



Easy conveyors by

Easy conveyors by is a company with 25 years of experience in the field of intralogistic conveyor components, we have specialised ourselves in developing modular components for the production of Belt conveyors, Table top conveyors, Mat top conveyors and Roller conveyors. All our products are being developed with the "modular thought"



...conveyors

Quality with innovative solutions

At Easy conveyors, we believe in delivering precision in our products and services, there's simply no compromising in the quality of our products and services. We make it our business to understand your needs and requirements. This is to ensure that our continuous R&D effort for technological breakthrough enables your business to maintain its competitive advantage while delivering more value to your customers Flexibility in fulfilling infinite potential. Today's dynamic business environment requires businesses to constantly evolve with technology and new customer requirements. With this in mind, Easy conveyors components are designed to get the best out of your investment and realise the unlimited potential of your business.

Efficiency for all businesses

At end of the day, all businesses depend on their bottom lines. Results, that's all that matters and Easy conveyors has continuously raised and set the benchmark to cater to the needs and budgets of various industries.

We work towards ensuring optimal results for businesses with our cost-efficient systems that afford you with...

01 Fast layout capability

05 Enhanced productivity

02 Minimal component variation

04 Effective space utilization

06 Low maintenance

03 Design simplicity

07 User-friendliness

Distribution network

Easy conveyors is worldwide available and has set up a well-established network of exclusive distributors or integrators. Our partners are able to offer you the complete solution integrating our components. Deliveries of our components are being made out of our major stock facilities in Europe, North America, Australia and Asia, from these locations orders from the product configurator can be shipped out with 24 hours lead time.

Product configurator online

Easy conveyors offers an online engineering tool, where you can configure your desired conveyor online by answering a few simple questions. The configurator will generate the desired conveyor and you can download the file in the selected cad format.

TRY OUT ON WWW.EASY-CONVEYORS.COM

LOGIC THE EASY WAY #808088B Q D D C D D LOGIC THE EASY WAY CORNEL DE LOGIC THE EASY WAY LOGIC THE EASY WAY

1

All our products are available online, you can either configure an EBS belt conveyor, EMBS mat top conveyor, ETS table top conveyor, EMCS mat top conveyor or a ERA roller conveyor by selecting the product under product and cad button.

2

For example we choose an EBS belt conveyor, we need to know A & B size

When we scroll down you can select the type of cad format.

3

In this part you have to fill in the desired length, width, speed, weight etc. to configure the conveyor.

4

In this part the backoffice will calculate the needed power and if it fit is all possible with this conveyor.

Online product configurator

Go to www.easy-conveyors.com
and click on product configurator
and experience the simplicity
of easy conveyors





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(Drive control | excl. sensor kit)

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ERS BELT CONVEYOR

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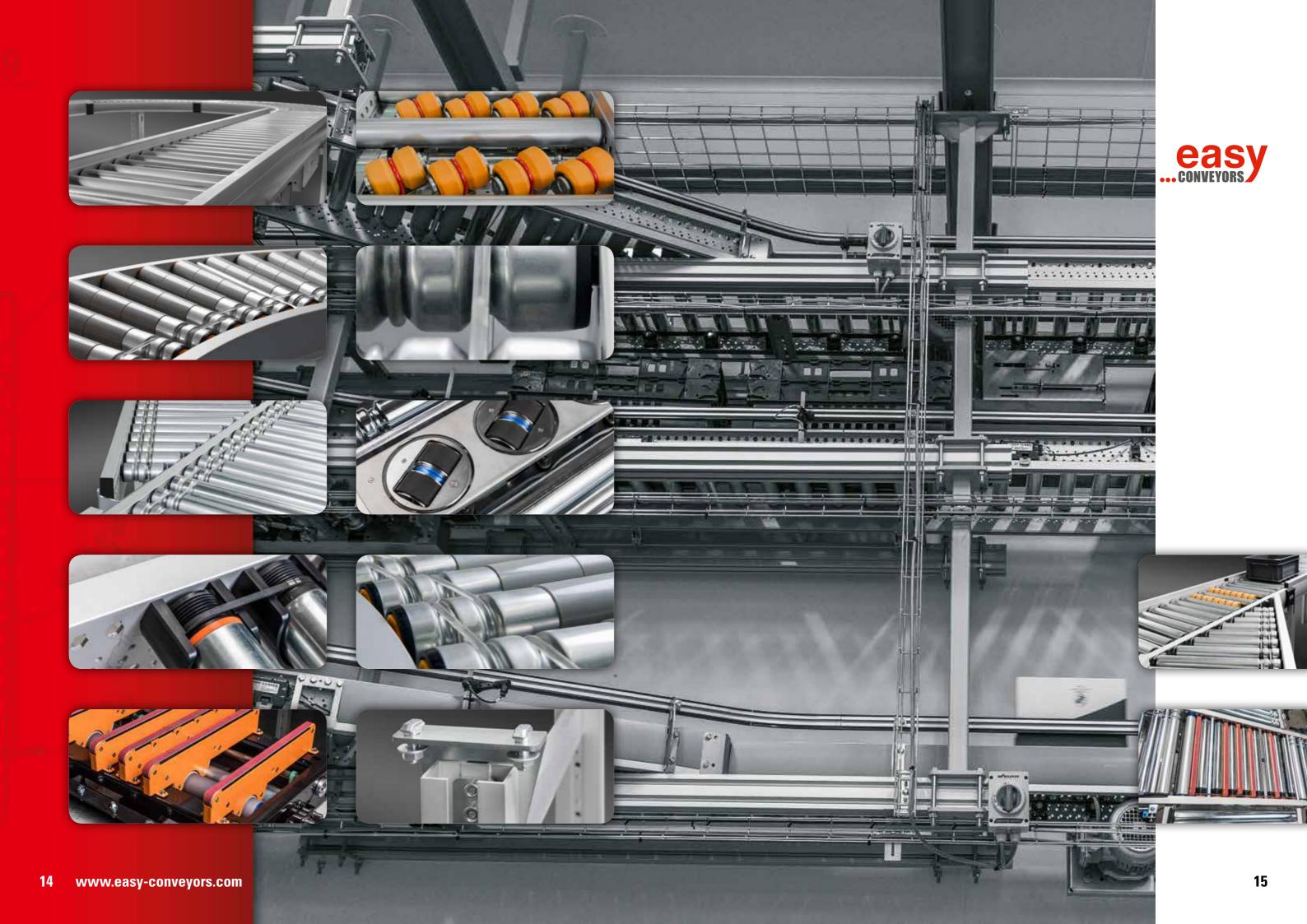
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ROLLER CONVEYOR GRAVITY ERS 50





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CONVEYING WITHOUT A DRIVE

Simple

EASY gravity roller conveyors transports products manually or by gravity via decline, they are used for assembly and picking lines, they include straight and curved sections, ball tables with ball rollers, they complement integrated systems.

 $\label{eq:Flexible} \textbf{Flexible and easy to us}$

EASY gravity Roller Conveyor are supplied in modular form and can be combined with all other Easy Conveyors in this catalogue.



GRAVITY ROLLER CONVEYOR ERS 50

The gravity, straight roller conveyor transports material either manually or over agradient via gravity. It is mostly used for assembly and picking lines as well as for dynamic storage systems.

Roller Conveyors Gravity ERS 50 Straight

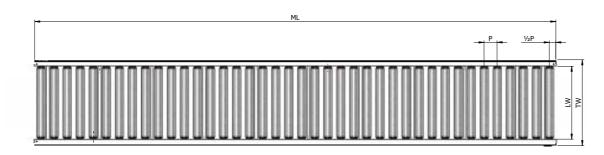


TECHNICAL DATA



General technical data		
Max. load capacity	100 kg	
Inclined/declined	Suitable for decline	
Ambient temperature	-5 to +50 °C	
Roller		
Roller bearing	Sealed Precision ball bearing 6002 2RZ	
Roller diameter	50 mm	
Roller material	Steel, zinc-plated	
Side profile		
Profile H	151,5 mm high 31,5 mm above top edge of roller	31.50
Profile L	Permits lateral displacement 116 mm high 4 mm below top edge of roller	911
Combination of profile heights left/right	HH (1====) HL (1=====) LH (1=====) L	

DIMENSIONS





Dimensions

LW Clearance	420 / 520 / 620 / 820 mm
ML Max. module length	3000 mm
TW Module width	LW + 75 mm
P Roller pitch	75 / 100 mm
SP Side profile	116 /151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 50**

2 Clearance LW Friction Top Roller put F behind the LW Example 50 - 420F - 75 - 420 | 520 | 620 | 820

3 Roller pitch P in mm **A** 75 | 100

4 Module length ML in mm

A min 300 mm, numbers of rollers x P, max 3000 mm

5 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number:

50 - 420 - 100 - 3000 - HH

This reference number stands for Gravity Roller Conveyor ERS 50 with a clearance LW 420 mm, a roller pitch P 100 mm, a module length ML 3000 mm and both sides high side profile.

ORDER INFORMATION• The module is fully assembled

- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR

• If you require a non-standard model, contact your local Easy Supplier.

- Support stands, see PAGE 104
- Accessoires, see PAGE 114











GRAVITY ROLLER CONVEYOR CURVE ERS 50

Gravity roller conveyor curves change the direction of transport of material. Material is manually pushed around the curve. The alignment of the material is maintained within the side frames by tapered rollers.

Roller Conveyors Gravity

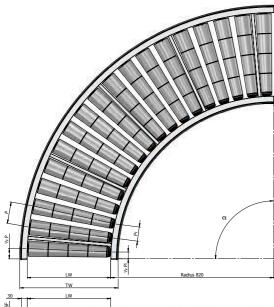


TECHNICAL DATA

easy
CONVEYORS

	••• GUNVEYU	JK9
General technical data		
Max. load capacity	100 kg	
Inclined/declined	Not suitable	
Ambient temperature	-5 to +50 °C	
Roller		
Roller bearing	Sealed Precision ball bearing 6002 2RZ	
Roller diameter	50 mm	
Roller material	Steel, with grey tapered polypropylene sleeves	
Max. number of rollers per conveyor/zone	18 at 90°	
	12 at 60°	
	9 at 45°	
	6 at 30°	
Side profile		
Profile H	151,5 mm high	2 52
	31,5 mm above top edge of roller	31.50
Profile L	Permits lateral displacement	
	116 mm high	
	4 mm below top edge of roller	
Combination of profile heights left/right		

DIMENSIONS



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LW Clearance	420 / 520 / 620 / 820 mm
TW Module width	LW + 75 mm
α Angle	30° / 45° / 60° / 90°
P Roller pitch, external	~ (0.087 mm x LW) + Pi
Pi Roller pitch, internal	~ 72 mm
SP Side profile	151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 50**

2 Clearance LW 420 | 520 | 620 | 820

3 Angle α 30° | 45° | 60° | 90°

4 CCW = counter clock wise CW = clock wise



5 Side profiles HH|HL|LH|LL

ORDER EXAMPLE

Example for a reference number: 50 - 620 - 90 - CW - HH

This reference number stands for Gravity Roller Conveyor ERS 50 with a clearance LW 620 mm and an angle of 90°, product flow CW and both sides high side profile.

ORDER INFORMATION• The module is fully assembled

- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR

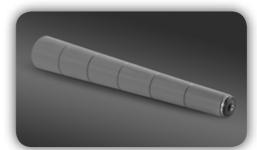
• If you require a non-standard model, contact your local Easy Supplier.

- Support stands, see PAGE 104
- Accessoires, see PAGE 114













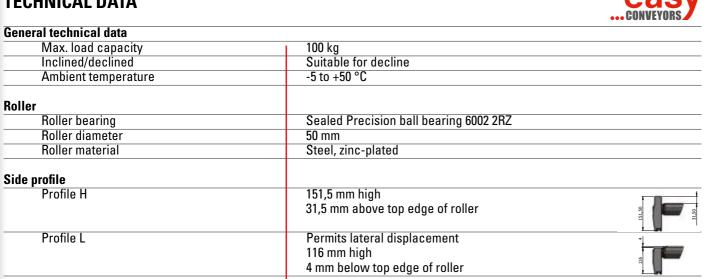
GRAVITY INFEED ROLLER CONVEYOR ERS 50

The gravity, straight roller conveyor transports material either manually or over a gradient via gravity. It is mostly used for assembly and picking lines as well as for dynamic storage systems.

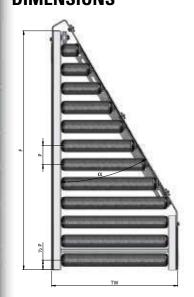
Roller Conveyors Gravity ERS 50 Infeed



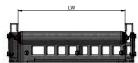
TECHNICAL DATA



DIMENSIONS



Combination of profile heights left/right



					_		
F-1	850	TO PION	TO THE	ION TO	161	101 101	b
2000		90 30	90 00	99 79	00	00 000	
		100000	244 146	- CARLES			

Dimensions

LW Clearance	420 / 520 / 620 / 820 mm
F Max. module length	See application Notes P118
TW Module width	LW + 75 mm
P Roller pitch	75 mm
SP Side profile	116 /151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE ERS 50

2 Clearance LW420 | 520 | 620 | 820

Friction Top Roller put **F** behind the **LW**Example 50 - 420F - 75 -

3 Roller pitch P in mm 75

4 Angle α 30° | 45°

5 Infeed position
LH | RH LH

6 Infeed

7 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number: 50 - 420 - 100 - 30 - I - LH - HH

This reference number stands for Gravity Roller Conveyor ERS 50 with a clearance LW 420 mm, a roller pitch P 100 mm, an angle of 30°, infeed, a left hand infeed and both sides high side profile.

ORDER INFORMATION

- The module is fully assembled
- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR

 If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114









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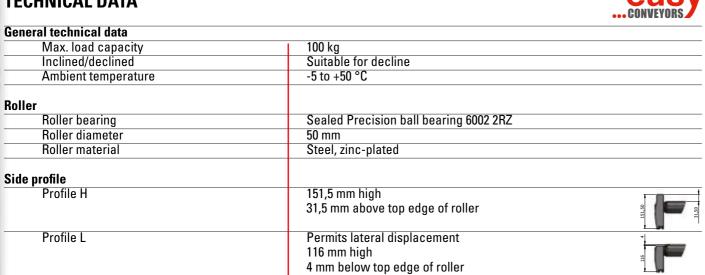


GRAVITY OUTFEED ROLLER CONVEYOR

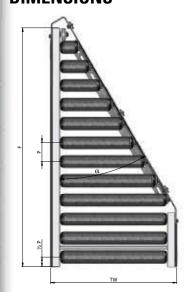
The gravity, straight roller conveyor transports material either manually or over a gradient via gravity. It is mostly used for assembly and picking lines as well as for dynamic storage systems. **Roller Conveyors** Gravity **ERS 50** Outfeed



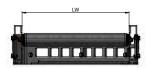
TECHNICAL DATA



DIMENSIONS



Combination of profile heights left/right



F 1	300	I OF THE	10, 10,	IO NO.	10, 10,	10, 4
1000		99 39	99 99	99. 79.	99 99	999

Dimensions

2	
LW Clearance	420 / 520 / 620 / 820 mm
F Max. module length	See application Notes PAGE 118
TW Module width	LW + 75 mm
P Roller pitch	75 mm
SP Side profile	116 /151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 50**

2 Clearance LW Friction Top Roller put F behind the LW Example 50 - 420F - 75 - 420 | 520 | 620 | 820

3 Roller pitch P in mm 75

4 Angle α 30° | 45°

5 Outfeed position LH | RH

6 Outfeed 0

7 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number: 50 - 420 - 100 - 30 - 0 - LH - HH

This reference number stands for Gravity Roller Conveyor ERS 50 with a clearance LW 420 mm, a roller pitch P 100 mm, an angle of 30°, oufeed, a left hand outfeed and both sides high side profile

ORDER INFORMATION• The module is fully assembled

- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR

• If you require a non-standard model, contact your local EASY Supplier.

- Support stands, see PAGE 104
- Accessoires, see PAGE 114









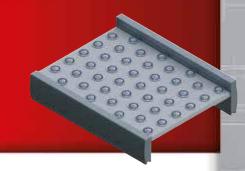
GRAVITY BALL TABLE ERS 50A

easy

The ball table enables material to be moved horizontally in any direction with very little force. It is especially suitable for workstation and inspection areas. The ball

fitted into a sub frame assembled to standard aluminium side profiles to allow the ball table section to be easily integrated into a conveyor system.

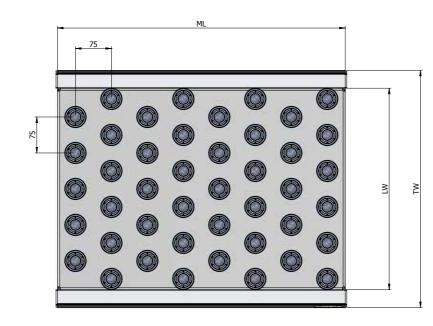
Roller Conveyors Gravity **ERS 50 Ball Table**

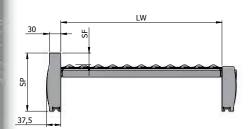


TECHNICAL DATA

1 20111110112 271111		CONVEYORS
General technical data		
Max. load capacity	100 kg	
Inclined/declined	Suitable for decline	
Ambient temperature	-5 to +50 °C	
Side profile		
Profile H	151,5 mm high	1.0
	31,5 mm above top edge of roller	31.50
Profile L	Permits lateral displacement	4
	116 mm high	9
	4 mm below top edge of roller	7
Combination of profile heights left/right		

DIMENSIONS





Dimensions	
LW Clearance	420 / 520 / 620 / 820 mm
ML Max. module length	3000 mm
TW Module width	LW + 75 mm
Pitch	75 mm
SP Side profile	116 /151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE ERS 50A 2 Clearance LW 420 | 520 | 620 | 820

3 Module length ML in mm min. 300 till 3000 mm with steps of 300 mm

4 Side profiles HH | HL | LH | LL

1	2	3	4
50A	-		

ORDER EXAMPLE

Example for a reference number: 50A - 620 - 900 - HL

This reference number stands for Gravity Ball Table ERS 50A with a clearance LW 620 mm, a module length ML 900 mm and side profiles with dimensions of 151,5/116 mm.

ORDER INFORMATION• The module is fully assembled

- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR

• If you require a non-standard model, contact your local Easy Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114



easy...conveyors



ROLLERDRIVE CONVEYOR ERS 51



NON-CONTACT CONVEYING AND SEPARATION WITH CENTRAL CONTROL

EASY roller conveyors with Roller Drive are characterized by especially low-noise and economical conveying. With control via PLC, the RollerDrive Conveyor offers maximum Simple and economical

flexibly.

Quiet operation when running without materials < 60 dB(A) with 24 VDC. Low-noise

Plug and play Ready for installation and use with pre-configured modules.













30 **ERS 51 STRAIGHT**

32 **ERS 51 CURVE**

34 ERS 51 INFEED / OUTFEED

38 **ERS 51 ALIGNMENT**

40 **ERS 51 DIVERTER**

42 **ERS 51 TRANSFER**

www.easy-conveyors.com



ROLLERDRIVE CONVEYOR

The RollerDrive Conveyor is used with a PLC as transport storage conveyors or zero accumulation pressure storage conveyors. Each drive features a digital interface to an external control (PLC) that simultaneously protects the RollerDrive from overload. Each Roller-Drive is connected via PU round belts or PolyVee belts Roller Conveyors

to the idlers.

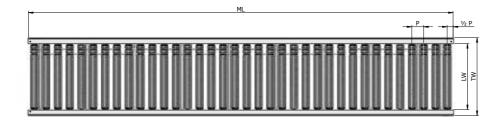
Rollerdrive ERS 51 Straight

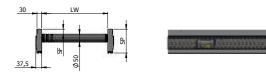
TECHNICAL DATA

	easy	
•••	CONVEYORS	

I LUIIMIUAL DAIA			
	Round belt	PolyVee belt	
General technical data		-	
Max. load capacity	50 kg	80 kg	
Conveyor speed	0,16 to 1,75 m/s	0,16 to 1,75 m/s	
Inclined/declined	Not suitable	Not suitable	
Ambient temperature	+5 to +40 °C	+5 to +40 °C	
·	Maximum load capacity is depending of	on the combination of speed & load	
Roller		•	
Roller bearing	Sealed Precision ball bearing 6002 2RZ	Sealed Precision ball bearing 6002 2RZ	
Roller diameter	50 mm	50 mm	
Roller material	Steel, zinc-plated	Steel, zinc-plated	
Max. number of rollers per conveyor/zone	11	20	
Drive Control of the			
Rated voltage	24 VDC	24 VDC	
Max. electrical power per zone	0.05 kW	0.05 kW	
Drive medium	PU round belt ø 5 mm	PolyVee belt	
Torque transmission	Roller-to-roller	Roller-to-roller	
Side profile			
Profile H	151,5 m	nm high	
		op edge of roller	
Profile L		l displacement	
		m high p edge of roller	
Combination of profile heights left/right		TH LESS TO THE SELECTION	

DIMENSIONS





Dimensions

LW Clearance	420 / 520 / 620 / 820 mm
ML Max. module length	3000 mm
ZL Zone length	Number of rollers x P
TW Module width	LW + 75 mm
P Roller pitch	75 / 100 mm
SP Side profile	116 /151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 51**

2 Clearance LW Friction Top Roller put F behind the LW 420 | 520 | 620 | 820 Example 51 - 420F - 75 -

3 Roller pitch P in mm A 75 | 100

4 Module length ML in mm

A min 300 mm, numbers of rollers x P, max 3000 mm

5 Number of zones See Application Notes PAGE 118

6 Electric side Right R / Left L

7 Drive medium Round belt PolyVee belt | P

8 Conveyor speed in m/s 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98 | 1,31 | 1,75

9 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number: 51 - 620 - 75 - 2375 - 4 - R - R - 0,33 - HH

This reference number stands for RollerDrive Conveyor ERS 51 with a clearance LW 620 mm, a roller pitch P 75 mm, a module length ML 2375 mm, 4 zones, the electric side on the right, a round belt as drive medium, a conveyor speed of 0.33 m/s and both sides high side profile.

ORDER INFORMATION• The module is fully assembled

- Please order support stands, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

- For selection of the RollerDrive please consult the information on PAGE 110
- If you require a non-standard model, contact your local Easy Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114





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ROLLERDRIVE CONVEYOR CURVE ERS 51

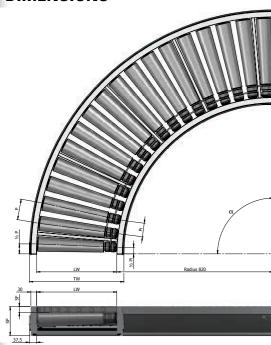
The roller conveyor curves change the direction of transport of material. The alignment of the material is maintained within the side frames by tapered rollers. Each drive features a digital interface to an external control (PLC) that simultaneously protects the RollerDrive from overloads.

Roller Conveyors Rollerdrive **ERS 51** Curve



TECHNICAL DATA		easv
	Round belt	CONVEYORS
General technical data		
Max. load capacity	50 kg	
Conveyor speed	0,16 to 1,75 m/s	
Inclined/declined	Not suitable	
Ambient temperature	+5 to +40 °C	
Roller	Maximum load capacity is depending on the combination of	speed & load
Roller bearing	Sealed Precision ball bearing 6002 2RZ	
Roller diameter	50 mm	
Roller material Steel, with grey tapered polypropylene sleeves		
Max. number of rollers per conveyor/zone	9	
Drive		
Rated voltage	24 VDC	
Max. electrical power per zone	0.05 kW	
Drive medium	PU round belt ø 5 mm	
Torque transmission	Roller-to-roller	
Side profile		
Profile H	151,5 mm high 31,5 mm above top edge of roller	151,50
Profile L	Permits lateral displacement 116 mm high 4 mm below top edge of roller	91
Combination of profile heights left/right		

DIMENSIONS



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Dimensions	
LW Clearance	420 / 520 / 620 / 820 mm
TW Module width	LW + 75 mm
α Angle	30° / 45° / 60° / 90°
P Roller pitch, external	~ (0.087 mm x LW) + Pi
Pi Roller pitch, internal	~ 72 mm
SP Side profile	151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 51**

2 Clearance LW 420 | 520 | 620 | 820

3 Angle α 30° | 45° | 60° | 90°

4 Number of zones

2 (only 90°)

5 Drive medium Round belt | R

6 Conveyor speed in m/s 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98 | 1,31 | 1,75

7 CCW = counter clock wise CW = clock wise



8 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number: 51 - 420 - 90 - 2 - R - 0,65 - CW - HH

This reference number stands for 24 VDC RollerDrive Conveyor ERS 51 with a clearance LW 420 mm, an angle 90°, 2 zones, a round belt as drive medium and a conveyor speed of 0.65 m/s, product flow CW and both sides high side profile.



ORDER INFORMATION• The module is fully assembled

- Please order support stands, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

- For selection of the RollerDrive please consult the information on PAGE 110
- If you require a non-standard model, contact your local Easy Supplier.

- Support stands, see P104
- Accessoires, see PAGE 114







ROLLERDRIVE CONVEYOR INFEED 51

The RollerDrive Merge Roller Conveyor infeed two conveyor lines together. The zones of the infeed roller conveyor are directly and independently controlled by the PLC.

Roller Conveyors Rollerdrive **ERS 51** Infeed



TECHNICAL DATA

General technical data

Max. load capacity

Conveyor speed

Inclined/declined Ambient temperature

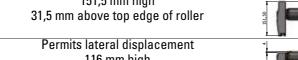
	••• GUNVEYUKS	
Round belt	PolyVee belt	
35 kg	50 kg	
0,16 to 1,75 m/s	0,16 to 1,75 m/s	
Not suitable	Not suitable	
+5 to +40 °C	+5 to +40 °C	
Maximum load capacity is depending o	on the combination of speed & load	

Roller		
Roller bearing	Sealed Precision ball bearing	Sealed Precision ball bearing
	6002 2RZ	6002 2RZ
Roller diameter	50 mm	50 mm
Roller material	Steel, zinc-plated	Steel, zinc-plated
Max. number of rollers per conveyor/zone	11	20
Drive		
Rated voltage	24 VDC	24 VDC

Drive		
Rated voltage	24 VDC	24 VDC
Max. electrical power per zone	0.05 kW	0.05 kW
Drive medium	PU round belt ø 5 mm	PolyVee belt
Torque transmission	Roller-to-roller	Roller-to-roller
Side profile		

31,5 mm above top edge of roller
Permits lateral displacement
116 mm high
4 mm below top edge of roller

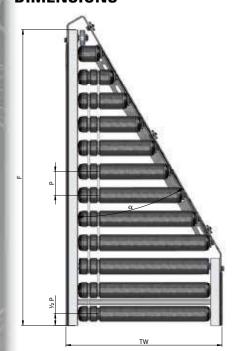
Permits lateral displacement 116 mm high	
4 mm below top edge of roller	



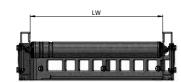


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DIMENSIONS



Combination of profile heights left/right





Dimensions

Dilliciigiulia	
LW Clearance	420 / 520 / 620 / 820 mm
TW Module width	LW + 75 mm
F Face length	See application Notes P118
α Angle	30° / 45°
P Roller pitch	75 mm
SP Side profile	151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 51** 2 Clearance LW 420 | 520 | 620 | 820

4 Angle α 30° | 45°

5 Infeed

3 Roller pitch P in mm

75

6 Infeed position Left hand Right hand i RH

7 Drive medium Round belt PolyVee belt | P

8 Conveyor speed in m/s 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98 | 1,31 | 1,75

9 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number: 51 - 420 - 75 - 30 - I - RH - R - 0,33 - HH

This reference number stands for 24 VDC RollerDrive Conveyor ERS 51 with a clearance LW 420 mm, a roller pitch P 75 mm, an angle of 30°, infeed, a right hand merge, a round belt as drive medium, a conveyor speed of 0,33 m/s and both sides high side profile.

ORDER INFORMATION• The module is fully assembled

- Please order support stands, side glides, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

- For selection of the RollerDrive please consult the information on PAGE 110
- For ML Module Lengths see application Notes PAGE 134
- If you require a non-standard model, contact your local Easy Supplier.

- Support stands, see PAGE 104
- Accessoires, see PAGE 114







ROLLERDRIVE CONVEYOR OUTFEED 51

The RollerDrive Merge Roller Conveyor outfeed two conveyor lines together. The zones of the outfeed roller conveyor are directly and independently controlled by the PLC.

Roller Conveyors **Rollerdrive ERS 51** Outfeed

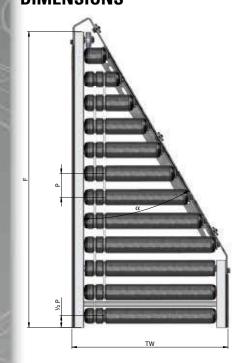


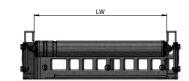
TECHNICAL DATA

easv	
CONVEYORS	
a hala	

	Round belt	PolyVee belt
General technical data		•
Max. load capacity	35 kg	50 kg
Conveyor speed	0,16 to 1,75 m/s	0,16 to 1,75 m/s
Inclined/declined	Not suitable	Not suitable
Ambient temperature	+5 to +40 °C	+5 to +40 °C
·	Maximum load capacity is depending on the combination of speed & load	
Roller	0 1 15 1 11	
Roller bearing	Sealed Precision ball bearing	Sealed Precision ball bearing
	6002 2RZ	6002 2RZ
Roller diameter	50 mm	50 mm
Roller material	Steel, zinc-plated	Steel, zinc-plated
Max. number of rollers per conveyor/zone	11	20
Drive Control of the		
Rated voltage	24 VDC	24 VDC
Max. electrical power per zone	0.05 kW	0.05 kW
Drive medium	PU round belt ø 5 mm	PolyVee belt
Torque transmission	Roller-to-roller	Roller-to-roller
Side profile		
Profile H	151,5 m	ım high
	31,5 mm above top edge of roller	
Profile L	Permits lateral displacement	
		m high
	4 mm below to	p edge of roller
Combination of profile heights left/right	HH (HE) HL (HE)	TH CONTRACTOR

DIMENSIONS







Dimensions

Dilliciisiolis	
LW Clearance	420 / 520 / 620 / 820 mm
TW Module width	LW + 75 mm
F Face length	See application Notes P118
α Angle	30° / 45°
P Roller pitch	75 mm
SP Side profile	151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 51**

2 Clearance LW 420 | 520 | 620 | 820

3 Roller pitch P in mm 75

4 Angle α 30° | 45°

> 5 Outfeed 0

6 Outfeed position Left hand Right hand i RH

7 Drive medium Round belt PolyVee belt | P

8 Conveyor speed in m/s 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98 | 1,31 | 1,75

9 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number: 51 - 420 - 75 - 30 - 0 - RH - R - 0,33 - HH

This reference number stands for 24 VDC RollerDrive Conveyor ERS 51 with a clearance LW 420 mm, a roller pitch P 75 mm, an angle of 30°, outfeed, a right hand merge, a round belt as drive medium, a conveyor speed of 0,33 m/s and both sides high side profile.

ORDER INFORMATION• The module is fully assembled

- Please order support stands, side glides, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

- For selection of the RollerDrive please consult the information on PAGE 110
- For ML Module Lengths see application Notes PAGE 134
- If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114





eas).conveyors

37

Refer to the (design) notes from P106 up for help with planning and design



TECHNICAL DATA

ROLLERDRIVE ALIGNMENT CONVEYOR ERS 51

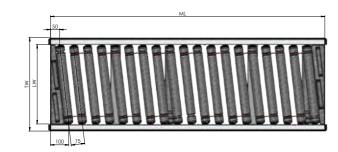
The RollerDrive Conveyor is used with a PLC as transport storage conveyors or zero accumulation pressure storage conveyors. Each drive features a digital interface to an external control (PLC) that simultaneously protects the RollerDrive from overload. Each RollerDrive is connected via PU round belts or PolyVee belts to the idlers.

Roller Conveyors
Rollerdrive
ERS 51
Alignment

to the idlers. CONVEYORS EASY CONF

I LUIIIIIUAL DAIA		OUNTE I ON O
	Round belt	PolyVee belt
General technical data		-
Max. load capacity	50 kg	80 kg
Conveyor speed	0,16 to 1,75 m/s	0,16 to 1,75 m/s
Inclined/declined	Not suitable	Not suitable
Ambient temperature	+5 to +40 °C	+5 to +40 °C
·	Maximum load capacity is depending of	on the combination of speed & load
Roller		•
Roller bearing	Sealed Precision ball bearing 6002 2RZ	Sealed Precision ball bearing 6002 2RZ
Roller diameter	50 mm	50 mm
Roller material	Steel, zinc-plated	Steel, zinc-plated
Max. number of rollers per conveyor/zone	11	20
Drive		
Rated voltage	24 VDC	24 VDC
Max. electrical power per zone	0.05 kW	0.05 kW
Drive medium	PU round belt ø 5 mm	PolyVee belt
Torque transmission	Roller-to-roller	Roller-to-roller
Side profile		
Profile H	151,5 mm high 31,5 mm above top edge of roller	
Profile L	Permits lateral displacement 116 mm high 4 mm below top edge of roller	
Combination of profile heights left/right	HH (===) HL (===)	LH [==] LL [==]

DIMENSIONS





Dimensions

LW Clearance	420 / 520 / 620 / 820 mm
ML Max. module length	3000 mm
ZL Zone length	Number of rollers x P
TW Module width	LW + 75 mm
P Roller pitch	75 mm
SP Side profile	116 /151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE ERS 51A

2 Clearance LW Friction Top Roller put **F** behind the **LW** 420 | 520 | 620 | 820 Example 51 - 420F - 75 -

3 Roller pitch P in mm A 75

4 Module length ML in mm

A min 300 mm, numbers of rollers x P, max 3000 mm

5 Number of zones

See Application Notes PAGE 118

6 Electric side Right | R / Left | L Alignment side Right | ノ / Left | へ

7 Drive mediumRound belt

Round belt R
PolyVee belt P

8 Conveyor speed in m/s

0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98 | 1,31 | 1,75

9 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number: 51A - 620 - 75 - 2375 - 4 - R - R - 0,33 - HH

This reference number stands for RollerDrive Alignment Conveyor ERS 51 with a clearance LW 620 mm, a roller pitch P 75 mm, a module length ML 2375 mm, 4 zones, the electric side on the right, alignment to the right side, a round belt as drive medium, a conveyor speed of 0.33 m/s and both sides high side profile.

Angle of rollers

420 - 6,8° | 520 - 5,5° | 620 - 4,6° | 820 - 3,5°

ORDER INFORMATION

- The module is fully assembled
- Please order support stands, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

- For selection of the RollerDrive please consult the information on PAGE 110
- If you require a non-standard model, contact your local Easy Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114





easy



TECHNICAL DATA

ROLLER DRIVE CONVEYOR DIVERTER ERS 51

The Smart Conveyor diverter diverts material that should maintain its direction of travel via pivoted rollers. The flow of material remains uninterrupted.

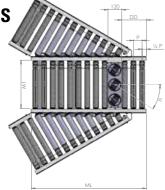
Roller Conveyors **Roller Drive Conveyor ERS 51 Roller Drive Diverter**



easy

I EUNIVAL DAIA		••• GUNVETURS
	Round belt	PolyVee belt
General technical data		-
Max. load capacity	35 kg	50 kg
Conveyor speed	0,16 to 1,00 m/s	0,16 to 1,00 m/s
Inclined/declined	Not suitable	Not suitable
Ambient temperature	+5 to +40 °C	+5 to +40 °C
	Maximum load capacity is depending or	the combination of speed & load
Roller		_
Roller bearing	Sealed Precision ball bearing	Sealed Precision ball bearing
	6002 2RZ	6002 2RZ
Roller diameter	50 mm	50 mm
Roller material	Steel, zinc-plated	Steel, zinc-plated
Drive		
Rated voltage	24 VDC	24 VDC
Max. electrical power per zone	0,05Kw	0,05Kw
Drive medium	Round belt	Poly-V belt
Torque transmission	Roller-to-roller	Roller-to-roller
Motion Control		
Motion medium	Pneumatic	Pneumatic
Swiveling time	0,3 sec / 90°	0,3 sec / 90°
Side profile		
Profile H	151,5 mm high	1.0
	31,5 mm above top edge of roller	05 151
Profile L	Permits lateral displacement	4
	116 mm high	9
	4 mm below top edge of roller	7_W
Combination of profile heights left/right	нн 🖟 🗐 нг 🖟 🗐 г	

DIMENSIONS







Dimensions

LW Clearance	420 / 520 / 620 / 820 mm
LWT Clear width transfer	420 / 520 / 620 / 820 mm
ML Max. module length	2400 mm
TW Module width	LW + 75 mm
lpha Angle	30°
P Roller pitch	75 mm
F Face lenght	See Application Notes P118
SP Side profile	151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 51**

2 Clearance LW Friction Top Roller put F behind the LW 420 | 520 | 620 | 820 Example 51 - 420F - 75 -

3 Clearance LWT

420 | 520 | 620 | 820 (max. LWT = LW + 200 mm)

4 Angle α

24 V and Pneumatic 30°

5 Roller pitch P in mm

75 | 100

6 Diverter **Pneumatic** Left hand PLH Right hand PRH

7 Drive medium

| R Round belt PolyVee belt P

8 Conveyor speed in m/s

0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98 | 1,31 | 1,75

9 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number:

51 - 420 - 420 - 45 - 75 - PRH - R - 0,33 - HH

This reference number stands for Smart Conveyor Popup Transfer ERS 51 with a clearance LW 420 mm, a LWT 420 mm, an angle of 45°, a roller pitch P 75 mm, a pneumatic right hand diverter, a round belt as drive medium, a conveyor speed of 0.33 m/s and both sides high

Throughput: see calculation Page 126.

ORDER INFORMATION• The module is fully assembled

- Please order support stands, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

- For selection of the RollerDrive please consult the information on PAGE 110
- If you require a non-standard model, contact your local EASY Supplier.

- Support stands, see PAGE 104
- Accessoires, see PAGE 114









ROLLER DRIVE CONVEYOR BELT TRANSFER ERS 51

The Smart Conveyor 90° Transfer, lifts and transfers materials from a straight section and moves the materials at right angles, this can also be used for merging and diverting. The belt transfer cassettes are easily and quick replaceable to have minimum loss of production time.

Roller Conveyors Roller Drive Conveyor ERS 51 Transfer

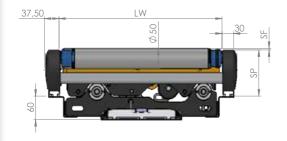


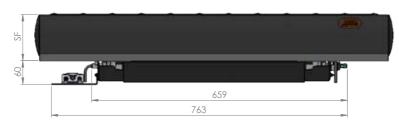
TECHNICAL DATA

easy

General technical data	
Max. load capacity	50 kg
Conveyor speed	0,1 to 1,75 m/s
Transfer speed max	0,98 m/s
Stroke time	0,3 m/s
Inclined/declined	Not suitable
Ambient temperature	+5 to +40 °C
<u> </u>	Maximum load capacity is depending on the combination of speed & load
Roller	Carlad Danisian hall bearing 0000 0D7
Roller bearing	Sealed Precision ball bearing 6002 2RZ
Roller diameter	50 mm
Roller material	Steel, zinc-plated
Drive	
Rated voltage	24 VDC
Max. electrical power per zone	0.05 kW
Drive medium	Poly-V
Torque transmission	Roller-to-roller
Lifting gear	
Operating medium	24 VDC
Stroke time	0,3 sec
Drive transfer	
Rated voltage (RollerDrive)	24 VDC
Max. electrical power per zone	0.05 Kw
Power transmission transfer	Toothed belt with Friction Top
Stroke height	15 mm above top edge of roller

DIMENSIONS





Dimensions

LW Clearance	420 / 520 / 620 / 820 mm
ML Module length	900 mm
TW Module width	LW + 75 mm
α Angle	90°
C1 First belt pitch	152,5 mm
C2 till C7	152,5 + n x 80 mm
SF	116 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE ERS 51

> 2 Clearance LW 420 | 520 | 620 | 820

3 TYPE T1

4 Amount of cassette (n) 2 | 3 | 4 | 5

5 First cassette

C1 | C2 | C3 | C4 | C5 | C6

6 Casset Pitch

n x 75 mm

7 Conveyor speed in m/s

0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98 | 1,31 | 1,75

8 Transfer speed in m/s 0,36 | 0,55 | 0,73 | 0,98

9 Side profiles HL | LL | LH

1 2 3 4 5 6 7 8

ORDER EXAMPLE

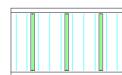
Example for a reference number:

51 - 620 - T1 - 3 - C2 - 2 - 0,65 - 0,98 - LL

This reference number stands for EASY transfer ERS 51 with a clearance LW of 620 mm, type T1 with 3 cassette, the first cassette C2 (position 152,5+80 mm) with every next cassette pitch of 2 x 80 mm (160 mm), conveyor speed 0,65 m/s, transfer speed 0,98 m/s and low side profile both sides.

The throughput is depending on the speed of the conveyor and transfer belt and the length of the product.

T1



ORDER INFORMATION

- Module is completely assembled with control and sensors
- Please order support stands, sideguids, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

 If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 240
- Accessoires, see PAGE 114
- With order supply the Pitch of the transfer belt







...conveyors



SMART CONVEYOR ERS 52



THE SMART INTELLIGENT MODULAR SYSTEM

Smart The internal control of the Smart Conveyor, with its integral control card, transforms a roller conveyor into an intelligent self-contained conveyor that assigns each transport material its own

conveyor into an intelligent self-contained conveyor that assigns each transport material its own drive zone in the flow. Depending on system complexity a superior control system can be required.

Low-noise Quiet operation when running without materials < 60 dB(A) with 24 VDC.

Zero accumulation pressure transport The transported unit load is stopped at the end of a zone when the downstream zone is

occupied. Unit loads do not touch and are accumulated with zero accumulation pressure

when required.

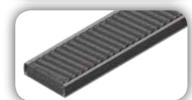
Plug and play Ready for installation and use with pre-assembled modules from the flexible Smart Con-

veyor modular system.













54 ERS 52 STRAIGHT

56 ERS 52 CURVE

58ERS 52 INFEED / OUTFEED

62 ERS 52 ALIGNMENT

64 ERS 52 DIVERTER 30° | 45°

66 ERS 52 TRANSFER 90°

Available for



SMART CONVEYOR MEET THE MARKET DEMANDS OF SMART CONVEYING BY USING MODULAR INTELLIGENT SYSTEMS











As an intelligent conveyor with integrated accumulating conveyor technology, the EASY Smart Conveyors simplifies unit-load handling. The internal control Card, converts a roller track into a single space conveyor which allocates each material to be conveyed in its own zone along the material flow.

Unit loads can be buffered without contact and transported further as required to achieve an overall continuous material flow. With a well-developed, economic concept, the ready to connect roller track modules offer a complete range of customer advantages.

During the planning phase:

- Individual and flexible routing options based on a complete modular system fromstraights to 45° high performance diverters
- Simple planning of conveyor lines from the modular system
- Simple connection to adjoining conveyor technology

During the implementation phase:

- Fast delivery
- Quick and easy installation
- Ready for installation and use thanks to pre-fabricated modules ("plug and play")

During operation:

- Approx. 50 % energy saving (depending on operating mode up to 70%) compared with conventional accumulating conveyors
- Extremely guiet operation (< 60 dBA)
- Maximum safety thanks to 24 Volt low voltage
- High availability
- Low maintenance
- Extendable and adaptable to future growth





Connecting conveyor modules from the EASY range of the Smart Conveyors has modular advantages and can be extended at any time with other EASY products.

Roller conveyor modules, curves, diverters, merge modules, transfers and Transportation positioning modules for material handling of light to heavy corrugated boxes, crates and packages are available, depending on the drive and transmission belts, for loads up to 175lbs (80 kg per zone).

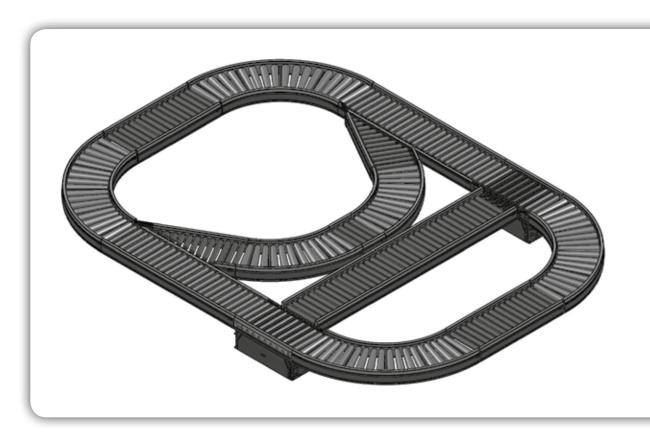
Easy Conveyors supports customers around the world through a network of Strategic Partners:

- System Integrators
- System Manufacturers
- Material Handling Companies
- Original Equipment Manufactures
- Engineering and Consulting Firms
- Operations and Distribution Centre's

Strategic Industries and Markets



SMART CONVEYOR INTELLIGENT CONVEYING EXPLAINED IN AN UNCOMPLICATED WAY







Visualizing the principal functions of Smart Conveyors in demonstrating one single zone.

Build-up of one zone:

- 1 Roller Drive
- 8 Slave rolls
- 1 Photo cell kit





Given the number of different variations, stocking of spare parts is minimized.

Energy savings are achieved through 'Run-on-demand' operation by the Smart Control card. Conveying only takes place when a conveying movement is actually necessary.

When there are no materials to be conveyed in the zone, the system switches off until the next pulse is received, this can result in energy savings up to 70 %.



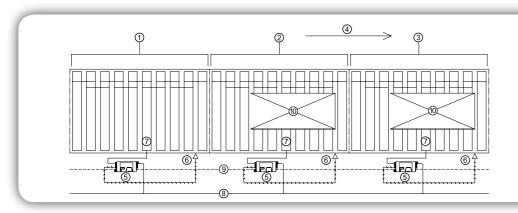


Smart Conveyor – this name represents a complete conveyor system that enables unit loads to be conveyed and accumulated with zero pressure, i.e. without ever touching each other.

Smart Conveying is achieved by utilizing Smart-Control Technology, a proven 24 Volt control PCB. Control of the conveyor line is managed by dividing into individual zones and communicating along the material flow.

During the operation of the system each Smart Control card operates its assigned drive zone according to the condition of the adjacent zones, automatically.

The Smart Conveyor system is designed as a decentralised, intelligent control in such a way that with the modular principle a complete system can be constructed and also simply extended later if required.



Wiring diagram for ZoneControl for 3 conveyor zones

- 1 Zone 1
- 2 Zone 2
- 3 Zone 3
- 4 Conveyor direction
- 5 ZoneControl
- 6 Zone sensor7 RollerDrive
- 8 +24 V DC voltage supply
- 9 Peer-to-peer connection
- 10 Material to be conveyed





SMART-CONTROL AND ROLLERDRIVE 24 VDC THE HEART OF THE SMART CONVEYOR



Each conveyor line of the EASY Smart Conveyor is divided into zones, which are adapted to the maximum length of the material to be conveyed.

Each zone has:

- 1 x RollerDrive
- Rollers driven by belts (0-rings or Poly-Vee belts)
- 1 x Conveyor Smart control
- 1 x Photo cell kit

A pre-assembled conveyor unit (module) consists of 1-4 zones complete with wiring. This enables easy plug and play connectivity with other modules.

Because less really can be more, the EASY Smart Conveyor does not use conventional external drive components but at the same time increases the safety of the operator thanks to a low power supply of 24 Volts.

At the beginning of a roller track section there is an additional photo cell to start the conveyor track.

The EASY Smart Conveyor has two operating modes: singulation release and train release (see photo on the right).



Slave rollers can be connected to the Roller Drive by different methods, for example with O-rings.





Single Release:

In the "Singulation release mode" each drive zone is activated in turn one-by-one. Each product must leave its drive zone before the next product is allowed to move.

This mode also reduces the overall power consumption of the conveyor line as the start-up power of each drive zone occurs only one at a time.



er drive option, they Train Release:

In the "Train release mode" several zones can be configured to start up simultaneously to transport several products together like a train. This can increase throughput of product by reducing the indexing time between each product. This mode demands a little higher startup power but only for those zones that need to start together.

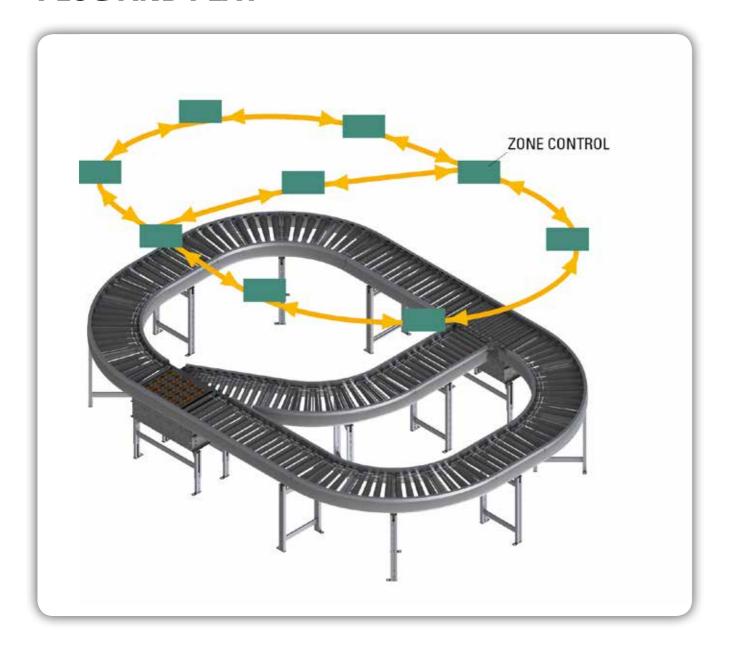


Poly-V belts are another drive option, they are used for conveying higher loads on straight and curved modules.

50 51



COMMUNICATION WITHIN THE SMART CONVEYOR PLUG AND PLAY



Standard communication

All Zone Control exchange information within the Smart Conveyor via a pre-installed data cable.

Every Smart-Card communicates with its adjacent zones via a 4-wire data cable. This cable transmits signals to start, stop, detect errors or conduct certain control procedures along the conveying system.

This connection is a real plug and play connection and therefore insures immediate function without specific addressing. For connection to external systems, every Zone Control has four connections for incoming and outgoing signals.

Among others these are used for the following requirements:

- Transfer of materials to be conveyed to third-party systems
- Influencing the merging and diverting behaviour of the modules
- Issue of an error signal





SMART CONVEYOR ERS 52

easy

The internal control of the roller conveyor ensures transport of unit loads with zero accumulation pressure. Each zone is driven by a RollerDrive, and is connected via round or PolyVee belts with a specified number of idlers.

Roller Conveyors



TECHNICAL DATA

	Round belt	PolyVee belt	
General technical data		-	
Max. load capacity	50 kg	80 kg	
Conveyor speed	0,16 to 1,75 m/s	0,16 to 1,75 m/s	
Inclined/declined	Not suitable	Not suitable	
Ambient temperature	+5 to +40 °C	+5 to +40 °C	
	Maximum load capacity is depending o	Maximum load capacity is depending on the combination of speed & load	
Roller		·	

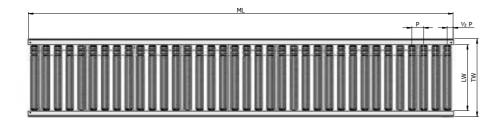
Roller bearing	Sealed Precision ball bearing	Sealed Precision ball bearing
Della u dia matan	6002 2RZ	6002 2RZ
Roller diameter	50 mm	50 mm
Roller material	Steel, zinc-plated	Steel, zinc-plated
Max. number of rollers per conveyor/zone	11	20
Drive		
Rated voltage	24 VDC	24 VDC

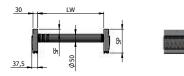
Drive		
Rated voltage	24 VDC	24 VDC
Max. electrical power per zone	0.05 kW	0.05 kW
Drive medium	PU round belt ø 5 mm	PolyVee belt
Torque transmission	Roller-to-roller	Roller-to-roller

Side profile	
Profile H	151,5 mm high
	31,5 mm above top edge of roller
Profile L	Permits lateral displacement 116 mm high 4 mm below top edge of roller

Permits lateral displacement 116 mm high	91
4 mm below top edge of roller	· W

DIMENSIONS





Combination of profile heights left/right

Dimensions

54

Dillicitations	
LW Clearance	420 / 520 / 620 / 820 mm
ML Max. module length	max. 3000 mm
ZL Zone length	Number of rollers x P
TW Module width	LW + 75 mm
P Roller pitch	75 / 100 mm
SP Side profile	116 /151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 52**

> 2 Clearance LW Friction Top Roller put F behind the LW Example 52 - 420F - 75 - 420 | 520 | 620 | 820

3 Roller pitch P in mm **A** 75 | 100

4 Module length ML in mm

A min 300 mm, numbers of rollers x P, max 3000 mm

5 Number of zones application notes, P119 Sensor Position A | B | C

6 Electric side Right R / Left L

7 Drive medium Round belt | R PolyVee belt | P

8 Conveyor speed in m/s 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98 | 1,31 | 1,75

9 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number: 52 - 420 - 100 - 2100 - 4 - R - R - 0,25 - HH / B

This reference number stands for Smart conveyor ERS 52 with a clearance LW 420 mm, a roller pitch P 100 mm, module length ML 2100 mm, 4 zones, with sensors at Position B of the zone, the electric side on the right, a round belt as drive medium, a conveyor speed of 0.25 m/s and both sides high side profile.

ORDER INFORMATION

- Module is completely assembled with control and sensors
- Please order support stands, side guide, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

- For selection of the RollerDrive please consult the information on PAGE 110
- If you require a non-standard model, contact your local EASY Supplier.

- Support stands, see PAGE 104
- Accessoires, see PAGE 114





SMART CONVEYOR CURVE ERS 52

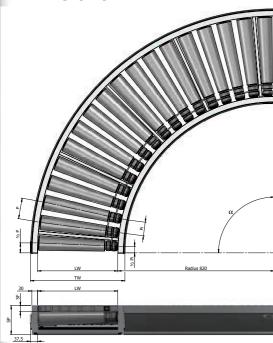
The roller conveyor curves change the direction of transport of material. The alignment of the material is maintained within the side frames by tapered rollers.

Roller Conveyors
Smart Conveyor
ERS 52



TECHNICAL DATA		easv
I LOUINIOAL DAIA	Round belt	CONVEYORS
General technical data		
Max. load capacity	50 kg	
Conveyor speed	0,16 to 1,75 m/s	
Inclined/declined	Not suitable	
Ambient temperature	+5 to +40 °C	
·	Maximum load capacity is depending on the	combination of speed & load
Roller		-
Roller bearing	Sealed Precision ball bearing	
	6002 2RZ	
Roller diameter	50 mm	
Roller material	Steel, with grey tapered	
	plastic elements	
Max. number of rollers per conveyor/zone	9	
Drive		
Rated voltage	24 VDC	
Max. electrical power per zone	0.05 kW	
Drive medium	PU round belt ø 5 mm	
Torque transmission	Roller-to-roller	
Side profile		
Profile H	151,5 mm high	10
	31,5 mm above top edge of roller	087181
Profile L	Permits lateral displacement	4
	116 mm high	9
	4 mm below top edge of roller	1

DIMENSIONS



Combination of profile heights left/right

Dimensions

Dimensions	
LW Clearance	420 / 520 / 620 / 820 mm
TW Module width	LW + 75 mm
α Angle	30° / 45° / 60° / 90°
P Roller pitch, external	~ (0.087 mm x LW) + Pi
Pi Roller pitch, internal	~ 72 mm
SP Side profile	151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE ERS 52

2 Clearance LW 420 | 520 | 620 | 820

3 Angle α 30° | 45° | 60° | 90°

4 Number of zones

1 2 (only 90°)

Sensor Position A | B | C



5 Drive medium Round belt | R

6 Conveyor speed in m/s 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98 | 1,31 | 1,75

7 CCW = counter clock wise CW = clock wise



8 Side profiles HH | HL | LH | LL

1 2

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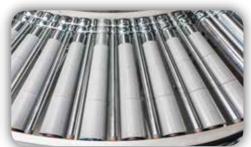
_ _

ORDER EXAMPLE

Example for a reference number: **52 - 620 - 90 - 2 - R - 0,44 - CW - HH / B**

This reference number stands for Smart conveyor ERS 52 with a clearance LW 620 mm, an angle 90°, 2 zones with sensors at Position B of the zone, a round belt as drive medium and a conveyor speed of 0.44 m/s, product flow CW and both sides high side profile.





ORDER INFORMATION

- Module is completely assembled with control and sensors
- Please order support stands, side guide, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

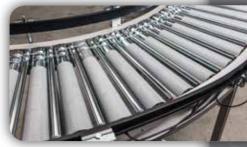
CONFIGURATOR

- For selection of the RollerDrive please consult the information on PAGE 110
- If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114





easy ... conveyors



SMART CONVEYOR INFEED ERS 52

The Smart Conveyor Infeed Roller Conveyor merges two conveyor lines together using the gaps in the flow.

Roller Conveyors **Smart Conveyor ERS 52** Infeed

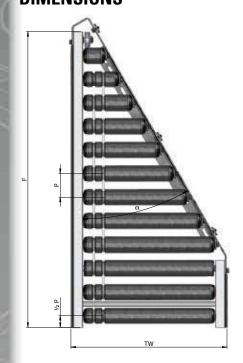


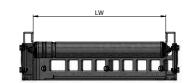
easy

TECHNICAL DATA

IECHNICAL DAIA		••• OUNTLIGHT
	Round belt	PolyVee belt
General technical data		-
Max. load capacity	35 kg	80 kg
Conveyor speed	0,16 to 1,75 m/s	0,16 to 1,75 m/s
Inclined/declined	Not suitable	Not suitable
Ambient temperature	+5 to +40 °C	+5 to +40 °C
D. II	Maximum load capacity is depending o	n the combination of speed & load
Roller		
Roller bearing	Sealed Precision ball bearing 6002 2RZ	Sealed Precision ball bearing 6002 2RZ
Roller diameter	50 mm	50 mm
Roller material	Steel, zinc-plated	Steel, zinc-plated
Max. number of rollers per conveyor/zone	11	20
Drive		
Rated voltage	24 VDC	24 VDC
Max. electrical power per zone	0.05 kW	0.05 kW
Drive medium	PU round belt ø 5 mm	PolyVee belt
Torque transmission	Roller-to-roller	Roller-to-roller
Side profile		
Profile H	151,5 mm high 31,5 mm above top edge of roller	05.151
Profile L	Permits lateral displacement 116 mm high 4 mm below top edge of roller	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Combination of profile heights left/right	нн 📂 🚐 нь 📂 🖚 г	

DIMENSIONS







Dimensions

DIIIIGIISIUIIS	
LW Clearance	420 / 520 / 620 / 820 mm
TW Module width	LW + 75 mm
F Face length	See application Notes P118
α Angle	30° / 45°
P Roller pitch	75 mm
SP Side profile	151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 52** 2 Clearance LW 420 | 520 | 620 | 820 3 Roller pitch P in mm 75 4 Angle α 30° | 45°

5 Infeed

6 Infeed position Left hand Right hand RH

7 Drive medium Round belt PolyVee belt | P

8 Conveyor speed in m/s 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,98 | 1,31 | 1,75

9 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number: 52 - 620 - 75 - 45 - I - RH - R - 0,16 -HH

This reference number stands for Smart Conveyor Transfer ERS 52 with a clearance LW 620 mm, a roller pitch P 75 mm, an angle of 45°, infeed, a right hand merge, a round belt as drive medium, a conveyor speed of 0.16 m/s, and both sides high side profile.

ORDER INFORMATION• The module is fully assembled

- Please order support stands, side guids, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

- For selection of the RollerDrive please consult the information on PAGE 110
- For ML Module Lengths see application Notes PAGE 134
- If you require a non-standard model, contact your local EASY Supplier.

- Support stands, see PAGE 104
- Accessoires, see PAGE 114







SMART CONVEYOR OUTFEED ERS 52

The Smart Conveyor Outfeed Roller Conveyor merges two conveyor lines together using the gaps in the flow.

Roller Conveyors **Smart Conveyor** ERS 52 Outfeed

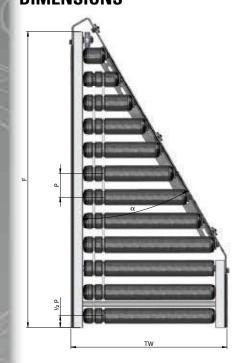


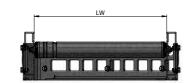
TECHNICAL DATA



ILUINIUAL DAIA		••• OUMATIONS
	Round belt	PolyVee belt
General technical data		•
Max. load capacity	35 kg	80 kg
Conveyor speed	0,16 to 1,75 m/s	0,16 to 1,75 m/s
Inclined/declined	Not suitable	Not suitable
Ambient temperature	+5 to +40 °C	+5 to +40 °C
·	Maximum load capacity is depending or	n the combination of speed & load
Roller		•
Roller bearing	Sealed Precision ball bearing 6002 2RZ	Sealed Precision ball bearing 6002 2RZ
Roller diameter	50 mm	50 mm
Roller material	Steel, zinc-plated	Steel, zinc-plated
Max. number of rollers per conveyor/zone	11	20
Drive		
Rated voltage	24 VDC	24 VDC
Max. electrical power per zone	0.05 kW	0.05 kW
Drive medium	PU round belt ø 5 mm	PolyVee belt
Torque transmission	Roller-to-roller	Roller-to-roller
Side profile		
Profile H	151,5 mm high 31,5 mm above top edge of roller	07(5)
Profile L	Permits lateral displacement 116 mm high 4 mm below top edge of roller	9 9
Combination of profile heights left/right	нн 📭 🗐 нг 📭 🔭 г	

DIMENSIONS







Dimensions

פווטווטווס	
LW Clearance	420 / 520 / 620 / 820 mm
TW Module width	LW + 75 mm
F Face length	See application Notes P118
α Angle	30° / 45°
P Roller pitch	75 mm
	151,5 mm
SF Side guide	31,5 mm
SP Side profile SF Side guide	151,5 mm

EASY	CU	NFI	CII	IRV.	TNR
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Please create the reference number with the following configurator.

1 TYPE **ERS 52**

420 | 520 | 620 | 820 3 Roller pitch P in mm

4 Angle α

30° | 45°

75

2 Clearance LW

5 Outfeed 0

6 Outfeed position Left hand Right hand RH

7 Drive medium Round belt PolyVee belt | P

8 Conveyor speed in m/s 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,98 | 1,31 | 1,75

9 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number: 52 - 620 - 75 - 45 - 0 - RH - R - 0,16 -HH

This reference number stands for Smart Conveyor Transfer ERS 52 with a clearance LW 620 mm, a roller pitch P 75 mm, an angle of 45°, outfeed, a right hand merge, a round belt as drive medium, a conveyor speed of 0.16 m/s, and both sides high side profile.

ORDER INFORMATION• The module is fully assembled

- Please order support stands, side guids, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

- For selection of the RollerDrive please consult the information on PAGE 110
- For ML Module Lengths see application Notes PAGE 134
- If you require a non-standard model, contact your local EASY Supplier.

- Support stands, see PAGE 104
- Accessoires, see PAGE 114







SMART ALIGNMENT CONVEYOR

easy

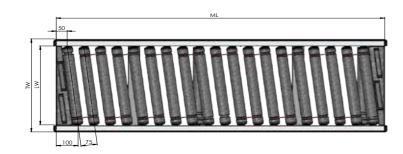
The internal control of the roller conveyor ensures transport of unit loads with zero accumulation pressure. Each zone is driven by a RollerDrive, and is connected via round or PolyVee belts with a specified number of idlers.

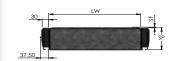
Roller Conveyors **Smart Conveyor ERS 52** Alignment

TECHNICAL DATA

I EUHNICAL DAIA		••• CONVEYORS
	Round belt	PolyVee belt
General technical data		•
Max. load capacity	50 kg	80 kg
Conveyor speed	0,16 to 1,75 m/s	0,16 to 1,75 m/s
Inclined/declined	Not suitable	Not suitable
Ambient temperature	+5 to +40 °C	+5 to +40 °C
·	Maximum load capacity is depending of	on the combination of speed & load
Roller		•
Roller bearing	Sealed Precision ball bearing	Sealed Precision ball bearing
, and the second	6002 2RZ	6002 2RZ
Roller diameter	50 mm	50 mm
Roller material	Steel, zinc-plated	Steel, zinc-plated
Max. number of rollers per conveyor/zone	11	20
Drive		
Rated voltage	24 VDC	24 VDC
Max. electrical power per zone	0.05 kW	0.05 kW
Drive medium	PU round belt ø 5 mm	PolyVee belt
Torque transmission	Roller-to-roller Roller-to-rolle	
Side profile		
Profile H	151,5 m	nm high
	31,5 mm above t	op edge of roller
Profile L		l displacement
		m high
	4 mm below to	p edge of roller
Combination of profile heights left/right	нн (====) нг (====	LH (==) LL (==)

DIMENSIONS





Dimensions

Dimonorono	
LW Clearance	420 / 520 / 620 / 820 mm
ML Max. module length	max. 3000 mm
ZL Zone length	Number of rollers x P
TW Module width	LW + 75 mm
P Roller pitch	75 mm
SP Side profile	116 /151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE ERS 52A

2 Clearance LW Friction Top Roller put F behind the LW Example 52 - 420F - 75 - 420 | 520 | 620 | 820

3 Roller pitch P in mm **A** 75

4 Module length ML in mm

A min 300 mm, numbers of rollers x P, max 3000 mm

5 Number of zones

application notes, P119 Sensor Position A | B | C

6 Electric side Alignment side Right R / Left L Right | ↗ / Left |

7 Drive medium Round belt | R PolyVee belt | P

8 Conveyor speed in m/s 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98 | 1,31 | 1,75

9 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number: 52A - 420 - 100 - 2100 - 4 - R - R - 0,25 - HH / B

This reference number stands for Smart alignment conveyor ERS 52 with a clearance LW 420 mm, a roller pitch P 100 mm, module length ML 2100 mm, 4 zones, with sensors at Position B of the zone, the electric side on the right, alignment to the right side, a round belt as drive medium, a conveyor speed of 0.25 m/s and both sides high side profile.

ORDER INFORMATION

- Module is completely assembled with control and sensors
- Please order support stands, side guide, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

- For selection of the RollerDrive please consult the information on PAGE 110
- If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114





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ROLLER DRIVE CONVEYOR DIVERTER ERS 52

The Smart Conveyor diverter diverts material that should maintain its direction of travel via pivoted rollers. The flow of material remains uninterrupted.

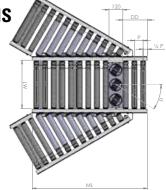
Roller Conveyors **Roller Drive Conveyor ERS 52 Roller Drive Diverter**

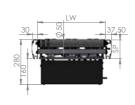


easy TECHNICAL DATA

TECHNICAL DATA		CONVEYORS
	Round belt	PolyVee belt
General technical data		<u>.</u>
Max. load capacity	35 kg	50 kg
Conveyor speed	0,16 to 1,00 m/s	0,16 to 1,00 m/s
Inclined/declined	Not suitable	Not suitable
Ambient temperature	+5 to +40 °C	+5 to +40 °C
	Maximum load capacity is depending or	n the combination of speed & load
Roller		
Roller bearing	Sealed Precision ball bearing	Sealed Precision ball bearing
	6002 2RZ	6002 2RZ
Roller diameter	50 mm	50 mm
Roller material	Steel, zinc-plated	Steel, zinc-plated
Orive Control of the		
Rated voltage	24 VDC	24 VDC
Max. electrical power per zone	0,05Kw	0,05Kw
Drive medium	Round belt	Poly-V belt
Torque transmission	Roller-to-roller	Roller-to-roller
Motion Control		
Motion medium	Pneumatic	Pneumatic
Swiveling time	0,3 sec / 90°	0,3 sec / 90°
ide profile		•
Profile H	151,5 mm high	10
	31,5 mm above top edge of roller	151.50
Profile L	Permits lateral displacement	4
	116 mm high	2
	4 mm below top edge of roller	<u> </u>
Combination of profile heights left/right	нн (===================================	

DIMENSIONS







Dimensions

LW Clearance	420 / 520 / 620 / 820 mm
LWT Clear width transfer	420 / 520 / 620 / 820 mm
ML Max. module length	2400 mm
TW Module width	LW + 75 mm
lpha Angle	30°
P Roller pitch	75 mm
F Face lenght	See Application Notes P118
SP Side profile	151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 52**

2 Clearance LW Friction Top Roller put F behind the LW 420 | 520 | 620 | 820 Example 51 - 420F - 75 -

3 Clearance LWT

420 | 520 | 620 | 820 (max. LWT = LW + 200 mm)

4 Angle α

24 V and Pneumatic 30°

5 Roller pitch P in mm

75 | 100

6 Diverter **Pneumatic** Left hand PLH Right hand PRH

7 Drive medium

| R Round belt PolyVee belt P

8 Conveyor speed in m/s

0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98 | 1,31 | 1,75

9 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number:

52 - 420 - 420 - 45 - 75 - PRH - R - 0,33 - HH

This reference number stands for Smart Conveyor Popup Transfer ERS 52 with a clearance LW 420 mm, a LWT 420 mm, an angle of 45°, a roller pitch P 75 mm, a pneumatic right hand diverter, a round belt as drive medium, a conveyor speed of 0.33 m/s and both sides high

Throughput: see calculation Page 126.

ORDER INFORMATION• The module is fully assembled

- Please order support stands, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

- For selection of the RollerDrive please consult the information on PAGE 110
- If you require a non-standard model, contact your local EASY Supplier.

- Support stands, see PAGE 104
- Accessoires, see PAGE 114









ROLLER DRIVE CONVEYOR BELT TRANSFER FRS 52

The Smart Conveyor 90° Transfer, lifts and transfers materials from a straight section and moves the materials at right angles, this can also be used for merging and diverting. The belt transfer cassettes are easily and quick replaceable to have minimum loss of production time.

Roller Conveyors **Roller Drive Conveyor** ERS 52 Transfer

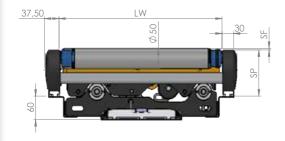


TECHNICAL DATA

easy

	- CONTETUTO
General technical data	
Max. load capacity	50 kg
Conveyor speed	0,1 to 1,75 m/s
Transfer speed max	0,98 m/s
Stroke time	0,3 m/s
Inclined/declined	Not suitable
Ambient temperature	+5 to +40 °C
<u> </u>	Maximum load capacity is depending on the combination of speed & load
Roller	
Roller bearing	Sealed Precision ball bearing 6002 2RZ
Roller diameter	50 mm
Roller material	Steel, zinc-plated
Drive	
Rated voltage	24 VDC
Max. electrical power per zone	0.05 kW
Drive medium	Poly-V
Torque transmission	Roller-to-roller
Lifting gear	
Operating medium	24 VDC
Stroke time	0,3 sec
Drive transfer	
Rated voltage (RollerDrive)	24 VDC
Max. electrical power per zone	0.05 Kw
Power transmission transfer	Toothed belt with Friction Top
Stroke height	15 mm above top edge of roller

DIMENSIONS





Dimensions

LW Clearance	420 / 520 / 620 / 820 mm
ML Module length	900 mm
TW Module width	LW + 75 mm
α Angle	90°
C1 First belt pitch	152,5 mm
C2 till C7	152,5 + n x 80 mm
SF	116 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE ERS 52

2 Clearance LW 420 | 520 | 620 | 820

3 TYPE T1

4 Amount of cassette (n) 2 | 3 | 4 | 5

5 First cassette C1 | C2 | C3 | C4 | C5 | C6

6 Casset Pitch n x 75 mm

7 Conveyor speed in m/s

0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98 | 1,31 | 1,75

8 Transfer speed in m/s 0,36 | 0,55 | 0,73 | 0,98

9 Side profiles HL | LL | LH

1 2 3 4 5 6 7 8 9

ORDER EXAMPLE

Example for a reference number:

52 - 620 - T1 - 3 - C2 - 2 - 0,65 - 0,98 - LL

This reference number stands for EASY transfer ERS 52 with a clearance LW of 620 mm, type T1 with 3 cassette, the first cassette C2 (position 152,5+80 mm) with every next cassette pitch of 2 x 80 mm (160 mm), conveyor speed 0,65 m/s, transfer speed 0,98 m/s and low side profile both sides.

The throughput is depending on the speed of the conveyor and transfer belt and the length of the product.

T1

ORDER INFORMATION

- Module is completely assembled with control and sensors
- Please order support stands, sideguids, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

 If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 240
- Accessoires, see PAGE 114
- With order supply the Pitch of the transfer belt





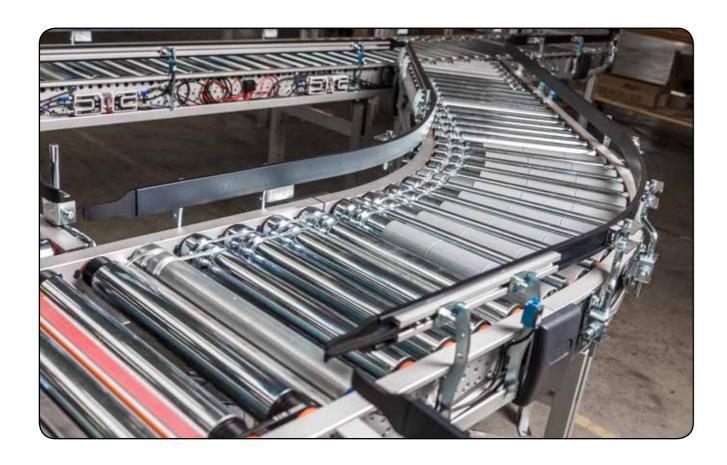


...conveyors

67



BELT DRIVEN ROLLER CONVEYOR ERS 53



CONVEYOR SOLUTIONS FOR HEAVY GOODS

High loads with economy of use

The roller conveyors for heavy goods feature a fixed drive or a friction drive for low accumulation pressure conveying. Long conveyors lines can have a single motor

drive

Transport of heavy loads

Loads with a weight of up to 250 kg are transported with ease

Plug and play

68

Ready for installation and use with pre-assembled modules















70

ERS 53 BELT DRIVEN

WITH END DRIVE ERS 53

72

ERS 53 BELT DRIVEN

WITH GENERAL DRIVE ERS 53

74

ERS 53 BELT DRIVEN

CURVE ROLLER CONVEYOR ERS 53

76

ERS 53 INFEED / OUTFEED

80

ERS 53 ALIGNMENT

82

ERS 53 HIGH SPEED POP UP

30°

84

ERS 53 TRANSFER

90°



BELT DRIVEN WITH END DRIVE ERS 53

The ERS belt driven roller conveyor with end drive has been optimized to transport a great variety of product types. The ERS belt driven roller conveyor is the ideal device for highly dynamic applications that require gentle handling of for example cartons and totes. The flat belt drive guarantees a very low-noise operation.

Roller Conveyors Belt driven **ERS 53** Straight

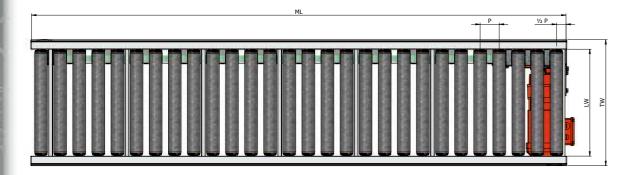


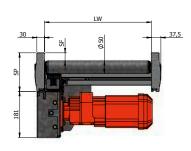
TECHNICAL DATA

easy	
CONVEYORS	

Max. load capacity	50 kg
Conveyor speed	Max 1,75 m/s
Inclined/declined	Not suitable
Ambient temperature	-5 to +50 °C
	Maximum load capacity is depending on the combination of speed & load
Roller	
Roller bearing	Sealed Precision ball bearing 6002 2RZ
Roller diameter	50 mm
Roller material	Steel, zinc-plated
Drive	
Rated voltage	400 V / 50 Hz / 3 phase
Max. electrical power per zone	1,5 kW
Drive medium	Belt
Side profile	
Profile H	151,5 mm high
	31,5 mm above top edge of roller
Profile L	Permits lateral displacement
	116 mm high
	4 mm below top edge of roller
Combination of profile heights left/right	

DIMENSIONS





Dimensions		
LW Clearance	420 / 520 / 620 / 820 mm	
ML Max. module length	3000 mm	
TW Module width	LW + 75 mm	
P Roller pitch	75 / 100 mm	
SP Side profile	116 / 151,5 mm	
SF Side guide	31,5 mm	

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 53**

> 2 Clearance LW Friction Top Roller put F behind the LW 420 | 520 | 620 | 820 Example 53 - 420F - 75 -

3 Roller pitch P in mm

- A 75 **B**100

4 Module length ML in mm

- A min 600 mm, numbers of rollers x P, max 3000 mm B min 625 mm, numbers of rollers x P, max 3000 mm

5 Drive postition

Right hand drive RH Left hand drive LH

6 Conveyor speed in m/s

0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,98 | 1,31 | 1,75

7 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number: 53E - 420 - 100 - 3000 - RH - 0,65 - HH

This reference number stands for Belt Driven Roller Conveyor ERS 53 with a clearance LW 420 mm, a roller pitch P 100 mm, a module length ML 3000 mm, an end drive on the right, a conveyor speed of 0.65 m/s and both sides high side profile.



ORDER INFORMATION• The module is fully assembled

- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR

• If you require a non-standard model, contact your local EASY Supplier.

- Support stands, see PAGE 104
- Accessoires, see PAGE 114







BELT DRIVEN WITH GENERAL DRIVE

The ERS belt driven roller conveyor with general drive has been optimized to transport a great variety of product types. The general drive can be positioned on several positions into the section. The general drive options gives you the possibility to go for longer lengths and still have one drive unit. The ERS roller conveyor is the ideal device for highly dynamic applications that require gentle handling of products for example cartons and totes. The flat belt drive guarantees a very low-noise operation.

Roller Conveyors Belt driven ERS 53 Straight

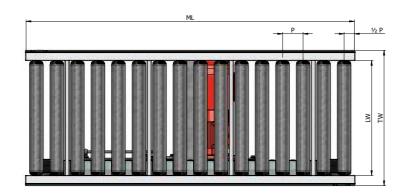


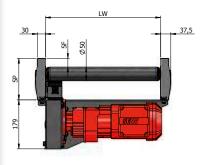
TECHNICAL DATA

easv	
CONVEYORS	

Max. load capacity	100 kg	
Conveyor speed	Max 1,75 m/s	
Inclined/declined	Not suitable	
Ambient temperature	-5 to +50 °C	
<u> </u>	Maximum load capacity is depending on the combination of speed & load	
Roller		
Roller bearing	Sealed Precision ball bearing 6002 2RZ	
Roller diameter	50 mm	
Roller material	Steel, zinc-plated	
Orive		
Rated voltage	400 V / 50 Hz / 3 phase	
Max. electrical power per zone	1,1 kW	
Drive medium	Belt	
Torque transmission	Roller-to-roller	
Side profile		
Profile H	151,5 mm high	
	31,5 mm above top edge of roller	
Profile L	Permits lateral displacement	
	116 mm high	
	4 mm below top edge of roller	
Combination of profile heights left/right		

DIMENSIONS





Dimensions		
LW Clearance	420 / 520 / 620 / 820 mm	
ML Max. module length	3000 mm	
TW Module width	LW + 75 mm	
P Roller pitch	75 / 100 mm	
SP Side profile	116 / 151,5 mm	
SF Side guide	31.5 mm	

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 53**

2 Clearance LW Friction Top Roller put F behind the LW 420 | 520 | 620 | 820 Example 53 - 420F - 75 -

3 Roller pitch P in mm 75 | 100

4 Module length ML in mm

1200 mm till max 21000 mm, increments by roller pitch P in mm

5 Drive postition

Right hand drive RH Left hand drive LH

6 Conveyor speed in m/s

0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,98 | 1,31 | 1,75

7 Side profiles HH | ĤL | LH | LL

ORDER EXAMPLE

Example for a reference number: 53G - 420 - 100 - 3000 - RH - 0,65 - HH

This reference number stands for Belt Driven Roller Conveyor ERS 53 with a clearance LW 420 mm, a roller pitch P 100 mm, a module length ML 3000 mm, a general drive on the right, a conveyor speed of 0.65 m/s and both sides high side profile.

ORDER INFORMATION• The module is fully assembled

- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR

• If you require a non-standard model, contact your local EASY Supplier.

- Support stands, see PAGE 104
- Accessoires, see PAGE 114









BELT DRIVEN CURVE ROLLER CONVEYOR

The ERS belt driven curve roller conveyor with end drive has been optimized to transport a great variety of product types. The ERS belt driven curve roller conveyor is the ideal device for highly dynamic applications that require gentle handling of products for example cartons and totes. The curved roller conveyor consists of precise tapered rollers, ensuring an accurate run-in or run-out and smooth curvilinear movement of products. The flat belt drive guarantees a very low-noise operation.

Roller Conveyors Belt driven ERS 53 Curve

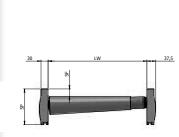


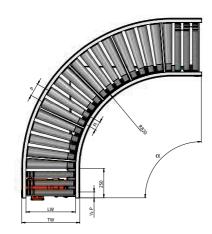
TECHNICAL DATA

easy
··· CONVEYORS

General technical data	I
Max. load capacity	100 kg
Conveyor speed	Max 1,75 m/s
Inclined/declined	Not suitable
Ambient temperature	-5 to +50 °C
<u> </u>	Maximum load capacity is depending on the combination of speed & load
Roller	
Roller bearing	Sealed Precision ball bearing 6002 2RZ
Roller diameter	50 mm
Roller material	Steel, zinc-plated with grey tapered polypropylene sleeves
Max. number of rollers per conveyor/zone	18 at 90°
	12 at 60°
	9 at 45°
	6 at 30°
Drive	
Rated voltage	400 V / 50 Hz / 3 phase
Max. electrical power per zone	1,1 kW
Drive medium	Belt
Side profile	
Profile H	151,5 mm high
	31,5 mm above top edge of roller
Profile L	Permits lateral displacement
	116 mm high
	4 mm below top edge of roller
Combination of profile heights left/right	

DIMENSIONS





Dimensions

74

Billioliolio	
LW Clearance	420 / 520 / 620 / 820 mm
TW Module width	LW + 75 mm
α Angle	30° / 45° / 60° / 90°
P Roller pitch , external	~ (0.1 mm x LW) + Pi
Pi Roller pitch , internalt	~ 77 mm
SP Side profile	151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 53** 2 Clearance LW

420 | 520 | 620 | 820

3 Angle α 30° | 45° | 60° | 90°

4 Drive position LH Left hand drive RH Right hand drive

5 Conveyor speed in m/s

6 CCW = counter clock wise CW = clock wise

0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,98 | 1,31 | 1,75

7 Side profiles HH | ĤL | LH | LL

ORDER EXAMPLE

Example for a reference number: 53 - 620 - 75 - 90 - RH - 0,33 - CW - HH

This reference number stands for Belt Driven Roller Conveyor ERS 53 with a clearance LW 620 mm, a roller pitch P 75 mm, an angle of 90°, an end drive, right hand and a conveyor speed of 0.33 m/s, product flow CW and both sides high side profile.

ORDER INFORMATION

- The module is fully assembled
- Please order support stands, side guid and straight connectors separately
- Steel components are zinc-plated

CONFIGURATOR

• If you require a non-standard model, contact your local EASY Supplier.

- Support stands, see PAGE 104
- Accessoires, see PAGE 114









BELT DRIVEN INFEED ROLLER CONVEYOR ERS 53

The EASY Belt driven merges, merges two conveyor lines together. The rollers are driven by belt.

Roller Conveyors Belt driven **ERS 53** Infeed

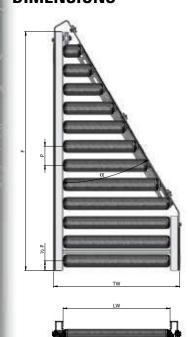


TECHNICAL DATA

easy	7
CONVEYORS 🖊	

	••• CONVETURO
General technical data	
Max. load capacity	100 kg
Conveyor speed	Max 1,75 m/s
Inclined/declined	Not suitable
Ambient temperature	+5 to +40 °C
	Maximum load capacity is depending on the combination of speed & load
Roller	
Roller bearing	Sealed Precision ball bearing 6002 2RZ
Roller diameter	50 mm
Roller material	Steel, zinc-plated
Max. number of rollers per conveyor/zone	See Application Notes
Drive	
Drive medium	Belt
Side profile	
Profile H	151,5 mm high
	31,5 mm above top edge of roller
Profile L	Permits lateral displacement
	116 mm high
	4 mm below top edge of roller
Combination of profile heights left/right	

DIMENSIONS



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D	I	m	е	n	S	ı	0	n	S

LW Clearance 420 / 520 / 620 / 820 mm	
TW Module width LW + 75 mm	
F face Lenght See Application Notes P118	
α Angle 30° / 45°	
P Roller pitch 75 mm	
SP Side profile 151,5 mm	
SF Side guide 31,5 mm	



EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 53**

> 2 Clearance LW 420 | 520 | 620 | 820

3 Pitch 75

4 Angle α 30° | 45°

5 Infeed

6 Drive position Right hand drive Left hand drive

RH LH

7 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number: 53 - 420 - 75 - 30 - I - LH - HH

This reference number stands for Belt Driven Roller Conveyor ERS 53 with a clearance LW 420 mm, a roller pitch P 75 mm, a infeed angle 30°, the drive medium on the left hand and both sides high side profile.



ORDER INFORMATION• The module is fully assembled

- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR

• If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114

This module is driven by the adjacent straight module.







BELT DRIVEN OUTFEED ROLLER CONVEYOR ERS 53

The EASY Belt driven merges, merges two conveyor lines together. The rollers are driven by belt.

Roller Conveyors Belt driven **ERS 53** Outfeed

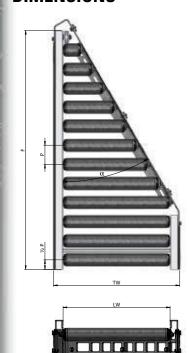


TECHNICAL DATA

easy	
CONVEYORS	

	••• OUNTE OHIO
General technical data	
Max. load capacity	100 kg
Conveyor speed	Max 1,75 m/s
Inclined/declined	Not suitable
Ambient temperature	+5 to +40 °C
	Maximum load capacity is depending on the combination of speed & load
Roller	
Roller bearing	Sealed Precision ball bearing 6002 2RZ
Roller diameter	50 mm
Roller material	Steel, zinc-plated
Max. number of rollers per conveyor/zone	See Application Notes
Drive	
Drive medium	Belt
Side profile	
Profile H	151,5 mm high
	31,5 mm above top edge of roller
Profile L	Permits lateral displacement
	116 mm high
	4 mm below top edge of roller
Combination of profile heights left/right	

DIMENSIONS



Dimensions	
LW Clearance	420 / 520 / 620 / 820 mm
TW Module width	LW + 75 mm
F face Lenght	See Application Notes P118
α Angle	30° / 45°
P Roller pitch	75 mm
SP Side profile	151,5 mm
SF Side guide	31,5 mm



EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 53**

2 Clearance LW 420 | 520 | 620 | 820

3 Pitch 75

4 Angle α 30° | 45°

> 5 Outfeed 0

6 Drive position Right hand drive Left hand drive

RH LH

7 Side profiles HH | ĤL | LH | LL

ORDER EXAMPLE

Example for a reference number: 53 - 420 - 75 - 30 - 0 - LH - HH

This reference number stands for Belt Driven Roller Conveyor ERS 53 with a clearance LW 420 mm, a roller pitch P 75 mm, a outfeed angle 30°, the drive medium on the left hand and both sides high side profile.



ORDER INFORMATION• The module is fully assembled

- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR

• If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114

This module is driven by the adjacent straight module.







BELT DRIVEN WITH GENERAL DRIVE

The ERS belt driven roller conveyor with general drive has been optimized to transport a great variety of product types. The general drive can be positioned on several positions into the section. The general drive options gives you the possibility to go for longer lengths and still have one drive unit. The ERS roller conveyor is the ideal device for highly dynamic applications that require gentle handling of products for example cartons and totes. The flat belt drive guarantees a very low-noise operation.

Roller Conveyors Belt driven ERS 53

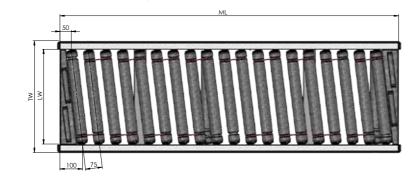
General Drive

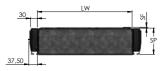
TECHNICAL DATA



Max. load capacity	50 kg
Conveyor speed	Max 1,75 m/s
Inclined/declined	Not suitable
Ambient temperature	-5 to +50 °C
	Maximum load capacity is depending on the combination of speed & load
Roller	
Roller bearing	Sealed Precision ball bearing 6002 2RZ
Roller diameter	50 mm
Roller material	Steel, zinc-plated
Drive Control of the	
Rated voltage	400 V / 50 Hz / 3 phase
Max. electrical power per zone	1,1 kW
Drive medium	Belt
Torque transmission	Roller-to-roller
Side profile	
Profile H	151,5 mm high
	31,5 mm above top edge of roller
Profile L	Permits lateral displacement
	116 mm high
	4 mm below top edge of roller
Combination of profile heights left/right	

DIMENSIONS





Dimensions

LW Clearance 420 / 520 / 620 / 820 mm	Billioliolollo	
MI May modulo longth 2000 mm		420 / 520 / 620 / 820 mm
	ML Max. module length	3000 mm
TW Module width LW + 75 mm	TW Module width	LW + 75 mm
P Roller pitch 75 / 100 mm	P Roller pitch	75 / 100 mm
SP Side profile 116 / 151,5 mm		116 / 151,5 mm
SF Side guide 31,5 mm	SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE ERS 53A

2 Clearance LW Friction Top Roller put F behind the LW Example 53 - 420F - 75 - 420 | 520 | 620 | 820

3 Roller pitch P in mm 75

4 Module length ML in mm

1500 mm till max 9000 mm, increments by roller pitch P in mm

5 Drive postition

Right hand drive RH Left hand drive LH

6 Conveyor speed in m/s 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,98 | 1,31 | 1,75

7 Side profiles

HH | ĤL | LH | LL

8 Alignment

Right R Left L

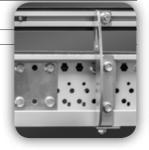
ORDER EXAMPLE

Example for a reference number: 53A - 420 - 100 - 3000 - RH - 0,65 - HH - R

This reference number stands for Belt Driven Roller Conveyor ERS 53A with a clearance LW 420 mm, a roller pitch P 100 mm, a module length ML 3000 mm, a general drive on the right, a conveyor speed of 0.65 m/s and both sides high side profile, alignment right.

Angle of rollers

420 - 6,8° | 520 - 5,5° | 620 - 4,6° | 820 - 3,5°



ORDER INFORMATION

- The module is fully assembled
- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR

• If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114





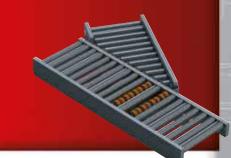




BELT DRIVEN HIGH SPEED POP-UP ERS 53

The high speed pop up diverts material that should maintain its direction of travel via pivoted rollers. The flow of material remains uninterrupted.

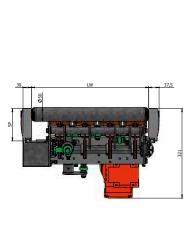
Roller Conveyors Belt driven **ERS 53** Pop up



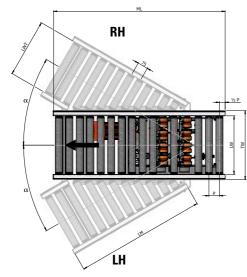
TE

TECHNICAL DATA		easv
12011110/12 5/11/1	Pneumatic	CONVEYORS
General technical data		
Max. load capacity per zone	50 kg	
Conveyor speed	Max 1,75 m/s	
Inclined/declined	Not suitable	
Ambient temperature	+5 to +40 °C	
	Maximum load capacity is depending on t	he combination of speed & load
Roller		
Roller bearing	Sealed Precision bearing	
	6002 2RZ	
Roller diameter	50 mm	
Roller material	Steel, zinc-plated	
Lifting gear		
Operating medium	Compressed air in accordance	
	with IS08573-1:2010 (7:4:4)	
Operating power/pressure	0,8 10 bar	
Piston diameter	40 mm	
Swiveling time	0,3 sec / 90°	
Side profile		
Profile H	151,5 mm high	1 m
	31,5 mm above top edge of roller	151,50

DIMENSIONS



Combination of profile heights left/right



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Di lisiulis	
LW Clearance	420 / 520 / 620 / 820 mm
LWT Clear width transfer	420 / 520 / 620 / 820 mm
ML Max. module lenght	2250 mm
TW Module width	LW + 75 mm
α Angle	30°
P Roller pitch	75 mm
LM lenght of merge	See Application Notes P123
SP Side profile	151,5 mm
SF Side guide	31,5 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 53**

2 Clearance LW Friction Top Roller put F behind the LW 420 | 520 | 620 | 820 Example 53 - 420F - 75 -

3 Module lenght ML in mm See Application Notes P123

4 Roller pitch P in mm 75

5 Diverter

Left hand drive LH Right hand drive RH Left/Right hand drive LRH

6 Drive side Left | Right

7 Type Pneumatic

8 Side profiles HL|LH|LL

53

ORDER EXAMPLE

Example for a reference number: 53 - 420 - 1425 - 75 - RH - R - P- LL

This reference number stands for belt driven roller conveyor high speed popup ERS 53 with a clearance LW of 420 mm, module length of 1425 mm an angle of 30 degrees a roller pitch of 75 mm a right hand diverter, drive side = right and Pneumatic lifting gear type with both sides low profiles.

Throughput: see calculation Page 126.

ORDER INFORMATION

- The module is completely assembled with control and sensors
- Please order support stands, side guide, end caps, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

• If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114









ROLLER DRIVE CONVEYOR BELT TRANSFER ERS 53

The Smart Conveyor 90° Transfer, lifts and transfers materials from a straight section and moves the materials at right angles, this can also be used for merging and diverting. The belt transfer cassettes are easily and quick replaceable to have minimum loss of production time.

Roller Conveyors Roller Drive Conveyor ERS 53 Transfer

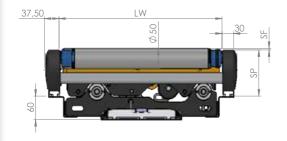


TECHNICAL DATA

easy

50 kg
0,1 to 1,75 m/s
0,98 m/s
0,3 m/s
Not suitable
+5 to +40 °C
Maximum load capacity is depending on the combination of speed & load
Sealed Precision ball bearing 6002 2RZ
50 mm
Steel, zinc-plated
Steer, Zilic-piated
24 VDC
0.05 kW
Poly-V
Roller-to-roller
24 VDC
0,3 sec
24 VDC
0.05 Kw
Toothed belt with Friction Top
15 mm above top edge of roller

DIMENSIONS





Dimensions

420 / 520 / 620 / 820 mm
900 mm
LW + 75 mm
90°
152,5 mm
152,5 + n x 80 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE ERS 53

2 Clearance LW 420 | 520 | 620 | 820

3 TYPE T1

4 Amount of cassette (n) 2 | 3 | 4 | 5

5 First cassette C1 | C2 | C3 | C4 | C5 | C6

6 Casset Pitch n x 75 mm

7 Conveyor speed in m/s

0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98 | 1,31 | 1,75

8 Transfer speed in m/s 0,36 | 0,55 | 0,73 | 0,98

9 Side profiles HL | LL | LH

ORDER EXAMPLE

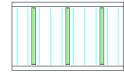
Example for a reference number:

53 - 620 - T1 - 3 - C2 - 2 - 0,65 - 0,98 - LL

This reference number stands for EASY transfer ERS 53 with a clearance LW of 620 mm, type T1 with 3 cassette, the first cassette C2 (position 152,5+80 mm) with every next cassette pitch of 2 x 80 mm (160 mm), conveyor speed 0,65 m/s, transfer speed 0,98 m/s and low side profile both sides.

The throughput is depending on the speed of the conveyor and transfer belt and the length of the product.

T1



ORDER INFORMATION

- Module is completely assembled with control and sensors
- Please order support stands, sideguids, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

 If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 240
- Accessoires, see PAGE 114
- With order supply the Pitch of the transfer belt







...conveyors



ERS BELT CONVEYORS



CONVEYOR SOLUTIONS FOR HEAVY GOODS

High loads with economy of use

The belt conveyor stands out for careful and extremely low-noise conveying of totes and cartons. It can be combined with either a head drive or a central drive depending on its length. The belt conveyor with central drive is used for long conveying distances, its timing belt transmission enables a very quiet and low-maintenance operation. The belt conveyor with head drive is especially used for short conveying distances, it is also equipped with timing belt transmission. Both versions of the belt conveyor can cope with inclines of up to 22,5°. It is capable of conveying even the smallest goods

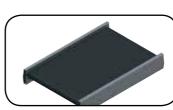
Transport of heavy loads

by Easy Conveyors

Loads with a weight of up to 600 kg are transported with ease

Plug and play

Ready for installation and use with pre-assembled modules













88

ERS 56/57 ROLLER DRIVE

BELT CONVEYOR ERS 56/57

92

ERS 70 BELT CONVEYOR STRAIGHT WITH HEAD DRIVE ERS 70

WITH HEAD DRIVE ERS /

94

ERS 70 BELT CONVEYOR STRAIGHT

WITH CENTER DRIVE ERS 70

96

ERS 70 BELT CONVEYOR STRAIGHT

WITH CENTER DRIVE + TOP ARCH ERS 70

98

ERS 70 BELT CONVEYOR STRAIGHT

WITH CENTER DRIVE + FEED ERS 70

100

ERS 70 BELT CONVEYOR STRAIGHT WITH CENTER DRIVE

+ TOP ARCH + FEED ERS 70

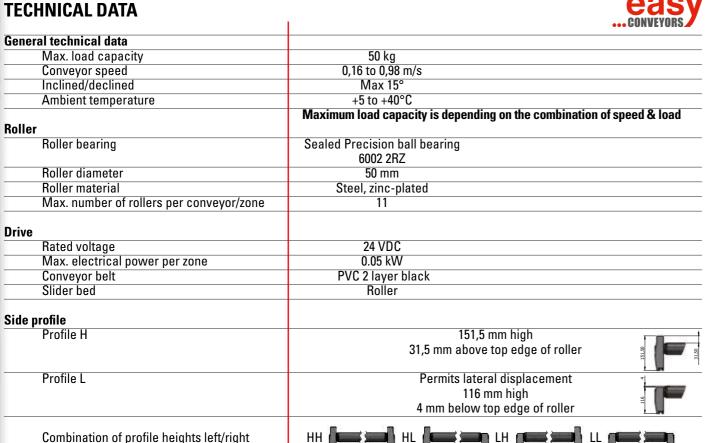


ROLLERDRIVE **BELT CONVEYOR**

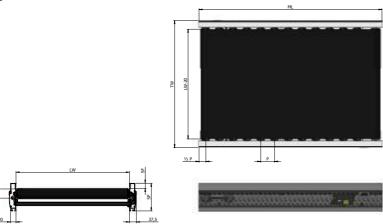
The RollerDrive Belt Conveyor is used with a PLC as transport storage conveyors or zero accumulation pressure storage conveyors. Each drive features a digital interface to an external control (PLC) that simultaneously protects the RollerDrive from overload. It is possible to transport small products.

Roller Conveyors Rollerdrive ERS 56 Straight





DIMENSIONS



_									
-I)	ı	m	Δ	n	c	n	n	c	

LW Clearance	420 / 520 / 620 / 820 mm	
ML Max. module length	3000 mm	
ZL Zone length	Number of rollers x P	
TW Module width	LW + 75 mm	
P Roller pitch	75 / 100 mm	
SP Side profile	116 /151,5 mm	
SF Side guide	31,5 mm	

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 56**

2 Clearance LW 420 | 520 | 620 | 820

3 Roller pitch P in mm A 75 | 100

4 Module length ML in mm (Length goes in steps of 25mm) A min 300 mm, numbers of rollers x P, see application notes P106

5 Number of zones See Application Notes, P119

6 Electric side Right | R / Left | L

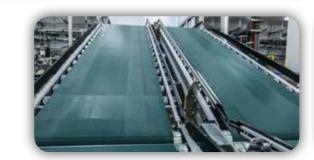
7 Conveyor speed in m/s 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98

8 Side profiles HH | HL | LH | LL

ORDER EXAMPLE

Example for a reference number: 56 - 620 - 125 - 500 - 4 - R - 0,33 - HH

This reference number stands for RollerDrive Conveyor ERS 56 with a clearance LW 620 mm, a roller pitch P 125 mm, a zone length 500 mm, 4 zones, the electric side on the right, a conveyor speed of 0.33 m/s and both sides high side profile.



ORDER INFORMATION

- The module is fully assembled
- Please order support stands, side guids, end caps, sensors, straight connectors and 24 V power supply unit separately
- Steel components are zinc-plated

CONFIGURATOR

- For selection of the RollerDrive please consult the information on PAGE 110
- If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114



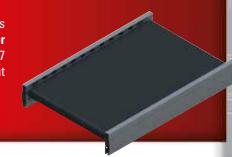




SMART BELT CONVEYOR

The Smart belt conveyor is a belt conveyor that is divided into zones and operates with zero pressure accumulation, the drive is based on the 24 VDC drive roller and the smart control incl build in sensors. It is possible to transport and accumulate small products.

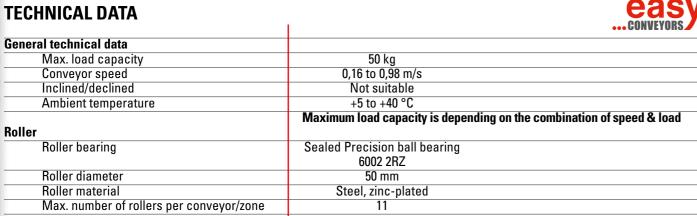
Roller Conveyors **Smart Conveyor ERS 57** Straight



TECHNICAL DATA

Rated voltage

Max. electrical power per zone



24 VDC

0.05 kW

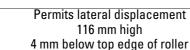
PVC 2 layer black

Roller

Conveyor belt		
Slider bed		
Side profile		

Drive

Profile H	151,5 mm high
	31,5 mm above top edge of rolle
Profile L	Permits lateral displacement



See Page 91

Combination of profile heights left/right









EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 57**

> 2 Clearance LW 420 | 520 | 620 | 820

3 Roller pitch P in mm A 75 | 100

4 Module length ML in mm (Length goes in steps of 25mm)

A min 300 mm, numbers of rollers x P, see application notes P119

5 Number of zones

See application notes P119

6 Electric side Right R / Left L

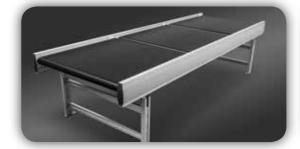
7 Conveyor speed in m/s 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,78 | 0,98

8 Side profiles HH | ĤL | LH | LL

ORDER EXAMPLE

Example for a reference number: 57 - 420 - 100 - 500 - 4 - R - 0,25 - HH

This reference number stands for Smart conveyor ERS 57 with a clearance LW 420 mm, a roller pitch P 100 mm, zone length 500 mm, 4 zones, the electric side on the right, a conveyor speed of 0.25 m/s and both sides high side profile.



ORDER INFORMATION

- Module is completely assembled with control and sensors
- Please order support stands, side guids, end caps, sensors, straight connectors and 24 V power supply unit separately
- · Steel components are zinc-plated

CONFIGURATOR

- For selection of the RollerDrive please consult the information on PAGE 110
- If you require a non-standard model, contact your local EASY Supplier.

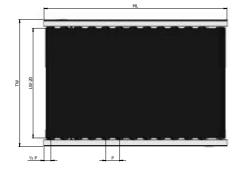
ACCESSOIRES

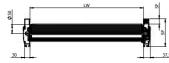
- Support stands, see PAGE 104
- Accessoires, see PAGE 114





DIMENSIONS







,,,,,,	1010110	
	LW Clearance	420 / 520 / 620 / 820 mm
	ML Max. module length	max. 3000 mm
	ZL Zone length	Number of rollers x P
	TW Module width	LW + 75 mm
	P Roller pitch	75 / 100 mm
	SP Side profile	116 /151,5 mm
	SF Side guide	31,5 mm



BELT CONVEYOR STRAIGHT WITH HEAD DRIVE ERS 70

The belt conveyors used for transport of unit loads that are not suitable for roller tracks, and for all types of unit loads in case of inclines and declines.

Belt Conveyors Belt driven **ERS 70** Straight

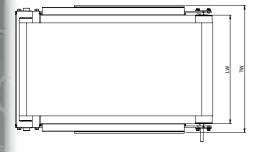


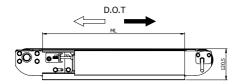
TECHNICAL DATA

easy

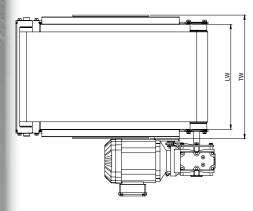
General technical data	Drum motor	Gear motor
Max. load capacity per module	120 kg	250 kg
Conveyor speed	Max 1,0 m/s	Max 1,75 m/s
Inclined/declined	Max 10°	Max 10°
Ambient temperature	-5 to +50 °C	-5 to +50 °C
elt material	Maximum load capacity is depending	on the combination of speed & load
Conveyor surface	PVC black - Type 2 M12 UO-V3N	
Roller bed	Roller ø50 ctc 100 mm	
Specs	see belt notes P91	
rive	Drum motor	Gear motor
Rated voltage	400 V / 50 Hz / 3 phase	400 V / 50 Hz / 3 phase
Max. electrical power per zone	0,12 kW	1,1 kW
Drive medium	Drive pully ø 81,5	ø 85
ide profile		
Profile L	116 mm high 4 mm below top edge of belt	9 7
	ц (====	max = 8,5 mtr

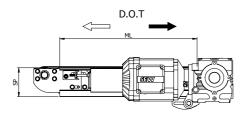
DIMENSIONS

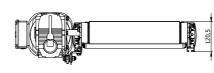












Dimensions

420 / 520 / 620 / 820 mm
3000 mm
LW + 75 mm
LW -/- 60 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 70**

2 TYPE 1

3 Clearance LW 420 | 520 | 620 | 820

4 Drive **GM** | Gear Motor **DM** Drum Motor

5 Module length ML in mm (Length goes in steps of 25mm) min 600 mm, max 3000 mm

| R

6 Drive postition Right hand drive Left hand drive

7 Side profiles

8 Conveyor speed in m/s 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,98

ORDER EXAMPLE

Example for a reference number:

70 - 1 - 420 - DM - 2000 - R - LL / 0.65

This reference number stands for Belt Conveyor with drum drive ERS 70 with a clearance LW 420 mm, a module length ML 2000 mm, a drum drive on the right, a conveyor speed of 0.65 m/s and both sides low side profile.





ORDER INFORMATION• The module is fully assembled

- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

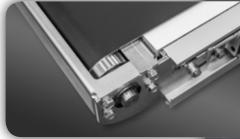
CONFIGURATOR

• If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114







93



BELT CONVEYOR STRAIGHT WITH CENTER DRIVE ERS 70

The belt conveyors used for transport of unit loads that are not suitable for roller tracks, and for all types of unit loads in case of inclines and declines.

Belt Conveyors

Belt driven

ERS 70

Straight

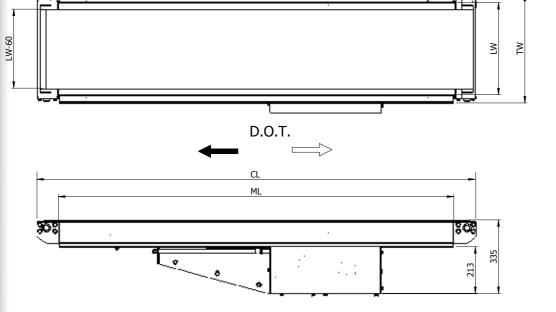


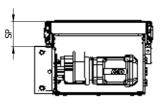
TECHNICAL DATA



Max. load capacity per module	600 kg
Conveyor speed	Max 2,6 m/s
Inclined/declined	Max 24°
Ambient temperature	-5 to +50 °C
·	Maximum load capacity is depending on the combination of speed & load
lt material	
Conveyor belt surface	PVC black - Type 2 M12 UO-V3N
Roller bed	Roller ø50 ctc 100 mm
Specs	see belt notes P91
ve Drum Motor	
Rated voltage	400 V / 50 Hz / 3 phase
Max. electrical power per zone	1,2 kW
Drive medium	Drive pully ø 180 mm vulcanised
le profile	
Profile L	116 mm high ₁
	4 mm below top edge of belt

DIMENSIONS





Dimensions

LW Clearance	420 / 520 / 620 / 820 mm
ML Max. module length	30.000 mm
TW Module width	LW + 75 mm
BW Belt wide	LW -/- 60 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE ERS 70

2 TYPE 2

3 Clearance LW

420 | 520 | 620 | 820

4 Module length ML in mm (Length goes in steps of 25mm)

min 1.500 mm, max 30.000 mm

5 Drive postition

Right hand drive Left hand drive

6 Side profiles

LL

7 Conveyor speed in m/s

0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,98 | 1,31 | 1,75 | 2,6

ORDER EXAMPLE

Example for a reference number:

70 - 2 - 420 - 2000 - R - LL / 0,33

This reference number stands for Belt Conveyor with center drive ERS 70 with a clearance LW 420 mm, a module length ML 12.000 mm, a head drive on the right, a conveyor speed of 0.33 m/s and both sides low side profile.



ORDER INFORMATION

- The module is fully assembled
- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR

 If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114









BELT CONVEYOR STRAIGHT WITH CENTER DRIVE + OUTFEED ERS 70

The belt conveyor ERS 70 with top arch is used for transport all types of unit loads in case of inclines and declines. The arch reduces noice and the impact of materials while passing over them.

Belt Conveyors

Belt driven

ERS 70
Incline

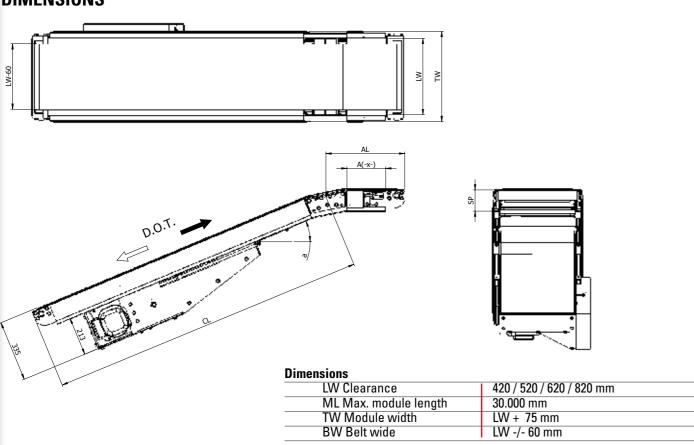


TECHNICAL DATA

easy

General technical data	
Max. load capacity per module	600 kg
Conveyor speed	Max 2,6 m/s
Inclined/declined	Max 22,5°
Ambient temperature	-5 to +50 °C
elt material	Maximum load capacity is depending on the combination of speed & load
Conveyor belt surface	PVC black with TPU, grooved longitudinally - Type 2 M12 V7LGFr
Roller bed	Roller ø50 ctc 100 mm
Specs	see belt notes P90
rive Drum Motor	
Rated voltage	400 V / 50 Hz / 3 phase
Max. electrical power per zone	1,2 kW
Drive medium	Drive pully ø 180 mm vulcanised
ide profile	
Profile L	116 mm high
	4 mm below top edge of belt
	ц (===

DIMENSIONS



EASY CONFIGURATOR

Please create the reference number with the following configurator.

- 1 TYPE ERS 70
- 2 TYPE 3
- 3 Clearance LW 420 | 520 | 620 | 820
- **4 Outfeed Angle** α 4° | 8° | 12° | 16° | 20° | 22,5°
- 5 Module length ML in mm (Length goes in steps of 25mm) min 1.500 mm, max 30.000 mm
- 11111 1.500 11111, 1110
- 6 A =
 A1 212,5 mm | A2 312,5 mm | A3 412,5 mm | A4 512,5 mm | A5 612,5 mm
 AL = A + +/- 220 mm | CL = ML + +/- 246 mm (depending on outfeed angle)
- **7** Drive postition

Right hand drive Left hand drive

8 Side profiles

LL

9 Conveyor speed in m/s 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,98 | 1,31 | 1,75 | 2,6

70 - 3

3 -

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] - [

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-

L / [

ORDER EXAMPLE

Example for a reference number: 70 - 3 - 420 - 12 - 6000 - A2 - R - LL / 0,33

This reference number stands for Belt Conveyor ERS 70, type 3 with a clearance LW 420 mm, an arch angle of 12°, a module length ML 6.000 mm, with a outfeed of 312,50 mm and a right hand center drive and both sides low side profile, speed is 0,33 m/s.



ORDER INFORMATION

- The module is fully assembled
- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR

 If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114





easy ... conveyors



BELT CONVEYOR STRAIGHT WITH CENTER DRIVE + INFEED ERS 70

The belt conveyor ERS 70, type 4 is used for transporting all types of unit loads in case of inclines and declines. The feed anables a smooth transition at the lower unit of the belt conveyor, e.g. at the interface with a roller conveyor.

Belt Conveyors

Belt driven

ERS 70

Straight

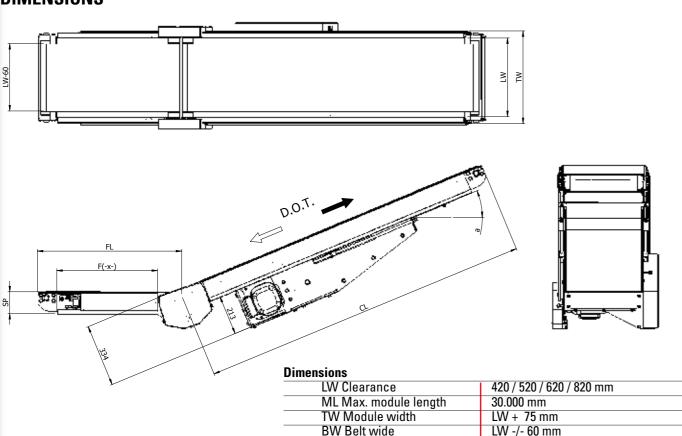


TECHNICAL DATA



	••• CONVETURO J
General technical data	
Max. load capacity per module	600 kg
Conveyor speed	Max 2,6 m/s
Inclined/declined	Max 22,5°
Ambient temperature	-5 to +50 °C
·	Maximum load capacity is depending on the combination of speed & load
Belt material	
Conveyor belt surface	PVC black with TPU, grooved longitudinally - Type 2 M12 V7LGFr
Roller bed	Roller ø50 ctc 100 mm
Specs	see belt notes P90 - 91
Drive Drum Motor	
Rated voltage	400 V / 50 Hz / 3 phase
Max. electrical power per zone	1,2 kW
Drive medium	Drive pully ø 180 mm vulcanised
Side profile	
Profile L	116 mm high
	4 mm below top edge of belt
	ц (====

DIMENSIONS



EASY CONFIGURATOR

Please create the reference number with the following configurator.

- 1 TYPE ERS 70
- 2 TYPE 4

6 F=

- 3 Clearance LW 420 | 520 | 620 | 820
- **4 Infeed Angle** α 4° | 8° | 12° | 16° | 20° | 22,5°
- 5 Module length ML in mm (Length goes in steps of 25mm) min 1.512,50 mm, max 30.000 mm

F1 537,5 mm | **F2** 637,5 mm | **F3** 737,5 mm | **F4** 837,5 mm

- 111111 1.312,30 111111, 111ax 30.00
- FL = F + +/- 233,5 mm CL = ML + +/- 246 mm (depending on infeed angle)

7 Drive postitionRight hand drive

8 Side profiles

Left hand drive

9 Conveyor speed in m/s

0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,98 | 1,31 | 1,75 | 2,6

70 -

4

٦.

-

] / [

ORDER EXAMPLE

Example for a reference number: 70 - 4 - 420 - 20 - 10.000 - F3 - R - LL / 0,65

This reference number stands for Belt Conveyor ERS 70, type 4 with a clearance of 420 mm, a feed angle of 20°, a module length ML 10.000 mm, with a infeed length of 737,50 mm and a right hand center drive and both sides low side profile, speed is 0,65 m/s.



ORDER INFORMATION

- The module is fully assembled
- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR

 If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114





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BELT CONVEYOR STRAIGHT WITH CENTER DRIVE + INFEED + OUTFEED ERS 70

The belt conveyor ERS 70, type 5 is used for transporting all types of unit loads in case of inclines and declines. Arch and feed allow a smooth and quieter transition at the upper and lower link.

Belt Conveyors

Belt driven

ERS 70

Straight

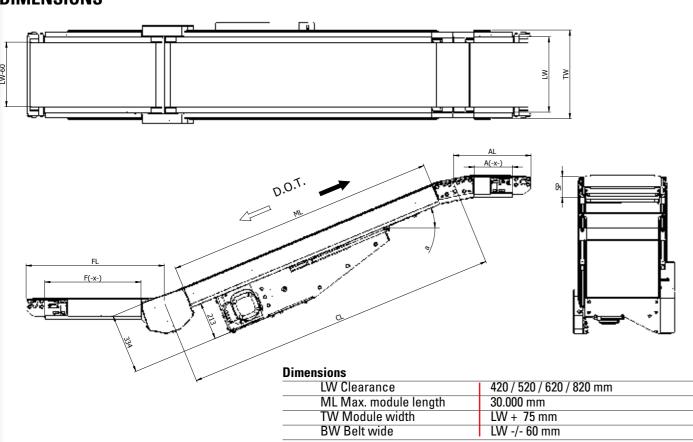


TECHNICAL DATA

easy

Max. load capacity per module	600 kg
Conveyor speed	Max 2,6 m/s
Inclined/declined	Max 22,5°
Ambient temperature	-5 to +50 °C
·	Maximum load capacity is depending on the combination of speed & load
elt material	
Conveyor belt surface feed	PVC black - Type 2 M12 UO-V3N
Conveyor belt straight + Arch	PVC black with TPU, grooved longitudinally - Type 2 M12 V7LGFr
Roller bed	Roller ø50 ctc 100 mm
Specs	see belt notes P90-91
rive Drum Motor	
Rated voltage	400 V / 50 Hz / 3 phase
Max. electrical power per zone	1,2 kW
Drive medium	Drive pully ø 180 mm vulcanised
ide profile	
Profile L	116 mm high
	4 mm below top edge of belt

DIMENSIONS



EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE ERS 70

2 TYPE 5

3 Clearance LW 420 | 520 | 620 | 820

4 Outfeed angle α 4° | 8° | 12° | 16° | 20° | 22,5°

5 F-

F1 537,5 mm **F2** 637,5 mm **F3** 737,5 mm **F4** 837,5 mm **FL** = F + +/- 233,5 mm **CL** = ML + +/- 246 mm (depending on infeed angle)

6 Module length ML in mm (Length goes in steps of 25mm) min 1.512,50 mm, max 30.000 mm

7 A =

A1 212,5 mm **A2** 312,5 mm **A3** 412,5 mm **A4** 512,5 mm **A5** 612,5 mm AL = A + +/- 220 mm CL = ML + +/- 246 mm (depending on outfeed angle)

8 Drive postition

Right hand drive | Left hand drive |

9 Side profiles

10 Conveyor speed in m/s

0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,98 | 1,31 | 1,75 | 2,6

ORDER EXAMPLE

Example for a reference number: 70 - 5 - 420 - 8 - F2 - 7500 - A3 - R - LL / 0,65

This reference number stands for Belt Conveyor ERS 70, type 5 with a clearance of 420 mm, an arch angle of 8°, a infeed length of 637,5 mm, a module length of 7.500 mm, with a outfeed length of 412,50 mm and a right hand center drive and both sides low side profile, speed is 0,65 m/s.

ORDER INFORMATION

- The module is fully assembled
- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR

 If you require a non-standard model, contact your local EASY Supplier.

ACCESSOIRES

- Support stands, see PAGE 104
- Accessoires, see PAGE 114







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CONVEYOR AND PROCESS BELTS ERS 70 2M12 U0-V7 LG FR

CONVEYOR AND PROCESS BELTS ERS 70 2M12 U0-V3 N

TECHNICAL DATA

C	OMPOSITIO	N
	material	PVC 45 Sh.A (±5)
ng e	thickness	0.70 mm <i>0.028 in.</i>
Conveying surface	surface pattern	LG
Con	colour	anthracite
	coefficient of friction	HF
SS	material	polyester (PET)
Textile carcass	plies no.	2
⊢ წ	weft type	rigid
	material	fabric with polyurethane (TPU) impregnation
Driving surface	thickness	mm <i> in.</i>
Driv	surface pattern	LdB fabric
	colour	grey

TECHNICAL SP	ECIFICATIO	NS		
Total thickness		2.70 mm	0.11	in.
Weight		2.40 kg/m ²	0.49	lbs./sq.ft
Elongation at 1%		12 N/mm	68.5	lbs./in.
Max. admissible pul	I	24 N/mm	137.0	lbs./in.
Temperature resistance (1)	min.	-10 °C	14	°F
resistance (1)	max.	60 °C	140	°F
(1) use of the belt with lim	nit values may re	educe its life		
Minimum roller diar	neter ⁽²⁾			
knife edge		no		
bending roller		40 mm	1.6	in.
counter-bending	roller	60 mm	2.4	in.

 $^{\left(2\right)}$ the above mentioned values depend on the type of CHIORINO joint recommended

Coefficient of friction on driving surface		
raw steel sheet	0.20 [-]	
laminated plastic/wood	0.25 [-]	
steel roller	0.20 [-]	
rubberized roller	0.30 [-]	

SUITABLE FOR

Max. production width

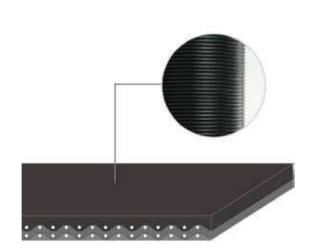
Airports

Materials handling

2000 mm

79 in.





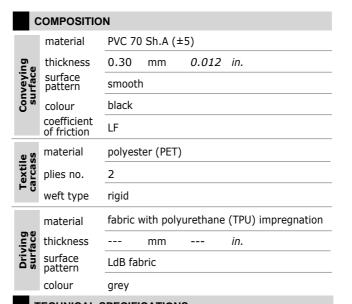
FEATURES	
Humidity influence	no
Suitable to metal detector	no
Permanent antistatic dynamically (UNI EN ISO 21179)	yes
Static conductivity (UNI EN ISO 284)	no
Conveying on skid bed	yes
Conveying on rollers	yes
Conveying on skid bed on top and return	no
Troughed conveying	no
Swan neck conveying	yes
Inclined conveying	yes
Accumulators belts	no
Curved conveyor	no
Chemical resistances (see file available on line)	9

COMPLIANCES

REACH Regulation EC 1907/2006 and amendments Flame Retardant UNI EN ISO 340 Flame Retardant UL94HB Horizontal Burning

NOTES

TECHNICAL DATA



TECHNICAL SP	ECIFICATIO	N5		
Total thickness		1.90 mm	0.07	in.
Weight		2.10 kg/m^2	0.43	lbs./sq.f
Elongation at 1%		12 N/mm	68.5	lbs./in.
Max. admissible pu	II	24 N/mm	137.0	lbs./in.
Temperature resistance (1)	min.	-10 °C	14	°F
resistance (1)	max.	60 °C	140	°F
(1) use of the belt with lin	nit values may re	educe its life		
Minimum roller diar	neter (2)			

bending roller	40 mm	1.6 in.
counter-bending roller	50 mm	2.0 in.
(2) the above mentioned values dep	end on the type of CHIOR	INO joint recommende
Coefficient of friction on driv	ing surface	
raw steel sheet	0.20 [-]	
laminated plastic/wood	0.25 [-]	
steel roller	0.20 [-]	

no

0.30 [-] rubberized roller Max. production width 3000 mm 118 in.

SUITABLE FOR

knife edge

Wood: MDF particle board panels Packaging Supermarkets check-outs Telescopic belts Plastic materials moulding







FEATURES	
Humidity influence	no
Suitable to metal detector	no
Permanent antistatic dynamically (UNI EN ISO 21179)	yes
Static conductivity (UNI EN ISO 284)	no
Conveying on skid bed	yes
Conveying on rollers	yes
Conveying on skid bed on top and return	no
Troughed conveying	no
Swan neck conveying	yes
Inclined conveying	no
Accumulators belts	yes
Curved conveyor	no
Chemical resistances (see file available on line)	2

COMPLIANCES

REACH Regulation EC 1907/2006 and amendments

NOTES

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ADJUSTABLE SUPPORT STANDS Type ERS 60

The EASY Support Stands consist of robust aluminium profile upon which the conveyor modules are mounted. The support stands are equipped with an adjustable supports and are fixed to the conveyor side frame via a top coupling bracket.

Support Stand



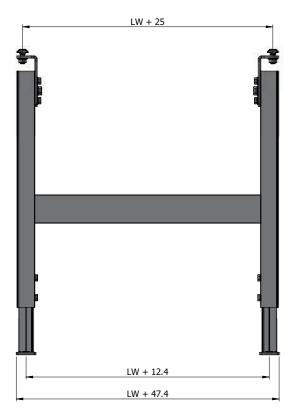
TECHNICAL DATA

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General technical data		
Max. load capacity	200 kg	
Side profile		
Combination of profile heights left/right	HH (==) HL (==) LH (==)	
Number of cross members	1 with 350 to 800 mm top of roller height	
	2 with 800 to 1400 mm top of roller height	
	3 with 1400 to 2000 mm top of roller height	

DIMENSIONS





Dimensions

LW Clearance	420 / 520 / 620 / 820 mm
T.O.R. Top of roller height	362 to 2000 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 60**

2 Clearance LW 420 | 520 | 620 | 820

3 Height

iivigiit	
1	362,5 - 442,5 mm
2	432,5 - 582,5 mm
3	572,5 - 862,5 mm
4	852,5 - 1422,5 mm
5	1412.5 - 2542.5 mm

4 Module

S	Straight sectio
C	Curve section

1	2	3	•
20			

ORDER EXAMPLE

Example for a reference number:

60 - 420 - 3 - S

This reference number stands for ERS Support Stands with a clearance LW 420 mm and a top of roller height of roller 572,5 till 862,5 mm, straight section.

Note 1 Longitudinal or diagonal cross members are not included

2 Dependable on conveyor speed, load, start/stops, etc. additional cross mebersnoted under "1" are not included



ORDER INFORMATION• The module is fully assembled

- Steel components are zinc-plated

CONFIGURATOR

• If you require a non-standard model, contact your local EASY Supplier.





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ADJUSTABLE SUPPORT STANDS Type ERS 60

The EASY Support Stands consist of robust aluminium profile upon which the conveyor modules are mounted. The support stands are equipped with an adjustable supports and are fixed to the conveyor side frame via a top coupling bracket.

Support Stand

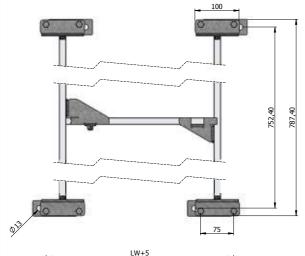


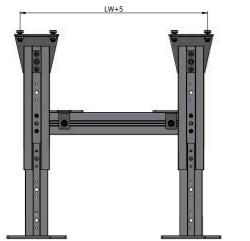
TECHNICAL DATA

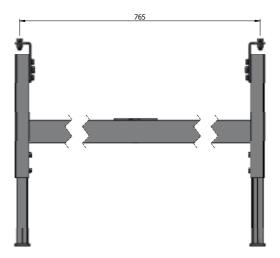
easy ... conveyors

General technical data		
Max. load capacity	200 kg	
Side profile		
Combination of profile heights left/right	HH (===) HL (===) LH (===) LL (===)	
Number of cross members	1 with 577,5 to 657,5 mm top of roller height	
2 with 647,5 to 797,5 mm top of roller height		
	3 with 787,5 to 1077,5 mm top of roller height	
	4 with 1067,5 to 1637,5 mm top of roller height	
	5 with 1627,5 to 2757,5 mm top of roller height	

DIMENSIONS







Dimensions

LW Clearance	420 / 520 / 620 / 820 mm
T.O.R. Top of roller height	577 to 2000 mm

EASY CONFIGURATOR

Please create the reference number with the following configurator.

1 TYPE **ERS 60**

2 Clearance LW 420 | 520 | 620 | 820

3 Height

• Height	
1	577,5 - 657,5 mm
2	647,5 - 797,5 mm
3	787,5 - 1077,5 mm
4	1067,5 - 1637,5 mm
5	1627.5 - 2757.5 mm

4 Module

Transfer module

ORDER EXAMPLE

Example for a reference number:

60 - 420 - 3 - T

This reference number stands for ERS Support Stands with a clearance LW 420 mm and a top of roller height of roller 572,5 till 862,5 mm, transfer.

Note 1 Longitudinal or diagonal cross members are not included

2 Dependable on conveyor speed, load, start/stops, etc. additional cross mebersnoted under "1" are not included

ORDER INFORMATION• The module is fully assembled

- Steel components are zinc-plated

CONFIGURATOR

• If you require a non-standard model, contact your local EASY Supplier.





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STOPPER TYPE 1 ERS 61



STOPPER TYPE 2 ERS 61

TECHNICAL DATA



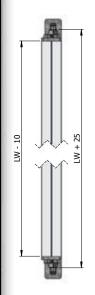
General technical data Max. accumulation Pressure	300 N
Widx. decumulation i ressure	300 14
Side profile	
Combination on profile heights left/right	HH (==) HL (==) LL (==)

TECHNICAL DATA

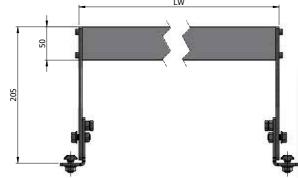


General technical data Max. accumulation Pressure	300 N
Side profile	
Combination on profile heights left/right	

DIMENSIONS

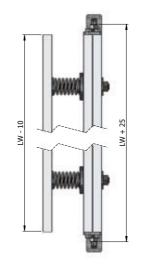




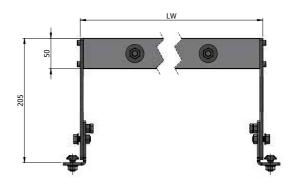


	T	Ψ.	
Order example			
W	Art nr		
420	61-420-1		
520	61-520-1		
620	61-620-1		
820	61-820-1		
Dimensions			
LW Clearance	420 / 520 / 620 / 820 mm		

DIMENSIONS







Order example

W	Art nr
420	61-420-2
520	61-520-2
620	61-620-2
820	61-820-2
Dimensions	
LW Clearance	420 / 520 / 620 / 820 mm



ROLLERDRIVE 24 VDC





PRODUCT DESCRIPTION

easy ... conveyors

- Internal commutation electronics (brushless motor)
- 9 gear stages
- Constant conveyor speed
- Energy recovery in braking
- Electronic holding brake
- Motor cable with 5-pole snap-in plug

TECHNICAL DATA

Mechanical power	32 W
Noise level	55 dB(A)
Max. load capacity with a reference length of from 300 to 1,000 mm	1,100 N
Max. load capacity with a reference length of from 1,010 to 1,500 mm	490 N
ical data	
Rated voltage	24 V DC
Voltage range	18 to 28 V DC
Idle current	0.4 A
Rated current	2.0 A
Max. start-up current	5.0 A
Permissible voltage undulation	< 5 %, recommended: < 1 %
Protection rate	IP54
sions	
Tube diameter	50 mm
Wall thickness	1.5 mm
Max. reference length	1,500 mm
ent conditions	
	0 : 40 :00
Ambient temperature in operation	0 to +40 °C
Ambient temperature during transport and storage	-30 to +75 °C
Max. air humidity	90 %, non-condensing







PRODUCT SELECTION

The following tables provide an overview of the possible versions.

Gear stage versions

Gear ratio	Max. conveyor speed	Rated torque	Start-up torque	Zero motion hold
	m/s	Nm	Nm	Nm
9:1	1.75	0.45	1.10	0.36
12:1	1.31	0.61	1.46	0.48
16:1	0.98	0.81	1.95	0.64
20:1	0.79	1.01	2.44	0.80
24:1	0.65	1.21	2.92	0.96
36:1	0.44	1.82	4.38	1.44
48:1	0.33	2.42	5.85	1.92
64:1	0.25	3.23	7.80	2.56
96:1	0.16	4.84	11.69	3.84

Counter bearing and min. reference length versions

Tube	Shaft	Gear ratio	Min. reference length
			mm
2 grooves	11 mm hex spring-loaded shaft	9:1	335
		12:1 / 16:1 / 20:1 / 24:1	331
		36:1 / 48:1 / 64:1 / 96:1	342
	Female thread M8	9:1	315
		12:1 / 16:1 / 20:1 / 24:1	311
		36:1 / 48:1 / 64:1 / 96:1	322
Without grooves	11 mm hex spring-loaded shaft	9:1	312
		12:1 / 16:1 / 20:1 / 24:1	308
		36:1 / 48:1 / 64:1 / 96:1	319
	Female thread M8	9:1	270
		12:1 / 16:1 / 20:1 / 24:1	266
		36:1 / 48:1 / 64:1 / 96:1	277
PolyVee head	11 mm hex spring-loaded shaft	9:1	305
Round belt head		12:1 / 16:1 / 20:1 / 24:1	301
		36:1 / 48:1 / 64:1 / 96:1	312
	Female thread M8	9:1	295
		12:1 / 16:1 / 20:1 / 24:1	291
		36:1 / 48:1 / 64:1 / 96:1	302
Toothed belt head	Female thread M8	9:1	287
Chain head		12:1 / 16:1 / 20:1 / 24:1	283
		36:1 / 48:1 / 64:1 / 96:1	294



ROLLERDRIVE 24 VDC



Female thread M8

RL = EL - 11

EL

max. 125

min. 30 min. 35



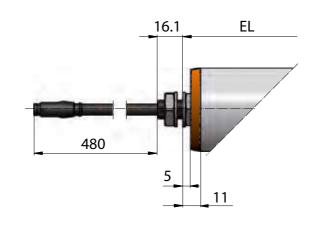


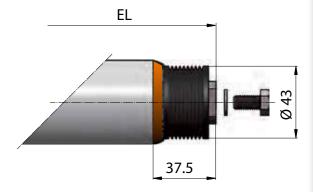
DIMENSIONS AND CONNECTIONS

Dimensions

The dimensions depend on the shaft and counter bearing selected. The reference length/ordering length RL does not have any reference edges on the conveyor roller and can therefore not be shown. The installation (EL) corresponds to the clearance between the side profiles. All dimensions in mm.

Motor shaft





RL = EL - 36











ACCESSOIRES



GRAVITY ROLLER FOR TYPE 50 & 53

Wide	Art nr	Wide	Art nr
320	ERS040308000320	620	ERS040308000620
420	ERS040308000420	820	ERS040308000820
520	ERS040308000520		



POLY-V BELT ROLLER FOR TYPE 51 & 52

Wide	Art nr	Wide	Art nr
320	ERS040308011320	620	ERS040308011620
420	ERS040308011420	820	ERS040308011820
520	ERS040308011520		



ROUND BELT FOR TYPE 51 & 52

C.t.C.	Art nr
75	ERS040305030075
100	ERS040305030100
125	ERS040305030125



ROUND BELT ROLLER FOR TYPE 51 & 52

Wide	Art nr		Art nr
320	ERS040308010320	620	ERS040308010620
420	ERS040308010420	820	ERS040308010820
520	ERS040308010520		



BELT FOR TYPE 53

Art nr	
ERS040305000007	FLAT BELT CORD; PA
	RUBBERIZED 30x2.2



POLY-V BELT ROLLER FOR TYPE 51 & 52

C.t.C.	Art nr
75	ERS040305031075
100	ERS040305031100
125	ERS040305031125



SENSORCLIP INCL. SENSOR

Art nr ERS040315000000 ERS PHOTO CELL KIT WITH PLASTIC CLIP



COVER CAPS

OOTEN ON O	
04030608000 1	
04030608000 2	
04030608000 3	
04030608000 4	



STRAIGHT CONNECTOR

Art nr
ERS040305040000 ERS STRAIGHT CONNECTOR



FIXED SIDE GUIDE

Art nr ERS040311010000



ADJUSTABLE SIDE GUIDE TYPE 3

Art nr ERS040311000002



BRACKET

 Art nr

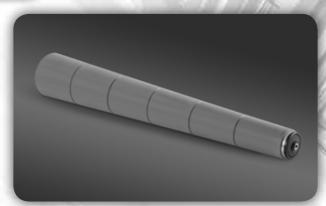
 ERS040311020000
 SENSOR BRACKET

 ERS040311020001
 REFLECTOR BRACKET





ACCESSOIRES



GRAVITY CURVE ROLLER FOR TYPE 50

Wide	Art nr
420	ERS040308020420
620	ERS040308020620
820	FRS040308020820



ROUND BELT CURVE ROLLER FOR TYPE 51 & 52

Wide	Art nr
420	ERS040308040420
620	ERS040308040620
820	ERS040308040820



POLY-V BELT CURVE ROLLER FOR TYPE 51 & 52

Wide	Art nr
420	ERS040308041420
620	ERS040308041620
820	ERS040308041820



Wide	1921	Art nr
420		ERS040308030420
620	100	ERS040308030620





WHAT ARE THE APPLICATION NOTES FOR?

The Design Notes help you to select the conveying modules most suitable for your conveying task.



The catalogue has six conveyor module chapters:

- Gravity type ERS 50
- 24 V DC Rollerdrive ERS 51/56
- 24 V DC Smart conveyor ERS 52/57
- Belt driven ERS 53
- Belt conveyors ERS 70
- Support stands ERS 60

The sixt chapter lists accessories ERS

If you know your conveying task and your transport materials you can select the most suitable conveyor module chapter with the aid of the diagram in the chapter "Product selection – here's what to do".

Further selection of the conveyor elements is shown in the following chapters, ranging from general principles to selection of the correct power capacity for a conveyor section.

Your task and your transport material

You must ask three guestions prior to selection of the conveyor modules:

What task must the conveyor technology fulfil?

- Transporting and/or accumulation
- Sorting and/or distributing

What properties does your transport material have?

- Length, width and height: minimum and maximum dimensions of the material to be transported together on one line
- Weight: minimum and maximum weights of the unit load, ideally assigned to the dimensions
- Composition and surface of the transport material base: the base for example determines the suitability for roller conveyors

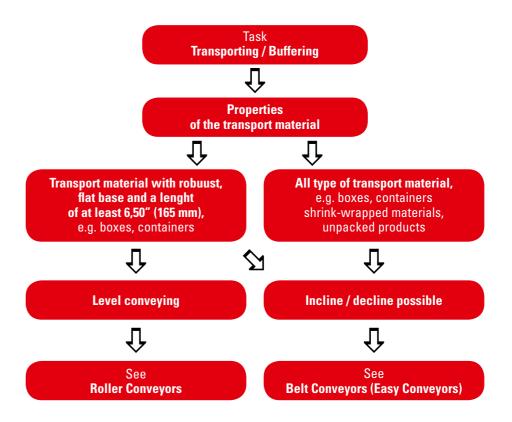
Does the composition of your transport material or the surroundings require special measures?

- · Are extreme temperatures, a high level of humidity or chemical influences prevalent?
- Is static electricity likely to be a problem?
- Is the material fragile or problematic in any other way?

Your EASY customer consultant will be glad to help you in answering these questions. EASY particularly recommends a consultation with regard to special measures.

Product selection - here's what to do

The task to be carried out by the conveying technology guides you via the following diagram directly to the three main chapters of the catalogue: roller conveyors, belt conveyors and sorting and distributing.



After selecting the chapter suited to your conveying requirements, you can then make a more detailed product selection with the corresponding overview pages according to the properties of your transport material and the desired functions.

The conveying elements are listed on the overview pages with the following properties:

- Maximum load capacity
- Maximum conveyor speed
- Function of the conveyor module:
 - Non-contact accumulation
 - Accumulation
 - Conveying
 - Separating
 - Synchronising
 - Reversing







BASIC PRINCIPLES FOR TROUBLE-FREE TRANSPORT

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In order to transport material flawlessly upon a roller conveyor, the following basic principles must be adhered to:

Roller pitch

The roller pitch P must be selected so that at least three conveyor rollers are below the transport material at any one time:

P	Roller pitch in mm
L	Transport material length in mm

Load capacity

The weight of the transport material must be distributed upon the load-bearing conveyor rollers so that the maximum load capacity of the individual conveyor rollers is not exceeded. This may mean that more than three conveyor rollers must support the transport material.

Clearance

With straight sections, the clearance LW of the conveyor consists of at least the width of the transport material + 50 mm:

 $LW \ge B + 50mm$

LW	Clearance in mm
В	Transport material width in mm

In the following cases a greater clearance must be selected:

- The following applies with conveyors into which the transport material is to be diverted: LW> B + 100 mm
- For curves



CLASSIFICATION OF ROLLER CONVEYORS

Easy classifies roller conveyors according to weight classes and drive technology.

Weight classes

Easy divides conveyor modules into the following classes according to the weight of transport material:

Up to 30 kg: Light

Up to 100 kg: Medium

• Up to 250 kg: Heavy

This catalogue covers the **Light, Medium** and **Heavy** classes. Please contact your Easy customer consultant for information concerning the other classes.

Medium class

Transport material	Boxes, plastic containers, trays, tyres etc.
Load capacity	0 to 100 kg
Conveyor speed	0.2 to 1.2 m/s
Clearance LW	420 - 620 - 820 mm
Roller pitch P	75 - 100 - 125 mm
Rollers	Steel, zinc-plated
Ambient temperature	-5 to +50 °C or +5 to +40 °C (depending upon product)

Heavy class

Transport material	Castings, small pallets, automotive components, trays etc.
Load capacity	0 to 250 kg
Conveyor speed	0.2 to 2 m/s
Clearance LW	420 - 620 - 820 mm
Roller pitch P	Depends upon product
Rollers	Steel, zinc-plated
Ambient temperature	-5 to +50 °C

Drive classes

Easy divides conveyor modules according to drive technology into the following classes:

- Gravity roller conveyors
- Driven roller conveyors

Gravity gravity conveyors are used as low-cost, simple solutions for many conveying areas. The transport material is moved via gravity (angle of conveyor) or manually. Optional speed controllers limit the conveyor speed of the transport material on declined roller conveyors.

Driven conveyors are used for the continuous transport, storage and distribution of transport material, and throughput can be precisely set. Accurate positioning of the material carried on the conveying line is possible as well as automatic diverting to or from the conveyor.





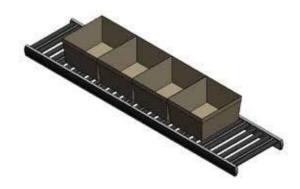
GENERAL NOTES ABOUT ROLLER CONVEYOR TECHNOLOGY



Accumulation pressure

The accumulation pressure FL is defined as the force required to prevent the moving forward of the transport material being conveyed. Accumulation pressure values refer to a stable conveying situation, i. e. with constant conveyor speed and without consideration of supplementary influences. The following applies:

 $F_L = m_T \times g \times \mu$



ш.		
и	F_{L}	Accumulation pressure in N
	$m_{\scriptscriptstyle T}$	Total $m_1 + m_2 + m_3 +$ in kg
	g	Gravitational acceleration in N/kg
	μ	Coefficient of friction

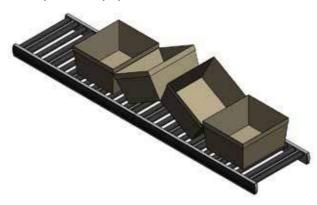
Drive type	μ
Friction conveyor rollers	0,06
Drive shaft	0,20
Round belt rollers	0,25
Fixed drive* with chain, tooth belt or PolyVee belt	~ 0,35

^{*} With use of a fixed drive, the value for μ may vary according to the product and the roller material.



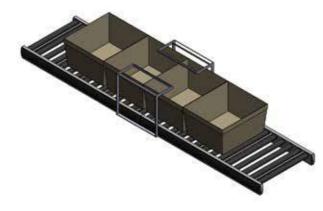
Concertina effect

Excessive accumulation pressure can cause a line of accumulating boxes to concertina. This may damage transport material and cause personal injury.

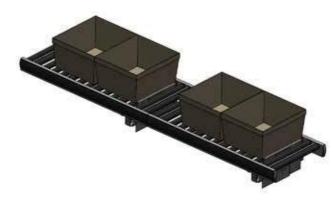


The concertina effect may be prevented by the following measures:

• Overhanging stops at the danger point



Supplementary stops





Ejection of transport material in curves

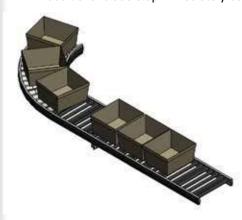
Easy recommends avoiding the accumulation of transport material in curves, except with zero pressure accumulation conveyor systems.

As accumulation pressure creates forces that project outwards, transport material on the curve section may be pushed over the side of the conveyor. This may damage transport material and cause personal injury.



The accumulation pressure in a curve may be prevented by taking the following measures:

An additional blade stop immediately before the curve









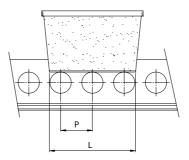


Trouble-free transport

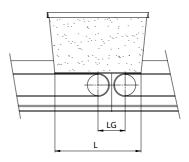
The roller pitch and the dimensions of the transition gap between two conveyors are highly important factors for trouble-free transport.

Transport disturbances can be prevented by taking the following measures:

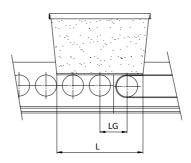
• The roller pitch P must be selected so that at least three rollers support the transport material



 The transition gap LG for all conveyors should be selected so that it consists of less than one third of the transport material length



With transition between belt and roller conveyors, the roller pitch P and transition gap LG should be selected so that the gap
is less than one third of the transport material length, and when material exits a conveyor at least two conveyor rollers are
below the transport material



- LG | Transition gap in mm
- L Length of transport material in mm
- P Roller pitch in mm



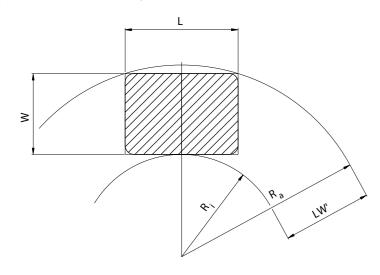
CALCULATIONS

easy ...conveyors

Clearance in curves

The clearance LW in curves must be greater than with straight sections. The clearance depends upon the dimensions of the transport material and corresponds to the outer radius minus the inner radius.

If the inner radius is known, the minimum outer radius can be calculated as follows:



$$R_a = \sqrt{(R_i + W)^2 + (L/2)^2}$$

The clearance LW is calculated as follows:

$$LW' = R_a - R_i$$
$$LW = LW' + 50$$

L	Maximum length of the transport material in mm
W	Maximum width of the transport material in mm
LW	Clearance (lane width) in mm
LW'	Clearance (lane width) in mm, calculated
R_a	Outer radius of the curve with rectangular transport material in mm
R.	Inner radius* of the curve in mm

^{*} The inner radius with roller conveyors is normally of 820 mm.

Easy curve modules are available with clearance values LW.

Throughput - Diverters

The throughput Tp of a conveyor system is specified in units of quantity per hour and is dependent on the transport material size and conveyor speed v.

The window size T is required for calculation of the throughput. The window size T is the distance from the leading edge of a transport unit to the leading edge of a subsequent transport unit regardless of the actual length of the unit. The following applies for straight conveying sections:

$$Tp = \frac{3.600 \times v}{T}$$

Тр	Throughput in units per hour
V	Conveyor speed in m/s
T	Window dimensions in mtr

With merging and diverting, throughput is additionally influenced by the actual length and weight of the transport material as well as the transfer cycle. Please contact your Easy customer consultant for calculating.

Note: be aware of slip of the product.

SIDE PROFILES OF THE ROLLER CONVEYOR MODULES

Definition of the conveyor sides

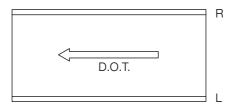
Each module has a side profile on both the left and right sides. In the case of driven modules, a differentiation is made between drive side and non-drive side with side profiles. Drive technology is situated on the drive side. The side with the control electronics of the conveyor is specified as the electric side (usually the non-drive side).



Drive side

Non-drive side (electric side)

The designations right (R) and left (L) correspond to the direction of travel D.O.T.:









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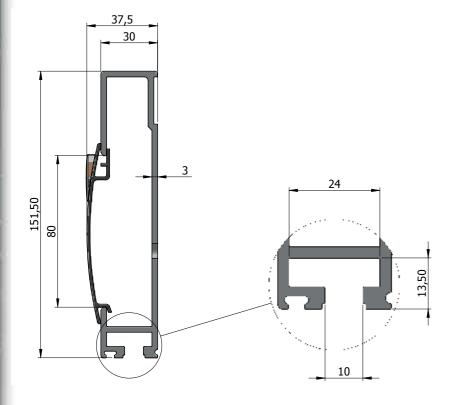
Properties of the Easy profiles

Easy differentiates between two main side profiles designated according to their total height.

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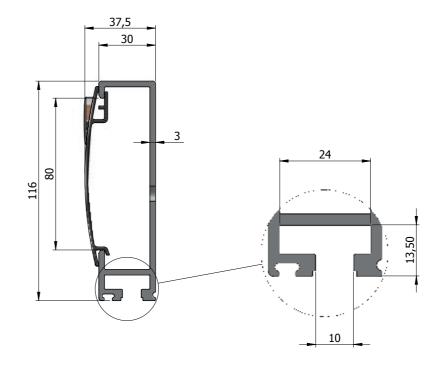
Profile H

- Standard profile for all roller conveyor modules
- Extruded, anodised aluminium profile for structural stability
- Forms an integrated, 31,5 mm high side guide (31,5 mm above top of roller)
- Grey PVC Cover
- The space behind the cover can be used as a cable channel or can be used on-site for accommodation of the control
 components
- With T-slot for peripheral devices, e.g. additional guides, sensors and support stands



Profile L

- Extruded, anodised aluminium profile for structural stability
- Enables sideways movement e. g. for 90° transfers, push over sections or lanes with overhanging transport material. The top of the profile is 4 mm below the top of roller
- Grey PVC Cover
- The space behind the cover can be used as a cable channel or can be used on-site for accommodation of the control components
- With T-slot for peripheral devices, e. g. sensors and support stands







INFORMATION ABOUT ROLLER CONVEYORS PRODUCT TYPES



Drive side, electric side, side profiles

With the straight Smart Conveyor, the drive side and the electric side with control can be selected and specified in the product configurator.

With straight conveyors the control is in Profile H. This means that with a HL side profile combination, the electric side must be the left side. For information about the side profiles see P84-85.

The control is situated on the outer profile with curves and opposite the transfer side with transfers.

Selection of the RollerDrive

The selection of the RollerDrive depends mainly upon the following factors:

- Conveyor speed and rated torque define the maximum load capacity
- The construction type influences the lifetime. The EC (electronically commutated) construction type has a significantly higher lifetime when compared to BT (mechanically commutated)

The following table shows the main properties for selection of the RollerDrive:

	Rollerdrive 24 v DC
Max. conveyor speed	1,75 m/s
Max. load capacity	80 kg
Max. rated torque	11.7 Nm*
Mechanical power	32 W
Noise level	50db(A)
Max. number of starts/	30
stops per minute	
Commutation type	Electronic, internal
Min. lifetime	20,000 h

^{*} depends on the gear speed influenced by the maximum speed.

Selection of the drive medium

Three drive mediums are available:

PU round belt Ø 5 mm

- For transport material to max. 50 kg/zone
- For max. 11 idlers per zone (i.e. 11 round belts per zone)
- Reduced acceleration and braking performance due to slippage

PolyVee belt

- For transport material to max. 80 kg/zone
- For max. 20 idlers per zone (i.e. 20 PolyVee belts per zone)
- Hardly any slippage, therefore very good acceleration and braking performance

Belt (conveyor belt on the rollers)

- For zero accumulation pressure transport of units that are unsuitable for roller conveyors
- Also for compact transport units
- Closed belt
- · Only available for straight sections

ROLLERDRIVE CONVEYOR

Zones

Each RollerDrive Conveyor conveyor line is divided into zones defined from the maximum length of the material to be conveyed.

Each zone has:

- A RollerDrive
- · Idlers driven via belts
- · A DriveControl control

In comparison with the Smart Conveyor, a RollerDrive Conveyor has no internal Easy and is therefore typically controlled by a higher level control (PLC). The control is carried out via the Easy DriveControl.

The number of zones possible in a straight module is defined by module length divided by zone length. The maximum module length is 3000 mm.

 $Z = \frac{ML}{ZL}$

Z	Number of zones
ML	Module length in mm
7[Zone length in mm

Selection of the RollerDrive and the drive medium

Selection criteria for the RollerDrive and the drive medium are the same for the RollerDrive Conveyor as the Smart Conveyor P66.



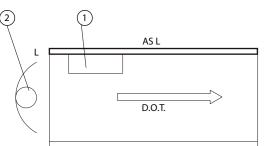


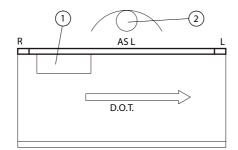


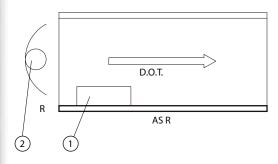
INFORMATION ABOUT ROLLER CONVEYOR PRODUCT TYPES

With terminal modules, the drive side (left or right in the direction of travel) must be defined. The following representations clarify the possible drive sides and positions of the end terminals.









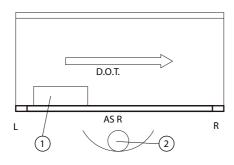


Fig.: Drive side right (R) and left (L) and end terminals

D.O.T.	Direction of travel
1	Motor
2	End terminal
AS R	Drive side right
AS L	Drive side left

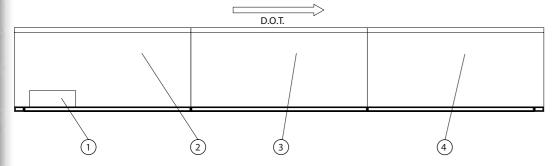


Fig.: Example of a conveyor line with three modules

D.O.T.	Direction of travel
1	Motor
2	Drive module, terminal left: DL; Drive side right: R
3	Intermediate slave module: SI; Drive side right: R
4	Slave module, terminal right: SR; Drive side right: R

PolyVee Roller Conveyor

The maximum number of rollers on each side of the motor is 50. The power capacity must not exceed 0.75 kW. With speeds greater than 1.5 m/s, a soft start is recommended for the motor.

The required power capacity is calculated as follows:

$$p = \frac{v \times m \times 0,1}{100}$$

р	Power capacity in kW
V	Conveyor speed in m/s
m	Total weight of the transport units per drive in kg
11	Coefficient of friction – 0.1

PolyVee Modules must be ordered according to their position in the conveyor line. There are two PolyVee module types:

- Drive module
- Slave module (module without own drive)





INFORMATION ABOUT DIMENSIONS OF FEEDERS, DIVERTERS AND TRANSFER

Dimensions of feeders, diverters and transfers

The angle and clearance of a feeder or diverter module define the dimensions of the module. The following tables show the standard dimensions for modules.

easy ... CONVEYORS

Gravity merge ERS50 Rollerdrive conveyor merge ERS 51 Smart conveyor merge ERS 52 400V Conveyor ERS53

Clearance LW	Clearance LWT	Module Length ML	Face Length F	Module length ML	Face length F
in mm	in mm	in mm	in mm	in mm	in mm
		with angle α = 45° and		with angle α = 30° and	
		roller pitch P = 75 mm		roller pitch P = 75 mm	
420	420	900	637,5	1200	937,5
520	420	900	637,5	1200	937,5
620	420	900	637,5	1200	937,5
820	420	900	637,5	1200	937,5
420	620	1200	787,5	1500	1312,5
520	620	1200	787,5	1500	1312,5
620	620	1200	787,5	1500	1312,5
820	620	1200	787,5	1500	1312,5
620	820	1500	1012,5	1950	1612,5
820	820	1500	1012,5	1950	1612,5

24V Diverter ERS 51/52

Clearance LW	Clearance LWT	Module Length ML	Face Length F	Module length ML	Face length F	
in mm	in mm	in mm	in mm	in mm	in mm	
		with angle $\alpha = 45^{\circ}$ and		with angle α = 30° and		
		roller pitch P = 75 mm		roller pitch P = 75 mm		
420	420	850	637,5	1150	937,5	
520	420	850	637,5	1150	937,5	
620	420	850	637,5	1150	937,5	
820	420	850	637,5	1150	937,5	
420	620	1100	787,5	1550	1312,5	
520	620	1100	787,5	1550	1312,5	
620	620	1100	787,5	1550	1312,5	
820	620	1100	787,5	1550	1312,5	
620	820	1425	1012,5	1950	1612,5	
820	820	1425	1012,5	1950	1612,5	

Belt driven high speed Pop-Up ERS 53

Clearance LW	Module length ML	Face length LM
in mm	in mm	in mm
		with angle $\alpha = 30^{\circ}$ and
		roller pitch P = 75 mm
420	1425	937,5
520	1425	937,5
620	1800	1312,5
820	2250	1612,5











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APPLICATION NOTES BELT CONVEYORS

Classification of EASY Belt Conveyors

Belt conveyors are classified according to the following features:

- Use as a horizontal conveyor or incline/decline conveyor
- Conveyor length
- Lane width
- Conveyor speed
- Max. load capacity / m
- Max. overall load capacity / drive

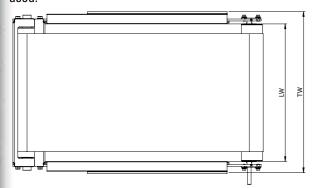
Transport material	Boxes, packages, plastic containers, plastic parts, trays etc.
Load capacity	up to 50 kg/m
Max. total load capacity	600 kg
Conveyor speed	0.1 to 2.6 m/s
Lane width	420, 520, 620, 820 mm, others on request
Conveyor length	600 to 30000 mm
Incline/decline	Max. 22,5°
Ambient temperature	-5 to +50 °C

Horizontal belt conveyors

Horizontal belt conveyors can be supplied completely assembled up to a length of 6000 mm. Longer conveyors are always made up of several module segments. These segments must be assembled and adjusted on-site.

The required power capacity depends upon the conveyor length, the belt speed and the belt load of the conveyor. Calculation of the required power capacity is carried out by Easy Conveyors in accordance with your specifications. As a point of reference, you can calculate the power capacity with the simplified formula on P124.

Head drive with drum motor is possible for belt conveyor ERS70-1 if the overall weight of the transport material is less than 220 kg and the conveying speed does not exceed 1.0 m/s. If higher loads and/or speeds are required, a center drive is used.



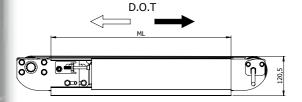
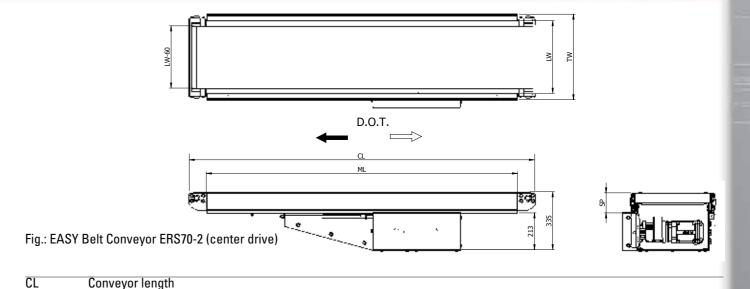




Fig.: EASY Belt Conveyor ERS70-1 (head drive)



Incline and decline conveyors

Conveyor direction

D.O.T.

Belt Conveyors ERS70-3/70-4/70-5 with incline/decline are used if height differences have to me managed. The conveyors can be equipped above with a horizontal component with a fixed angled frame as well as below with an incline power feeder or decline power feeder.

The maximum angle of incline or decline depends on the material to be conveyed. For containers and cardboard boxes, the angle should be max. 22,5° to ensure a trouble-free transport.

The drive type is a center drive with shaft-mounted gear motor. The motor typically has a brake with a brake voltage of 400 V.

The required power capacity depends upon the conveyor length, the construction form of the belt conveyor, the belt speed and the belt load of the conveyor. The calculation of the required power capacity (in kW) is performed by Easy Conveyors according to your specifications.







APPLICATION NOTES BELT CONVEYORS

easy ...conveyors

Note about supports:
For incline and decline conveyors, use the ERS60 adjustable supports. With an infeed height or discharge height T.O.B. 2 > 2000 mm, cross bracing is needed for stability.

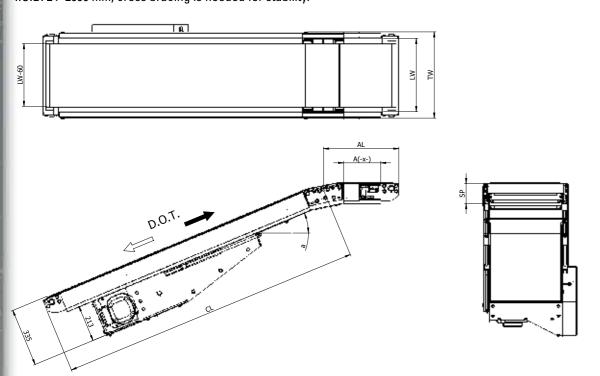


Fig.: EASY Belt Conveyor ERS70-3 (center drive + outfeed)

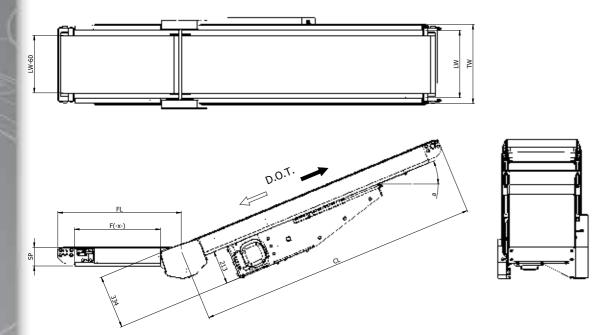


Fig.: Easy Belt Conveyor ERS70-4 (center drive + infeed)

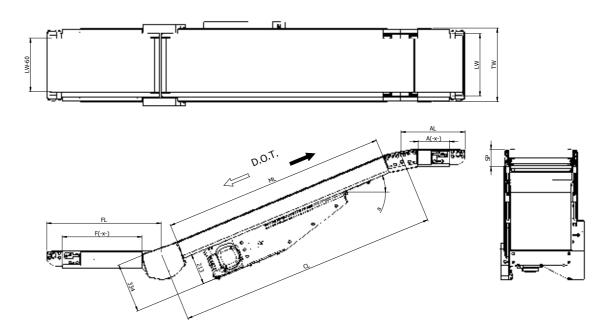


Fig.: Easy Belt Conveyor ERS70-3 (center drive + infeed + outfeed)

CL	Conveyor length
FL	Bottom length
AL	Top length
D.O.T.	Conveyor direction
T.O.B.	Onload/discharge height
α	Angle, max. 22.5°







APPLICATION NOTES BELT CONVEYORS

Calculations



Throughput

The throughput TP of a belt conveyor is given in units/hour and depends on the transport material dimensions and conveying speed.

The window size T is required for calculating the throughput. The window size T is the distance from the front edge of a transport material to the front edge of the following transport material, irrespective of the actual length of the transport material or zone length.

For the precise calculation of the power capacity T_p, please contact your Interroll customer representative. T_p for straight paths can roughly be calculated as follows:

T_P Throughput in units/hour

Conveying speed in m/s

Window size in m.

With merging and diverting, throughput is additionally influenced by the actual length and weight of the transport material as well as the transfer cycle. Please contact your Interroll customer consultant for calculations.

Power capacity

The power capacity P of an Interroll belt conveyor (applies only to horizontal conveyors) is specified in kW. The power capacity depends on the overall weight m of the transport material in kg and the conveying speed v in m/s.

For the precise calculation of the power capacity P, please contact your Interroll customer representative. P can be calculated with the simplified formula:

$P = v \cdot m \cdot 0,005$

- Power capacity in kW
- Conveying speed in m/s
- m Overall weight of transport material in kg

For example, the power capacity P at a conveying speed of 0.5 m/s and an overall weight of 200 kg is calculated as follows:

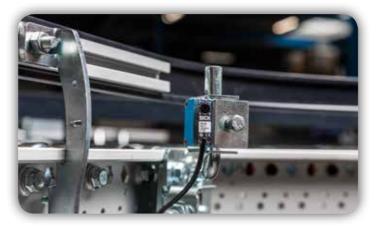
$P = 0.5 \text{ m/s} \cdot 200 \text{ kg} \cdot 0.005 = 0.50 \text{ kW ms}$

Since the actual power capacity should always be higher than the calculated value, the selection of a power capacity of at least 0.55 kW is recommended for the example.

Easy Conveyors reserves the right to select a drive that meets the factory standard.















ERS 62 LIFT-UP GATE



DIMENSIONS

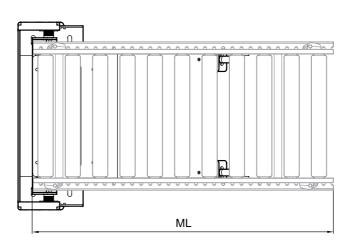


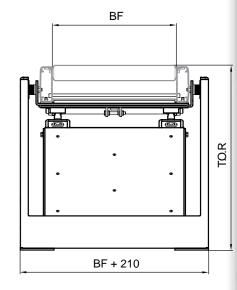
PRODUCT DESCRIPTION

The lift-up gate swivels upward to provide a walkway, or access from one side of the conveyor to the other. This allows access to the rear of the conveyor, and the ability to plan quicker escape routes, in case of an emergency. The swivel movement is operated by an innovative rotary mechanism.

TECHNICAL DATA

General technical data	Max. load capacity	100 kg (incl. fitted module)	
	Ambient temperature	-5 to +40 °C	
	Incline/decline	Not suitable.	





BF	Between frames	420, 520, 620, 820 mm, others on request	
T.O.R.	Min. height of top edge of roller	700 mm	
ML	Module length	1000 to 1800 mm	
	Channel width	ML - 220 mm	

- Scope of supply
 The module is fully assembled
 Please order fitted conveyor module separately

Order information

Visit us at www.easy-conveyors.com





SENSORS



0.02 ... 6.0m



10 - 30 V JUUUUU DC 500 Hz

- Polarized retro-reflective photoelectric sensor using visible red light
- Active suppression of extraneous light
- Fast alignment through brightVision®
- Simple mounting with integrated M3 metal threaded sleeves
- Compact installation possible due to cable outlet at the rear or bottom
- Full control through green and yellow indicator LEDs
- Robust plastic housing acc. to IP 67 for industrial application
- Complementary outputs for light/dark switching







ISO

9001





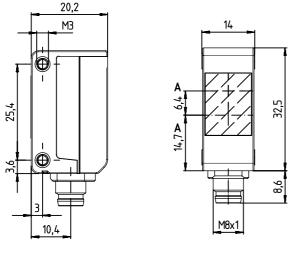
Accessories:

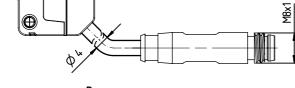
(available separately)

- Mounting systems (BTU 200 ..., BT 200...)
- M 8 connectors (KD ...)
- Ready-made cables (K-D ...)
- Reflectors
- Reflective tape

Dimensioned drawing



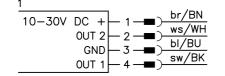






- Optical axis
- **B** Indicator diodes

Electrical connection



Specifications

Optical data

Typ. op. range limit (TK(S) 100x100) ¹⁾ Operating range ²⁾ 0.02 ... 6.0 m see tables LED (modulated light) Light source 620nm (visible red light, polarized)

Timing

500Hz Switching frequency 1ms ≤ 300ms Response time Delay before start-up **Electrical data**

10 ... 30VDC ≤ 15% of U_B Operating voltage U_B Residual ripple Open-circuit current < 20mA

.../4P... 2 PNP transistor outputs Switching output pin 2: PNP dark switching, pin 4: PNP light switching 2 NPN transistor outputs

pin 2: NPN dark switching, pin 4: NPN light switching ≥ (U_B-2.5V)/≤ 2.5V max. 100mA ³⁾

Signal voltage high/low Output current

Indicators LED green

ready LED yellow Yellow LED, flashing light path free light path free, no performance reserve

Mechanical data

Connection type

Housing Optics cover plastic Weight

plastic 20g with M8 connector 40g with 200mm cable and M12 connector

70g with 2m cable M8 connector, 4-pin

cable 200mm with M12 connector, 4-pin

cable 2m, 4x0.20mm²

Environmental data

Ambient temp. (operation/storage) -40°C ... +60°C/-40°C ... +70°C 2, 3 III Protective circuit VDE safety class IP 67 Protection class

free group (in acc. with EN 62471) Standards applied IEC 60947-5-2

1) Typ. operating range limit: max. attainable range without performance reserve

Operating range: recommended range with performance reserve
 Sum of the output currents for both outputs, 50 mA when ambient temperatures > 40 °C

4) 2=polarity reversal protection, 3=short-circuit protection for all outputs

Tables

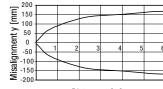
Re	flectors		Operating range
1	TK(S)	100x100	0.02 4.5m
2	TKS	40x60	0.02 3.0m
3	TKS	82.2	0.05 3.6m
4	TKS	30x50	0.03 1.9m
5	TKS		0.04 1.6m
6	Tape 4	50x50	0.08 1.4m

1	0.02					4.5	6.0
2	0.02			3.0		4.0	
3	0.05		3.6		4.5		
4	0.03		1.9		2.5		
5	0.04	1.6		2.2			
6	0.08	1.4		2.0			

Operating range [m] Typ. operating range limit [m]

Diagrams

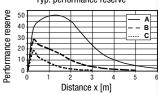
Typ. response behavior (TK 100x100)



Distance x [m]



Typ. performance reserve



- TKS 100x100
- TKS 40x60
- TKS 20x40

Remarks

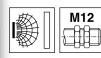
Approved purpose:

This product may only be used by qualified personnel and must only be used for the approved purpose. This sensor is not a safety sensor and is not to be used for the protection of persons.











non-embedded

 Slim and short cylindrical metal housing M12

4 mm

8 mm

10 mm

Chromium-plated brass housing

ISO

9001

 M12 connectors (KD ...) • Ready-made cables (K-D ...) Mounting clamp (MC 012...)

Accessories: (available separately)

- Built-in short circuit protection, inductive protection and polarity reversal protection
- LED for switching state visible from 360°

Dimensioned drawing

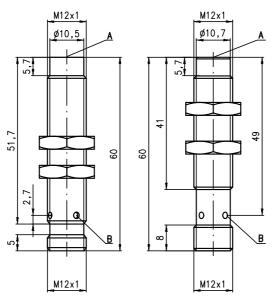


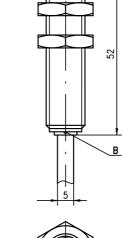
M12x1

ø10_

IS 212...-4N0-S12 IS 212...-8N0-S12

IS 212...-10N-S12





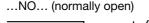




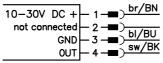


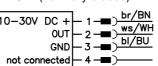
Tightening torque of the fastening nuts < 10Nm !

M12 connector



...NC... (normally closed)







...NO...-S12 (normally open): ...NC...-S12 (normally closed):

3-pin or 4-pin M12 connection cables can be used. only 4-pin M12 connection cables can be used.

Specifications

General specifications

Type of installation Typ. operating range limit S_n Operating range S_a

Electrical data

Operating voltage U_B 1) Residual ripple σ Output current I_I Open-circuit current I₀ Residual current I. Switching output/function .../4NO...

.../4NC.. .../2NO... .../2NC...

Voltage drop U_d Hysteresis H of S Temperature drift of S_r Repeatability

Timing

Switching frequency f Delay before start-up

Indicators

Yellow LED (visible from 360°)

Mechanical data

Housing

Standard surface plate Active surface Weight (M12 plug/cable)

Connection type

Environmental data

Ambient temperature Protection class Protective circuit 4) Standards applied Electromagnetic compatibility -25°C ... +70°C IP 67 1, 2, 3

IS 212...-4N0...

4.0 mm

0 ... 3.2mm

10 ... 30VDC

 \leq 20 % of U_B \leq 200 mA

≤ 10mA ≤ 100μA

 $\leq 10\%$

 $\leq 10\%^{2}$

 $\leq 5\%^{3}$

2kHz

PBTP

approx. 30g/

approx. 95g

≤ 10ms

switching state

chromium-plated

non-embedded installation

PNP transistor, make-contact (NO) PNP transistor, break-contact (NC)

NPN transistor, make-contact (NO)

NPN transistor, break-contact (NC)

IS 212...-8N0...

8.0mm

 $\leq 5\%^{3}$

1.5kHz

≤ 10ms

12 x 12mm², Fe360 24 x 24mm², Fe360 30 x 30mm², Fe360

0 ... 6.4mm

IS 212...-10N...

10.0mm

 $\leq 3\%$ 3)

400 Hz

≤ 50 ms

0 ... 8.1 mm

IÉC/EN 60947-5-2 IEC 60255-5

IEC 61000-4-2

M12 connector 4-pin or cable: 2m, PVC, 3 x 0.34mm², Ø 5.0mm

Level 3 air 8kV (ESD) Level 3 air 8kV (ESD) Level 3 10V/m (RFI) Level 3 10V/m (RFI) Level 3 2kV (Burst) Level 3 2kV (Burst) IFC 61000-4-3 IEC 61000-4-4

Observe the safety regulations and installation instructions regarding power supply and wiring; for UL applications: only for use in "Class 2" circuits acc. to NEC

2) Over the entire operating temperature range

3) For $U_B = 20 \dots 30 \text{VDC}$, ambient temperature $T_a = 23 \text{°C} \pm 5 \text{°C}$ 4) 1=polarity reversal protection, 2=short circuit protection, 3=inductive protection for all outputs

Tables

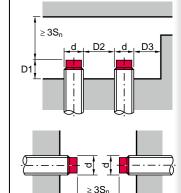
Reduction factors:

for $S_n = 4.0 \text{mm}$		for S _n = 8.0mm		
Steel Fe360	1	Steel Fe360	1	
Copper	0.50	Copper	0.45	
Aluminum	0.50	Aluminum	0.7	
Brass	0.60	Brass	0.55	
Stainless steel	0.90	Stainless steel	0.75	

Statilless steet	0.90			
for $S_n = 10.0$ mm				
Steel Fe360	1			
Copper	0.41			
Aluminum	0.46			
Brass	0.52			
Stainless steel	0.74			

Mounting

Non-embedded installation:



	<u>Ferromagnetic and</u> <u>non-ferromagnetic materials</u>				
	S _n [mm] D1 [mm] D2 [mm] D3 [mm				
ĺ	4.0	6.0	16.0	6.0	
i	8.0	9.0	33.0	14.0	
	10.0	13.0	30.0	10.0	





eas)

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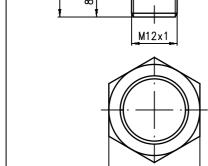


8 mm 20 mm



non-embedded

- Slim and short cylindrical metal housing M8
- Chromium-plated brass housing
- Built-in short circuit protection, inductive protection and polarity reversal protection
- LED for switching state visible from 360°

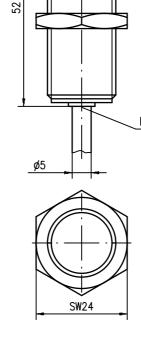


Dimensioned drawing

50,5

M18x1

Ø16,4



M18x1

ø16

easy ... conveyors



Tightening torque of the fastening nuts

M12 connector

...NC... (normally closed)

OUT GND - 3 - ■)

not connected

10-30V DC + 1 - 1 - br/BN

3-pin or 4-pin M12 connection cables can be used.

only 4-pin M12 connection cables can be used.

< 25Nm!

SW24

IS 218...8N0... < 20Nm! IS 218...20N...

Electrical connection

...NO... (normally open)

not connected

10-30V DC + 1-1- 1- br/BN

...NO...-\$12 (normally open):

...NC...-S12 (normally closed):

ected 2 = bi/BU
GND 3 = bi/BU

0UT - 4 - sw/BK

- Active surface
- Yellow indicator diode

ISO 9001

Accessories:

(available separately)

- M12 connectors (KD ...)
- Ready-made cables (K-D ...)
- Mounting clamp (MC 018...)

Specifications

General specifications

Type of installation Typ. operating range limit S_n Operating range S_a

Electrical data

Operating voltage U_B 1) Residual ripple σ Output current I_I Open-circuit current I₀ Residual current L Switching output/function

Voltage drop U_d Hysteresis H of S, Temperature drift of S_r Repeatability

Timing

Switching frequency f Delay before start-up

Indicators

Yellow LED (visible from 360°)

Mechanical data

Housing Standard surface plate Active surface Weight (M12 plug/cable) Connection type

Environmental data

Ambient temperature Protection class Protective circuit 4) Standards applied Electromagnetic compatibility

IS 218...-8N0... IS 218...-20N... non-embedded installation 20.0mm 8.0mm 0 ... 6.5mm 0 ... 16.2mm

10 ... 30VDC \leq 20 % of U_B \leq 200 mA \leq 10 mA

≤ 100 µA ≤ 100 µA PNP transistor, make-contact (NO) PNP transistor, break-contact (NC) NPN transistor, make-contact (NO) .../2NC... NPN transistor, break-contact (NC)

 $\leq 10\%$ $\leq 10\%^{2}$ $\leq 5\%^{3}$

> 2kHz 200Hz ≤ 40 ms ≤ 100 ms

switching state

chromium-plated brass 24 x 24mm², Fe360 60 x 60 mm², Fe360

approx. 50g/approx. 120g M12 connector 4-pin or cable: 2m, PVC, 3 x 0.34mm², Ø 5.0mm

-25°C ... +70°C IP 67 1, 2, 3 IEC/EN 60947-5-2 IEC 60255-5

Level 3 air 8kV (ESD) IEC 61000-4-2 IEC 61000-4-3 Level 3 10V/m (RFI) IEC 61000-4-4 Level 3 2kV (Burst)

Observe the safety regulations and installation instructions regarding power supply and wiring; for UL applications: only for use in "Class 2" circuits acc. to NEC

2) Over the entire operating temperature range

3) For $U_B = 20 \dots 30 \text{VDC}$, ambient temperature $T_a = 23 \text{°C} \pm 5 \text{°C}$

4) 1=polarity reversal protection, 2=short circuit protection, 3=inductive protection for all outputs

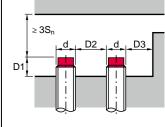
Tables

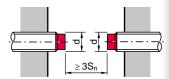
Reduction factors:

for $S_n = 8.0 \text{ mm}$		for S _n = 20.0 mm		
Steel Fe360	1	Steel Fe360	1	
Copper	0.40	Copper	0.35	
Aluminum	0.50	Aluminum	0.40	
Brass	0.50	Brass	0.45	
Stainless steel	0.80	Stainless steel	0.66	

Mounting

Non-embedded installation:

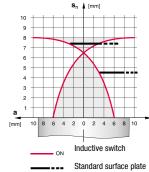


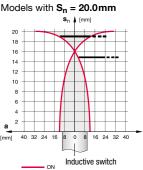


<u>Ferromagnetic and</u> <u>non-ferromagnetic materials</u>			
S _n [mm]	D1 [mm]	D2 [mm]	D3 [mm]
8.0	10.0	32.0	11.0
20.0	20.0	50.0	21.0

Diagrams

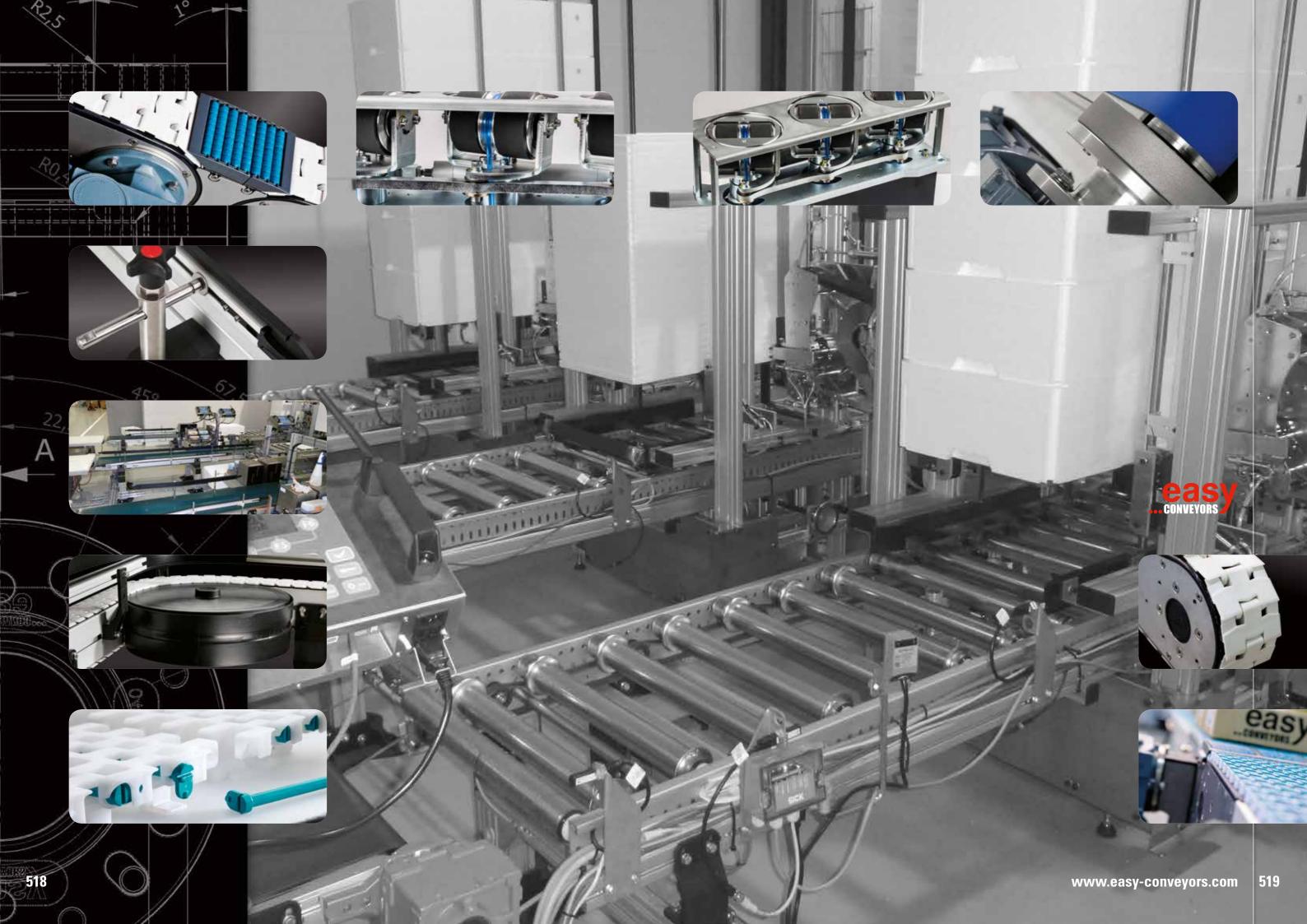
Models with $S_n = 8.0 \text{ mm}$





Standard surface plate easy...conveyors

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METAALUNIE CONDITIONS

General Terms and Conditions issued by Koninklijke Metaalunie (the Dutch organization for small and medium-sized enterprises in the metal industry), referred to as the METAALUNIE TERMS AND CONDITIONS, filed at the Registry of the Rotterdam District Court on 1 January 2014. Issued by Koninklijke Metaalunie, P.O. Box 2600, 3430 GA Nieuwegein. the Netherlands. © Koninklijke Metaalunie

Article 1: Applicability

- 1.1. These Terms and Conditions apply to all offers made by members of Koninklijke Metaalunie, all agreements they conclude and all agreements that may result therefrom, all this in so far as the Metaalunie member is offeror or supplier.
- 1.2. A Metaalunie member using these Terms and Conditions is referred to as the Contractor. The other party is referred to as the Client.
- 1.3. In the event of any conflict between the substance of the agreement concluded between the Contractor and the Client and these Terms and Conditions, the
- 1.4. These Terms and Conditions may only be used by Me-

Article 2: Offers

- 2.1. All offers are without obligation.
- 2.2. If the Client provides the Contractor with data, drawings and the like, the Contractor may rely on their accuracy and completeness and will base its offer on
- 2.3. The prices stated in the offer are based on delivery ex works, Contractor's place of establishment, in accor-dance with the Incoterms 2010. Prices are exclusive of VAT and packaging.
- 2.4. If the Client does not accept the Contractor's offer, the Contractor is entitled to charge the Client for all costs incurred by the Contractor in making the offer to the

Article 3: Intellectual property rights

- 3.1. Unless otherwise agreed in writing, the Contractor retains the copyright and all industrial property rights in the offers made by it and in the designs, pictures, drawings, models (including trial models), software drawings, models (including and the like provided by it.
- 3.2. The rights in the data referred to in paragraph 1 of this article will remain the property of the Contractor irrespective of whether the costs of their production have been charged to the Client. These data may not be copied, used or shown to third parties without the Contractor's prior express written consent. The Client will owe the Contractor an immediately payable penalty of € 25,000 for each breach of this provision. This penalty may be claimed in addition to damages pursu-
- 3.3. On the Contractor's first demand, the Client must return the data provided to it as referred to in paragraph 1 of this Article within the time limit set by the Con-tractor. Upon breach of this provision, the Client will owe the Contractor an immediately navable nenalty of € 1,000 per day. This penalty may be claimed in ad lition to damages pursuant to the law

Article 4: Advice and information provided

- 4.1. The Client cannot derive any rights from advice or nformation it obtains from the Contractor if this does
- 4.2 If the Client provides the Contractor with data drawings and the like, the Contractor may rely on the accuracy and completeness in the performance of
- 4.3. The Client indemnifies the Contractor from and against all liability to third parties relating to use of the advice, drawings, calculations, designs, materials, samples, models and the like provided by or on hehalf of the Client

Article 5: Delivery period / performance period

- 5.1. The delivery period and/or performance period will be set by the Contractor on an approximate basis.
- 5.2. In setting the delivery period and/or performance period, the Contractor will assume that it will be able to perform the assignment under the conditions known
- 5.3. The delivery period and/or performance period will only commence once agreement has been reached on all commercial and technical details, all necessary data, final and approved drawings and the like are in the Contractor's possession, the agreed payment or nstalment has been received and the necessary con ditions for performance of the assignment have been
- 5.4. a. In the event of circumstances that differ from those that were known to the Contractor when it set the delivery period and/or performance period, it may extend the delivery period and/or perfor-

- mance period by such period as it needs to perform the assignment under such circumstances. If the work cannot be incorporated into the Contrac-tor's schedule, it will be performed as soon as the Contractor's schedule so permits
- b. In the event of any contract addition, the delivery period and/or performance period will be extended by such period as the Contractor needs to (cause to) supply the materials and parts for such work and to perform the contract addition. If the contract addition cannot be incorporated into the Contractor's schedule, the work will be performed as soon as the Contractor's schedule so permits.
- c. If the Contractor suspends its obligations, the delivery period and/or performance period will be extended by the duration of the suspension. If the continuation of the work cannot be incorporated into the Contractor's schedule, the work will be performed as soon as the Contractor's schedule so permits.
- d. In the event of inclement weather, the delivery period and/or performance period will be extended by the resulting delay.
- The Client is required to pay all costs incurred by the Contractor as a result of delay affecting the delivery period and/or performance period as referred to in
- If the delivery period and/or performance period is/ are exceeded, this will in no event entitle to damages

Article 6: Transfer of risk

- Delivery will be made ex works, Contractor's place of establishment, in accordance with the Incoterns 2010. The risk attached to the good passes to the Client at the time the Contractor makes the good available to the Client.
- Notwithstanding the provisions in paragraph 1 of this article, the Client and Contractor may agree that the Contractor will arrange for transport. In that event, the risk of storage, loading, transport and unloading will be borne by the Client. The Client may insure itself
- In the event of a purchase in which a good is exchanged (inruil) and the Client retains the good to be ex-changed pending delivery of the new good, the risk attached to the good to be exchanged remains with the Client until it has placed this good in the possession of the Contractor. If the Client cannot deliver the good to be exchanged in the condition that it was in when the agreement was concluded, the Contractor may terminate the agreement.

Article 7: Price change

- The Contractor may pass on to the Client any increase in costing factors occurring after conclusion of
- 7.2. The Client will be obliged to pay the price increase as referred to in paragraph 1 of this article on any of the occasions below, such at the discretion of the Contractor
 - upon the occurrence of the price increase
 - at the same time as payment of the principal sum; c. on the next agreed payment deadline.

- 8.1. The Contractor is entitled to suspend performance of its obligations if it is temporarily prevented from per-forming its contractual obligations to the Client due to
- Force majeure is understood to mean, inter alia, the circumstance of failure by suppliers, the Contractor's subcontractors or transport companies engaged by the Contractor to perform their obligations or perform them in good time weather conditions earthquakes ver failure, loss, theft or destruction of tools of materials, road blocks, strikes or work stoppages and import or trade restrictions.
- If the Contractor's temporary inability to perform lasts for more than six months, it will no longer be entitled to suspend performance. On expiry of this deadline, the Client and the Contractor may terminate the agreement with immediate effect, but only as regards such part of the obligations that has not yet been per-
- In the event of force majeure where performance is or becomes permanently impossible, both parties are entitled to terminate the agreement with immediate effect as regards such part of the obligations that has
- 8.5. The parties will not be entitled to compensation for damage suffered or to be suffered as a result of sus-pension or termination as referred to in this article.

Article 9: Scope of the work

- The Client must ensure that all licences, exemptions and other administrative decisions necessary to carry out the work are obtained in good time. The Client is required upon the Contractor's first demand to send the Contractor a copy of the documents mentioned
- 9.2. The price of the work does not include:
 - a. the costs of earthwork, pile driving, cutting, breaking, foundation work, cementing, carpentry, plas-tering, painting, wallpapering, repair work or other construction work:
- b. the costs of connecting gas, water, electricity or other infrastructural facilities;
 c. the costs of preventing or limiting damage to any
- goods present on or near the work site. the costs of removal of materials, building materi-
- e. travel and accommodation expenses.

Article 10: Changes to the work

- 10.1. Changes to the work will in any event result in contract variations work if: a. the design, specifications or contract documents
- are changed;
 b. the information provided by the Client is not factu-
- ally accurate:
- quantities diverge by more than 10% from the esti-
- 10.2. Contract additions will be charged on the basis of the pricing factors applicable at the time the contract addition is performed. Contract deductions will be charged on the basis of the pricing factors applicable at the time the agreement was concluded.
- 10.3. The Client will be obliged to pay the price of the contract addition as referred to in paragraph 1 of this article on any of the occasions below, such at the discretion of the
 - when the contract addition arises; at the same time as payment of the principal sum;
 - c. on the next agreed payment deadline.
- 10.4. If the sum of the contract deduction exceeds that of the contract addition, in the final settlement the Contractor may charge the Client 10% of the difference. This provision does not apply to contract deductions that result from a request by the Contractor.

Article 11: Performance of the work

- 11.1 The Client will ensure that the Contractor can carry out its activities without interruption and at the agreed time and that the requisite facilities are made available to it when carrying out its activities, such as: gas, water and electricity;

 - lockable and dry storage space:
 - d. facilities required pursuant to the Working Conditions Act and Working Conditions Regulations.
- 11.2 The Client hears the risk of and is liable for any damage connected with loss, theft, burning and damage to goods belonging to the Contractor, the Client and third parties, such as tools, materials intended for the work or material used in the work, that are located on the work site or at another agreed location.
- 11.3. The Client is obliged to adequately insure its against the risks referred to in paragraph 2 of this article. In addition, the Client must procure insurance of work-related damage as regards the material to be used. Upon the Contractor first demand, the Client must send it a copy of the relevant insurance policy policies and proof of payment of the premium. In the event of any damage, the Client is required to report this to its insurer without delay for further processing
- 11.4 If the Client fails to perform its obligations as described in the previous paragraphs and this results in delayed performance of the activities, the activities will be carried out as soon as the Client performs its obligations as yet and the Contractor's schedule so permits. The Client is liable for all damage suffered by the Contractor as a result of the delay.

Article 12: Completion of the work

- 12.1. The work is deemed to be completed in the following
 - a. when the Client has approved the work;
 - when the work is been taken into commission by the Client. If the Client takes part of the work into co mission, that part will be deemed to be completed:
 - c. if the Contractor notifies the Client in writing that the work has been completed and the Client does not inform it in writing as to whether or not the work is approved within 14 days of such notification having

- d. if the Client does not approve the work due to minor defects or missing parts that can be rectified or sub-sequently delivered within 30 days and that do not prevent the work from being taken into commission.
- 12.2. If the Client does not approve the work, it is required to inform the Contractor of this in writing, stating reasons. The Client must provide the Contractor with the opportunity to complete the work as yet.
- 12.3. The Client indemnifies the Contractor from and against any claims by third parties for damage to non-com pleted parts of the work caused by use of parts of the work that have already been completed.

Article 13: Liahility

- 13.1. In the event of an attributable failure, the Contractor is obliged to perform its contractual obligations as yet.
- 13.2. The Contractor's obligation to pay damages, irrespec tive of the legal basis, is limited to damage for which the Contractor is insured under an insurance policy ta-ken out by it or on its behalf, but will never exceed the amount paid out under this insurance in the relevant
- 13.3. If, for any reason whatsoever, the Contractor cannot If, for any reason whatsoever, the Contractor cannot invoke the limitation in paragraph 2 of this article, the obligation to pay damages will be limited to a maximum of 15% of the total assignment amount (excluding VAT). If the agreement comprises parts or partial deliveries, the obligation to pay damages is limited to a maximum of 15% (excluding VAT) of the assignment amount of that part or that partial delivery
- 13.4. The following does not qualify for compensation:
 - consequential loss, including business interruption loss, production loss, loss of profit, transport costs and travel and accommodation expenses. The Client may insure itself against this damage if pos-
 - b. damage to goods in or under its care, custody or control. Such damage includes damage caused as a result of or during the performance of the work to goods on which work is being performed or to goods situated in the vicinity of the work site. The Client may insure itself against such damage if it so
 - c. damage caused by the intent or wilful recklessness of agents or non-management employees of the Con-
- 13.5. The Contractor is not liable for damage to material provided by or on behalf of the Client where that damage is the result of improper processing.
- 13.6. The Client indemnifies the Contractor from and against all claims by third parties on account of product lia hility as a result of a defect in a product supplied by the Client to a third party and that consisted, entirely or partially, of products and/or materials supplied by the Contractor. The Client is obliged to compensate all damage suffered by the Contractor in this respect including the full costs of defence.

Article 14: Warranty and other claims

- 14.1. Unless otherwise agreed in writing, the Contractor warrants the proper execution of the agreed performance for a period of six months after delivery/completion. In the event that a different warranty period s agreed, the other paragraphs of this article are also
- 14.2. If the agreed performance was not properly executed, the Contractor will decide whether to properly execute it as yet or to credit the Client for a proportionate part of the invoice amount. If the Contractor chooses to properly execute the performance as yet, it will determine the manner and time of execution itself. If the agreed nerformance consisted (entirely or nartially) of the processing of material provided by the Client, the Client must provide new material at its own risk and expense.
- 14.3. Parts or materials that are repaired or replaced by the Contractor must be sent to the Contractor by the Client.
- 14.4. The Client bears the expense of:
- a. all costs of transport or dispatch; costs of disassembly and assembly
- travel and accommodation expenses
- 14.5. The Client must in all cases offer the Contractor the opportunity to remedy any defect or to perform the processing again.
- 14.6. The Client may only invoke the warranty once it has satisfied all its obligations to the Contractor
- 14.7. a. No warranty is given if the defects result from:
 - improper use;
 - lack of maintenance or improper maintenance: installation, fitting, modification or repair by the Client or third parties;

- defects in or unsuitability of goods originating from or prescribed by the Client
- defects in or unsuitability of materials or auxiliary materials used by the Client.
- b. No warranty is given in respect of:
 goods supplied that were not new at the time of del
- the inspection and repair of goods of the Client; parts for which a manufacturer's warranty has been provided.
- 14.8. The provisions of paragraphs 2 to 7 of this article apply mutatis mutandis to any claims by the Client based on breach of contract, non-conformity or on any other
- 14.9. The Client cannot assign any rights under this article.

Article 15: Obligation to complain

- 15.1. The Client can no longer invoke a defect in performance if it does not make a written complaint to the Contractor in respect thereof within fourteen days of the date it discovered, or should reasonably have dis-
- 15.2. On pain of forfeiture of all rights, the Client must submit complaints regarding the amount invoiced to the Contractor in writing within the payment deadline. If the payment deadline is longer than thirty days, the Client must complain no later than thirty days after the date of the invoice.

Article 16: Failure to take delivery of goods

- 16.1. Upon expiry of the delivery period and/or performance period, the Client is obliged to take delivery of the good or goods forming the subject of the agreement.
- 16.2. The Client must lend all cooperation that can be reasonably expected from it to enable the Contractor to make the delivery.
- 16.3. If the Client does not take delivery of goods, such goods will be stored at the risk and expense of the Client.
- 16.4. Upon breach of the provisions in paragraphs 1 and/ or 2 of this article, the Client will owe the Contractor a penalty of \le 250 per day, to a maximum of \le 25,000. This penalty may be claimed in addition to damages pursu-

- 17.1 Payment will be made at the Contractor's place of eslishment or to an account to be designated by the
- 17.2. Unless agreed otherwise, payment will be made as fol
 - in cash where sale is at the service desk-
 - in the case of payments in instalments:
 40% of the total price upon assignment - 50% of the total price after supply of the material or, if delivery of the material is not included in the assignment, after commencement of the work; 10% of the total price upon completion;
- c. in all other cases, within thirty days of the date of
- 17.3. If the Client fails to comply with its payment obligation, instead of paying the sum of money agreed it will be obliged to comply with a request by the Contractor for payment in kind (inbetalinggeving).
- 17.4. The right of the Client to set off or suspend amounts it is owed by the Contractor, save in the event of the Contractor's bankruptcy or if statutory debt reschedu-ling applies to the Contractor.
- 17.5. Irrespective of whether the Contractor has fully executed the agreed performance, everything that is or will he owed to it by the Client under the agreement is imnediately due and payable if: . a deadline for payment has been exceeded;
 - b. an application has been made for the Client's bank-
 - ruptcy or suspension of payments; attachment is levied on the Client's goods or claims; d. the Client (a company) is dissolved or wound up. the Client (a natural person) requests to be admitted to statutory debt rescheduling, is placed under
- 17.6 If payment is not made within the agreed payment deadline, the Client will immediately owe interest to the Contractor. The interest rate is 12% per annum, but equal to the statutory interest rate if the latter rate is higher. When calculating interest, part of a month is

quardianship or dies.

regarded as a whole month.

17.7 The Contractor is authorised to set off its debts to the Client with amounts owed by the Client to companies affiliated with the Contractor. In addition, the Contrac-tor is authorised to set off amounts owed to it by the

- Client with debts to the Client of companies affiliated with the Contractor. Further, the Contractor is authorised to set off its debts to the Client with amounts owed to the Contractor by companies affiliated with the Client. Affiliated companies are understood to mean the companies belonging to the same group, wit-hin the meaning of Article 2:24b Dutch Civil Code, and participating interests within the meaning of Article 2:24c Dutch Civil Code
- 17.8 If payment is not made within the agreed payment deadline, the Client will owe the Contractor all extra-judicial costs, with a minimum of € 75. These costs will be calculated on the basis of the following table (princinal sum nlus interest)
 - on the first € 3,000 15% on any additional amount up to € 6,000 10% on any additional amount up to € 15,000 8%
- on any additional amount up to € 60,000 5% on any additional amount from € 60,000 3% The extraiudicial costs actually incurred will be owed if these are higher than they would be according to the
- 17.9 If judgment is rendered in favour of the Contractor in legal proceedings, all costs that it has incurred in relation to these proceedings will be borne by the Client.

- 18.1. Irrespective of the agreed payment conditions, upon the first demand of the Contractor the Client is obliged to provide such security for payment as the Contractor deems sufficient. If the Client does not comply with such demand within the period set, it will immediately be in default. In that event, the Contractor is entitled to terminate the agreement and to recover its damage
- 18.2. The Contractor will retain ownership of any goods deli-
- vered as long as the Client:

 a. fails or will fail in the performance of its obligations
- under this agreement or other agreements;
 b. has not paid debts that have arisen due to non-performance of the aforementioned agreements, such as damage, penalties, interest and costs.
- 18.3. As long the goods delivered are subject to retention of title, the Client may not encumber or alienate the same other than in the ordinary course of its business
- 18.4. Once the Contractor has invoked its retention of title, it may take possession of the goods delivered. The Client will lend its full cooperation to this end.
- 18.5 The Contractor has a right of pledge and a right of retention in respect of all goods that are or will be held by it for any reason whatsoever and for all claims it has or might acquire against the Client in respect of anyone seeking their surrender
- 18.6 If after the goods have been delivered to the Client by the Contractor in accordance with the agreement, the Client has met its obligations, the retention of title will be revived with regard to such goods if the Client does not meet its obligations under any agreement subsequently concluded

Article 19: Termination of the Agreement

If the Client wishes to terminate the agreement without the Contractor being in default, and the Contractor agrees to this, the agreement will be terminated by mutual consent. In that case, the Contractor is entitled to compensation for all financial loss, such as loss suffered, loss of profit and costs

Article 20: Applicable law and competent court

- 20.1. Dutch law applies.
- 20.2. The Vienna Sales Convention (C.I.S.G.) does not apply, nor do any other international regulations the exclusion of which is permitted
- 20.3. Disputes will be heard exclusively by the Dutch civil court with jurisdiction over the Contractor's place of establishment, unless this is contrary to mandatory law. The Contractor may deviate from this rule of jurisdiction and apply the statutory rules of jurisdiction

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