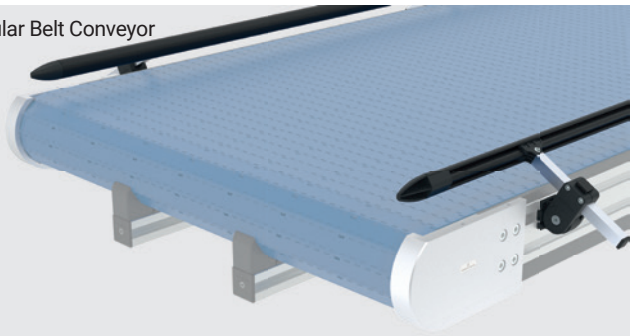


Belt Conveyor

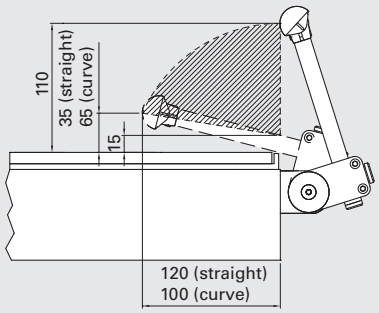
Guide range with standard square tube length:
150 mm
(special length possible)



Modular Belt Conveyor

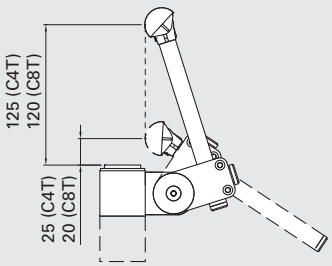


Guide range with standard square tube length:
150 mm
(special length possible)

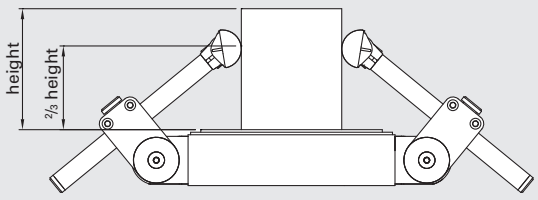


Timing Belt Conveyor

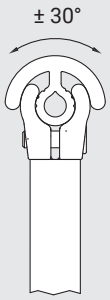
Guide range with standard square tube length:
150 mm
(special length possible)



Construction



Recommended height for side guide

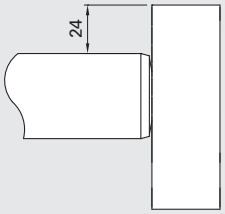


Adjustment range side guide

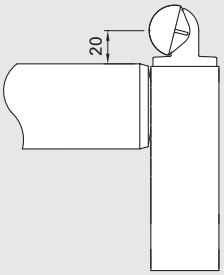
Side Guide System for Powered Roller Conveyors

Integrated (only with Powered Roller Conveyor Straight)

see catalog page 38

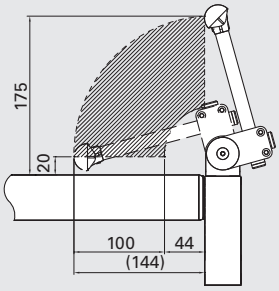


Rigid



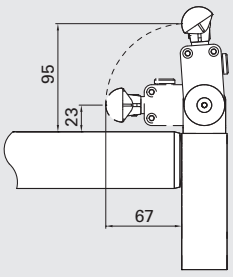
Flexible, with overhang

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

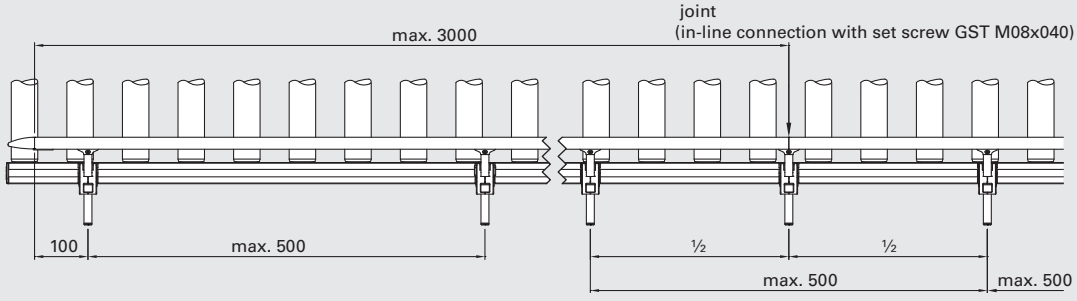


Flexible, without overhang

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



Assembly



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

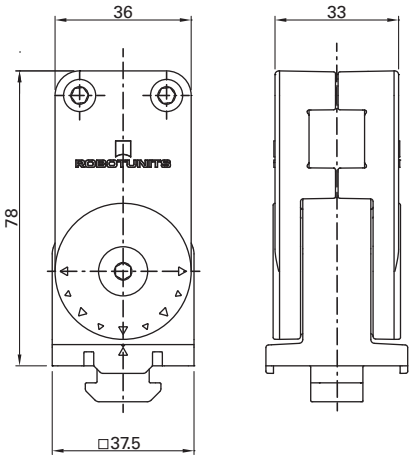
COP4561 Side Guide Base

Application
For individual positioning of side guides

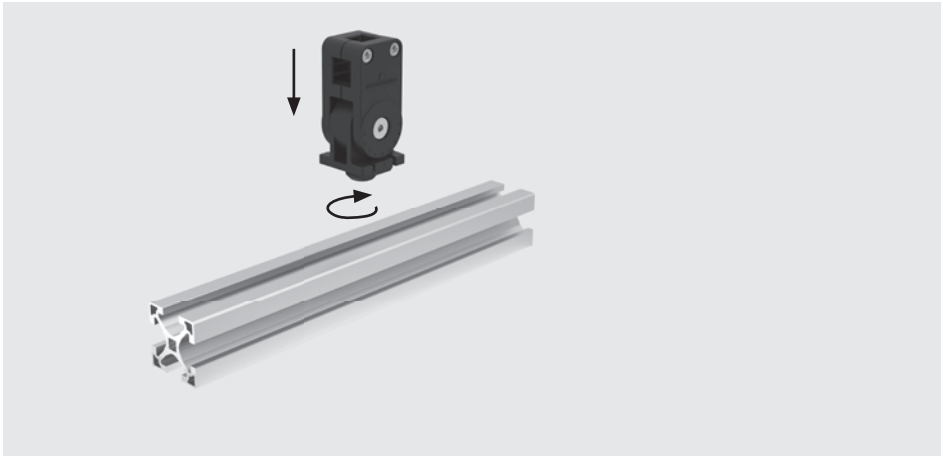
Technical Data
Material:
Basic part: PA6 black
Brackets: PA6 GF30 black
End cap: 18x18 PE-LLD
Hardware material: Galvanized steel

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

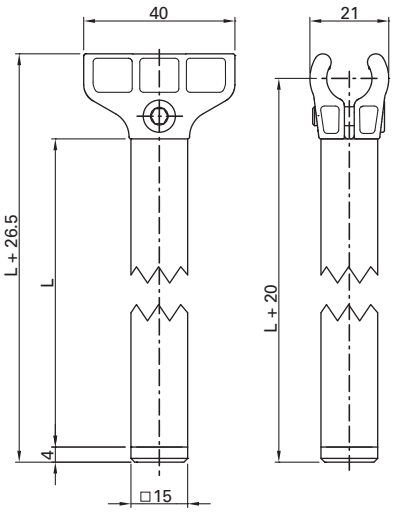
Description	Order Code	Weight
Side Guide Base	COP4561	0.095 kg

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

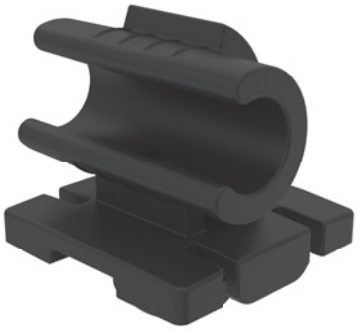


Order Code

Description	Order Code[1]	Weight
Side Guide Clamp with Rod, length 150 mm	COP9001	0.045 kg
Side Guide Clamp with Rod, cut to length	COL9000SNN	

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

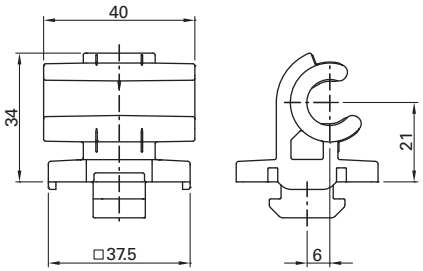
COP4570 Side Guide Clip



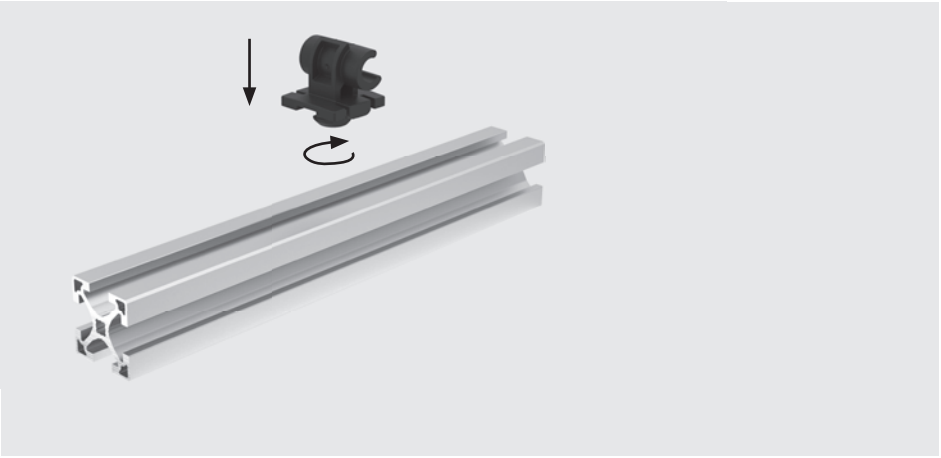
Application
To accomodate side guides

Technical Data
Material: PA6 black

Scope of Delivery
10 Side Guide Clips



Assembly



Order Code

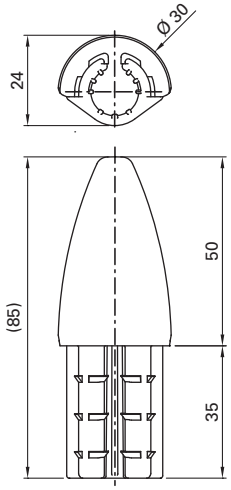
Description	Order Code	Weight/Piece
Side Guide Clip, pack of 10 pcs.	COP4570	0.020 kg

COP4590 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

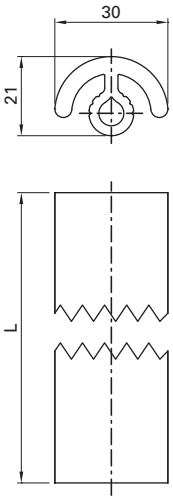
Description	Order Code	Weight/Piece
Side Guide End Piece, pack of 4 pcs.	COP4590	0.010 kg

COL4590 Side Guide Plastic

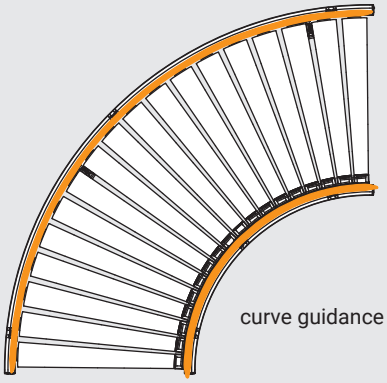
Application
Side Guide for conveyors

Technical Data
Material: PVC-U black

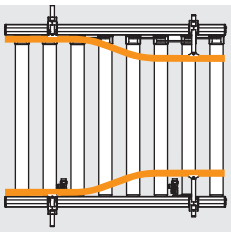
Plastic profile is thermoformable by using a heat gun (softening point 80°C)



Application



curve guidance



funneling of product

Order Code

Description	Order Code[1]	Weight/Meter
Side Guide Plastic, stock length 3000 mm	COL4590NNN	0.340 kg
Side Guide Plastic, cut to length	COL4590SNN	0.340 kg

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