

### CONVEYORS

# 12

Slide Strips Roller Conveyors **Roller Elements** Conveyor Rollers Chain Transfer

# item CONVEYORS

## Application example – conveyors Transport solutions and goods provision





#### Slide Strips 1

- Low-wear plastic strips protect transported goods
- · Antistatic properties prevent charges from building up
- · Can also be installed at two different heights in the Castor Rail



### 2 Castor Balls

- · Lightweight goods transport in any direction
- Ideal for junctions and insertion/removal points
- Can be integrated into Castor Rails and panel elements

#### 370



#### 3 Castor Rails

- Universal carrier profile for various transport inserts
- Castors, Slide Strips, Brushes and Castor Balls Easy to combine

### ₿366

- **Castor Inserts**
- 4 • Easy running castors, even for long stretches
- · Available with or without flanged wheel
- · Available in different colours for volume control



Section 12



₿90

## Additional hold for high-strength constructions • item fasteners create frames that are durable, secure and versatile

#### Section 2



373

Section 1

# item CONVEYORS

### Conveyors Products in this section





#### Chain Guidance in the **Profile Groove**

 Inherently safe design · Compact power transmission solution with no protruding parts

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12



### Chain Transfer

- For transporting workpiece carriers directly on the Chain
- Also suitable for breaking up bottlenecks

₿384



## Slide Strips

- Wear-resistant plastic strips with low sliding friction
- For simple goods transportation
- Protect profile surfaces from abrasion
- Antistatic properties prevent charges from building up





Slide Strip 8 can be com-bined with Slide Strip Wedge 8 (this functions as an end and lead-in piece).





They can also be used as rebate strips and guide rails or can be employed as a support base, e.g. in shelves to protect sensitive products.



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15.5	

Slide Strip 5 antistatic	ESD 5
PE-UHMW	
m = 57 g/m	
black, 1 pce., length 2000 mm	0.0.437.27
Slide Strip 6 antistatic	ESD 6
PE-UHMW m = 90 g/m	
black, 1 pce., length 2000 mm	0.0.441.08
Slide Strip 8 antistatic	ESD 8
PE-UHMW m = 150 g/m	
black, 1 pce., length 2000 mm	0.0.457.99
Slide Strip 10 antistatic	ESD 10
PE-UHMW m = 226 g/m	
black, 1 pce., length 2000 mm	0.0.625.28



Slide Strip Wedge 8	
PA	

Countersunk Screw DIN 7991-M5x14, St, black	
m = 11.0 g	
black, 1 set	

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### Castor Rail 8 40x40

The flexible system for manual workpiece transport

- Universal carrier profile for various transport inserts
- Line 5 and 8 grooves ensure versatility



The Castor Rail 8 40x40 is a true all-rounder for interlinking work benches. The universal profile can be fitted with any combination of Castor, Castor Ball, Brush and Slide Strip Inserts, with ESD-safety available as required.

The Castor Rail itself is inherently stable and, thanks to the use of Line 5 and 8 grooves, is easy to fasten, adjust and fit with a railing – ideal for keeping your workpieces on track. The maximum load capacity for each insert is 100 N.

The added benefits for Kanban shelves: coloured castors mark fill levels, castor brakes make sure your workpieces reach the removal station at the right speed and Caps can be used to fit impact buffers or cushions to the Castor Rail. Castor Ball Sets and Brush Sets in the Castor Rails also allow movement across the direction of the Castor Rails and ensure low friction and gentle transport.



The wide range of inserts available for Castor Rail 8 40x40 make it a true all-rounder:

a: Castor Ball Inserts ESD

b: Castor Inserts D30/Castor Inserts D30 with Flanged Wheel, ESD-safety optional



Simply snap the inserts into the Castor Rail. Caps secure the ends.

c: Castor Rail 8 40x40, Brake

d: Brush Inserts ESD

e: Slide Strip Wedge Insert ESD

f: Castor Rail 8 40x40, Slide Strip ESD – raised installation

g: Castor Rail 8 40x40, Slide Strip ESD – low installation



Castor Rails 8 40x40 can be interlinked using fastening elements in either the Line 5 or Line 8 grooves.



### Castor Rail 8 40x40

Al, anodi	zed					
A [cm <sup>2</sup> ]	m [kg/m]	I <sub>x</sub> [cm <sup>4</sup> ]	ly [cm4]	W <sub>x</sub> [cm <sup>3</sup> ]	W <sub>y</sub> [cm <sup>3</sup> ]	
4.65	1.28	5.65	9.87	3.86	4.93	
natural, c	ut-off max. 6	6000 mm				0.0.626.91
natural, 1	pce., length	n 6000 mm				0.0.618.28

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## Roller Conveyor 8 D30

### The complete roller conveyor with Castor Raill 8

- Length up to 6,000 mm
- In modular dimension of 50 mm





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Roller Conveyor 8 D30	8
Castor Rail 8 40x40, AI, natural Castor Inserts, black m = 1.70 kg/m	
cut-off max. 6000 mm	0.0.628.40
Roller Conveyor 8 D30 ESD	ESD 8
Castor Rail 8 40x40, AI, natural Castor Inserts, black m = 1.70 kg/m	
cut-off max. 6000 mm	0.0.628.42
Roller Conveyor 8 D30 with Flanged Wheel	ڈے
Castor Rail 8 40x40, AI, natural Castor Inserts with Flanged Wheel, black	
m = 1.70 kg/m	
m = 1.70 kg/m cut-off max. 6000 mm	0.0.628.41
m = 1.70 kg/m cut-off max. 6000 mm Roller Conveyor 8 D30 ESD with Flanged Wheel	0.0.628.41
m = 1.70 kg/m   cut-off max. 6000 mm   Roller Conveyor 8 D30 ESD with Flanged Wheel   Castor Rail 8 40x40, AI, natural   Castor Inserts with Flanged Wheel, black   m = 1.70 kg/m	0.0.628.41





## Castor Insert D30

- Easy-running castors for universal use
- Various colours mark fill levels
- Available in ESD-safe version
- Compatible with Castor Rail 8



The following applies to all the products below: Castor D30, PA Housing, PA-GF, black Axle, St, stainless



Castor Insert D30	
m = 18.1 g	
black, similar to RAL 9005, 1 set	0.0.620.16
green, similar to RAL 6032, 1 set	0.0.627.08
yellow, similar to RAL 1003, 1 set	0.0.627.07
red, similar to RAL 3001, 1 set	0.0.627.06
Castor Insert D30 ESD	ESD (À)
m = 19.2 g	
black, similar to RAL 9005, 1 set	0.0.622.27



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## Castor Insert D30 with Flanged Wheel

- For guidance along the conveyor line
- Various colours mark fill levels
- Available in ESD-safe version
- Compatible with Castor Rail 8



#### The following applies to all the products below:

Castor D30, PA with flanged wheel Housing, PA-GF, black Axles, St, stainless

Castor Insert D30 with Flanged Wheel

	·	
	_ m = 19.6 g	
l	black, similar to RAL 9005, 1 set	0.0.620.06
	green, similar to RAL 6032, 1 set	0.0.627.11
	yellow, similar to RAL 1003, 1 set	0.0.627.10
	red, similar to RAL 3001, 1 set	0.0.627.09
	Castor Insert D30 with Flanged Wheel ESD	ESD (À)
	m = 21.0 g	

black, similar to RAL 9005, 1 set

0.0.622.28

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## Castor Rail 8 40x40, Brake

- Bring workpieces to a halt at the desired point
- Simply pushed on to the Castor Inserts



n = 2.0 g	
 1 pce.	0.0.619.34





### Castor Ball Set Castor Ball Insert ESD

- Goods can be moved in any direction over surfaces
- Low wear and low friction
- Ideal for versatile insertion and removal points that are gentle on goods
- Castor Ball Set can also be integrated into panel elements



Castor Ball D24, St Housing, PA-GF, black m = 50.0 g

Castor Ball Set Castor Ball D24, St Fastening clip, St m = 45.0 g

bright zinc-plated, 1 set

**Brush Set ESD Brush Insert ESD** 

Gentle transportation over elastic fibres

Brush Set ESD for use in panel elements

Bristle structure of contact surface prevents scratching

1 set

Castor Ball Sets and Brush Sets are also suitable for use in the table tops that connect to your interlinked track - for insertion and removal or for the careful warehousing of your goods. And of course they are antistatic and thus prevent electrostatic build-up.





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Castor Ball Insert ESD	)	

0.0.620.26

Gentle transportation over elastic fibres. Bristle structure of contact surface reduces friction. Brush Set Insert ESD can be directly integrated into panel elements.



### Brush Insert ESD

Brush unit ESD, PA, black Housing, PA-GF, black m = 18.0 g 1 set

## Brush Set ESD

1 set

Brush unit ESD, PA, black Fastening clip, St m = 8.0 g

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ESD
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ESD

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0.0.622.22

0.0.622.24



## Castor Rail 8 40x40, Slide Strip ESD

- Low-wear plastic strips for simple goods transport
- Two-level installation possible
- Compatible with Castor Rail 8
- Made from ESD-safe plastic





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Slide Strip for use with Castor Rail 8 40x40. A two-level installation can be implemented. ESD plastic prevents your products from accumulating an electrostatic charge while on the move.



	Castor Rail 8 40x40, Slide Strip ESD	ESD 8
10.5	PE-HD m = 140 g/m	
	black, cut-off max. 3000 mm	0.0.622.26
	black, 1 pce., length 3000 mm	0.0.620.00



## Slide Strip Wedge Insert

For a smooth transition between the two levels of the Slide Strips



ESD

Slide Strip Wedge Insert ESD Slide Strip Wedge, PA, ESD, black Housing, PA-GF, black Button-Head Screw Z3.5x15, St, bright zinc-plated m = 20.0 g 1 set



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0.0.620.84





## Castor Rail 8 Caps

- Secure transport inserts in Castor Rails
- Also suitable as fixing for Impact Buffer

The Cap is available in two lengths. The shorter version closes the end face of Castor Rail 8 and stops the transport inserts from slipping out. The longer version can also be fitted with an Impact Buffer.

M



## Castor Rail 8 Cap 40x40

St, stainless, black 4 Hex. Socket Head Cap Screws DIN7984-M4x16, St, bright zinc-plated m = 60.0 g

1 set	0.0.622.29
Castor Rail 8 Cap 80x40	<b>*</b> -
St, stainless, black	

×2

0.0.622.30

4 Hex. Socket Head Cap Screws DIN7984-M4x16, St, bright zinc-plated m = 102.0 g

1 set

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80

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### Railing Support 8/5 100x80 Railing Fastening Set 5-135°

- Side guide for conveyor lines
- Customised railings made from Profiles 5



Fitted to the side of the Castor Rail, the railing made of Profiles 5 gives your products the support they need to stay on track. The railing also features broad lateral and vertical adjustment ranges.

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Profiles 5 flat cross-



Railing Fastening Set 5-135° can be easily adjusted to any angle from 90° to 180°.



### Railing Support 8/5 100x80

Locating lug, die-cast zinc T-Slot Nut V 8 St M6, bright zinc-plated T-Slot Nut 5 St M5, bright zinc-plated Hexagon Socket Head Cap Screw DIN 7984-M6x16, St, bright zinc-plated Hexagon Socket Head Cap Screw DIN 912-M5x8, St, bright zinc-plated m = 135.0 g 1 set

0.0.622.20

0.0.627.35

#### Railing Fastening Set 5-135°

Angle bracket 5-135°, St, stainless 2 T-Slot Nuts 5 St M5, bright zinc-plated 2 Button-Head Screws M5x6, St, bright zinc-plated m = 15.0 g 1 set

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## Ø8.5 Ø4.4 2 m

T-Slot Nuts 8 Zn M4 (0.0.373.58) and Button-Head Screws M4x25 (8.0.002.19) are suitable for fixing to Profiles 8.

The permissible load for the Roller Elements is:  $\begin{array}{l} \mathsf{F} = 50 \text{ N and} \\ \mathsf{F} = 30 \text{ N (ESD)} \end{array}$ 

80

8



ESD 8

	Roller Element 8 80	8
21	Lid element, PA-GF, black Base element, PA-GF, black 3 rollers, POM, black m = 45.0 g	
	1 pce.	0.0.436.58
	Roller Element 8 80 ESD	ESD 8
	Cover element, PA-GF, black Base element, PA-GF, black 3 rollers, POM, black m = 45.0 g	
	1 pce.	0.0.612.98
	Roller Element 8 80 with side guide	<b>*</b> 2
	Lid element with side guide, PA-GF, black Base element, PA-GF, black 3 rollers, POM, black m = 50.0 g	
12212	1 pce.	0.0.436.59
	Roller Element 8 80 with side guide ESD	ESD 8
	Cover element, PA-GF, black Base element, PA-GF, black 3 rollers, POM, black m = 50.0 g	
	1 pce.	0.0.612.99



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## Conveyor Roller TR32

- For transporting lightweight workpieces
- Simple work bench interlinking
- Modular design makes installation easy





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	F	X <sub>min.</sub>	X <sub>max.</sub>
Tube D32 AI	100 N	50 mm	600 mm
Tube D32 KU	50 N	50 mm	400 mm



Conveyor Roller TR32, Bearing Set	8-
PA-GF ball-bearing support, sealed 2 bearing flanges m = 16.0 g	
black, 1 set	0.0.472.08

Conveyor Roller TR32, Bearing Block Set 8	}
2 hearing blocks DA block	

- 2 bearing blocks, PA, black 2 bearing clamps, PA, black 2 Countersunk Screws DIN 7991-M3x20, St, black 2 T-Slot Nuts 8 Zn M3, bright zinc-plated
- m = 18.0 g

1 set

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### Tube D32 Al

Al, anodiz	ed				
m [kg/m]	I <sub>x</sub> [cm <sup>4</sup> ]	l <sub>y</sub> [cm <sup>4</sup> ]	W <sub>x</sub> [cm <sup>3</sup> ]	W <sub>y</sub> [cm <sup>3</sup> ]	
0.34	1.50	1.50	0.94	0.94	
natural, cu	ut-off max.	3000 mm			0.0.472.22
natural, 1	pce., lengt	h 3000 mm			0.0.472.20
Tube D32	KU				
PVC					
Temperati	ure range C	) - 60°C			
m [kg/m]	I <sub>x</sub> [cm <sup>4</sup> ]	l <sub>y</sub> [cm <sup>4</sup> ]	W <sub>x</sub> [cm <sup>3</sup> ]	W <sub>y</sub> [cm <sup>3</sup> ]	
0.27	2.00	2.00	1.22	1.22	
black, cut-	off max. 3	000 mm			0.0.472.25
black, 1 p	ce., length	3000 mm			0.0.472.23





## Conveyor Rollers TR50

- Robust rollers for heavy loads
- Aluminium or plastic surface

8



The ball-bearing Conveyor Rollers with aluminium or plastic Tube D50 can be removed from or retrofitted and screwed into existing structures by means of spring-loaded threaded axle pins.

The axial position of the roller is maintained by two centring clips.

When fitting the Conveyor Rollers onto the frame profile, this is best done using the Groove Profile 8 AI M8-40, since this provides an easy means of ensuring consistent axle spacing.







The circumferential groove in the bearing flanges also enable the Conveyor Rollers to be driven by a round belt  $\varnothing$  4 mm, if desired.

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0.0.422.63



### Conveyor Roller TR50, Bearing Set

2 bearing flanges, PA-GF, black Ball-bearing support Bolt, St, bright zinc-plated 2 centring clips, PA-GF, black m = 250.0 g

Tube D50	AI				
Al, anodiz	ed				
m [kg/m]	I <sub>x</sub> [cm <sup>4</sup> ]	l <sub>y</sub> [cm <sup>4</sup> ]	W <sub>x</sub> [cm <sup>3</sup> ]	W <sub>y</sub> [cm <sup>3</sup> ]	
0.76	8.16	8.16	3.26	3.26	
natural, cu	ut-off max. (	6000 mm			0.0.416.03
natural, 1	pce., lengt	h 6000 mm			0.0.453.46



Ø50

### Tube D50 KU

1 set

PVC					
m [kg/m]	I <sub>x</sub> [cm <sup>4</sup> ]	I <sub>v</sub> [cm <sup>4</sup> ]	W <sub>x</sub> [cm <sup>3</sup> ]	W <sub>y</sub> [cm <sup>3</sup> ]	
0.62	10.90	10.90	4.36	4.36	
black, cut	-off max. 30	000 mm			0.0.427.63
black, 1 p	ce., length	3000 mm			0.0.453.85



## Groove Profile

- Pre-drilled threads at regular intervals
- Ensure conveyor lines exhibit a uniform design
- In two modular dimensions for various axle spacings



Groove Profile	а	b
8 AI M8-40	80 mm	120 mm
8 AI M8-60	60 mm	120 mm

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:)	Groove Profile 8 Al M8-40	8
	Al, anodized Threaded bore M8 in modular dimension 40 mm m = 500.0 g	
	natural, 1 pce., length 2000 mm	0.0.427.72



X)	Groove Profile 8 Al M8-60	
----	---------------------------	--

Al, anodized		
Threaded bore M8 in modular dimension 60 mm		
m = 510.0 g		
natural, 1 pce., length 2000 mm		

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# item CONVEYORS



## Chain-Driven Conveyor Rollers

The easy way to create automated transport solutions

- Complete package for specific requirements
- For roller conveyors up to 6,000 mm long
- Driven by concealed chain





A simple ratchet mechanism is used to insert the Conveyor Rollers into the Bearing Blocks mounted on the frame profile.

The Bearing Block Set comprises a fixed and a floating bearing. The fixed bearing must be positioned on the drive side of the Conveyor Roller.

When fitting the Bearing Blocks onto the frame profile, this is best done using a screw connection with Groove Profile 8 AI M8-40 (0.0.427.72), since this provides an easy means of ensuring consistent axle spacing.

After fitting, the bearing blocks are covered by the Housing Profile, which stretches along the entire length of the roller conveyor. The design of the Housing Profile with Side Guide ensures that transported goods are kept on track and the side guide itself incorporates a Line 5 groove that enables users to attach a Slide Strip 5 or other guide element.



	F	$X_{\text{min.}}$	X <sub>max.</sub>
Tube D50 AI	1000 N	150 mm	800 mm
Tube D50 KU	400 N	150 mm	500 mm



The housing of the Chain Reverse Unit is prepared for securing a Bearing Block. This Conveyor Roller is not driven via the chain. If required, the last Conveyor Roller can also be driven from the last driven roller by means of a Ø 4 mm round belt.





0.0.416.03	Tube D50 AI
0.0.427.63	Tube D50 KU
0.0.427.72	Groove Profile 8 AI M8-40
0.0.437.27	Slide Strip 5 antistatic
0.0.463.38	Conveyor Roller TRA50 (Chain-Driven), Housing Profile
0.0.463.39	Conveyor Roller TRA50 (Chain-Driven), Housing Profile with Side Guide
0.0.463.48	Conveyor Roller TRA50 (Chain-Driven), Housing End Cap Set
0.0.463.49	Conveyor Roller TRA50 (Chain-Driven), Bearing Set
0.0.463.50	Chain Guide Profile 8
0.0.463.54	Conveyor Roller TRA50 (Chain-Driven), Bearing Block Set
0.0.463.75	Chain Reverse Unit 8 80 with Bore
0.0.465.17	Chain 1/2"













### Conveyor Roller TRA50 (Chain-Driven), Bearing Block Set

2 Bearing Blocks, PA, black Fixed bearing cover, PA, black Floating bearing cover, PA, black 2 Button-Head Screws ISO 7380-M8x25, St, bright zinc-pl. 2 washers DIN 433-8.4, St, bright zinc-pl. m = 152.0 g 1 set

0.0.463.54

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Conveyor Roller TRA50 (Chain-Driven), Housing Profile		
Al, anodized		
A [cm <sup>2</sup> ] m [kg/m]		
2.17 0.59		
natural, cut-off max. 3000 mm	0.0.463.38	
natural, 1 pce., length 3000 mm	0.0.463.81	

Conveyor Roller TRA50 (Chain-Driven), Housing Profile with Side Guide			<b>~</b> 7
	Al, anodiz	ed	
	A [cm <sup>2</sup> ]	m [kg/m]	
	3.36	0.91	
	natural, cu	it-off max. 3000 mm	0.0.463.39
natural, 1 pce., length 3000 mm		0.0.463.83	

Conveyor Roller TRA50 (Chain-Driven), Housing End Cap Set	<u>گ</u>
2 Caps 5 20x10 TRA 50 housing cap, left, TRA 50 housing cap, right 4 Self-Tapp. Screws DIN 7981-St 4.2x9.5, St, bright zinc-pl. m = 22.0 g	
1 set	0.0.463.48



## Chain Guidance in the Profile Groove

- Chain runs safely inside the profile groove
- Compact power transmission solution
- No protruding components









Chain Guide Profile 8 encloses the Chain. The profile is inserted into the profile groove.

The Chain Reverse Units are screw-connected into the core bores in the end faces of the frame profiles. The Chain Guide Profile must be cut 50 mm longer than

The Chain Guide Profile must be cut 50 mm longer than the aluminium profile, since it must project 25 mm into the Reverse Unit at each end.



Calculating the chain length for a chain drive with two Chain Reverse Units 8 80 and one Chain Counter-Reverse Unit 8:

$$L_{Chain} = 2 \text{ x L} + 665.1 \text{ mm} (+ 192.5 \text{ mm})$$

To establish the exact length and precise number of chain links, divide the calculated chain length by 12.7 mm (=  $\frac{1}{2}$ ) and round up the result to a whole even number. Subtract one chain link from this total, to be replaced by the removable Chain Link.

Note: Because the Chain stretches when under operating load it may be necessary – depending on the length of the conveyor line – to install a Chain that is shorter than the calculated target length. This adjustment can be made during assembly. The play-free chain drive is adjusted at the Chain Reverse Units.

The stretching that occurs in a new Chain must also be compensated for by making adjustments to the Chain Reverse Units.

1.2	Chain ½″	×2
Cole prili	St, nickel-plated Pitch p = 12.7 mm corresponding to $\frac{1}{2}''$ Operating load = max. 1.400 N Elongation at 1,400 N = 2.5 - 3 ‰ m = 215 g/m	
	cut-off max. 25 m in 1″ intervals	0.0.465.17
	1 roll length 25 m	0.0.602.31
~??	Chain Link 1/2" (removable)	8
P=Vi	St, nickel-plated m = 2.0 g	
00	1 set	0.0.465.39
	Chain Guide Profile 8	8 <b>5</b> 7
8.6	PA m = 22 g/m	
	transparent, 1 pce., length 2000 mm	0.0.463.50





### Chain Reverse Units 8 80

- Combination of Reverse Unit and Tensioning Block
- Can be connected directly to a motor
- Safe, concealed chain





The Chain Reverse Unit incorporates integrated chain tensioning block and clamp.

The Chain tensioning distance is 2x13 mm in total. The Chain tension must be set so that the Chain can also be operated with the slack side of the Chain only slightly pre-tensioned.



It is possible to fit motors and couplings D55 directly to the Chain Reverse Unit.



The Chain can be driven directly using the Chain Reverse Units or the Chain Counter-Reverse Unit. The sprocket wheels of the Chain Reverse Units are available with multi-spline hub VK14 or with a bore that can be machined as required. Use of multi-spline hub VK14 enables the modular accessories (Synchroniser Shafts) to be used without any restrictions.



#### Chain Reverse Unit 8 80 VK14

Chain Reverse Unit, die-cast zinc, black, pre-assembled Ball-bearing sprocket wheel, z = 16 (z = number of teeth) One revolution corresponds to 203.2 mm effective radius  $r_w$  = 32.3 mm Hub with multi-spline DIN ISO 14-6x11x14 Hub depth 30 mm, Max. load:  $M_D = 20 \text{ Nm}$ Tensioning Block, die-cast zinc, black, pre-assembled Fastening screws, St, black, 2 caps, PA, black Chain length in Reverse Unit 236.3 mm Notes on Use and Installation m = 1.1 kg

0.0.463.37

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### Chain Reverse Unit 8 80 with Bore

1 pce.

Chain Reverse Unit, die-cast zinc, black, pre-assembled Ball-bearing sprocket wheel, z = 16 (z = number of teeth) One revolution corresponds to 203.2 mm effective radius  $r_w = 32.3 \text{ mm}$ Hub with bore D8, reborable up to max.  $\varnothing$  15 mm Hub depth 30 mm, Max. load:  $M_D = 20$  Nm Tensioning Block, die-cast zinc, black, pre-assembled Fastening screws, St, black, 2 caps, PA, black Chain length in Reverse Unit 236.3 mm Notes on Use and Installation m = 1.1 kg 1 pce.

0.0.463.75



## Chain Counter-Reverse Unit 8

- The versatile connection option for the motor of a chain drive
- Can be fitted at any point along the Chain return line
- Height-adjustable sprocket enables adjustment of Chain tension





The Chain Counter-Reverse Unit is screwed directly to the Support Profile. The Chain Guide Profile must be interrupted at this point in order to remove the chain from the profile groove.

Drive motors can be fitted using the Adapter Plate. The sprocket wheel hub and the Adapter Plate of the Chain Counter-Reverse Unit must be machined to suit requirements. The sprocket wheel is fitted directly onto the motor gearbox output shaft which also provides the necessary bearing arrangement.



The Chain can be tensioned by moving the motor and sliding Adapter Plate Assembly within the Chain Counter-Reverse Unit if there is insufficient adjustment on the Chain Reverse Units.





#### Chain Counter-Reverse Unit 8

Housing cast Aluminium, black, pre-assembled 2 reversing wheels, St, with ball bearings Drive wheel with centric bore, St, z = 16 reborable up to  $\oslash$  24 mm or  $\oslash$  20 mm with parallel keyway to DIN 6885 Adapter Plate with clamping elements, Al, natural Fastening screws, St, black T-Slot Nut 8 St 2xM8-50, St, bright zinc-plated 4 caps, PA, black Max. load: M<sub>D</sub> = 35 Nm Chain length in Counter-Reverse Unit 306.8 mm Notes on Use and Installation m = 3.0 kg

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### Chain Transfer

- For transporting workpiece carriers directly on the Chain
- Chain runs through a Slide Strip above the groove
- For parallel running chain drives with a Synchroniser Shaft
- ESD-safe Slide Strips prevent static charges





Start of chain transfer: the chain is guided over the End Ramp onto the Slide Strip.



The maximum permissible load on a Chain Transfer Unit is calculated from the number of supporting links. For each chain link,  $F_{max} = 6$  N. Note the chain's operating load!



When working with high loads, it is advisable to fix the Slide Strips securely in place: - Screw fastening using Button-Head Screw T4x18 and T-Slot Nut 8 PA (the clip mechanism needs to be removed around the area where the screw connection is implemented)



- Pinning with  $\varnothing$  4.8 mm bore and insertion of a fixing pin.



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7.8

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Calculation of the chain length: The chain length is calculated in the same way as the length of a chain drive. However, the chain length L in the Reverse Unit (U') varies:

 $L_{chain} = 2 \times L + 490.8 \text{ mm}$ 

