



The Lean Production Building Kit System.

Comprehensive Catalogue

3



product
design
award
2011



German
Design Award
2012
SILVER



GOOD
DESIGN

Build what lean production needs – the simple way.





Factory equipment

This is what lean production looks like! Aluminium profiles and fasteners D30 can be assembled directly on site to build sturdy racks and factory equipment in next to no time. All connections are stable as soon as they are tightened, but can always be modified to accommodate subsequent changes in working processes. Whether racks for material supply or custom-designed work benches – there's no simpler solution.

Intralogistics

This is how to keep goods moving! Intralogistics solutions benefit from heavy-duty castors and a combination of aluminium tubes and die-cast aluminium fasteners. This approach ensures transport trolleys can withstand the constant stresses and strains of day-to-day work. The end result is high availability and minimum maintenance costs. Special components for shooter solutions minimise the need for manual interventions to keep materials flowing smoothly.

Material flow

This is how to keep fresh supplies coming in! A simple approach to building flow racks and a huge selection of roller conveyors support straight-forward handling practices for standardised containers and workpiece carriers. Even sensitive goods, soft protective packaging and bulky parts can be safely transported and stored using specialised solutions.

Low-cost automation – the mechanical solution

This is how to do more! Mechanical automation that doesn't require drives, electricity or compressed air takes the strain off workers and makes processes more efficient. Moving components can create rockers, container storage facilities and mechanisms for lifting containers and changing the direction of travel and can be integrated into small spaces.



Profiles and accessories



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Material flow



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Low-cost automation – the mechanical solution



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Profiles and accessories.

Easy to install and boasting long-term reliability in use - the tubes and profiles of the Lean Production Building Kit System are made of lightweight and corrosion-resistant aluminium. The optimised design of Profile Tube System D30 delivers a high load-carrying capacity while the ability to reuse and augment parts ensures outstanding cost efficiency.

There are also profiles for special applications with equally special features such as heavy-duty profiles with increased bending strength, an electrically insulating plastic tube made of 70 percent wood and an especially light carbon tube. Coloured profiles are also available alongside the natural metal versions and can be used to provide a clear indication of where one area starts and another finishes.

One thing all these profiles have in common is how easy they are to machine. Profiles and tubes can be cut to length on site without having to use any special tools. Cut-off tolerances and minor angular errors are compensated by the connecting elements, thereby eliminating the need for further machining. Thanks to the versatile item fasteners, you can therefore extend constructions at any time. As a result, the Lean Production Building Kit System supports the principle of continuous improvement.

Due to the long-term stability offered by the combination of fasteners and profiles, the Lean Production Building Kit System is also ideal for building transport trolleys and Karakuri applications.

Profiles and accessories: Products in this section.



Profile Tube D30

- Profile contour supports mechanically locked connections
- Optimum connection options

8



Profile Tube D30, powder-coated

- Available in seven different colours

8



Profile Tube D30 heavy duty

- Reinforced wall for even more stability
- High load-carrying capacity and bending strength

11



Profile D40/D30

- Increased diameter
- For LCA/Karakuri applications

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Profile Tube 8 D30

- Profile Tube with Line 8 groove
- Easy to connect components from the MB and Work Bench Systems

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Profile 6 D30

- Up to four full Line 6 grooves
- Easy to connect accessories

15



Tube D30

- Smooth, strong basic strut without grooves

8



Tube KH D30

- Electrically insulating and metal free
- 70 percent wood composite material

17



Tube D30x1.5 CFRP

- Made from carbon
- Extremely torsion resistant and light
- High-end look

18



Anti-Torsion Block D30

- Positions profiles in the desired orientation
- Prevents misalignment of accessories

10



Protective Profile D30 R28-90°

- Permanently flexible protection
- 90° segments
- Simply clip on

19



Tube Protector D30

- All-round foam sheathing
- Simple protection against scratches

20



Cover Profile, Profile Tube D30

- Covers over the grooves of a Profile Tube D30
- For clean, closed surfaces

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Tube End Cap D30

- Safe covering for cut edges
- Also suitable as impact buffer in LCA/ Karakuri applications

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Note:
Additional information on profiles can be found in the Technical data section on page 176.

Compatible Caps can be found alongside the relevant Profiles and Tubes.



Tube D30 Profile Tube D30

- Light, torsion resistant and easy to machine
- Two universal basic struts
- Numerous special profiles for specific tasks



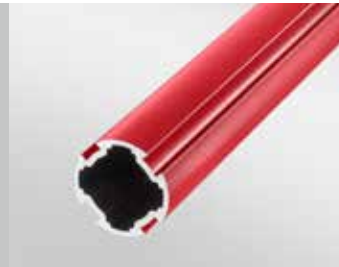
Optimised for lean production! The Lean Production Building Kit System offers a range of specialised, mutually compatible tubes for building constructions in your production plant.

- Tube D30 and Profile Tube D30 form the basis for all applications.
- Profile Tube 8 D30 features a Line 8 groove and a D30 profile contour.
- Profile 6 D30 has four Line 6 profile grooves.
- Profile Tube D40/D30 uses a Tube D30 as an axle to produce moving constructions for low-cost automation applications.
- Profile Tube D30 heavy duty has a reinforced wall thickness for additional load-carrying capacity.
- Tube KH D30x11.6 is made of a composite material that is 70 percent wood and is electrically insulating.
- Tube D30x1.5 CFRP is made of carbon and is especially light and extremely strong.

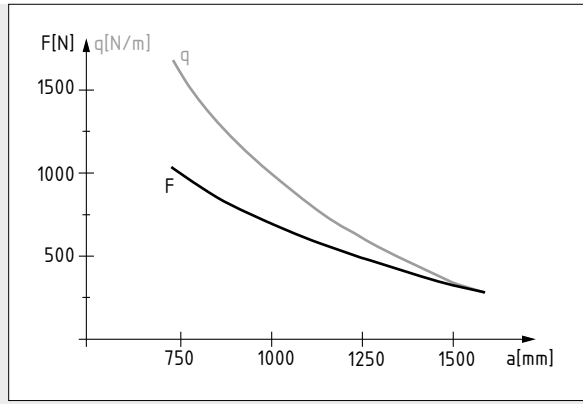
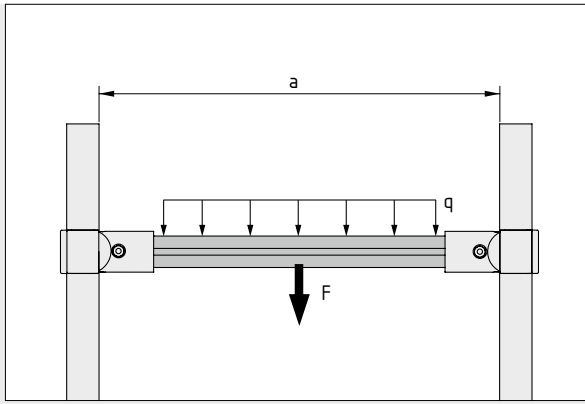
Tubes D30 and Profile Tubes D30 are made of durable and lightweight aluminium. As a result, they are easily cut to size while their design also makes them resistant to torsion. The geometry of the Profile Tube supports mechanically locked connections on four sides and thus opens up a whole range of fastening options.

Thanks to the versatile item fasteners, you can extend constructions at any time. Tubes D30 and Profile Tubes D30 therefore support the principle of continuous improvement (CIP).

Profile Tubes D30 are also available in seven colours to enable eye-catching differentiation between various areas, components and sites. The silk-matt powder-coating is abrasion resistant and has no detrimental effects for fastening elements. All anodized Tubes D30, Profile Tubes D30 and the black powder-coated Profile Tube are electrostatically dissipative.



Caps for the ends of Profiles and Tubes are available in two variants – grey and a black, electrostatically dissipative version. This makes it easy to identify the intended application of a Cap.



Permissible loads for constructions built using Tube D30, Profile Tube D30 and all variants of Profiles 6 D30.



Tube D30

Al, anodized

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
1.26	0.34	1.29	1.29	2.44	0.86	0.86
natural, cut-off max. 6000 mm						
						0.0.628.56
natural, 1 pce., length 6000 mm						0.0.628.52
natural, 1 pce., length 3000 mm						0.0.678.19



Profile Tube D30

Al, anodized

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
1.97	0.53	1.71	1.71	2.44	1.14	1.14
natural, cut-off max. 6000 mm						
						0.0.628.28
natural, 1 pce., length 6000 mm						0.0.628.17
natural, 1 pce., length 3000 mm						0.0.660.44



Profile Tube D30

Al, powder-coated

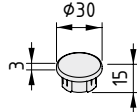
A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
1.97	0.53	1.71	1.71	2.44	1.14	1.14
red similar to RAL 3020, cut-off max. 6000 mm						
						0.0.643.22
red similar to RAL 3020, 1 pce., length 6000 mm						0.0.643.14
yellow similar to RAL 1021, cut-off max. 6000 mm						0.0.643.23
yellow similar to RAL 1021, 1 pce., length 6000 mm						0.0.643.15
green similar to RAL 6024, cut-off max. 6000 mm						0.0.643.24
green similar to RAL 6024, 1 pce., length 6000 mm						0.0.643.16
blue similar to RAL 5017, cut-off max. 6000 mm						0.0.643.25
blue similar to RAL 5017, 1 pce., length 6000 mm						0.0.643.17
grey similar to RAL 7042, cut-off max. 6000 mm						0.0.643.26
grey similar to RAL 7042, 1 pce., length 6000 mm						0.0.643.18
white similar to RAL 9016, cut-off max. 6000 mm						0.0.643.27
white similar to RAL 9016, 1 pce., length 6000 mm						0.0.643.19

Profile Tube D30 ESD



Al, powder-coated

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
1.97	0.53	1.71	1.71	2.44	1.14	1.14
black similar to RAL 9005, cut-off max. 6000 mm						0.0.643.29
black similar to RAL 9005, 1 pce., length 6000 mm						0.0.643.21



Cap, Tube D30

PA-GF

m = 4.6 g

grey similar to RAL 7042, 1 pce.	0.0.629.78
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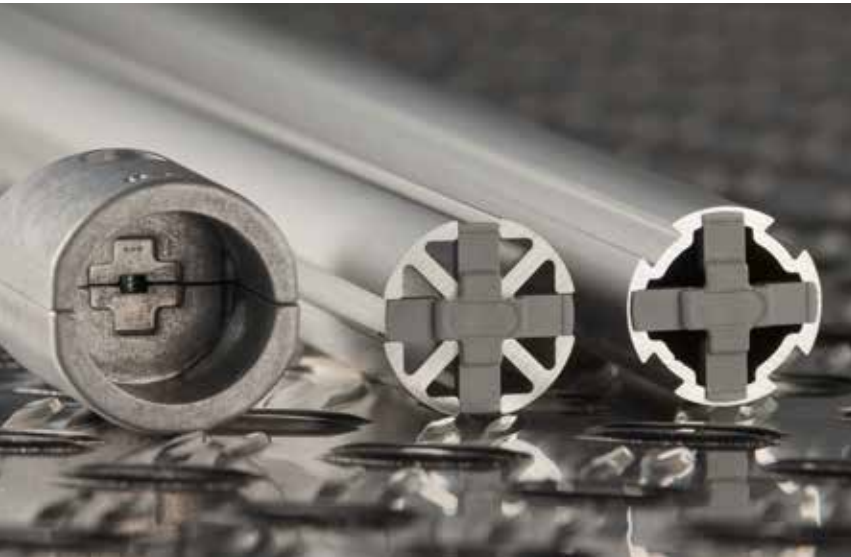
Cap, Tube D30 ESD



PA-GF

m = 4.6 g

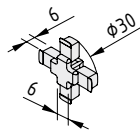
black similar to RAL 9005, 1 pce.	0.0.637.04
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Anti-Torsion Blocks 6 D30

- Fixes the orientation of Profile Tubes
- Prevents the misalignment of accessories
- A firm hold without any screws

Using the Anti-Torsion Blocks makes it even easier to combine the Fastener with Profile Tubes D30 and Profiles 6 D30. They ensure the Profiles are correctly aligned in the Fastener, making it easy to avoid assembly errors.

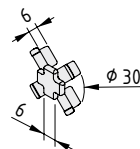


Anti-Torsion Block 6 D30

PA-GF

m = 1.4 g

grey similar to RAL 7042, 1 pce.	0.0.630.39
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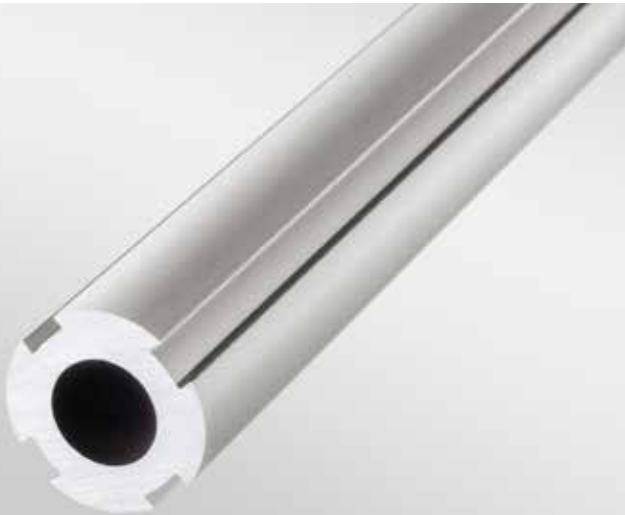


Anti-Torsion Block 6 D30-45°

PA-GF

m = 1.4 g

grey similar to RAL 7042, 1 pce.	0.0.630.40
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Profile Tube D30 heavy duty

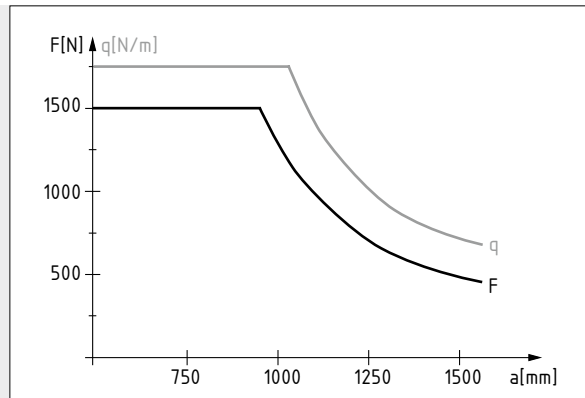
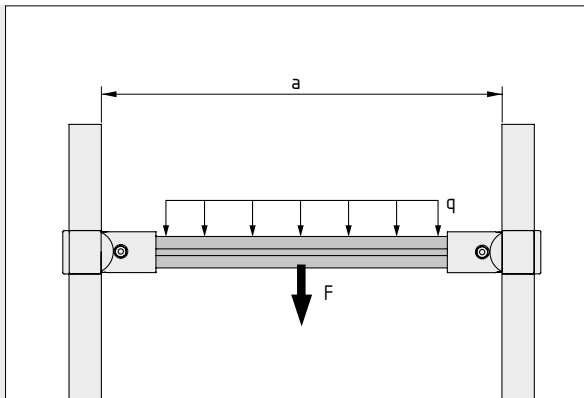
- High resistance against profile deflection
- Space-saving solution for added rigidity
- Various Threaded Inserts can be used



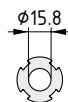
Exceptionally stable construction. Profile Tube D30 heavy duty is used in applications with tough requirements. Low profile deflection and increased buckling resistance – that is when this profile really comes into its own.

The reinforced wall of the Profile Tube is ideal for accommodating high-strength Threaded Inserts, thus also enabling users to create direct screw attachments.

On the outside, however, it looks no different from its conventional counterpart and has the same contour as Profile Tube D30. As a result, all the normal connection and fastening principles apply in full and all components can be used in the usual way.



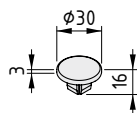
Permissible loads for constructions built with Profile Tube D30 heavy duty.



Profile Tube D30 heavy duty

Al, anodized

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
4.67	1.21	3.06	3.06	5.00	2.04	2.04
natural, cut-off max. 6000 mm						0.0.642.34
natural, 1 pce., length 6000 mm						0.0.642.33



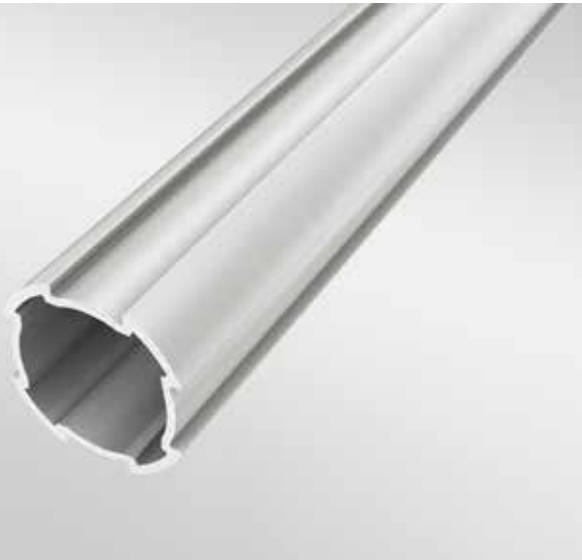
Cap, Profile Tube D30 heavy duty

PA-GF	
m = 3.0 g	
grey, 1 pce.	0.0.648.68

Cap, Profile Tube D30 heavy duty ESD



PA-GF	
m = 3.0 g	
black, 1 pce.	0.0.649.35



Profile Tube D40/D30

- Increased diameter
- For mechanical automation
- Uses Tube D30 as an axle



Profile Tube D40/D30 is used as a bearing component in combination with Plain Bearing Sleeve D40/D30. It is slid over a Tube or Profile Tube D30. Thanks to the external profile structure, it can be connected to any D30 component using Fasteners, despite its larger diameter.

Cap, Profile Tube D40/D30 seals an open end on a Profile Tube D40/D30 (0.0.666.63). It safely covers over sharp outer edges and stops dust getting into the profile.

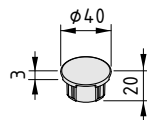
The Cap is available in grey and in a black, ESD-safe version.



Profile Tube D40/D30

Al, anodized

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
2.45	0.66	3.88	3.88	5.68	1.94	1.94
natural, cut-off max. 6000 mm						0.0.666.63
natural, 1 pce., length 6000 mm						0.0.661.59



Cap, Profile Tube D40/D30

PA-GF

m = 8.3 g

grey, 1 pce. 0.0.670.93

Cap, Profile Tube D40/D30 ESD



PA-GF

m = 7.8 g

black, 1 pce. 0.0.670.94



Profile Tube 8 D30

- Profile Tube D30 with Line 8 groove
- Variable and versatile
- Connect to MB accessories without adapters



Double the connectivity – Profile Tube D30 with an integrated Line 8 groove. The special geometry supports the connection of Fasteners D30 on three sides. A Line 8 groove is open to enable connection of components from the MB Building Kit System and the item Work Bench System.

Profile Tube 8 D30 thus saves on installation space and storage costs because components in the MB Building Kit System and Work Bench System can be fastened to it without the need for an adapter. That makes it easier than ever to utilise accessories from all three building kit systems in a single frame.

Among other things, Profile Tube 8 D30 is ideal for adding elements such as Grab Containers 8 105x130 (0.0.664.35) and Tray Stop Profile 8 50x10 (0.0.664.31) to a trolley or rack built using D30 profiles.

Note: Profile 6 D30 is available for connecting accessories that utilise a Line 6 groove.

Cap, Profile Tube 8 D30 seals the end-face of Profile Tube 8 D30. It safely covers free profile ends and helps prevent injuries. The Cap is available in grey.

Due to its geometry, Profile Tube 8 D30 requires a different Cap to Profile Tube D30.



Profile Tube 8 D30

Al, anodized

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
2.75	0.75	1.20	2.32	0.76	0.91	1.55
natural, cut-off max. 6000 mm						0.0.663.94
natural, 1 pce., length 6000 mm						0.0.663.93
natural, 1 pce., length 3000 mm						0.0.678.20



Cap, Profile Tube 8 D30

PA-GF

m = 3.0 g

grey similar to RAL 7042, 1 pce.

0.0.666.95



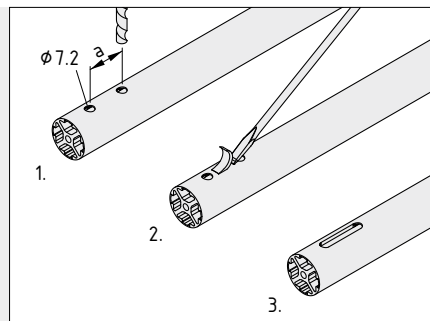


Profile 6 D30

- Four grooves for connecting components from item Line 6
- Supports mechanically locked connection with Fastener D30
- Available with closed grooves for easy-clean constructions



Profiles 6 D30 feature four Line 6 grooves for fastening elements from Line 6 of the MB Building Kit System. These Profiles can be combined with Tube D30 and Profile Tube D30 as and when required. Fastener D30 creates a mechanically locked connection with the profile contour between the grooves.



Any covered grooves on a Profile can be opened up as and when required, thereby allowing you to insert panelling and fastening elements.



Profile 6 D30



Al, anodized

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
2.79	0.75	1.69	1.69	0.17	1.12	1.12
natural, cut-off max. 6000 mm						0.0.616.46
natural, 1 pce., length 6000 mm						0.0.616.45



Profile 6 D30 1N



Al, anodized

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
2.84	0.77	1.69	1.78	0.53	1.12	1.19
natural, cut-off max. 6000 mm						0.0.615.09
natural, 1 pce., length 6000 mm						0.0.615.08



Profile 6 D30 2N90



Al, anodized

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
2.88	0.78	1.79	1.79	0.98	1.19	1.19
natural, cut-off max. 6000 mm						0.0.615.13
natural, 1 pce., length 6000 mm						0.0.615.11



Profile 6 D30 2N180



Al, anodized

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
2.88	0.78	1.69	1.88	0.89	1.15	1.25
natural, cut-off max. 6000 mm						0.0.614.24
natural, 1 pce., length 6000 mm						0.0.614.23



Profile 6 D30 3N



Al, anodized

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
2.94	0.79	1.79	1.89	1.48	1.19	1.26
natural, cut-off max. 6000 mm						0.0.615.17
natural, 1 pce., length 6000 mm						0.0.615.16



Profile 6 D30 4N



Al, anodized

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
2.98	0.80	1.89	1.89	2.11	1.26	1.26
natural, cut-off max. 6000 mm						0.0.616.49
natural, 1 pce., length 6000 mm						0.0.616.48



Cap 6 D30



PA-GF

m = 2.1 g

grey similar to RAL 7042, 1 pce.

0.0.634.45



Cap 6 D30 ESD



PA-GF

m = 2.1 g

black similar to RAL 9005, 1 pce.

0.0.637.03



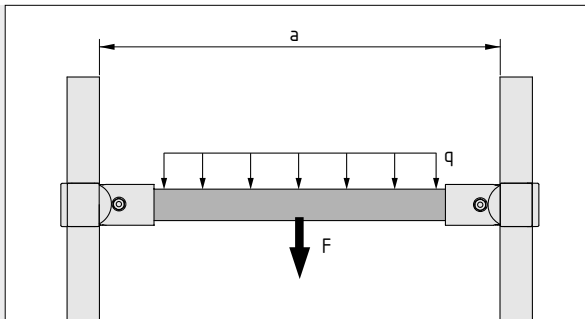
Tube KH D30x11.6

- 70 percent wood composite material
- Neutral to electromagnetic waves
- Metal-free and non-conductive

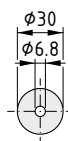
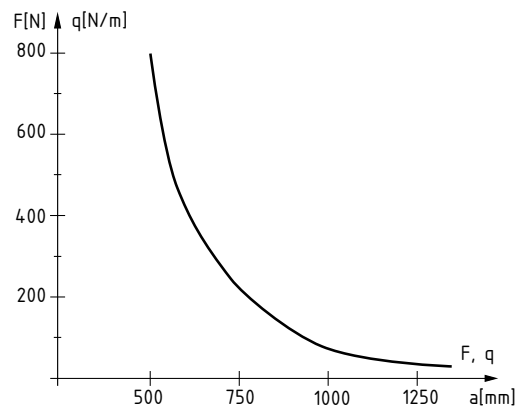
The alternative for all tube constructions that need to be electrically non-conductive and allow electromagnetic waves to pass through. Stable, weatherproof and made predominantly of renewable raw materials (> 70 percent wood), this innovative composite material is also suitable for users who need tubes that are easy to process and versatile. The wall thickness of 11.6 mm also means that panel elements can be screwed directly to the tube wall using wood screws.

Fastener D30 and a Tube Adapter D30 are used to create connections with Tubes KH D30x11.6 in exactly the same way as for aluminium Tubes D30.

To create end-face connections, Button-Head Screw KH 8x55, TX30 (0.0.642.17) can be driven into the core bore of Tube KH without the need for any preliminary machining.



Permissible loads for constructions built with Tube KH D30x11.6.



Tube KH D30x11.6

Wood-PP composite

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
6.71	0.77	3.97	3.97	7.94	2.65	2.65
anthracite, cut-off max. 6000 mm						0.0.643.71
anthracite, 1 pce., length 6000 mm						0.0.643.70



Cap, Tube KH D30

PA-GB

m = 2.3 g

black, 1 pce.	0.0.649.31
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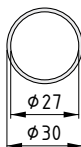


Tube D30x1.5 CFRP

- Tube D30 made from carbon
- Light and extremely strong
- High-end look

Minimum weight, maximum strength! Extremely torsion-resistant Tube D30x1.5 CFRP supports weight-optimised applications. The high-strength carbon Tube weighs around 40 percent less than a Tube D30 made of aluminium – which is already light to start with. Its low dead weight makes it ideal for building dynamic Karakuri assemblies. Structures mounted on handling devices and robots also benefit from the combination of low mass moment of inertia and high torsion resistance.

Note: Health and safety guidelines for the machining of CFRP materials (e.g. DGUV regulations in Germany) must be taken into account when carrying out machining work. For perfect results, item recommends ordering Tubes that have already been cut to size.



Tube D30x1.5 CFRP

CFRP

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
1.34	0.24	1.37	1.37	2.73	0.91	0.91
anthracite, cut-off max. 6000 mm						0.0.644.75
anthracite, 1 pce., length 6000 mm						0.0.644.74



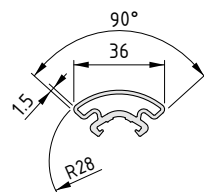
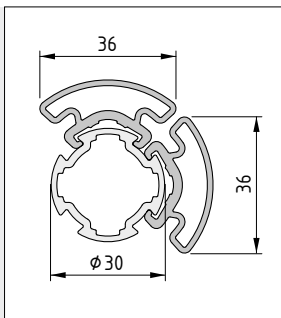
Protective Profile D30 R28-90°

- Permanently flexible cushioning prevents scratches and absorbs impacts
- Simply clipped into place and also suitable as temporary protective element
- Designed as 90° segment

It offers better protection than any foam tube! Protective Profile D30 R28-90° envelops the flank of a Profile Tube to provide permanently flexible impact protection, while leaving all other flanks and areas freely accessible. Its closed TPE surface has no open pores and is very easy to clean.

To ensure optimum protection, this item innovation uses a special chamber that deforms to absorb an impact. Afterwards, the flexible plastic returns to its original shape. Unlike with foam, point loads do not result in permanent indentations. The Protective Profile is therefore ideal for use under workpieces that are particularly prone to scratching, so they can be transported without being damaged.

They are exceptionally easy to fit. Simply clip Protective Profile directly to the Profile Tube – no drilling or gluing required. The tried-and-tested undercut for clamping into the grooves easily withstands the typical bumps and scrapes of day-to-day work. If it needs to be replaced, or if the structure needs to be modified, the Protective Profile is easy to remove, leaving no trace behind, and it just clips back into place.



Protective Profile D30 R28-90°

TPE
m = 154.0 g/m

grey similar to RAL 7042, 1 pce., length 2000 mm

0.0.667.15



Tube Protector D30x13
Tube Protector D30 Fixing Clip

- Made from permanently elastic PE foam
- Universal impact and scratch protection
- Fixing Clip holds cut edges together

Scratch protection and impact absorption for all constructions: The cladding consists of 13 mm-thick PE foam with exceptional elastic properties. The closed-cell material protects profiles from mechanical damage and can withstand prolonged exposure to mineral oil, acids and alkalis.

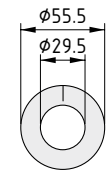
Easy to fit: Either insert the (Profile) Tube D30 into the Tube Protector or fit the Tube Protector around tubes that have already been built into a construction. To ensure a secure hold around Tubes D30, a Tube Protector D30x13 that has been split open along its length should be held shut with the Fixing Clip.

Safe and sound. The Fixing Clip holds Tube Protector D30 together when users have had to split it open for installation purposes (for example when Tube Protector has to be retrofitted to an existing frame structure). It's the Fixing Clip that will hold it together after installation.

Unlike adhesive strips, the clip can be removed without leaving any traces behind. The clip presses the cut edges together, thereby restoring all-round protection for the tube. The clip can also be removed very easily, which is important if additional Fasteners need to be installed.



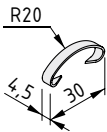
Tip:
Tube Protector D30x13 can be cut to size easily using a knife.



Tube Protector D30x13

PE, foamed
m = 60 g/m
grey, 1 pce., length 2000 mm

0.0.641.23



Tube Protector D30 Fixing Clip

PVC
m = 0.3 g
grey, 1 pce.

0.0.654.04



Cover Profile, Profile Tube D30

- Creates a smooth, easy-to-clean surface
- Clips into the groove without screw fixings

A neat solution. Cover Profile, Profile Tube D30 keeps dirt out of the channel on a Profile Tube D30. Simply press it into place to create a closed, easy-to-clean surface. Thanks to the Cover Profile, users can get the best of both worlds – the advantages of both Tube D30 and Profile Tube D30.



Cover Profile, Profile Tube D30

PE-HD

m = 13.0 g

grey similar to RAL 7042, 1 pce., length 2000 mm

0.0.658.05



Tube End Caps D30

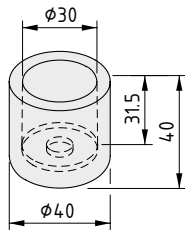
- Elastic covering for cut edges
- Permanently secure thanks to steel washer
- Also suitable as scratch protection for floors and walls
- Cushioning stop for Karakuri applications



Added safety with Tube End Cap D30: As a flexible cap for the open end of a Tube D30 or as scratch protection for floors or walls.

A steel washer ensures the tube does not perforate the cap.

The Tube End Cap is also available in an electrostatically dissipative design (black).



Tube End Cap D30

Cap, NBR Sh 60 A
Washer, St, bright zinc-plated
m = 47.0 g

grey, 1 set	0.0.643.96
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Tube End Cap D30 ESD



Cap, NBR Sh 60 A ESD
Washer, St, bright zinc-plated
m = 47.0 g

black, 1 set	0.0.644.65
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Fasteners.

It really can be this easy to connect aluminium tubes! The fastening technology in the Lean Production Building Kit System ensures ultimate reliability, maximum flexibility and low costs.

As befits the lean production philosophy, Fastener D30 is suitable for all 90° connections – even when several struts meet at one intersection point. This reduces stockkeeping and means that struts can be added or moved without having to change all connections.

Fastening elements D30 are made of heavy-duty die-cast aluminium and exhibit a long-lasting hold. As a result, the fasteners do not need to be retightened, which is a costly

and time-consuming process. High clamping forces and mechanically locked connections on Profile Tubes ensure the construction is stable. Profile Tube System D30 thus offers the safety and reliability that is essential for daily use in an industrial environment.

A 5 A/F key is the only tool needed to tighten all fastener types, which can also compensate for cut-off tolerances.

The Fasteners in the Lean Production Building Kit System automatically establish contact between the components, thereby safely dissipating harmful electrostatic charges. ESD safety is thus built in as standard.

Fastening technology: Products in this section.



Fastener D30

- Universal 90° connection with a long-lasting hold
- Supplied preassembled for rapid assembly

25



Transverse Fastener D30

- For connecting two Profile Tubes D30 that cross each other at a 90° angle
- Can be retrofitted

27



Parallel Fastener D30

- Connects Profile Tubes D30 that run in parallel
- Reinforces structures

28



Fastener D30-45°

- For diagonal struts in any length

30



Bracing Strut D30

- Support for profiles under a heavy load
- Can be quickly added for additional stability

32



Butt Fasteners D30

- End-face direct connection for angled frames
- Available in angles of 30°, 45° and 60°

34



Butt Fastener D30-90°

- Right angle with a gentle curve
- Two radii available

34



Butt Fastener D30-180°

- End-face connection of Profiles D30
- Lengthen struts

34



Angle Fastener D30

- Can be adjusted to any angle

37



Ball Joint Fastener D30

- Complete freedom in three dimensions
- Profile connections in any orientation

39



Tube Adapter D30

- Converts smooth Tubes into Profile Tubes
- Up to four fasteners can be connected

41



End Connector 8 D30-90°

- Anchors Tubes D30 directly to a Line 8 groove
- Torsion resistant and stable

43



Adapter 8 D30

- Fit a D30 profile contour to a profile with a Line 8 groove.

45



Adapter 6 30x30/D30

- Creates a flat surface on the grooves of a Profile 6 D30
- Supports the attachment of hinges

47



Tube Holder D30

- Secures Tubes D30 to a Line 6 or 8 profile groove
- Space saving and strong

50

Compatible Caps can be found alongside the relevant Profiles and Tubes.



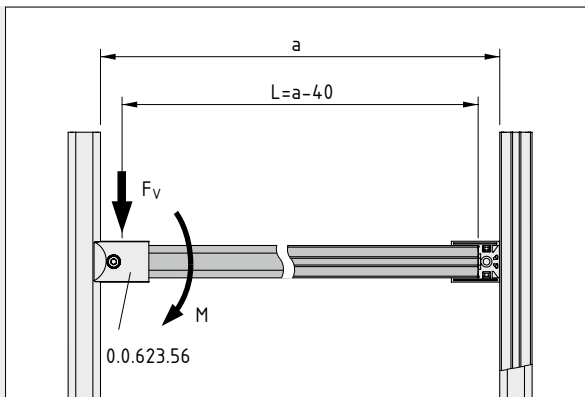
Fastener D30

- Universal 90° connection with a long-lasting hold
- Supplied preassembled for time-saving installation
- No additional profile machining necessary

The universal 90° connection – die-cast aluminium Fastener D30 produces a lasting hold with no creep behaviour. It creates a mechanically locked connection with the contour of a Profile Tube D30 or Profile 6 D30. Up to four Fasteners can be connected to intersection points on a Profile Tube. No special fasteners are required! Tube Adapter D30 is used to connect to a Tube D30. Fastener D30 helps to compensate for tolerances. It consists of two half shells that encompass Tubes and Profile Tubes D30 to ensure a secure hold. A direct conductive contact is always ensured because aluminium is in contact with aluminium.

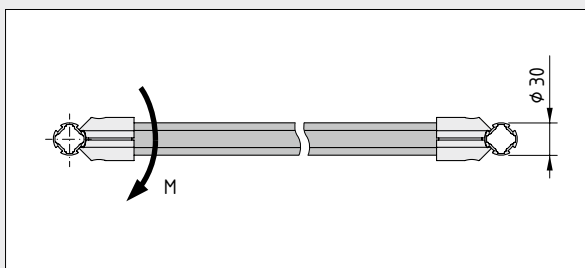
Fastener D30 is supplied preassembled, which saves time on assembly operations. Simply insert the Tube, position the Fastener and tighten. The connection is immediately secure, meaning that one person can build a frame independently.

Using the Anti-Torsion Blocks makes it even easier to combine the Fastener with Profile Tubes D30 and Profiles 6 D30. They ensure the Profiles are correctly aligned in the Fastener, making it easy to avoid assembly errors.

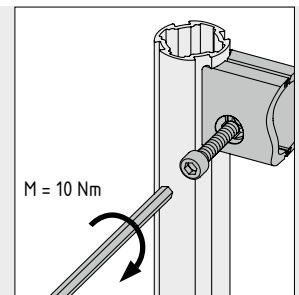
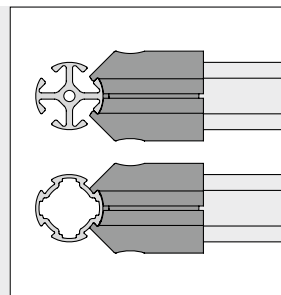


$$M_{\max} = 50 \text{ Nm}$$

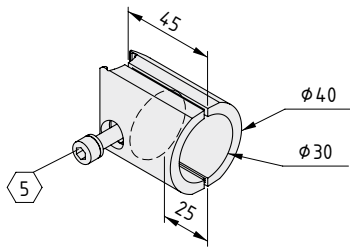
$$F_v = 500 \text{ N}$$



$$M_{\max} = 20 \text{ Nm}$$



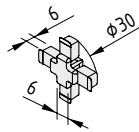
Tip:
Cap D30 R holds the nut in place in the Fastener when creating the screw connection. This makes assembly a great deal easier – even in awkward positions!



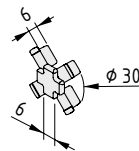
Fastener D30	
Preassembled 2 fastener halves, die-cast aluminium, natural Hexagon Socket Head Cap Screw M6x29.4, St, bright zinc-plated Hexagon nut DIN 934-M6-5, St, bright zinc-plated M = 10 Nm m = 105.0 g	
1 set	0.0.623.56



Cap D30 R	
PA-GF m = 0.3 g grey similar to RAL 7042, 1 pce.	
	0.0.624.11



Anti-Torsion Block 6 D30	
PA-GF m = 1.4 g grey similar to RAL 7042, 1 pce.	
	0.0.630.39



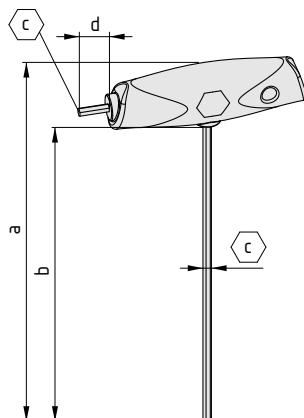
Anti-Torsion Block 6 D30-45°	
PA-GF m = 1.4 g grey similar to RAL 7042, 1 pce.	
	0.0.630.40



Key with T-Handle 5 A/F

One for all! A single tool is all you need to fit any of the fasteners in Profile Tube System D30. Key 5 A/F has one short and one long wrench, each made of high-quality chrome vanadium steel.

The ergonomic grip features an elastic TPE coating and ensures users can get a firm hold on the Key with no pressure points when working with it for extended periods.



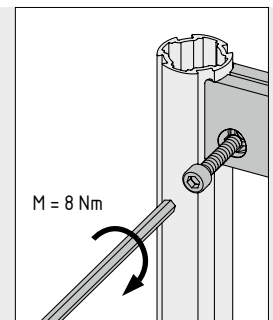
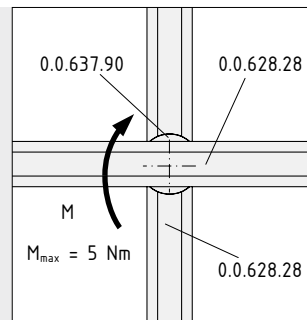
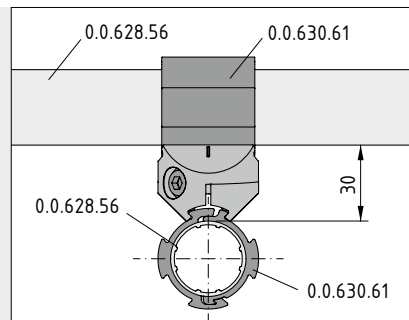
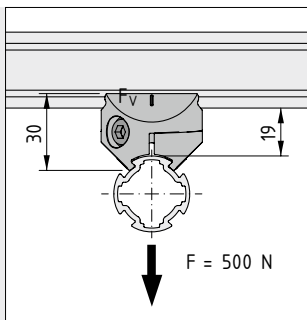
Key with T-Handle 5 A/F			
a [mm]	b [mm]	c [mm]	m [g]
230	195	5	91.0
1 pce.			0.0.026.29



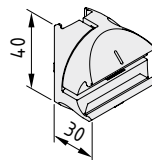
Transverse Fastener D30

- For right-angled, crossing connections
- Supplied preassembled to enable rapid installation
- A space-saving solution for boosting rigidity

A fastener with a firm grip. Transverse Fastener D30 connects two Profile Tubes at a 90° angle to each other. The two-part fastener enables users to connect together Profile Tubes without disassembly. Simply clamp the Transverse Fastener onto both Profile Tubes and then tighten it. The tightened fastener holds the Profile Tubes together and the mechanically locked connection provides added support for the load-carrying profile fastener.



Using Transverse Fastener D30 on two Tubes D30 with Tube Adapter D30. Profile Tubes D30 are connected with a gap of 19 mm. When using Tube Adapter D30, this gap increases by 5.5 mm on each side.



Transverse Fastener D30

2 fastener halves, die-cast aluminium, natural
Hexagon Socket Head Cap Screw DIN 912-M6x29.4, St, bright zinc-plated
Hexagon nut DIN 934-M6, St, bright zinc-plated
Compression spring, St, stainless
M = 10 Nm m = 65.3 g

1 set

0.0.637.90



Cap D30 R

PA-GF
m = 0.3 g
grey similar to RAL 7042, 1 pce.

0.0.624.11

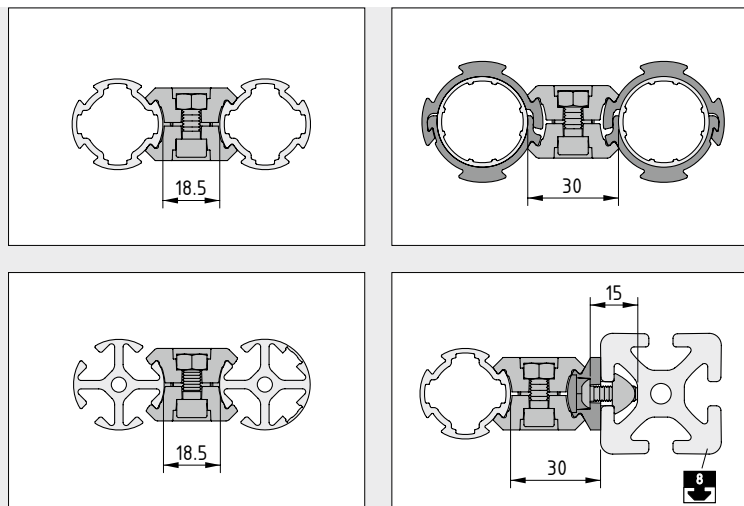


Parallel Fastener D30

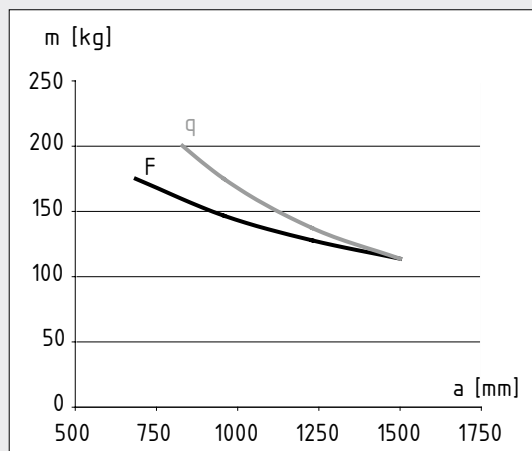
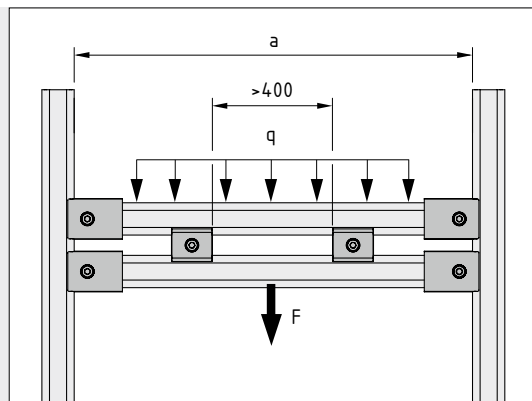
- Connects parallel profiles
- For reinforcing structures

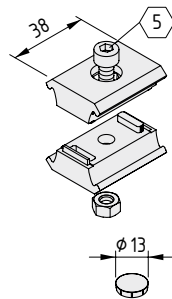
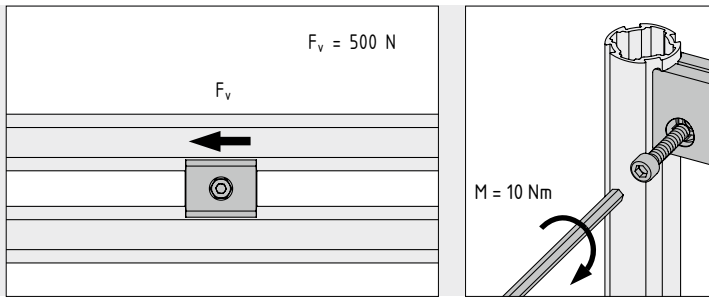
Connect together Profile Tubes D30 in parallel – the ideal solution for building strong structures that are especially resistant to bending. The Parallel Fastener is also suitable for connecting accessories and is used with Angle Fastener D30.

Caps D30 F are used to cover over the screw connection of the Fastener, making cleaning easy and ensuring your design looks its best.



Parallel Fastener D30 connects together Profile Tubes D30, Tubes D30 (with Tube Adapter D30), Profiles 6 D30 and Profiles 8 (with Adapter 8 D30).





Parallel Fastener D30

2 parallel fastener halves, die-cast aluminium, natural
Hexagon Socket Head Cap Screw DIN 912-M6x15, St, bright zinc-plated
Hexagon nut DIN 934-M6-5, St, bright zinc-plated
M = 10 Nm m = 53.0 g

1 set	0.0.629.94
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Cap D30 F

PA-GF
m = 0.2 g
grey similar to RAL 7042, 1 pce.

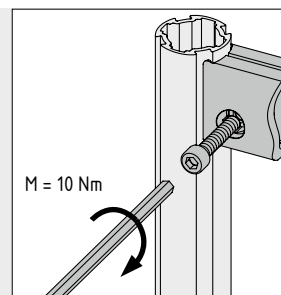
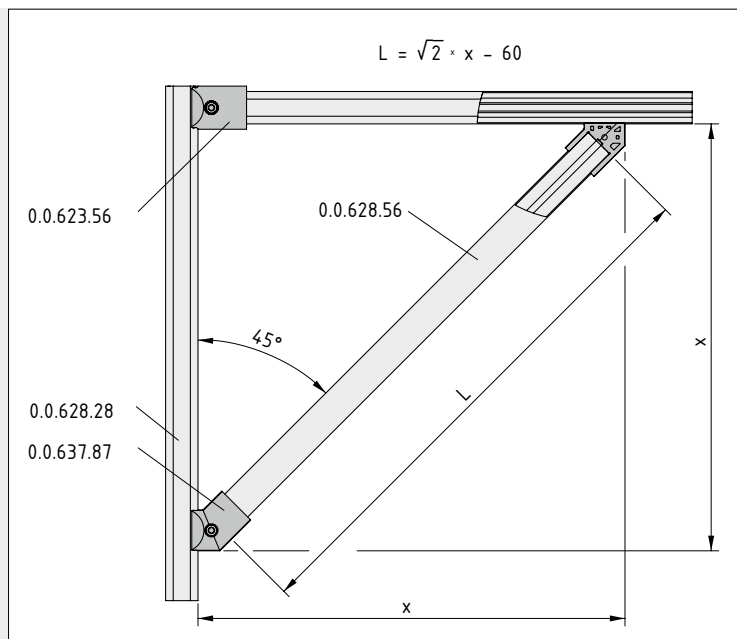
0.0.629.80

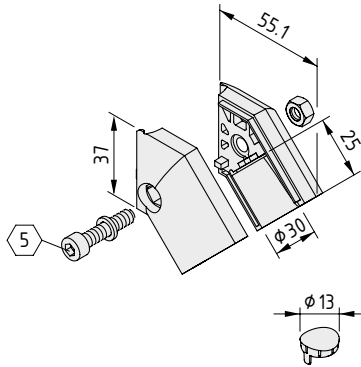


Fastener D30-45°

- A firm hold for diagonal struts
- Simple and accurate assembly with no profile machining

The fast 45° connection for Tubes, Profile Tubes and Profiles D30 – with tolerance compensation and potential equalisation built in.
Ideal for latticework structures and diagonal bars for absorbing torque, easy to fit and inexpensive.



**Fastener D30-45°**

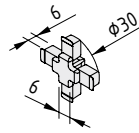
2 fastener halves, die-cast aluminium, natural
 Washer, St, bright zinc-plated
 Hexagon Socket Head Cap Screw DIN 912-M6x28, St, bright zinc-plated
 Hexagon nut DIN 934-M6, St, bright zinc-plated
 m = 102.0 g

1 set	0.0.637.87
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Cap D30 R

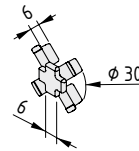
PA-GF
 m = 0.3 g

grey similar to RAL 7042, 1 pce.	0.0.624.11
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**Anti-Torsion Block 6 D30**

PA-GF
 m = 1.4 g

grey similar to RAL 7042, 1 pce.	0.0.630.39
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**Anti-Torsion Block 6 D30-45°**

PA-GF
 m = 1.4 g

grey similar to RAL 7042, 1 pce.	0.0.630.40
----------------------------------	------------

**Tip:**

Cap D30 R holds the nut in place in the Fastener when creating the screw connection. This makes assembly a great deal easier – even in awkward positions!

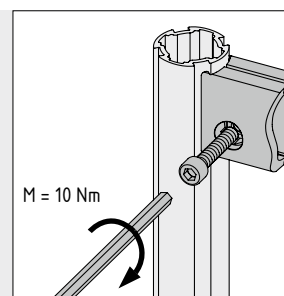
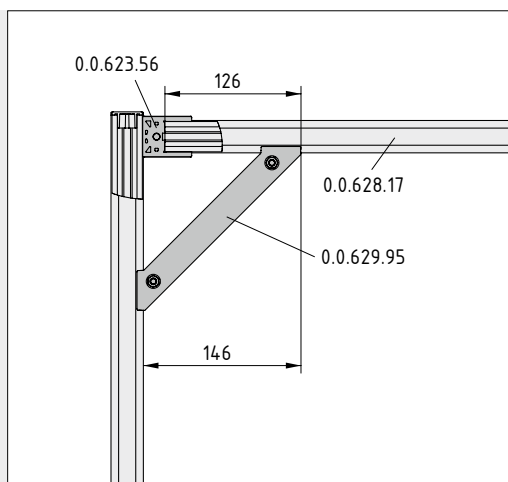
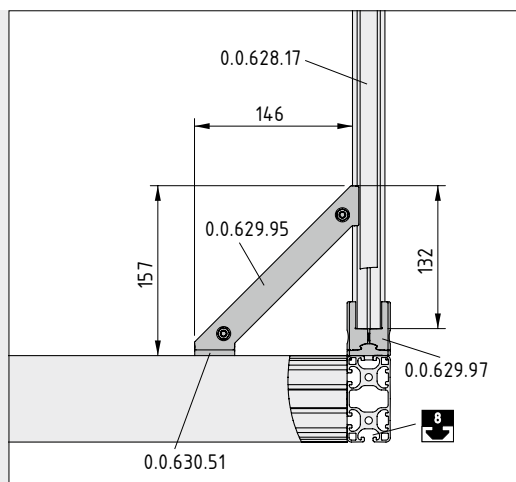


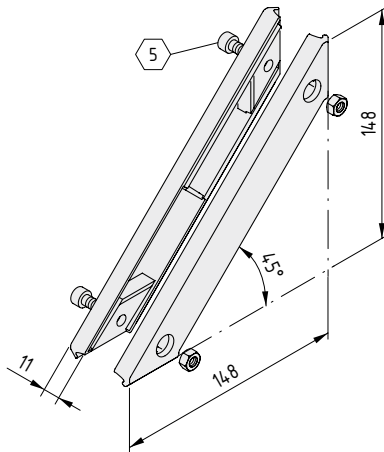
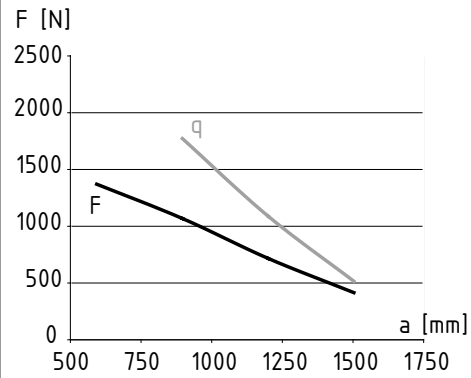
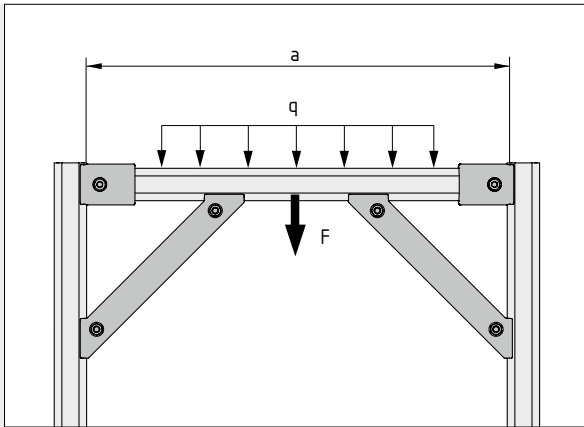
Bracing Strut D30-90°

- Reinforcement for load-bearing profiles
- Simple to retrofit

An enhancement for the 90° fastener when bending moments generate load stress. The Bracing Strut is also easy to retrofit, can be screwed into place quickly and provides effective support for the fastening point.

Caps D30 F are used to cover over the screw connection of the Bracing Strut, making cleaning easy and ensuring your design looks its best. Four Caps D30 F can be used for each Bracing Strut.





Bracing Strut D30-90°

2 bracing strut halves, die-cast aluminium, natural
 2 Hexagon Socket Head Cap Screws DIN 912-M6x15, St, bright zinc-plated
 2 hexagon nuts DIN 934-M6-5, St, bright zinc-plated
 m = 171.0 g

1 set

0.0.629.95



Cap D30 F

PA-GF
 m = 0.2 g

grey similar to RAL 7042, 1 pce.

0.0.629.80



Butt Fastener D30

- Space-saving, direct end-face connections
- Available in five different angles
- Ideal for building FIFO racks

Butt Fasteners connect together Tubes and Profiles end to end to create rounded corners, taper frames and extend profiles. The stable fasteners come in 30°, 45°, 60°, 90° and 180° angles. They are ideal for building FIFO racks with ergonomic goods removal points.

Butt Fastener D30-180° allows you to extend any Profiles D30. Butt Fastener D30-90° gives you the choice of two radii for gently shaped outer corners.

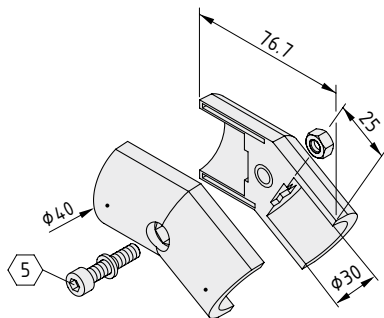
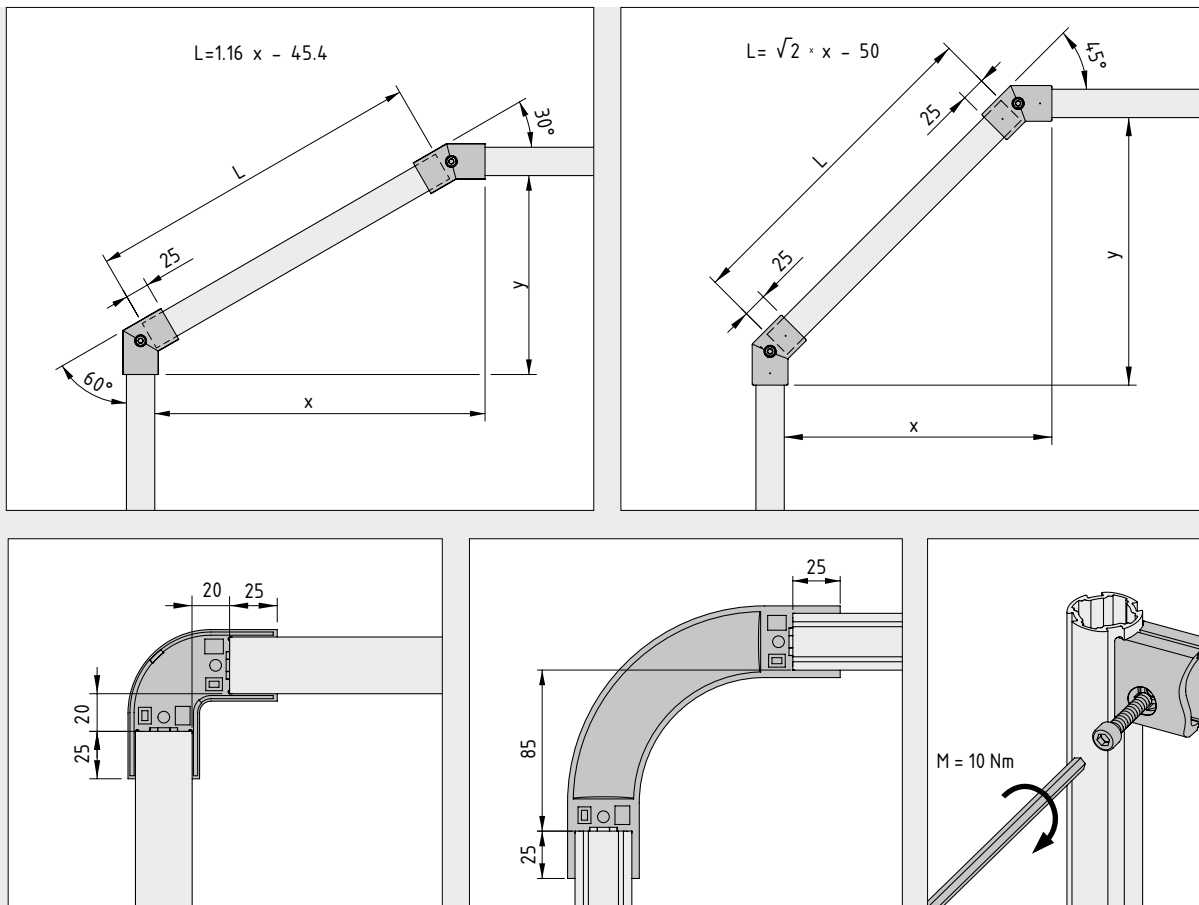
Note: Angle Fastener D30, Ball Joint Fastener D30 and Ball Joint Butt Fastener D30 can be used to build supporting struts and profile connections at any angle.



Butt Fastener D30-90° and Butt Fastener D30-90° R25 stop the strip curtains used in factories from becoming entangled in trolleys. The rounded edges ensure that the plastic strips simply slide off to the side. They reduce the risk of injury posed by the outside corners of a frame and prevent damage caused by trolleys being pushed through strip curtains or doors.

Due to the tight radius of Butt Fastener D30-90° R25, it is much more compact than Butt Fastener D30-90°. Consequently, it can be used to build much more compact structures.

When the end of the profile is not quite the end of the frame, it's time to use Butt Fastener D30-180°. This fastener connects Profiles D30 together end to end. This method of extension is suitable when seeking to increase the length of an existing frame. It can also join together two leftover sections of profile so that a new Profile Tube doesn't have to be used.

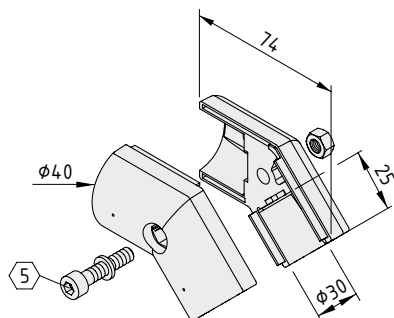


Butt Fastener D30-30°

2 butt fastener halves, die-cast aluminium, natural
Washer, St, bright zinc-plated
Hexagon Socket Head Cap Screw DIN 912-M6x28, St, bright zinc-plated
Hexagon nut DIN 934-M6, St, bright zinc-plated
M = 10 Nm m = 128.3 g

1 set

0.0.646.10

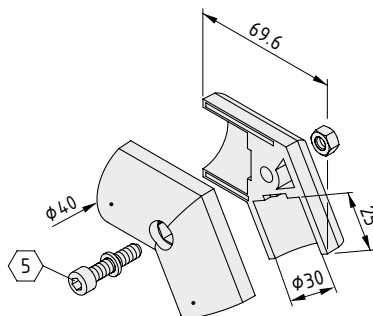


Butt Fastener D30-45°

2 butt fastener halves, die-cast aluminium, natural
Washer, St, bright zinc-plated
Hexagon Socket Head Cap Screw DIN 912-M6x28, St, bright zinc-plated
Hexagon nut DIN 934-M6, St, bright zinc-plated
M = 10 Nm m = 131.0 g

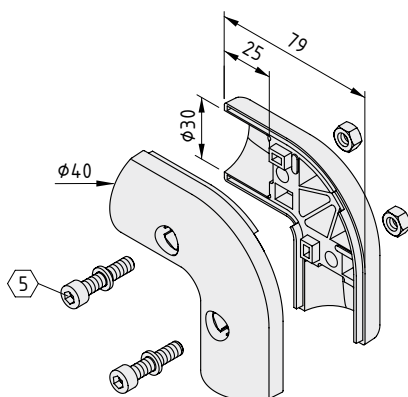
1 set

0.0.662.15

**Butt Fastener D30-60°**

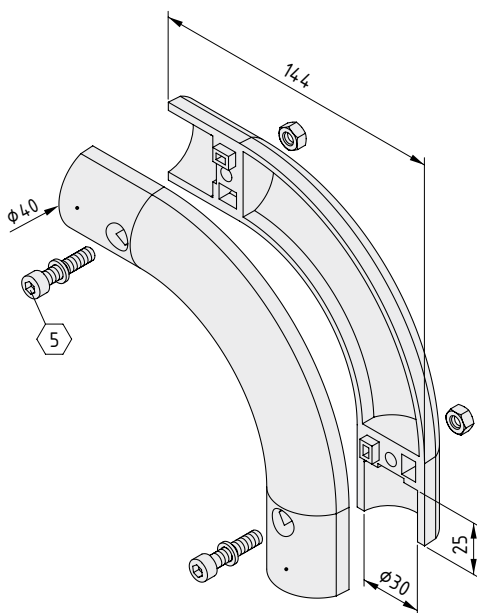
2 butt fastener halves, die-cast aluminium, natural
 Washer, St, bright zinc-plated
 Hexagon Socket Head Cap Screw DIN 912-M6x28, St, bright zinc-plated
 Hexagon nut DIN 934-M6, St, bright zinc-plated
 M = 10 Nm m = 128.8 g

1 set	0.0.646.94
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**Butt Fastener D30-90° R25**

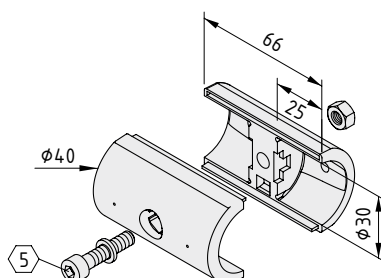
2 butt fastener halves, die-cast aluminium, natural
 2 washers, St, bright zinc-plated
 2 Hexagon Socket Head Cap Screws DIN 912-M6x28, St, bright zinc-plated
 2 hexagon nuts DIN 934-M6, St, bright zinc-plated
 m = 218.0 g

1 set	0.0.662.12
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**Butt Fastener D30-90°**

2 butt fastener halves, die-cast aluminium, natural
 2 washers, St, bright zinc-plated
 2 Hexagon Socket Head Cap Screws DIN 912-M6x28, St, bright zinc-plated
 2 hexagon nuts DIN 934-M6, St, bright zinc-plated
 M = 10 Nm m = 240.0 g

1 set	0.0.647.02
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**Butt Fastener D30-180°**

2 butt fastener halves, die-cast aluminium, natural
 Washer, St, bright zinc-plated
 Hexagon Socket Head Cap Screw DIN 912-M6x28, St, bright zinc-plated
 Hexagon nut DIN 934-M6, St, bright zinc-plated
 M = 10 Nm m = 119.0 g

1 set	0.0.662.05
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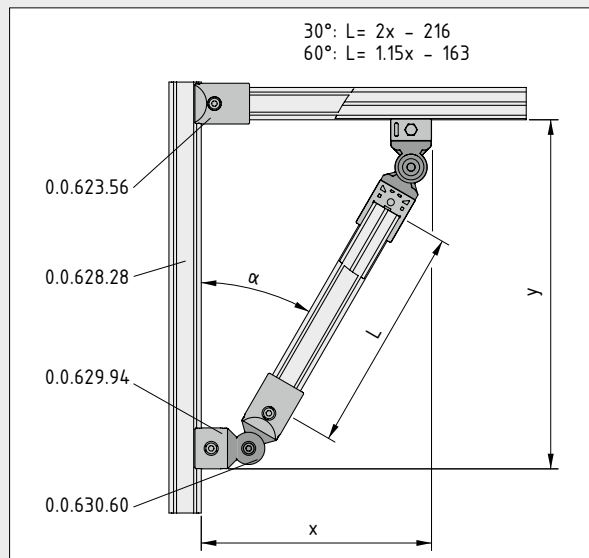
Angle Fastener D30

- Connects Tubes and Profiles D30 at any adjustable angle
- Wide range of design options when combined with other fasteners

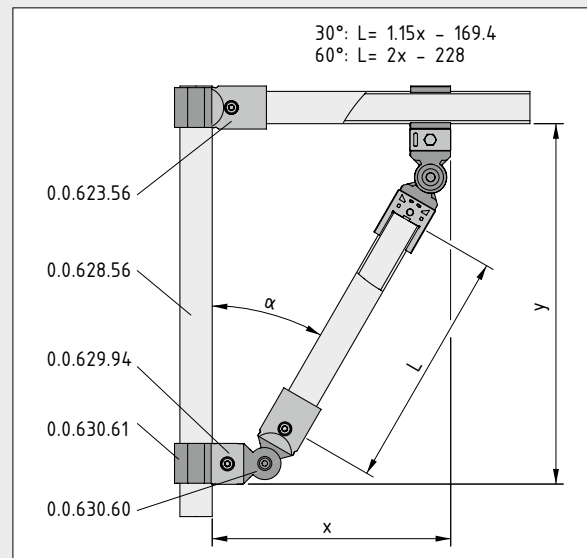
Connects Profiles and Tubes D30 at any angle in the form of either butt or side connections. That is the strength of Angle Fastener D30. Its fastening surface matches the contour of Profiles D30, making it a universal fastener. As a result, it can be combined with Fastener D30 or Parallel Fastener D30 to create whichever connection is required.

Caps D30 F are used to cover over the screw connection of the fastener, making cleaning easy and ensuring your design looks its best. Two Caps D30 F can be used for each Angle Fastener D30.

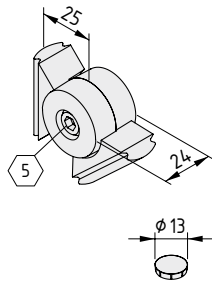
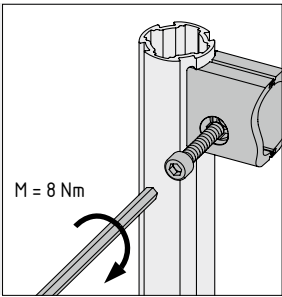
Profile Tube D30



Tube D30 with Tube Adapter



The length of connecting profile L is determined by the fastening elements that are used.



Angle Fastener D30

2 angle fastener halves, die-cast aluminium, natural	
Angle fastener screw, St, bright zinc-plated	
Angle fastener nut, St, bright zinc-plated	
M = 10 Nm m = 66.0 g	
1 pce.	0.0.630.60

Cap D30 F

PA-GF	
m = 0.2 g	
grey similar to RAL 7042, 1 pce.	0.0.629.80



Ball Joint Fastener D30

Ball Joint Butt Fastener D30

- For fastening at any angle
- For side or end-face connection

Turning on a pin. Ball Joint Fasteners are used to install struts at any angle in the flick of a wrist. A stable integral ball in the fastener produces this versatility. It enables users to twist and turn the fastener to the desired angle and fix it in place with a single screw.

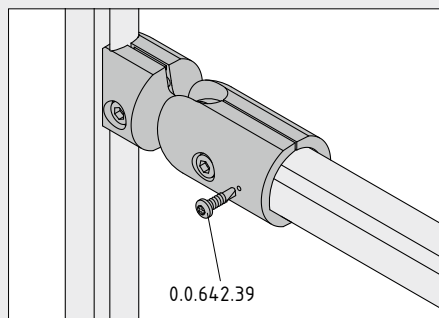
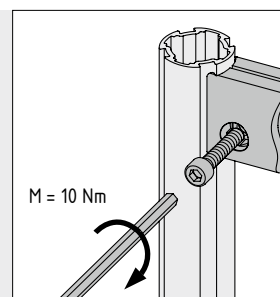
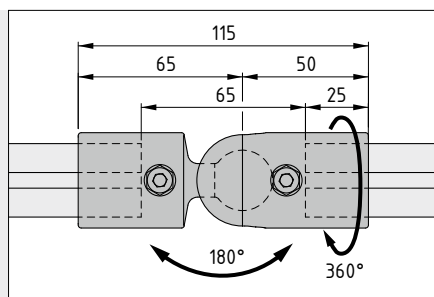
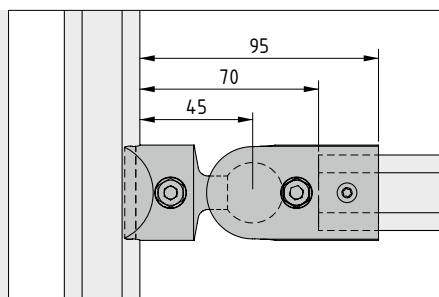
The Ball Joint Fasteners can be turned through 180° in all directions. As a result, they are ideal for fastenings in any spatial arrangement.

Ball Joint Fastener 8 D30 incorporates a flange plate that enables connection to a Line 8 Profile.

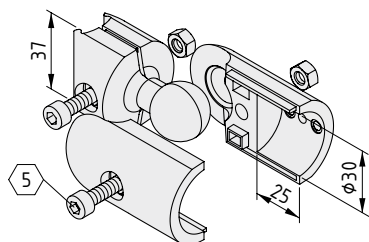


Perfect for custom transport trolleys! Ball Joint Butt Fastener D30 connects the end faces of two Profiles D30 at any angle. Thanks to the stable internal ball, users can twist and turn the fastener 180° to the desired position and fix it in place with a single screw.



**Tip:**

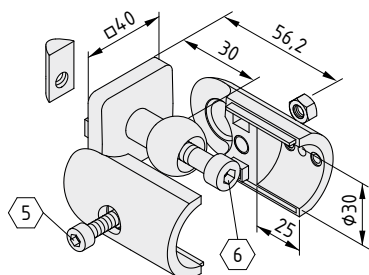
A self-tapping screw, which is available as an optional accessory, can be screwed into the fastener half to provide additional hold.

**Ball Joint Fastener D30**

2 ball joint fastener ball halves, die-cast aluminium, natural
 2 ball joint fastener socket halves, die-cast aluminium, natural
 2 Hexagon Socket Head Cap Screws DIN 912-M6x28, St, bright zinc-plated
 2 washers, St, bright zinc-plated
 2 hexagon nuts DIN 934-M6, St, bright zinc-plated
 m = 205.0 g

1 set

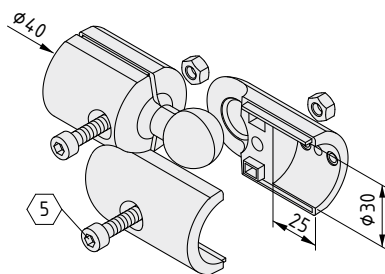
0.0.646.85

**Ball Joint Fastener 8 D30**

Ball 40x40, die-cast aluminium
 2 ball joint fastener socket halves, die-cast aluminium
 Hexagon Socket Head Cap Screw DIN 912-M6x28, St, bright zinc-plated
 Hexagon Socket Head Cap Screw DIN 912-M8x40, St, bright zinc-plated
 Washer, St, bright zinc-plated
 Hexagon nut DIN 934-M6, St, bright zinc-plated
 T-Slot Nut 8 St M8, bright zinc-plated
 M = 10 Nm m = 190.0 g

1 set

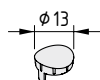
0.0.650.98

**Ball Joint Butt Fastener D30**

2 ball joint fastener halves, ball head with profil fixture, die-cast aluminium, natural
 2 ball joint fastener socket halves, die-cast aluminium, natural
 2 Hexagon Socket Head Cap Screws DIN 912-M6x28, St, bright zinc-plated
 2 washers, St, bright zinc-plated
 2 hexagon nuts DIN 934-M6, St, bright zinc-plated
 M = 10 Nm m = 219.0 g

1 set

0.0.671.72

**Cap D30 R**

PA-GF

m = 0.3 g

grey similar to RAL 7042, 1 pce.

0.0.624.11



Tube Adapter D30

- Adds the full four-sided profile contour to a Tube D30
- For connecting accessories and fasteners
- Cap for elegant finishing touch

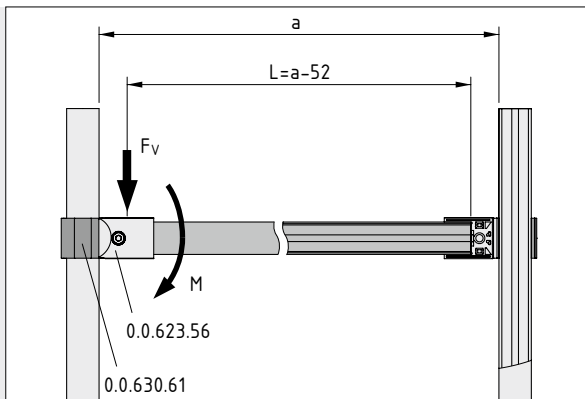
The Tube Adapter turns a smooth Tube D30 into a Profile Tube! Simply fit it around the Tube and you're ready to fit a D30 fastener. The Fastener clamps the Tube Adapter, creating exceptional torsion and slip protection.

Suitable for connecting up to four Fasteners to a single Tube at the same height.

The optional Cap securely covers any connection points on the Tube Adapter D30 that are not required. Up to three Caps can be fitted to each Tube Adapter D30.

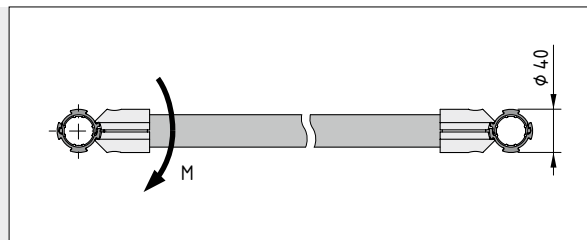


Tube Adapter D30 also allows connections to be made to Profiles 6 D30 at any angle.

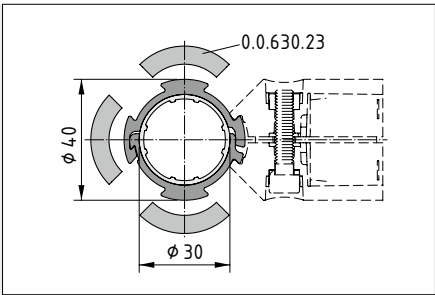


$$M_{\max} = 50 \text{ Nm}$$

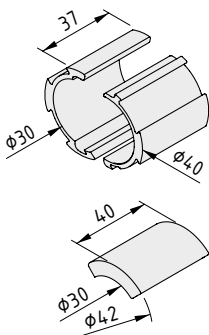
$$F_v = 500 \text{ N}$$



$$M_{\max} = 20 \text{ Nm}$$



A Fastener D30 clamps Tube Adapter D30 on the Tube. Up to 4 fastening elements can be connected to one Tube Adapter D30.



Tube Adapter D30		
Tube collar, inside, Al, natural		
Tube collar, outside, Al, natural		
m = 33.0 g		
1 set		0.0.630.61

Tube Adapter Cap D30		
PA-GF		
m = 3.1 g		
grey similar to RAL 7042, 1 pce.		0.0.630.23



End Connector 8 D30-90°

- For a right-angled connection to profiles with a Line 8 groove

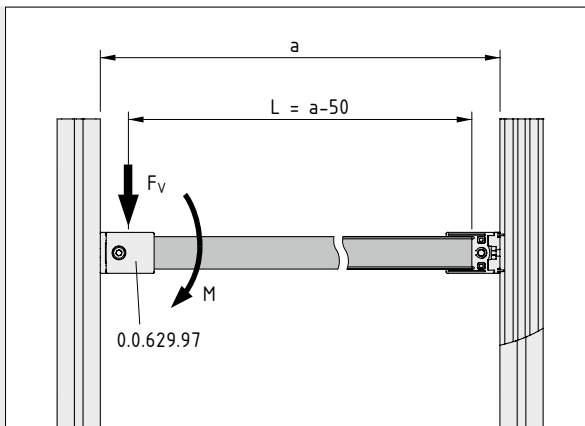
When a flexible structure made from Line D30 tubes and profiles is to be fitted to a stable and exceptionally strong substructure constructed using Line 8 Profiles, the End Connector 8 D30-90° provides the ideal solution.

The base plate is screwed to the Profile 8 groove and secured to prevent it twisting. The clamping jaws encompass Tubes D30 and Profiles D30. Breaking off the anti-torsion features allows End Connector 8 D30-90° to be fitted at any angle of rotation.

Caps D30 R cover over the screw connection of End Connector 8 D30-90°, making cleaning easy and ensuring your design looks its best.

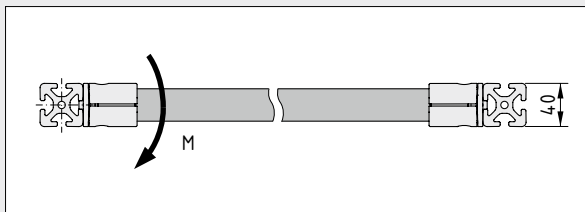
Two Caps D30 R can be used for each End Connector 8 D30-90°.

Anti-Torsion Blocks 6 D30 ensure that Profiles D30 and Profile Tubes D30 are correctly aligned in End Connector 8 D30-90°.

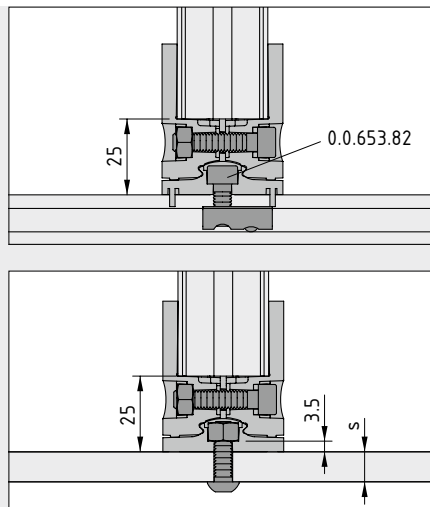


$$M_{\max} = 50 \text{ Nm}$$

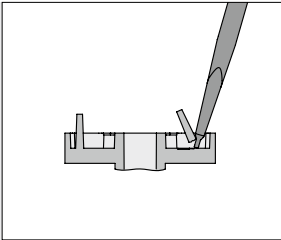
$$F_v = 500 \text{ N}$$



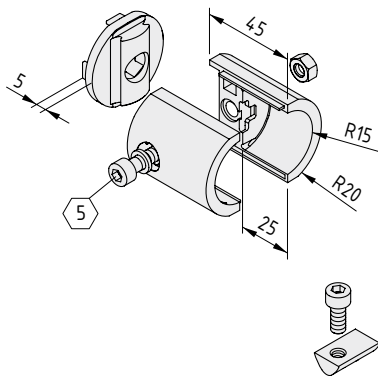
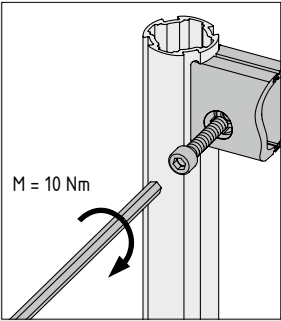
$$M_{\max} = 50 \text{ Nm}$$



When using End Connector 8 D30-90° on a component with a smooth, unbroken surface, all four tabs of the integrated anti-torsion features on the connector adapter must be removed. An M6 nut can be inserted into the connection adapter to create a screw connection.



Use a slotted screwdriver to break off the anti-torsion features.



End Connector 8 D30-90°

2 connector halves, die-cast aluminium, natural
Connector 8 D30-90° adapter, die-cast aluminium, natural
Hexagon Socket Head Cap Screw DIN 912-M6x28, St, bright zinc-plated
Hexagon nut DIN 934-M6-5, St, bright zinc-plated
Washer, St, bright zinc-plated
M = 10 Nm m = 115.0 g

1 set 0.0.629.97



Fastening Set 8 D30

Hexagon Socket Head Cap Screw DIN 912-M6x14, St, bright zinc-plated
T-Slot Nut 8 St M6, bright zinc-plated
m = 16.0 g

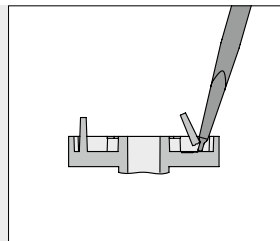
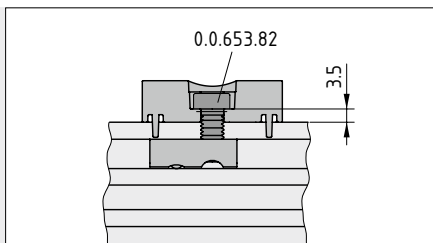
1 set 0.0.653.82



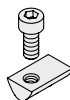
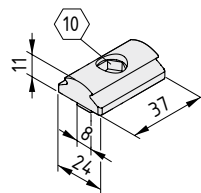
Adapter 8 D30

- Space-saving solution for adding the contour of a Profile Tube D30 to a Line 8 profile
- Also suitable for fixing to panel elements

A universal interface for Line D30. By creating a connecting contour, Adapter 8 D30 allows you to connect fastening elements to Profile 8 grooves or any flat surface. Production tolerances are easily balanced out. Consequently, attaching a structure made using Line D30 couldn't be easier.



Use a slotted screwdriver to break off the anti-torsion features.



Adapter 8 D30

Die-cast Al
m = 17.7 g

1 pce.

0.0.630.51

Fastening Set 8 D30

Hexagon Socket Head Cap Screw DIN 912-M6x14, St, bright zinc-plated
T-Slot Nut 8 St M6, bright zinc-plated
m = 16.0 g

1 set

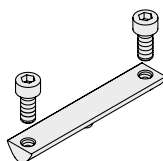
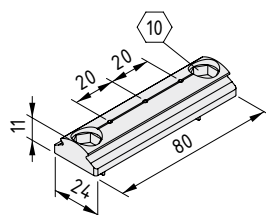
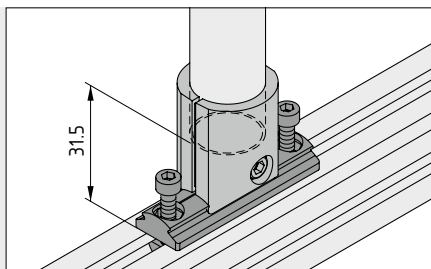
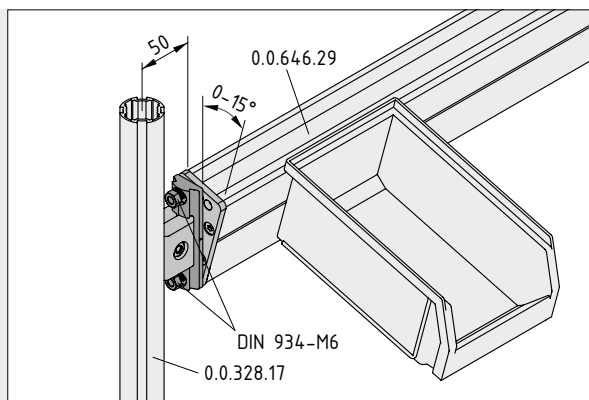
0.0.653.82



Adapter 8 80 D30

- The heavy-duty connection to Line 8 profiles
- Creates fastening points for Fastener D30
- For retrofitting struts

This Adapter has just one goal – to make it as easy as possible to connect Fasteners D30 to Line 8 profile grooves. Adapter 8 80 D30 enables users to add one or two D30 struts to a profile frame for extra rigidity. If only one Fastener D30 is connected, Adapter 8 80 D30 provides an added advantage: The connection can be readjusted whenever necessary. It's the lean approach to ensuring attachments (e.g. a Container Support) can be easily adjusted!



Adapter 8 80 D30

Die-cast Al
m = 50.0 g

1 pce.

0.0.653.24

Fastening Set 80 D30

T-Slot Nut 8 St 2x M6-76, bright zinc-plated
2 Hexagon Socket Head Cap Screws DIN 912-M6x14, St, bright zinc-plated
m = 35.0 g

1 set

0.0.653.06



Adapter 6 30x30/D30

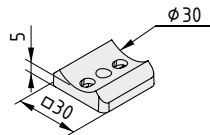
- A level screw-fit surface on a Profile 6 D30
- Ideal for mounting hinges



When you need to fit a square component to a cylindrical profile, Adapter 6 30x30/D30 is the answer. Simply screw it to a Profile 6 D30 to produce a level surface for securely connecting accessories with a flat surface.

The Adapter utilises the groove in Profile 6 D30, allowing users to connect panel elements and components from the MB Building Kit System with a screw and a T-Slot Nut M6. The universal anti-torsion features on the flat side provide additional hold, which means that a hinge or Keyboard Arm can be securely attached to a Profile 6 D30 at a right angle.

Note: If using Automatic Fasteners and the Adapter to connect the end face of a Line 6 profile to a Profile 6 D30, remember to factor in the 5 mm thickness of the Adapter when selecting screws.



Adapter 6 30x30/D30

Die-cast Al
m = 11.0 g

natural, 1 pce.



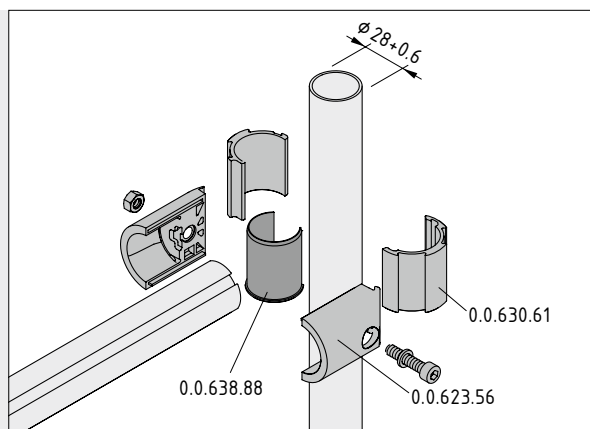
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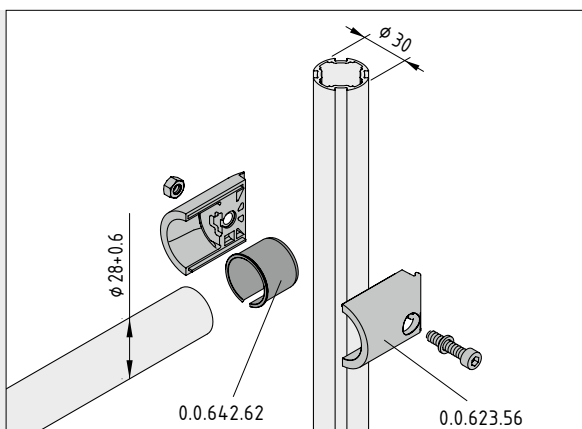
Adapter D30/D28

- For connecting steel tubes with a diameter of 28 mm to Profile Tube System D30

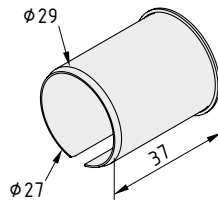
Backed the wrong horse? We have something that might just help: Using Adapter D30/D28, you can now easily connect an existing steel structure built using tube systems with a diameter of 28 mm to the aluminium components of Profile Tube System D30.



Thanks to Adapter D30/D28-37, it couldn't be easier to make the transition to a whole new dimension. Simply attach the Adapter to the tube (Ø 28 mm), place a Tube Adapter D30 over it and the way is clear for extending your old structure using the innovative Line D30.

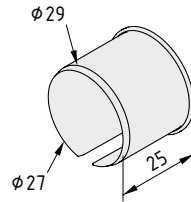


To connect an existing Tube D28 to an item Profile Tube D30, simply insert Adapter D30/D28-25 into an item Fastener D30 and the connection will hold!

**Adapter D30/D28-37**PA-GF
m = 3.0 g

grey similar to RAL 7042, 1 pce.

0.0.638.88

**Adapter D30/D28-25**PA-GF
m = 2.5 g

grey similar to RAL 7042, 1 pce.

0.0.642.62



Tube Holder D30

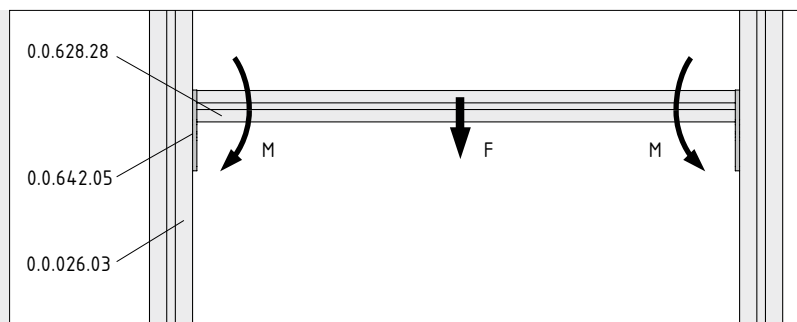
- Connects Profiles D30 with frames made using the MB Building Kit System
- Full length of profile can still be used
- Enables space-saving fastening options for roller conveyors



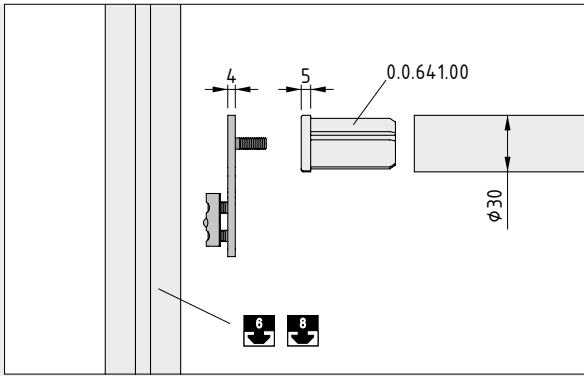
A stable connection. A strong, space-saving solution for fastening a (Profile) Tube D30 between two profiles from the item MB Building Kit System. Tube Holder D30 is available in two designs for screwing Tubes directly to Profile 6 or Profile 8 grooves.

An M6 screw makes the connection with (Profile) Tube D30:

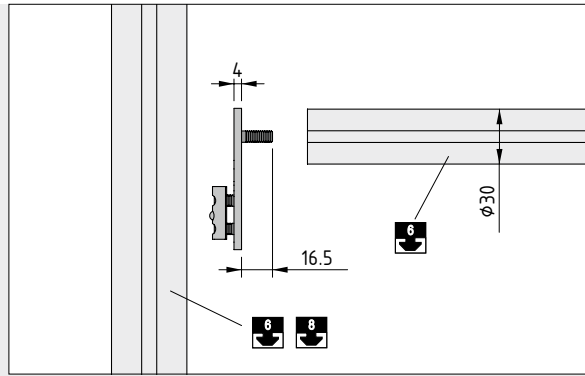
- Using Threaded Insert D30 M6 in Tube/Profile Tube D30
- Via a direct screw connection with an M6 thread in the core bore of Profiles 6 D30



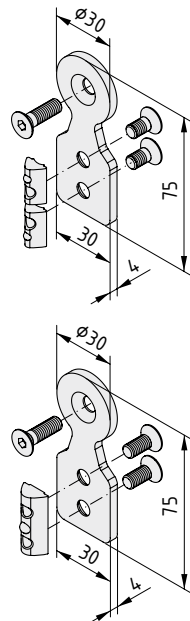
$$M_{\max} = 20 \text{ Nm}$$



When using Tube D30 (0.0.628.56) or Profile Tube D30 (0.0.628.28), the M6 thread is provided by Threaded Insert D30 M6 (0.0.641.00).



When using Profile 6 D30, an M6 thread is cut directly into the core bore.



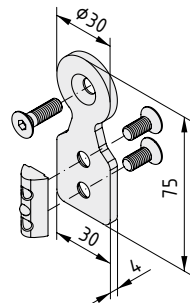
Tube Holder 6 D30



Bracket D30 flat, St, bright zinc-plated
2 T-Slot Nuts 6 St M6, bright zinc-plated
2 Countersunk Screws DIN 7991-M6x12, St, bright zinc-plated
Countersunk Screw DIN 7991-M6x20, St, bright zinc-plated
m = 69.0 g

1 set

0.0.642.23



Tube Holder 8 D30



Bracket D30, St, bright zinc-plated
T-Slot Nut F 8 St M6, bright zinc-plated
2 Countersunk Screws DIN 7991 M6x14, St, bright zinc-plated
Countersunk Screw DIN 7991-M6x20, St, bright zinc-plated
m = 71.0 g

1 set

0.0.642.05



Fastening elements.

Keep a firm hold on what really matters! Fastening elements connect frames to working surfaces, panelling and accessories such as Knuckle Feet, Tool Holders, Label Backplates and cable guides.

The versatile fastening elements in the Lean Production Building Kit System give you the flexibility you need to custom design your factory equipment. For example, you can close up gaps or engineer benches with the desired working surface. item fastening elements give you full freedom when it comes to choosing materials.

Your requirements are also the deciding factor for everything when it comes to configuring production equipment and adding functional elements. Threaded Inserts in

various sizes make it easy to build in the Adjustable Feet, Castors and other accessories that you want. What's more, you can also make use of the comprehensive range of hooks and holders in the item Work Bench System. Label Backplates, meanwhile, show you where everything is at a glance. Whether a label is attached directly to the profile or a card hanging over the storage compartment – you decide what suits your working environment better.

Cables and lines are safely stowed in Cable Guide Profile D30, which features two chambers and is easy to clip into place.

Fastening technology: Products in this section.



Threaded Insert D30

- For securing Adjustable Feet and attachments
- Various thread sizes available

📄 54



Multiblock D30

- Stable aluminium fixing for panels and attachments
- Can be fastened from three directions

📄 58



Panel-Fixing Profile D30 3-5mm

- Plastic lips hold the panel element
- No profile machining necessary

📄 60



Panel Fastener D30

- For screw-attaching panel elements
- Enables simple height compensation

📄 61



Tube Clamp D30

- For lightweight attachments
- Plastic clasp ensures gentle hold

📄 62



Table-Top Fastening Set D30

- For screw-attaching panels
- Table top lies over the struts

📄 63



Table-Top Fastening Bracket D30

- For suspending panels of any thickness
- Table top lies between the struts

📄 64



Table-Top Side Fastening Bracket D30

- Reduces deflection in shelves and table tops
- Additional support for large and thin panels

📄 65



Spring Clip D30/30-32

- Stainless steel clip
- Simple release via pulling motion
- Suitable as a temporary fastening

📄 66



Bracket D30

- Fasten Tubes to crossing profiles with a Line 8 or 6 groove
- Ideal for supporting roller conveyors

📄 67



Hook and Holder Adapter D30

- For fastening parts from the comprehensive hook and holder range of the item Work Bench System

📄 68



Label Hanger D30-100

- Suspends Label Backplates under the tube
- Can be used for labels up to 2000 mm wide

📄 69



Label Holder D30

- Transparent holder for labels
- Two variants: Labels mounted directly on the tube or in a pocket underneath it

📄 71



Cable Guide Profile D30

- Cable conduit with two chambers
- Clips into place, no need for screw fixings
- Easy to machine

📄 73



Universal Holder D30

- Fit cables and lines in no time
- Bracket for cable ties
- Holds without any drilling

📄 74



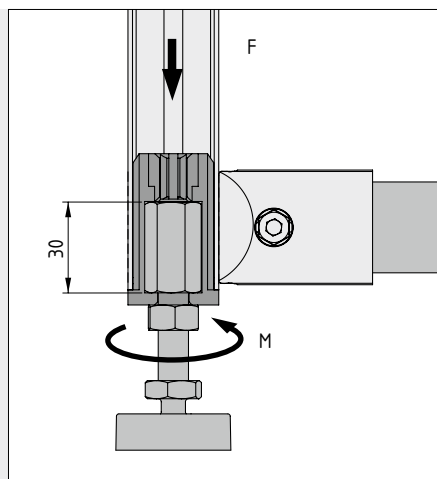
Threaded Inserts D30

- End-face Insert for Tubes and Profile Tubes
- Various thread sizes available
- For securing Adjustable Feet, Castors and attachments

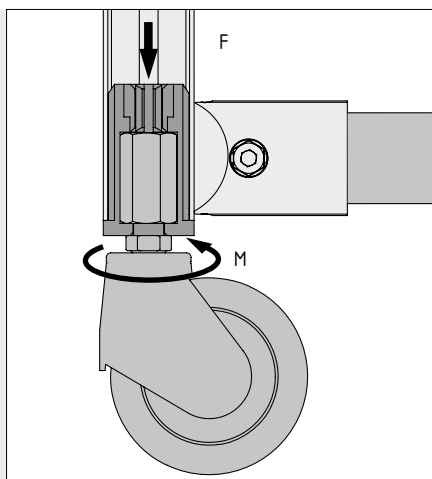


The universal fastener for all parts that are to be fitted to the ends of Tubes or Profile Tubes D30. Available in thread sizes M6, M8 and M10 and also with ESD protection.

Furthermore, Threaded Inserts offer a simple means of attaching Tubes and Profile Tubes D30 to Panels, Flat Brackets and any other structure.



$F_{\max} < 2000 \text{ N}$



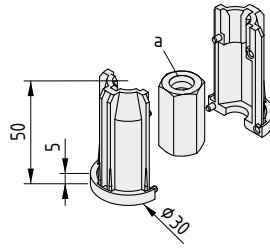
$F_{\max} = 500 \text{ N}$

Permissible tightening torque

a	M_{\max}
M6	12 Nm
M8	16 Nm
M10	20 Nm



Tip:
Use screw fixing agent to secure Swivel Castors.

**Threaded Insert D30 M6**

2 threaded insert halves D30, PA-GF
 Hexagon nut M6x30, St, bright zinc-plated
 a = M6 m = 55.0 g

grey similar to RAL 7042, 1 set

0.0.641.00

Threaded Insert D30 M6 ESD

2 threaded insert halves D30, PA-GF, electrostatically dissipative
 Hexagon nut M6x30, St, bright zinc-plated
 a = M6 m = 55.0 g

black, 1 set

0.0.640.99

Threaded Insert D30 M8

2 threaded insert halves D30, PA-GF
 Hexagon nut M8x30, St, bright zinc-plated
 a = M8 m = 51.0 g

grey similar to RAL 7042, 1 set

0.0.640.96

Threaded Insert D30 M8 ESD

2 threaded insert halves D30, PA-GF, electrostatically dissipative
 Hexagon nut M8x30, St, bright zinc-plated
 a = M8 m = 51.0 g

black, 1 set

0.0.640.98

Threaded Insert D30 M10

2 threaded insert halves D30, PA-GF
 Hexagon nut M10x30, St, bright zinc-plated
 a = M10 m = 50.0 g

grey similar to RAL 7042, 1 set

0.0.634.36

Threaded Insert D30 M10 ESD

2 threaded insert halves D30, PA-GF, electrostatically dissipative
 Hexagon nut M10x30, St, bright zinc-plated
 a = M10 m = 50.0 g

black, 1 set

0.0.640.82



Threaded Inserts, Profile Tube D30 heavy duty

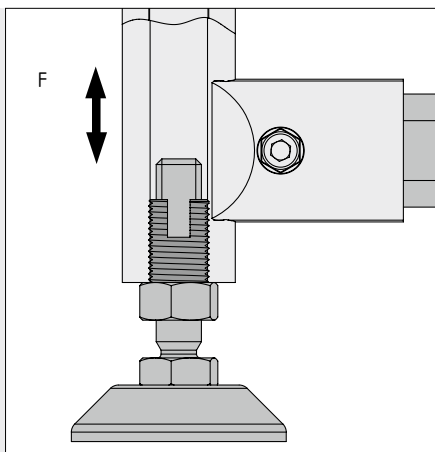
- Especially strong Inserts for Profile Tube D30 heavy duty

The combination for a particularly strong hold! When combined with reinforced Profile Tube D30 heavy duty, these Threaded Inserts can accommodate extremely high compressive and tensile loading. The self-tapping Inserts are available for M8, M10 and M12 threads. Loads up to 20,000 N pose no problems.

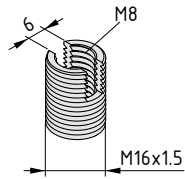
The Threaded Inserts can be used to screw all sorts of attachments into the end face of Profile D30 heavy duty. They are typically used for Adjustable Feet and Castors.

The Threaded Insert is fastened in Profile Tube D30 heavy duty without any preliminary machining. Simply insert it into the end face and use the screw and nut to drive it in.

The self-tapping male thread creates a mechanically locked connection with the core of the profile when driven into place.



$$F_{\max} = 20,000 \text{ N}$$

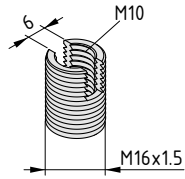
**Threaded Insert, Profile Tube D30 heavy duty M8**

St

m = 18.6 g

bright zinc-plated, 1 pce.

0.0.672.18

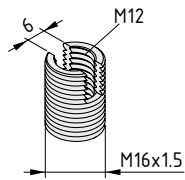
**Threaded Insert, Profile Tube D30 heavy duty M10**

St

m = 15.4 g

bright zinc-plated, 1 pce.

0.0.672.19

**Threaded Insert, Profile Tube D30 heavy duty M12**

St

m = 11.2 g

bright zinc-plated, 1 pce.

0.0.648.64



Multiblock D30

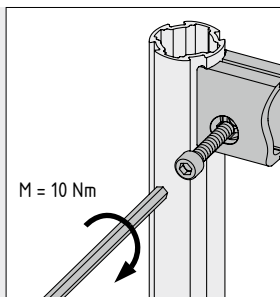
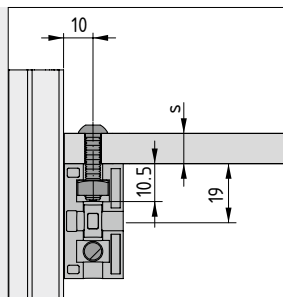
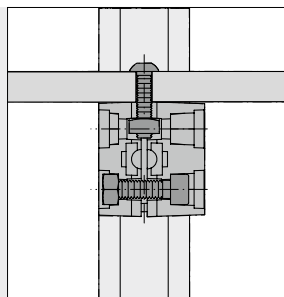
- Versatile fixing for panels and attachments
- Stable hold on the contour of the Profile Tube

The heavy-duty, universal fastening point on Tubes, Profile Tubes and Profiles 6 D30 – the aluminium Multiblock. It offers a stable connection point for panels or mounting plates, non-system components and functional elements that have been developed in house. Attachments can be screw-connected in all three planes.

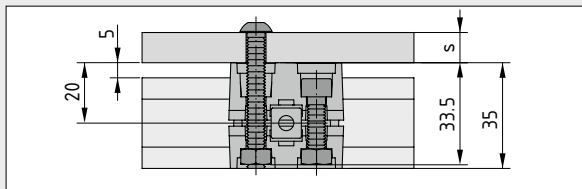
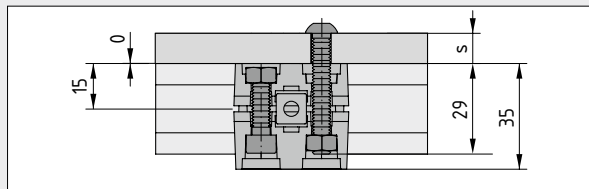
As the two halves of Multiblock D30 are different sizes, attachments can be fastened at a tangent to the profile groove or Fastener on different levels.

Multiblock D30 is screwed to the contour of Profile Tubes and Profiles 6 D30. Tube Adapter D30 is required to connect the fastener to a Tube D30.

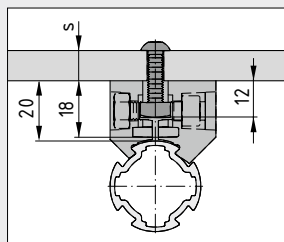
Caps D30 F cover over the screw connection of Multiblock D30, making cleaning easy and ensuring your design looks its best. Up to four can be used.



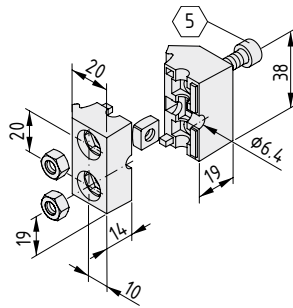
1. Fastening a panel to a vertical profile



2. Fastening a panel along the length of a profile, clearance 0 and 5 mm



3. Fastening a panel along the length of a profile, clearance 20 mm

**Multiblock D30**

Multiblock D30 half M6 K, die-cast aluminium, natural
 Multiblock D30 half M6 G, die-cast aluminium, natural
 Square nut DIN 557-M6-5, St, bright zinc-plated
 2 hexagon nuts DIN 934-M6-5, St, bright zinc-plated
 Hexagon Socket Head Cap Screw DIN 912-M6x22, St, bright zinc-plated
 m = 71.5 g

1 set

0.0.629.96

**Cap D30 F**

PA-GF
 m = 0.2 g

grey similar to RAL 7042, 1 pce.

0.0.629.80

**Tip:**

Two thin Multiblock halves can also be used together, e.g. when working in a particularly tight space.



Panel-Fixing Profile D30 3-5mm

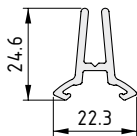
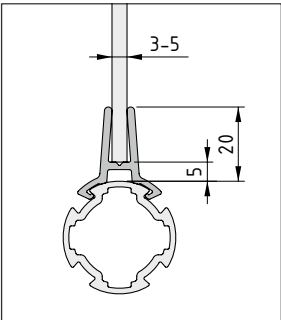
- Machining-free panel fastening

The quickest way to fasten a panel. The Panel-Fixing Profile is pushed onto a Profile Tube D30 and a panel element that is between 3 and 5 mm thick is slotted into it. Job done!

Fitting these profiles around all the edges of the panel produces the necessary holding force. And the all-round, virtually sealed fastening also provides added protection from splashes and dirt. The Panel-Fixing Profile stops the panel element coming into direct contact with the support profile, which helps reduce noise levels.

The Panel-Fixing Profile can be easily cut to size using the item Multi-Purpose Pliers.

The black colouring of the plastic shows that the product has an electrostatically dissipative (ESD) design.



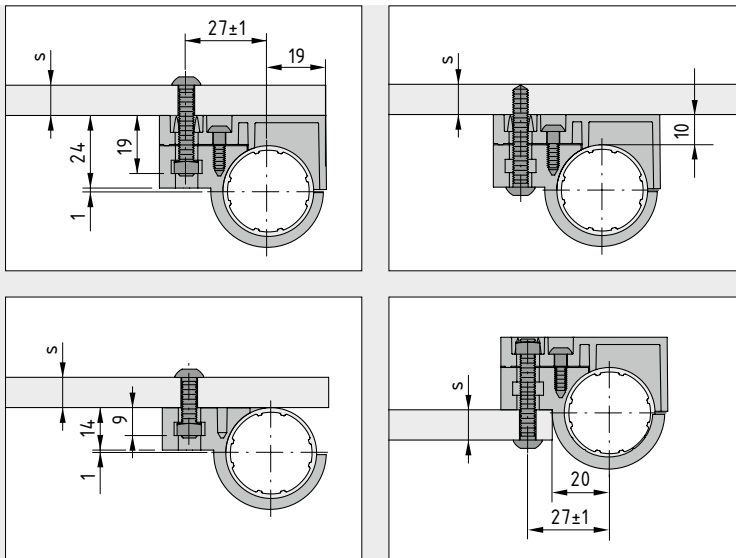
Panel-Fixing Profile D30 3-5mm		
PP		
m = 90.0 g/m		
grey, 1 pce., length 3000 mm		0.0.649.29
Panel-Fixing Profile D30 3-5mm ESD		
PP		
m = 90.0 g/m		
black, 1 pce., length 3000 mm		0.0.652.81



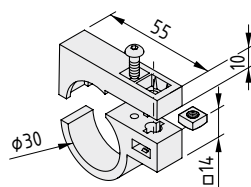
Panel Fastener D30

- For screw-attaching panel elements
- Variable installation thanks to integrated height adjuster

The universal fastening for panel elements that are used for panelling, screening and light mechanical loads. Can be applied directly to both Tubes and Profiles D30. The height adjuster is used when securing panels that are to run along the outside of tube structures.



Panel Fastener D30 for a diverse range of fastening options – install panel elements in tube frames or run them along the outside of a tube structure. Using the height adjuster ensures that panels have sufficient clearance from Fasteners.



Panel Fastener D30

Height adjuster, PA-GB, grey, similar to RAL 7042
Basic unit, PA-GB, grey, similar to RAL 7042
Button-Head Screw T4x12, St, bright zinc-plated
Square nut DIN 557-M5, St, bright zinc-plated
m = 19.2 g

1 set

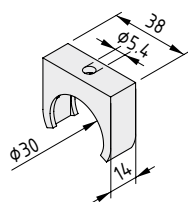
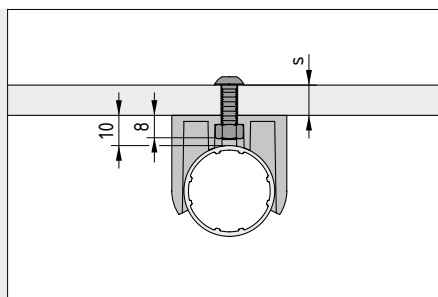
0.0.630.74



Tube Clamp D30

- For lightweight attachments
- Plastic clasp ensures gentle hold
- Easy to install and quickly removed

The simple fastening clip that is fixed externally to Tubes and Profiles D30. Suitable for all lightweight attachments, fast tool-free fitting and simple to remove. The flexible solution, even when something only needs to be attached temporarily. A hexagon nut M5 can be inserted into the Tube Clamp.



Tube Clamp D30

PA-GF

m = 8.7 g

grey similar to RAL 7042, 1 pce.

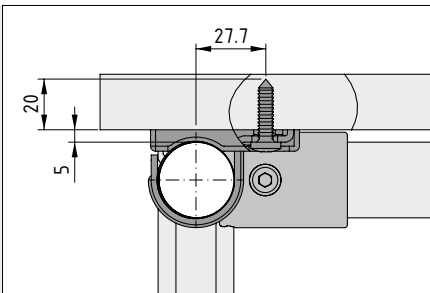
0.0.630.83



Table-Top Fastening Set D30

- Stable hold thanks to screw-attached clip
- Table top lies over the struts

The robust fastening for connecting table tops made from chipboard or multi-ply panels to tube constructions built with Line D30. Positioned in an instant and tightened with the self-tapping screw. A steel clip produces a stable and strong fastening.



The clip is laid over the Tube D30 and fastened directly to the table top with the included screw, which is driven through the plastic spacer. The plastic spacer beds the clip in place and creates the 5 mm gap made necessary by the use of Fasteners D30.

Note: Slide Strip D30 (0.0.634.55 ESD or 0.0.634.42) can be used to fill the gap between the table top and Profile Tube.

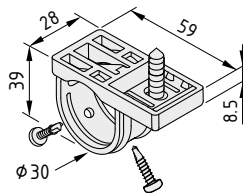


Table-Top Fastening Set D30

Sheet material, St, bright zinc-plated
 Spacer, PA-GF, grey
 Screw 6x25-TX30, self-tapping, St, bright zinc-plated
 2 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
 m = 65.0 g

1 set

0.0.646.91



Table-Top Fastening Bracket D30

- For suspending panels of any thickness
- Table top lies between the struts
- Also suitable for strong shelves

The rapid solution for supporting horizontal panels. Position a Table-Top Fastening Bracket D30 in each corner of a D30 frame and place on top any panel material – that's all it takes to create strong shelving for storage systems or workpiece carriers, etc.

If required, the Table-Top Fastening Bracket D30 can also be screwed to the panel and (Profile) Tube D30, thereby further stabilising the frame.

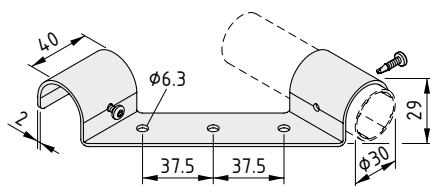
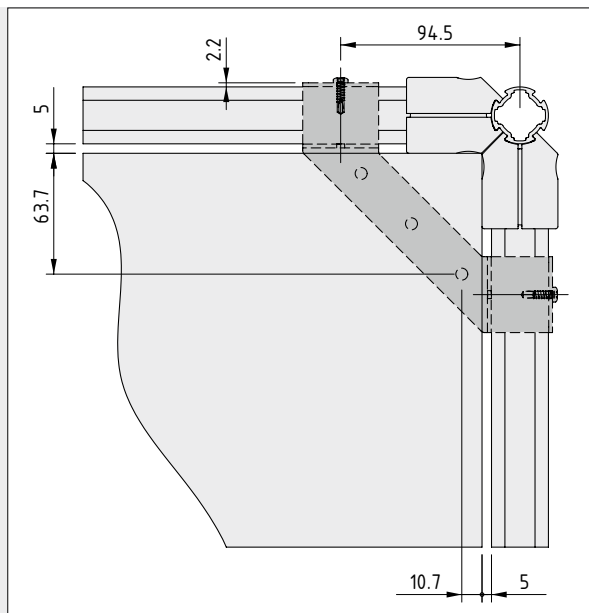


Table-Top Fastening Bracket D30

Sheet Material, St, bright zinc-plated
2 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 141.0 g

1 set

0.0.647.11



Table-Top Side Fastening Bracket D30

- Complements Table-Top Fastening Bracket D30

A stronger hold for shelves and table tops. When secured with Table-Top Fastening Bracket D30, large and thin elements require additional support. Table-Top Side Fastening Bracket D30 is the answer. It can be screwed to any point on the panel and reduces deflection.

Table-Top Side Fastening Bracket D30 can be simply hooked onto the frame. For additional stability it can be screwed to the (Profile) Tube D30.

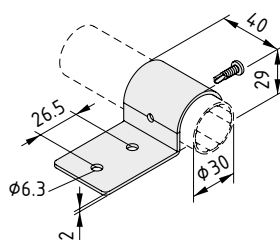
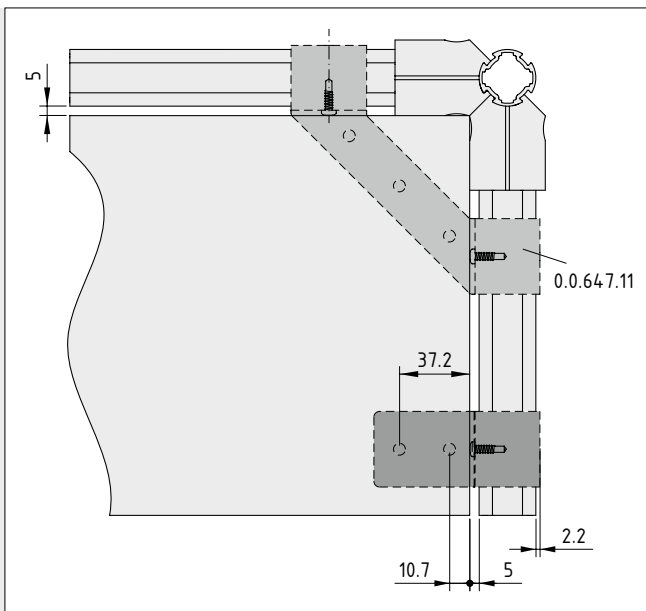


Table-Top Side Fastening Bracket D30

Bracket, St, bright zinc-plated
Button-Head Screw, self-tapping St 3.9x16, TX20, bright zinc-plated
m = 75.0 g

1 set

0.0.658.33

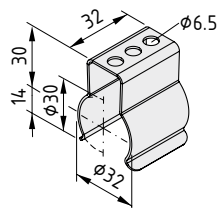


Spring Clip D30/30-32

- Made from stainless spring steel
- Universal clip
- Holds all components with a diameter of 30 mm

Now you see it, now you don't – Spring Clip D30/30-32 is the easy way to stow tools in close reach and can even hold Profiles D30 on a temporary basis.

The clip grips tools quickly and firmly and releases them just as fast.



Spring Clip D30/30-32

St, stainless
m = 54.0 g

1 pce.

0.0.660.98



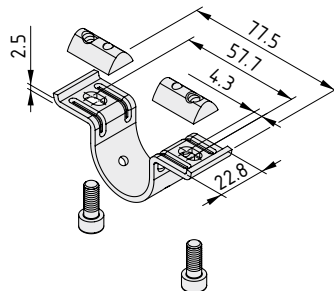
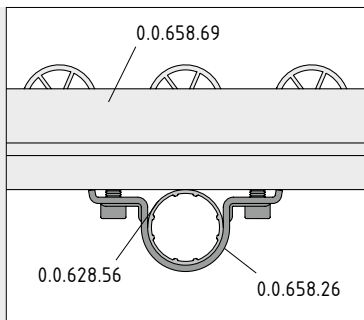
Brackets D30

- Easy to fit
- Quick-fit support for roller conveyors and castor rails
- Enables exceptionally low installation heights



They hold in place without lifting up. Brackets 8 D30 and 6 D30 are used to form a stable connection where a tube of diameter 30 crosses any flat-face profile featuring a Line 8 or 6 groove. The Brackets are very shallow and yet extremely torsion resistant. This makes them ideal for securing Roller Conveyor 6 40x40 E D30 and Castor Rail 8 40x40 to D30 tube constructions, for example.

Note: Table-Top Fastening Set D30 should be used when installing panel elements, as its spacer compensates for the height difference caused by Fastener D30.



Bracket 6 D30



Bracket, St
2 T-Slot Nuts 6 St M6, St, bright zinc-plated
2 Hexagon Socket Head Cap Screws DIN 912-M6x12, St, bright zinc-plated
m = 71.0 g

1 set	0.0.658.26
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Bracket 8 D30



Bracket, St
2 T-Slot Nuts 8 St M6, St, bright zinc-plated
2 Hexagon Socket Head Cap Screws DIN 912-M6x15, St, bright zinc-plated
m = 84.0 g

1 set	0.0.658.25
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Hook and Holder Adapter D30

- Easy, rapid access to tools
- Used to fit hook and holder system elements to Profile Tubes

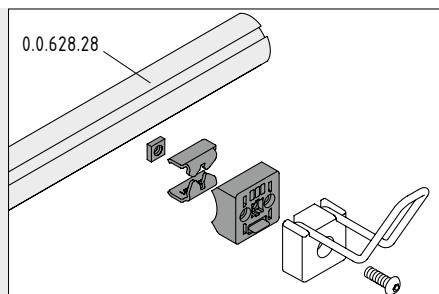


Note:

All hooks and holders can be found in the Comprehensive Catalogue for the ergonomic item Work Bench System or online at: item24.de/en/tool-handling

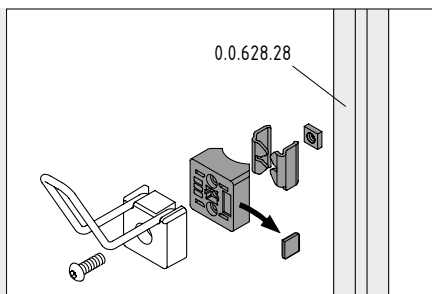
Multifunctional and award-winning design The item hooks and holders storage system combines form and function!

Hook and Holder Adapter D30 ensures users can mount any Hook or Holder to a (Profile) Tube D30 via its central tensioning screw. As a result, rapid, easy access to tools etc. is now possible on all constructions built using Profile Tube System D30.

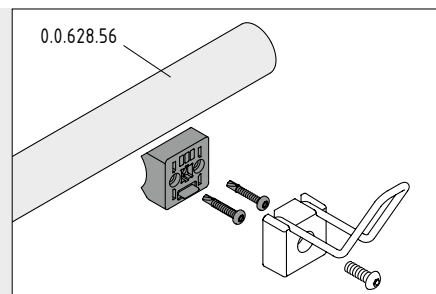


Hook and Holder Adapter D30 is fixed to Profile Tubes D30 without the need for any machining. The retaining plates utilise the groove and hold the Adapter securely.

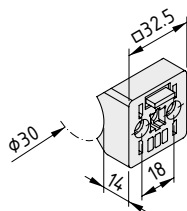
Recommended tightening torque for fastening screw: $M = 5 \text{ Nm}$.



When using the adapter with vertical struts, the removable anti-torsion feature must be taken out prior to assembly.



The adapter can also be fastened to Tube D30 (0.0.628.56). Self-tapping screws (0.0.644.99) are used in this case. The retaining plates must be removed from the adapter.



Hook and Holder Adapter D30

Adapter D30, PA-GF

2 plates, St, bright zinc-plated

Square nut DIN 562-M6-04, St, bright zinc-plated

$m = 26.0 \text{ g}$

black, 1 set

0.0.645.27

grey, 1 set

0.0.644.57

Button-Head Screw, self-tapping St 3.9x25, TX20

St, bright zinc-plated

$m = 1.9 \text{ g}$

1 pce.

0.0.644.99



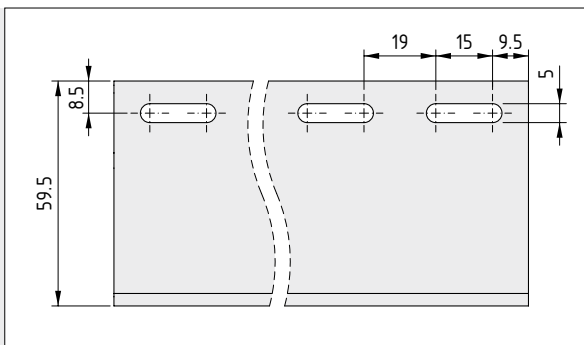
Label Hanger D30

- Space-saving fastening
- Simple to fit
- Easy to move

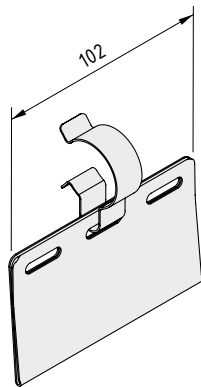
The item label solution keeps everything in order in a D30 rack – without using up valuable time and space. The Label Hanger is secured in place on a frame via a clip and hangs down under the tube. There are two benefits to this design – firstly, the (Profile) Tube is left largely free for other uses, such as fitting roller conveyor fastening brackets and, secondly, the clip can be put in place and moved in seconds, which is particularly useful when storage locations need to be changed over quickly.

The practical Label Hanger is available in two sizes. Both variants protect cards or strips of paper safely behind tough PVC. The transparent hangers are open along the top edge, thereby ensuring labels can be inserted with ease. Label Hanger D30-100 is 102 mm wide and can be secured to a Clip using the pre-perforated slots. Label Hanger Profile H42 can be cut to size as required to produce Label Hangers in any width up to 2000 mm.

Label Hanger Clip D30 is responsible for keeping labels securely connected to profiles. It is narrow enough that it will fit on even the most heavily used profiles, but wide enough to hold the Label Profile in place. Additional Clips can be used according to the length of Label Hangers and the loads they are subjected to. The reusable fastening is simply pushed into place and secures a Label Hanger to all D30 Profiles, Profile Tubes and Tubes without the need for a screw connection.



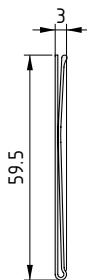
Modular dimension of Label Hanger Profile H42, which can be cut to size.



Label Hanger D30-100

Label Hanger Profile H42, 100 mm, PVC, clear
Label Hanger Clip D30, St, natural
m = 21.0 g

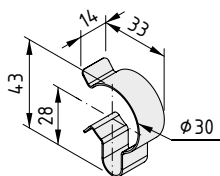
1 set	0.0.654.92
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Label Hanger Profile H42

PVC
m = 237.0 g
clear, 1 pce., length 2000 mm

	0.0.654.91
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Label Hanger Clip D30

St
m = 9.0 g
bright zinc-plated, 1 pce.

	0.0.654.93
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Label Holders D30

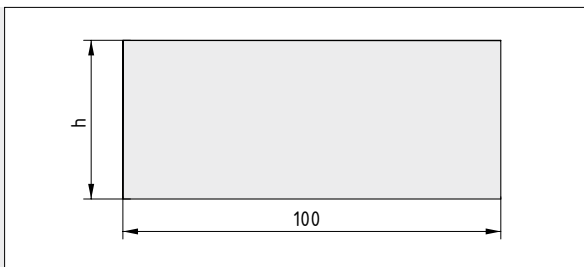
- Simply clip on
- Minimum space requirements
- Available in two variants

Clear markings keep everyone on track. Legible and fixed labels reduce error rates and increase efficiency.

The Label Holders enable users to attach labels to Profiles and Tubes D30 by keeping labelling cards securely encased in transparent film.

Two versions are available – one for attaching labels directly to the (Profile) Tube D30 and one for suspending labels below, in a flexible transparent pocket ("flex" version). Both are permanently glued to the profile.

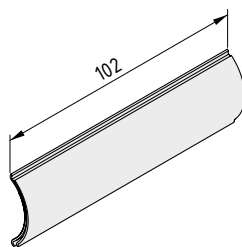
Label Holders D30 are available ready-cut or as a profile that can be cut to size as required.



Recommended size of label cards:

Label Holder D30: h = 28 mm

Label Holder D30 flex: h = 42 mm

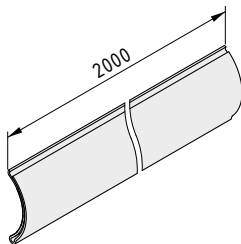


Label Holder D30-100

PVC
Self-adhesive
m = 7.0 g

transparent, 1 pce., length 100 mm

0.0.644.69

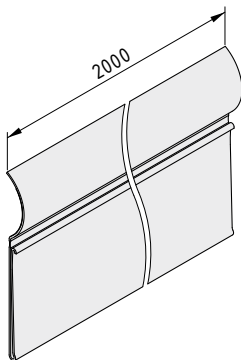


Label Holder D30

PVC
Self-adhesive
m = 66.5 g/m

transparent, 1 pce., length 2000 mm

0.0.643.97

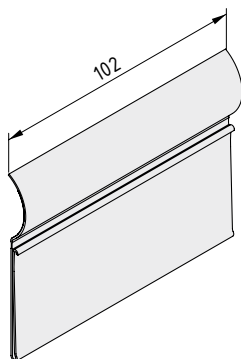


Label Holder D30 flex

PVC
Self-adhesive
m = 128 g/m

transparent, 1 pce., length 2000 mm

0.0.643.98



Label Holder D30-100 flex

PVC
Self-adhesive
m = 13.0 g

transparent, 1 pce., length 100 mm

0.0.644.71



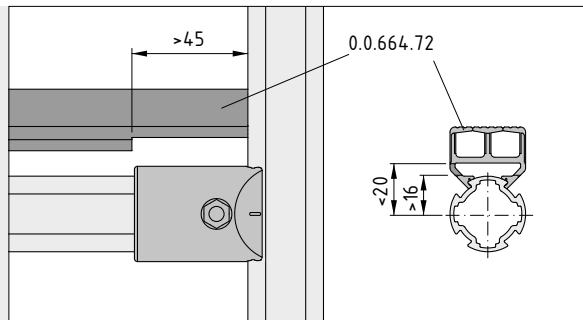
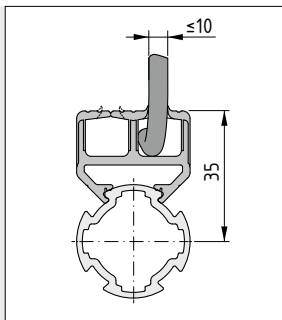
Cable Guide Profile D30

- Two conduits for cables
- Installs in seconds
- Outlets are easy to form

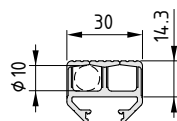
Laying cables and hoses really can be a quick and easy job! Cable Guide Profile D30 clips onto Profile Tube D30 with no need for drilling. A pair of cutting pliers such as item Multi-Purpose Pliers (0.0.265.63) are all that is required to cut the profile to size.

Cables and lines can be routed neatly through two separate conduits. Getting the cables back out couldn't be simpler – just use your fingernail to break through the top of the profile. The two flexible lid sections give way at any point to provide an opening, but still envelop the cable to keep dust and dirt out of the conduit.

Cables can even be laid around corners by pushing Cable Guide Profiles up against each other. In doing so, the clip geometry on the underside must be cut off with pliers so that the conduit can fit over the Fastener D30.



A section has to be cut away from the underside of the Cable Guide Profile so that it can fit perfectly over the contours of Fastener D30. This cut-away section must be 45 mm long and 16 to 20 mm high.



Cable Guide Profile D30

PVC

m = 340.0 g/m

grey similar to RAL 7042, 1 pce., length 2000 mm

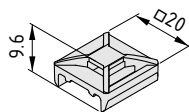
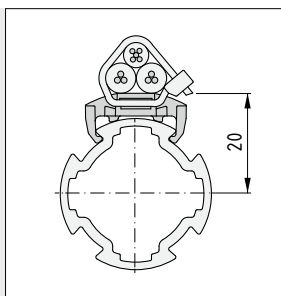
0.0.664.72



Universal Holder D30

- For fixing cables
- Simply clips into place

A small clip with a big effect! Universal Holder D30 is the fastest way to secure cables and lines neatly to a Profile Tube. Simply clip it into place and it holds firm – no drilling necessary. Its openings provide a secure anchor point for cable ties up to 5 mm in width.



Universal Holder D30

PA

m = 1.0 g

grey similar to RAL 7042, 1 pce.

0.0.671.98



Floor elements.

Nifty movement or a stable footing? The floor elements of the Lean Production Building Kit System can do both!

Strong Castors in a range of diameters form the basis for transport trolleys and mobile intralogistics solutions. Robust design and abrasion-resistant materials ensure a long service life, while antistatic Castors are available to provide added safety for staff and sensitive assemblies.

Since every transport operation comes with its own specific requirements, item offers a wide range of Swivel Castors, Fixed Castors and Swivel Castors with double-brake.

Optional Swivel Locks, which turn a Swivel Castor into a rigid Fixed Castor, are useful in trains.

To ensure a permanently firm footing and compensate for height differences, you can use Adjustable Feet, which can be anchored in a Tube or Profile Tube D30 using Threaded Inserts D30 (see section on fastening elements), and a Flange for fixing directly to the floor. In addition to components from the Lean Production Building Kit System, the numerous Adjustable Feet from the MB Building Kit System can also be used.

Floor elements: Products in this section.



Swivel Castors 140x110

- Precisely controllable
- High load-carrying capacity
- Antistatic Castors available

77



Swivel Castors with double brake 140x110

- Brake for secure stability
- Antistatic Castors available

77



Fixed Castors 140x110

- Stable straight-ahead motion
- Robust and strong
- Antistatic Castors available

77



Swivel Locks for Swivel Castors 140x110

- Add-on for Swivel Castor
- Fixed straight running as necessary

83



Swivel Castors 120x40

- Narrow connecting plate
- Antistatic Castors available

85



Flange D30

- Universal fixing for floors etc.
- Easy to attach

87



Levelling Knuckle Feet

- With height and slope compensation
- Made from plastic or metal
- Also ESD-safe

88



Castors

- Smooth rolling action
- High load-carrying capacity
- Straightforward assembly



It's time to set the wheels in motion! Building transport trolleys with high load-carrying capacities is now easier than ever when using Swivel and Fixed Castors from item. The new models satisfy the high requirements in industry and skilled trades. The robust Castors, available in diameters D100, D125, D160 and D200, are easy-running and ideally suited to typical transport tasks. Each can be supplied as a Swivel Castor, Swivel Castor with double-brake or a Fixed Castor – and each in a standard and an ESD-safe design. Stable ball bearings and wheel bodies made of polyamide 6 ensure the Castors provide a long service life. The tyre of the wheels consists of high-grade, abrasion-resistant polyurethane.

The integrated Adapter Plate with four holes provides a stable fixing. Operating forces are reliably transmitted to the frame. Fastening Set 8 for Castor swivel/fixed 140x110 is to be used for installation purposes.

The Swivel Castor with double-brake uses a foot-operated catch to lock the wheel in a specific position and direction so that it cannot move. If a trolley with four Swivel Castors is to be used in a train with other trolleys, the swivelling action of the castors on one axis must be locked. The optional Swivel Lock is used for this purpose and can also be retrofitted.

The high quality standard is unmistakable.

Note: The 100 percent dissipative capacity of the antistatic Castors is ensured up to 65 percent of the maximum load. If loads on the Castors exceed this level, the ability of the Castors to dissipate electrostatic charges can be impaired. As a preventive measure, it is advisable to choose a larger castor diameter with a higher load-carrying capacity.



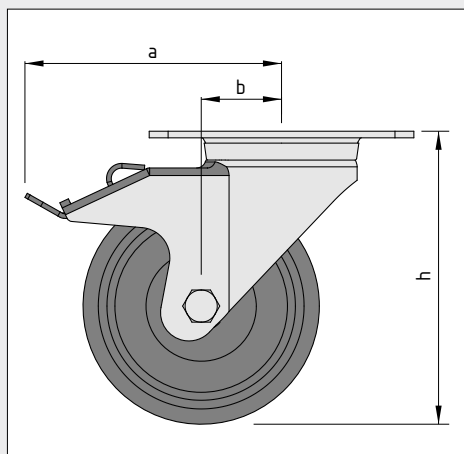
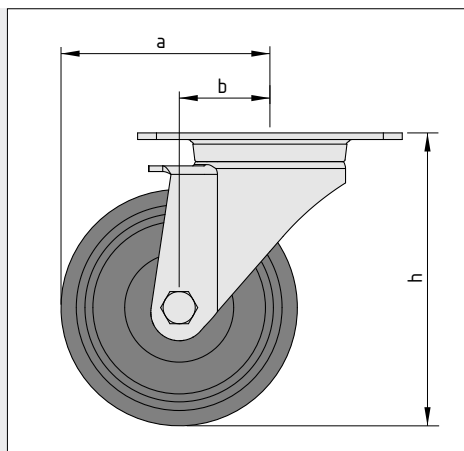
Swivel and Fixed Castors can be fixed to frames made using Profiles 8 via the four holes in the integrated connecting plate. Alternatively, the Castors can be fixed to two parallel Profiles 8 D30. These tubes from Profile Tube System D30 feature an integral Line 8 groove. The corresponding Fastening Set 8 for Castor swivel/fixed makes installation easy.




Castor D100 fixed 140x110



Castor D125 swivel with double-brake 140x110 antistatic



	Radius of swivel (a)	Offset (b)	Height (h)
Castor D100 swivel	95.0 mm	45.0 mm	130.0 mm
Castor D100 swivel with optional Swivel Lock	150.0 mm	45.0 mm	130.0 mm
Castor D100 swivel with brake	137.0 mm	45.0 mm	130.0 mm
Castor D100 fixed	-	-	130.0 mm
Castor D125 swivel	110.0 mm	48.0 mm	155.0 mm
Castor D125 swivel with optional Swivel Lock	150.0 mm	48.0 mm	155.0 mm
Castor D125 swivel with brake	137.0 mm	48.0 mm	155.0 mm
Castor D125 fixed	-	-	155.0 mm
Castor D160 swivel	140.0 mm	60.0 mm	195.0 mm
Castor D160 swivel with optional Swivel Lock	170.0 mm	60.0 mm	195.0 mm
Castor D160 swivel with brake	168.0 mm	60.0 mm	195.0 mm
Castor D160 fixed	-	-	195.0 mm
Castor D200 swivel	163.0 mm	65.0 mm	235.0 mm
Castor D200 swivel with optional Swivel Lock	170.0 mm	65.0 mm	235.0 mm
Castor D200 swivel with brake	184.0 mm	65.0 mm	235.0 mm
Castor D200 fixed	-	-	235.0 mm

Resistance of tyres	Castor Lines D100/125/160/200	
(x = yes; - = no)	TPU	
Water	x	x
Salt water	x	x
Road-salt solution	-	-
Oils	x	x
Animal and vegetable fats	x	x
Diesel oil	x	x
Petrol	x	x
Acidic cleaning agents	-	-
Soap solutions up to approx. 50°C	x	x

The specified carrying capacities are maximum values under ideal operating conditions, at walking speed (max. 4 km/h) and over smooth and flat surfaces. If the floor is uneven and weight badly distributed, the load on the castor should be calculated in accordance with the following formula:

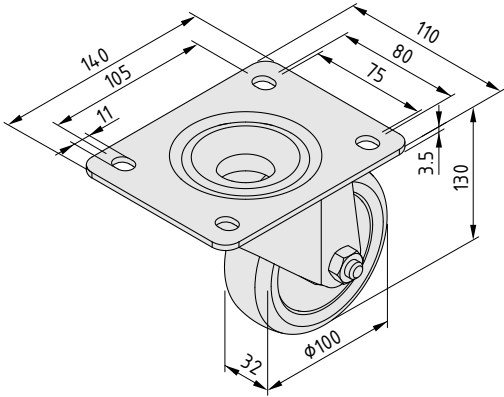
$$F = \frac{\text{dead weight} + \text{load}}{3}$$

The Castors have good rolling properties and a high load-carrying capacity and are able to withstand most environmental influences.

Antistatic Castors can also be supplied specifically for use in the electronics sector. They have appropriate tyres and a continuously conductive wheel/casing. The discharge resistance of the antistatic model is $10^5 \Omega$.

The following applies to all the products below:

Fork St, bright zinc-plated
Wheel axle with ball bearing
Dust shield
Wheel body PA
Tyre TPU, 94 Sh A, grey
Load-carrying capacity 200 kg/Castor



Castor D100 swivel 140x110

m = 1.1 kg

1 pce.

0.0.667.16

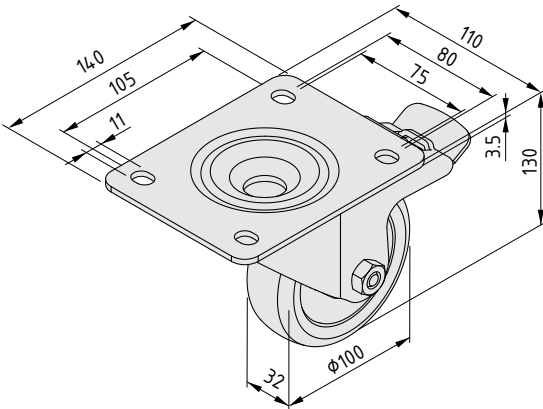
Castor D100 swivel 140x110 antistatic



m = 1.1 kg

1 pce.

0.0.667.17



Castor D100 swivel with double-brake 140x110

m = 1.4 kg

1 pce.

0.0.667.18

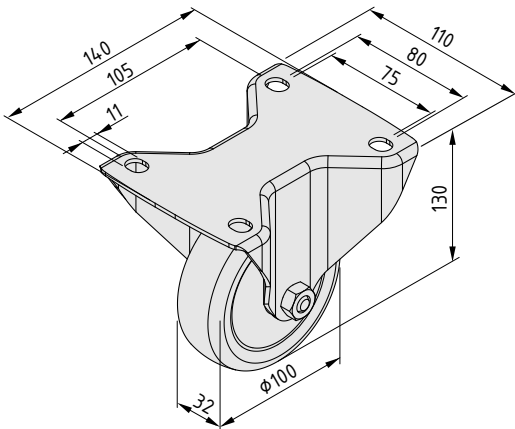
Castor D100 swivel with double-brake 140x110 antistatic



m = 1.4 kg

1 pce.

0.0.667.19



Castor D100 fixed 140x110

m = 800.0 g

1 pce.

0.0.667.20

Castor D100 fixed 140x110 antistatic



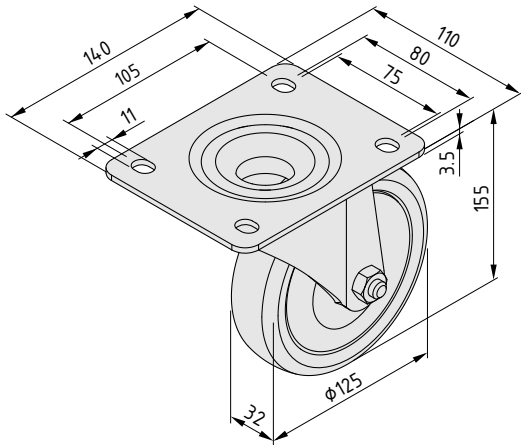
m = 800.0 g

1 pce.

0.0.667.21

The following applies to all the products below:

Fork St, bright zinc-plated
Wheel axle with ball bearing
Dust shield
Wheel body PA
Tyre TPU, 94 Sh A, grey
Load-carrying capacity 250 kg/Castor



Castor D125 swivel 140x110

m = 1.3 kg

1 pce.

0.0.667.22

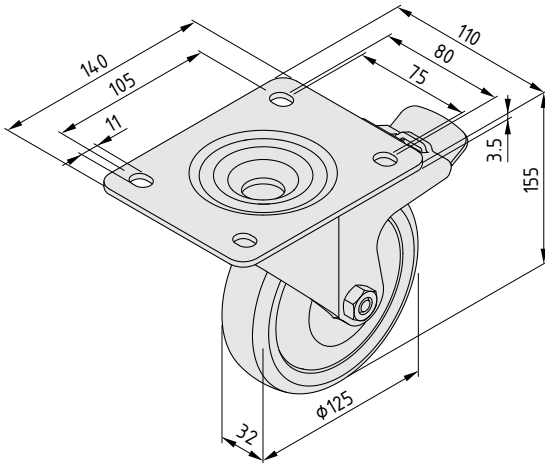
Castor D125 swivel 140x110 antistatic



m = 1.3 kg

1 pce.

0.0.667.23



Castor D125 swivel with double-brake 140x110

m = 1.5 kg

1 pce.

0.0.667.24

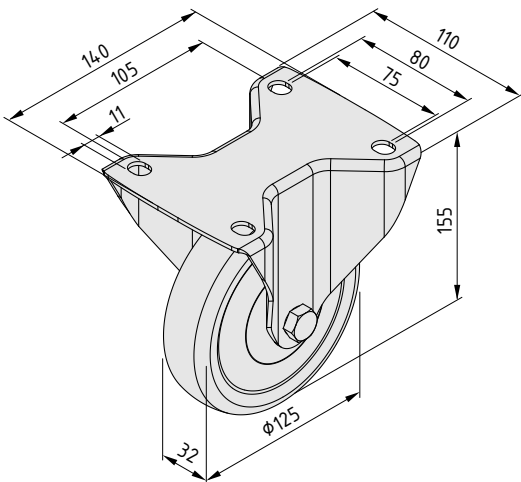
Castor D125 swivel with double-brake 140x110 antistatic



m = 1.5 kg

1 pce.

0.0.667.25



Castor D125 fixed 140x110

m = 1.0 kg

1 pce.

0.0.667.26

Castor D125 fixed 140x110 antistatic



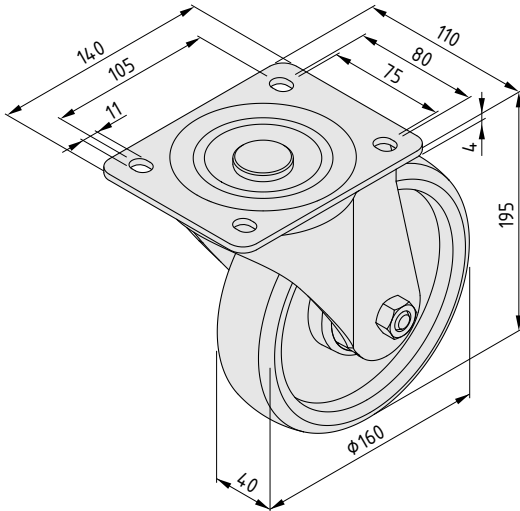
m = 1.0 kg

1 pce.

0.0.667.27

The following applies to all the products below:

Fork St, bright zinc-plated
Wheel axle with ball bearing
Dust shield
Wheel body PA
Tyre TPU, 94 Sh A, grey
Load-carrying capacity 400 kg/Castor



Castor D160 swivel 140x110

m = 2.1 kg

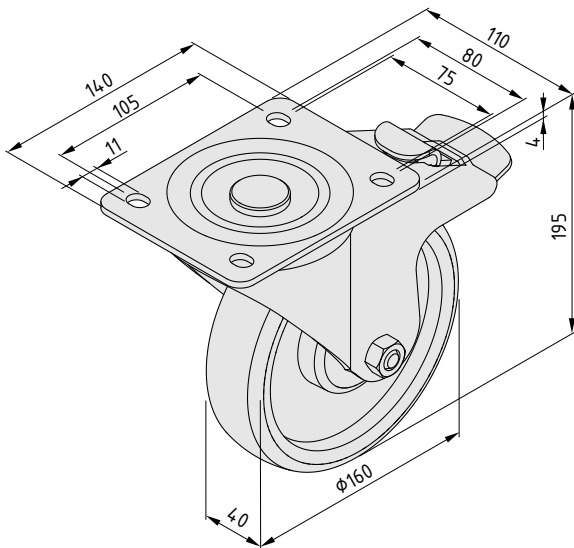
1 pce. 0.0.667.29

Castor D160 swivel 140x110 antistatic



m = 2.1 kg

1 pce. 0.0.667.30



Castor D160 swivel with double-brake 140x110

m = 2.6 kg

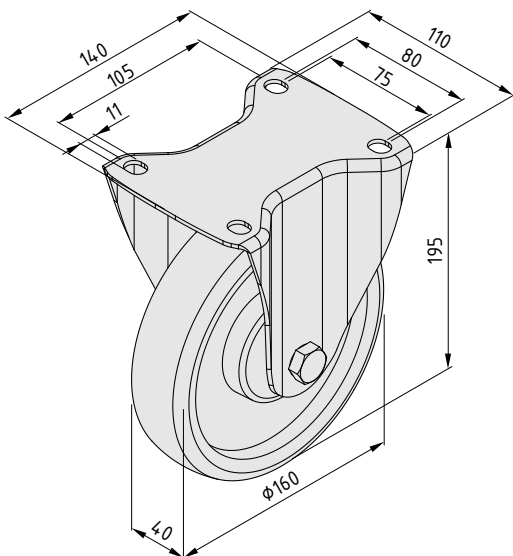
1 pce. 0.0.667.31

Castor D160 swivel with double-brake 140x110 antistatic



m = 2.6 kg

1 pce. 0.0.667.32



Castor D160 fixed 140x110

m = 1.4 kg

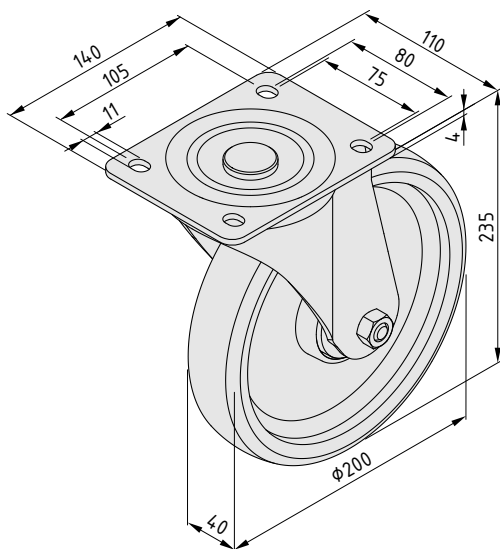
1 pce. 0.0.667.33

Castor D160 fixed 140x110 antistatic



m = 1.4 kg

1 pce. 0.0.667.34

**Castor D200 swivel 140x110**

m = 2.4 kg

1 pce.

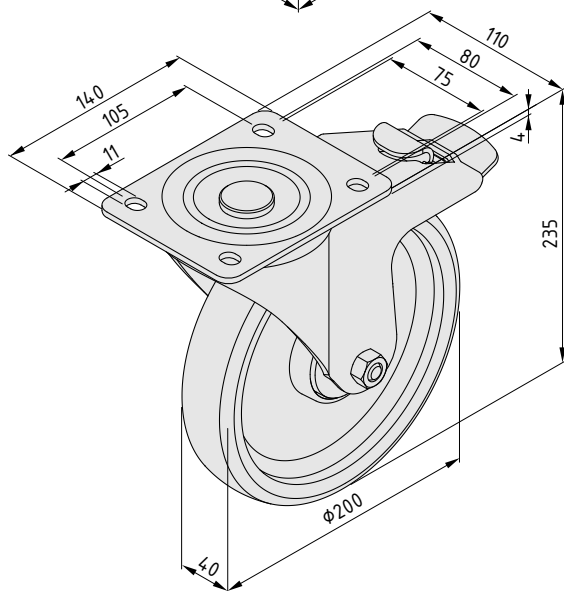
0.0.667.35

Castor D200 swivel 140x110 antistatic

m = 2.4 kg

1 pce.

0.0.667.36

**Castor D200 swivel with double-brake 140x110**

m = 2.9 kg

1 pce.

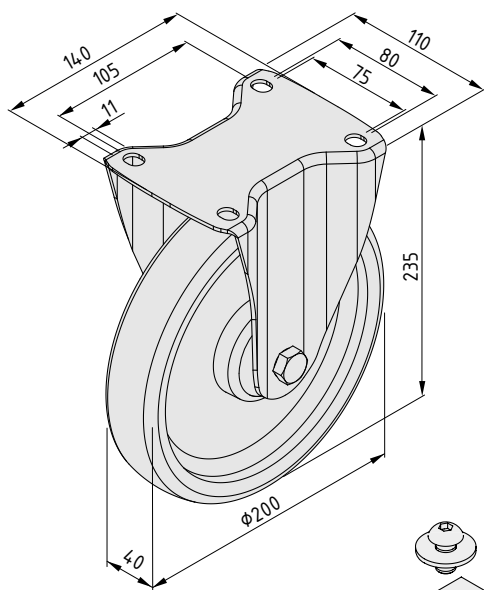
0.0.667.37

Castor D200 swivel with double-brake 140x110 antistatic

m = 2.9 kg

1 pce.

0.0.667.38

**Castor D200 fixed 140x110**

m = 1.6 kg

1 pce.

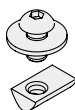
0.0.667.39

Castor D200 fixed 140x110 antistatic

m = 1.6 kg

1 pce.

0.0.667.40

**Fastening Set 8 for Castor swivel/fixed 140x110**

Button-Head Screw ISO 7380-M8x16, St, bright zinc-plated
 Washer DIN EN ISO 7093-8.4, St, bright zinc-plated
 T-Slot Nut 8 St M8, bright zinc-plated

m = 25.0 g

1 set

0.0.670.18

Swivel Locks for Swivel Castors 140x110

- For Castors with an integrated connecting plate
- Fixes the direction of travel of a Swivel Castor
- Operated by foot

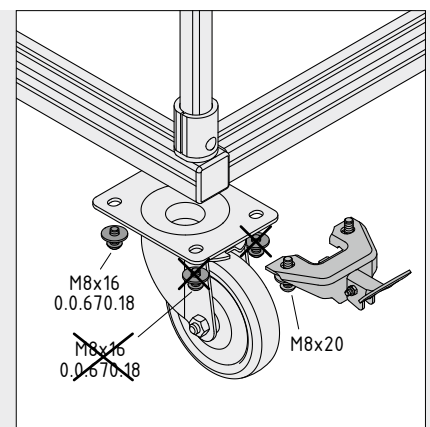
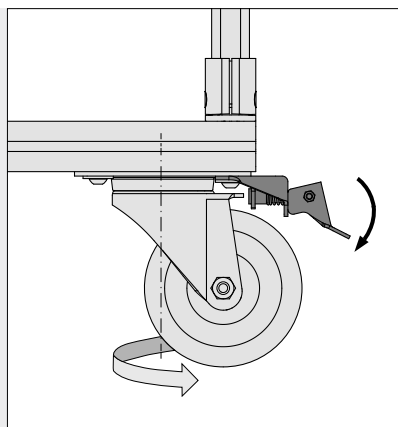
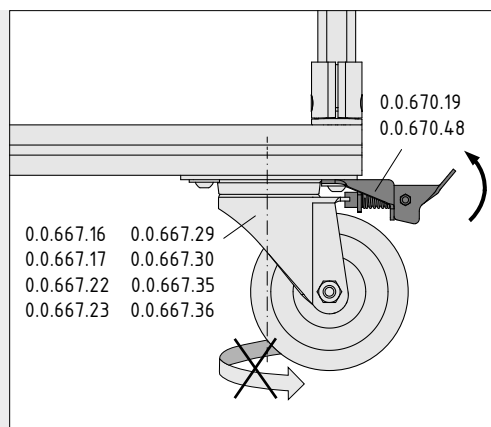


For keeping things on the straight and level: Transport trolleys with four Swivel Castors are easy to manoeuvre by hand, but are difficult to control when being towed in a train. To solve this problem, one pair of Castors has to be fixed to run straight ahead only. This can be achieved using the optional Swivel Lock for Swivel Castors D100, D125, D160 and D200 with a 140x110 connecting plate. It temporarily converts a Swivel Castor into a Fixed Castor. Consequently, users benefit from the advantages of both concepts.

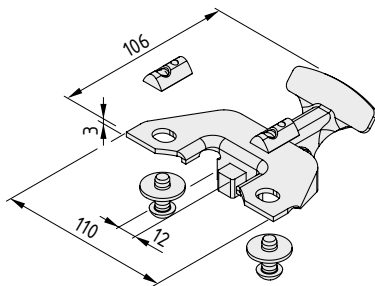
The Swivel Locks are easy to operate by foot, with no need for bending over. The locking mechanism stops the Swivel Castor from rotating out of line. As a result, operators can use a Drawbar to couple a transport trolley to a tugger train and move it around safely. When uncoupling the trolley, simply release the Swivel Lock and the trolley can once again be manoeuvred in all directions in the tightest of spaces.

item supplies Swivel Locks for Castors of various sizes. Swivel Lock D100/D125 and Swivel Lock D160/D200 are available.

Note: Swivel Locks cannot be fitted to a Swivel Castor with double-brake. They cannot be fitted to Castors with the narrow integrated 120x40 connecting plate either.



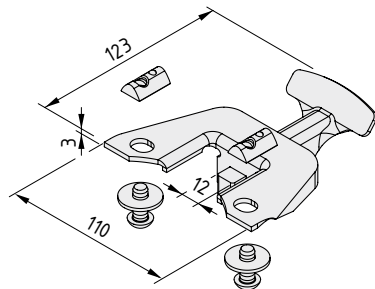
If you are planning to use a Swivel Lock, reduce the number of Fastening Sets 8 for Swivel/Fixed Castors 140x110 you would normally use by two.



Swivel Lock for Castor D100/D125 swivel 140x110

Swivel Lock for Castor D100/D125 swivel 140x110, St, bright zinc-plated
2 Button-Head Screws ISO 7380-M8x20, St, bright zinc-plated
2 washers DIN EN ISO 7093-8.4, St, bright zinc-plated
2 T-Slot Nuts 8 St M8, bright zinc-plated
m = 301.0 g

1 set	0.0.670.19
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Swivel Lock for Castor D160/D200 swivel 140x110

Swivel Lock for Castor D160/D200 swivel 140x110, St, bright zinc-plated
2 Button-Head Screws ISO 7380-M8x20, St, bright zinc-plated
2 washers DIN EN ISO 7093-8.4, St, bright zinc-plated
2 T-Slot Nuts 8 St M8, bright zinc-plated
m = 334.0 g

1 set	0.0.670.48
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Castors D100 swivel with Connecting Plate 120x40

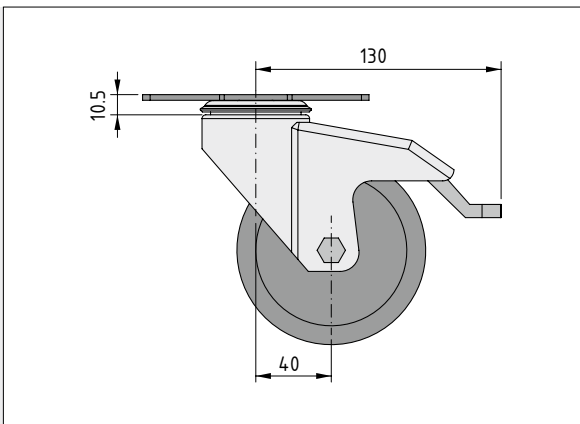
- Narrow connecting plate
- Carrying capacity up to 80 kg
- Also available in antistatic version



A version of item Castors D100 swivel are supplied with integrated connecting plates. As a result, the swivel castors can be secured in place without the need for additional base plates or transport plates. The three holes in the modular dimension of 40 mm in the connecting plate are used to screw the castors to the profile grooves or the core bore of Profiles 8.

The swivel castors with connecting plate are ideal for use with frames built from Line 8 and Line 10 profiles. They are the same height as the swivel castors with fixing holes and can also be combined with fixed castors in the corresponding castor size.

All the designs are also available in antistatic/electrostatically dissipative versions for ESD applications.

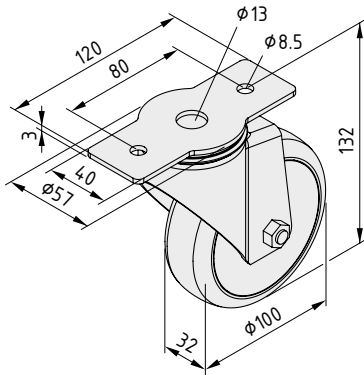


Note:

You can find a whole range of Castors with and without integrated connecting plates in the Comprehensive Catalogue for the MB Building Kit System and online at: item24.de/en/mb

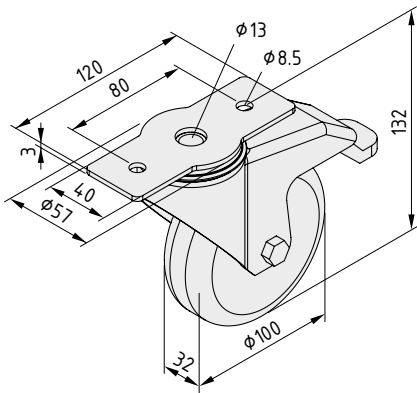
The following applies to all the products below:

Steel sheet casing bright zinc-plated, black
Swivelling axis with sealed ball bearing,
Wheel axle with sealed ball bearing,
Dust shield, carrying capacity 80kg/castor
Tyre TPE, track-free, 80 Sh A, grey



Castor D100 swivel 120x40		
m = 641.0 g		
1 pce.		0.0.633.43

Castor D100 swivel 120x40 antistatic		ESD
m = 654.0 g		
1 pce.		0.0.633.44



Castor D100 swivel with double-brake 120x40		
m = 761.0 g		
1 pce.		0.0.639.13

Castor D100 swivel with double-brake 120x40 antistatic		ESD
m = 773.0 g		
1 pce.		0.0.633.45



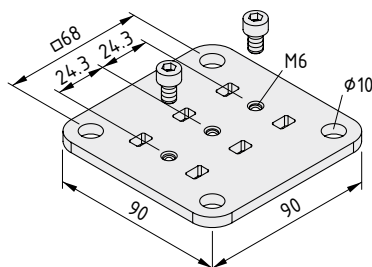
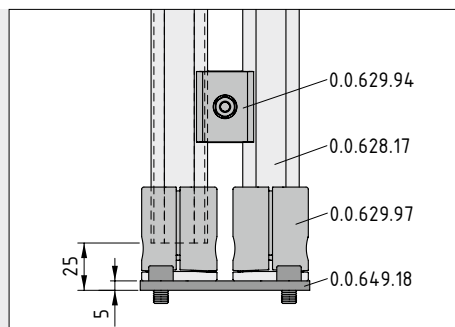
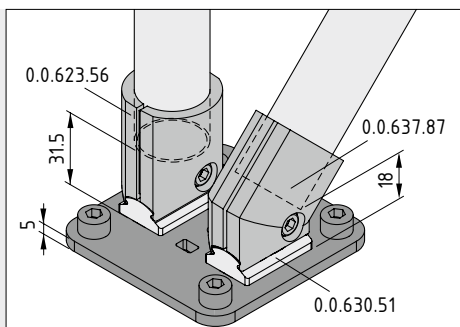
Flange D30-90x90

- Simple and universal
- For mounting on a wall, floor or any other surface
- Also suitable for two Tubes/Profiles D30

The universal fastening for Line D30 profiles and tubes is here! Flange D30 connects D30 constructions to walls, floors, ceilings and other surfaces. Simply screw into place. And it holds.

When using Adapter 8 D30 or End Connector 8 D30-90°, one or even two (Profile) Tubes D30 can be fastened to the Flange. The additional use of Parallel Fastener D30 produces exceptionally stable basic constructions.

Because Fasteners D30 clamp onto the outer surface of profiles, tubes and adapters, even existing constructions can be connected to virtually any surface.



Flange D30-90x90

2 screws DIN 912-M6x8, bright zinc-plated
m = 300.0 g

1 set

0.0.655.54

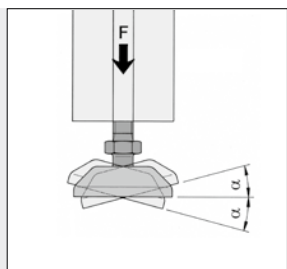


Knuckle Feet

- Threaded spindles ensure infinite height adjustment
- Slope compensation via ball joint
- Metal or plastic foot plate
- Stainless, ESD-safe versions available



The infinitely adjustable feet are suitable for structures of all kinds. Depending on the particular application, the adjustable feet can be fitted in the core bores of profiles or used in combination with Base Plates / Transport Plates. The range of applications can be extended by appropriate inserts and foot clamps. The minimum foot height is obtained by removing the counter nut.

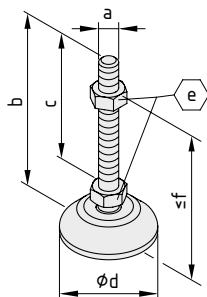


A ball and socket joint compensates for slopes.



Note:

You can find more Adjustable Feet in the Comprehensive Catalogue for the MB Building Kit System, in the section for floor elements.



Knuckle Foot D40, M10x80

Spindle, St, bright zinc-plated

Foot plate, PA, black

Hexagon nut DIN 934-M10, St, bright zinc-plated

a	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
M10	83	60	39	17	65	65.0
black, 1 pce.						0.0.265.74
grey similar to RAL 7042, 1 pce.						0.0.637.01

Knuckle Foot D40, M10x80

Spindle, St

Foot plate, St

Hexagon nut DIN 934, St

a	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
M10	83	60	39	17	65	143.0
stainless, 1 pce.						0.0.640.57





Material flow.

Getting your production in full swing. Roller conveyors are an efficient solution for organising material flow. Containers, finished parts and consumables glide almost effortlessly to the station where they are to be used. Intermediate storage or FIFO racks provide the basis for a flexible production system. Ingenious picking solutions ensure that work benches can rely on continuous supplies. Whether heavy workpieces or sensitive components, the Lean Production Building Kit System offers the ideal solution for every application. Wide rollers can even handle boxes with soft bases and castor balls enable the construction of interlinked production lines that follow the one-piece-flow principle. item roller conveyors can be suspended on

frames or boost the stability of a mobile transport solution as a load-bearing element.

All item roller conveyors are delivered preconfigured with the desired roller elements. If required, they can also be supplied in the desired length, so that you can install and use them straight away. Furthermore, there are steel sheet models that can be cut to size easily on site in line with lean production principles.

Also included in this section are Drawbars for building complete trailers and low-abrasion Slide Strips as an alternative solution for goods transport.

Material flow: Products in this section.



Roller Conveyor St D30

- Basic roller conveyor
- Easy to machine
- Steel-covered castors available

📄 92



Roller Conveyor St 60x24 D15

- Low construction height and high bending strength
- Wide rollers for transporting goods with uneven

📄 94



Roller Conveyor 6 40x40 E D30

- Wide selection of roller elements
- High bending strength
- Suitable as a load-bearing

📄 96



Roller Conveyor 6 80x40 E D30

- Wide rollers for transporting goods with uneven bases
- High bending strength

📄 98



Roller Conveyor 8 D30

- Huge selection of roller elements and inserts
- Suitable for transporting workpiece carriers

📄 100



Slide Link D30

- Robust metal fitting for simple workpiece removal
- Installed in no time

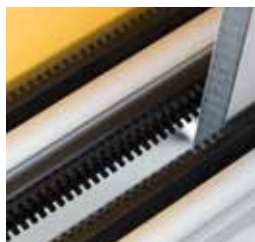
📄 159



Slide Strip D30

- Plastic slide strips for the simplest conveyor lines
- Also suitable as simple scratch protection

📄 160



Brush Strip D30

- Gentle guidance for sensitive components
- Variants for several mounting locations
- Screw-free installation

📄 162



Roller D46/D30-20

- Uses (Profile) Tube D30 as an axle
- For smooth-running material flow

📄 163



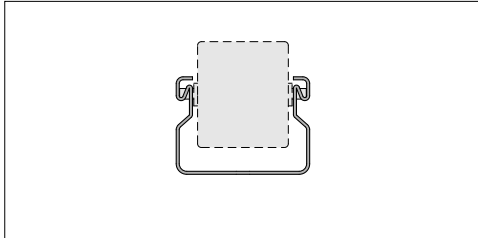
Drawbar D25-686

- For building complete goods trains
- Ergonomic self-lifting mechanism
- Secure link

📄 165

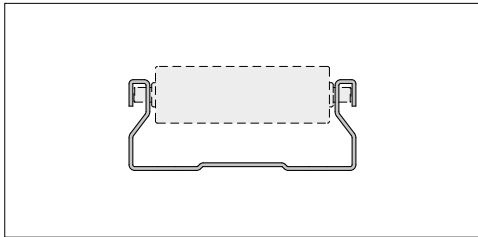
An overview of the item roller conveyors.

You can choose from a range of specialised roller conveyors as appropriate to your requirements. The five lines differ in terms of their shape, configuration, accessories and materials. All item roller conveyors can be ordered fully pre-configured and in custom lengths. All you have to do is unpack it, install it and start using it! Alternatively, you can cut the profiles of the roller conveyors to size on site, which is ideal for your CIP workshop.



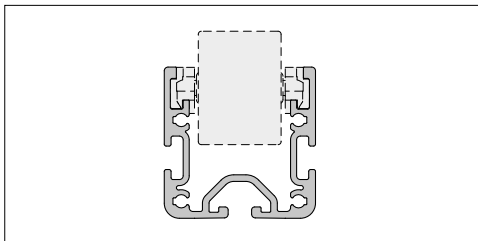
Roller Conveyor St D30

- The robust basic roller conveyor
- Huge selection of roller elements, steel-covered castors available
- Rigid steel profile
- Easy to machine



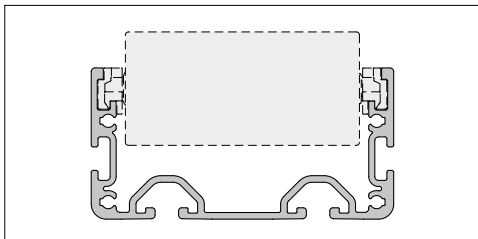
Roller Conveyor St 60x24 D15

- Extra low profile, extra wide, extra strong
- Rollers D15 for maximum contact
- High rigidity that can be further boosted with guide rails
- Exceptional versatility thanks to special accessories
- Suitable as load-bearing component when used with Fastening Profile



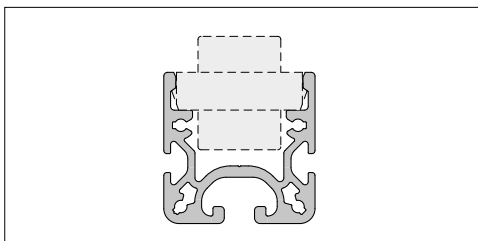
Roller Conveyor 6 40x40 E D30

- Ideal for LCA/Karakuri solutions
- Huge selection of roller elements, incl. Braking Castor
- Roller elements can be changed without tools
- High bending strength that can be boosted with guide rails
- Suitable for use as a load-bearing element in frames, racks, etc.



Roller Conveyor 6 80x40 E D30

- All the benefits of Roller Conveyor 6 E in double the width
- Wide roller elements for transporting goods with less robust bases
- Roller elements can be changed without tools
- High bending strength that can be further boosted with guide rails
- Suitable for use as a load-bearing element in frames, racks, etc.



Roller Conveyor 8 D30

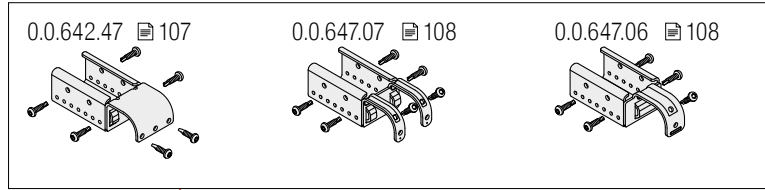
- Large number of roller elements and inserts, e.g. Brushes, Castor Balls, etc.
- Extremely high bending strength
- Inherently stable frame – ideal for LCA applications
- Features system grooves at sides and on underside
- Ideal for interlinking work benches



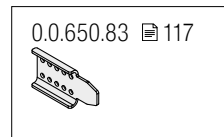
A detailed comparison of all roller conveyors, including their suitability for various applications, is available in PDF format online at: item24.de/en/roco-overview

Roller Conveyor St D30.

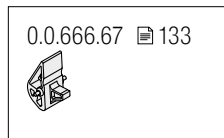
Roller Conveyor Fastening Brackets



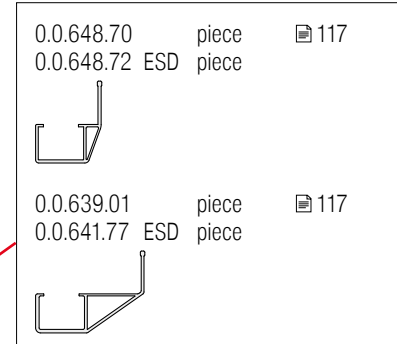
Retaining Plate, Guide Rail e



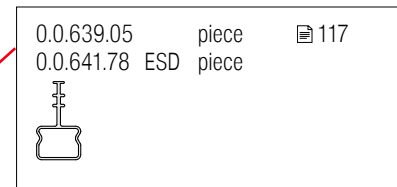
Back Stop



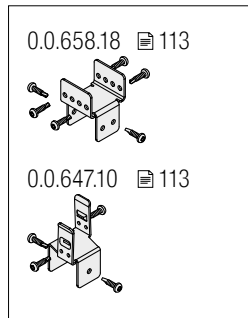
Guide Rails e



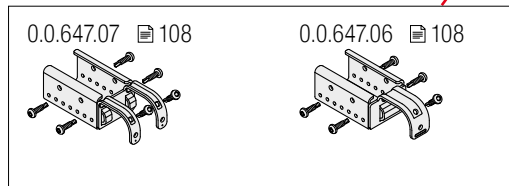
Guide Rails z



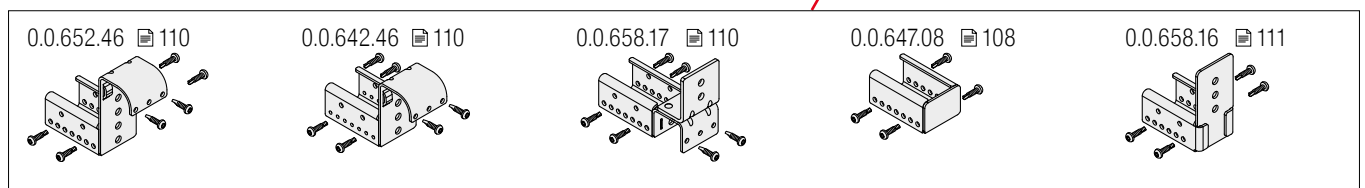
Supports



Roller Conveyor Fastening Brackets U + I



Roller Conveyor Fastening Brackets with Stop and End Cap

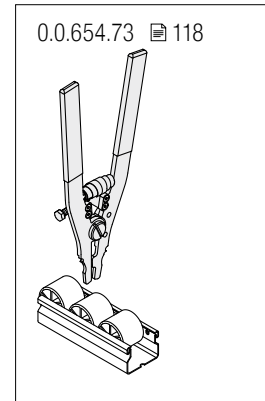


Roller conveyors

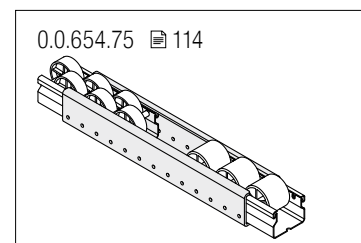
0.0.633.91 piece 0.0.637.55 ESD piece	105	0.0.647.76 115
0.0.633.92 piece 0.0.637.56 ESD piece	106	0.0.647.76 115
0.0.650.74 steel-covered piece	106	0.0.647.76 115
0.0.648.91 piece 0.0.648.94 ESD piece	106	0.0.650.55 115

Brakes

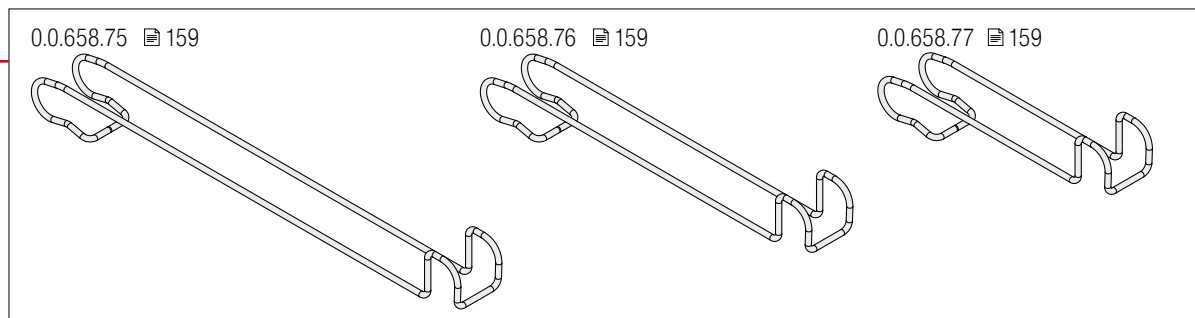
Assembly Pliers



Roller Conveyor Butt Fastener



Slide Link



Roller D46

Fastening Ring

0.0.664.48 163 0.0.674.60 ESD	0.0.673.10 164 0.0.674.85 ESD
----------------------------------	----------------------------------

Roller Conveyor St 60x24 D15.

Guide Rails e


0.0.654.94  124

0.0.673.85 piece  122

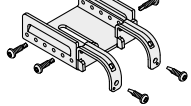
0.0.672.51 piece  124

See Roller Conveyor St D30 on page 92

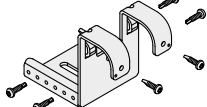
Transverse Fastener

0.0.637.90  27

Roller Conveyor Fastening Bracket

0.0.674.02  121

Roller Conveyor Fastening Bracket with Stop

0.0.674.03  121

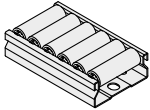
Roller conveyor

0.0.670.87

0.0.673.73 ESD

piece
piece

📄 120

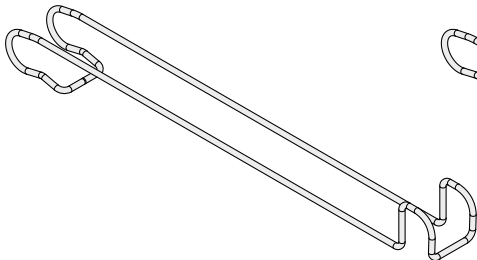


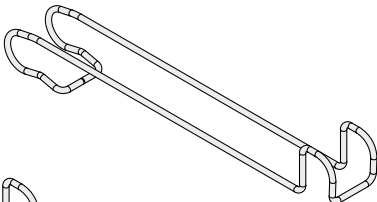
Slide Link

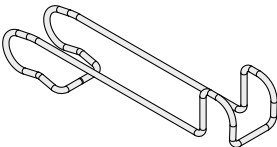
0.0.658.75 📄 159

0.0.658.76 📄 159

0.0.658.77 📄 159








Roller D46

0.0.664.48

0.0.674.60 ESD

📄 163




Fastening Ring

0.0.673.10

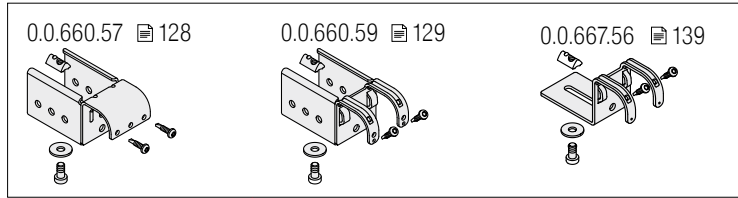
0.0.674.85 ESD

📄 164

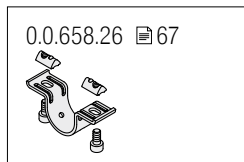
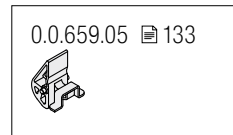


Roller Conveyor 6 40x40 E D30.

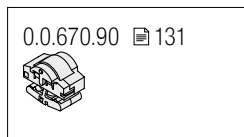
Roller Conveyor Fastening Brackets



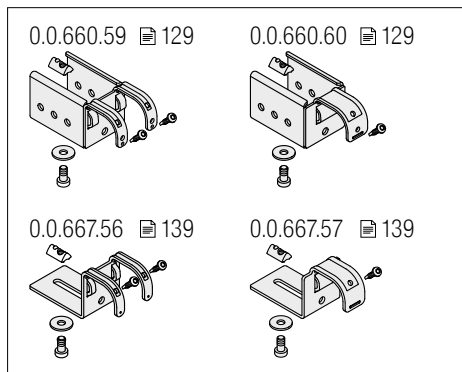
Back Stop



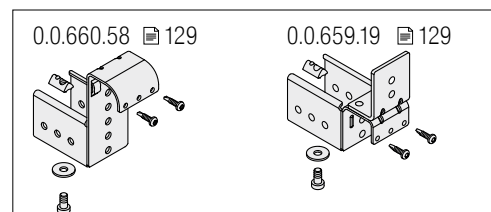
Braking Castor



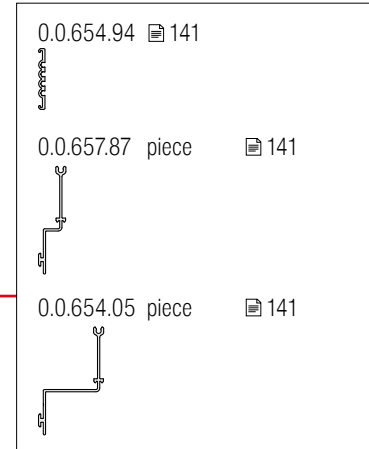
Roller Conveyor Fastening Brackets U + I



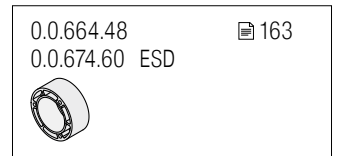
Roller Conveyor Fastening Brackets with Stop



Guide Rails and Slide Strip



See Roller Conveyor St D30 on page 92



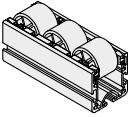

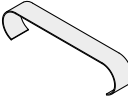
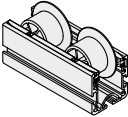

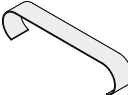
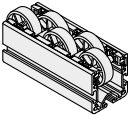

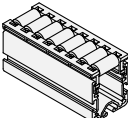
Fastening Ring



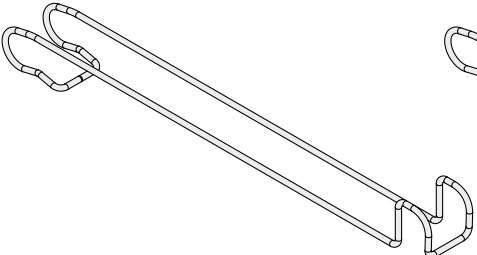
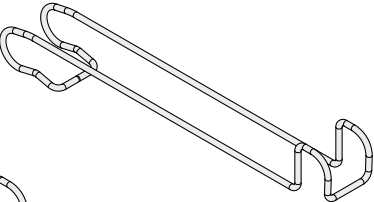
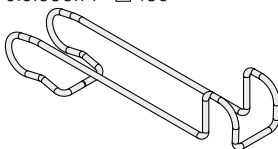
Roller conveyors

Roller elements

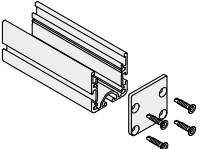
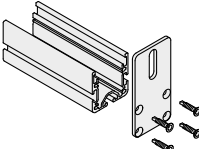
Brakes

<p>0.0.658.68 piece 0.0.662.75 ESD piece</p> 	<p>0.0.620.42 red 0.0.620.44 yellow 0.0.620.46 green</p> 	<p>0.0.647.76 115</p> 
<p>0.0.658.70 piece 0.0.662.77 ESD piece</p> 	<p>0.0.620.52 red 0.0.620.54 yellow 0.0.620.56 green</p> 	<p>0.0.647.76 115</p> 
<p>0.0.658.72 piece 0.0.662.79 ESD piece</p> 		<p>0.0.661.22 130</p> 
<p>0.0.662.82 piece 0.0.662.84 ESD piece</p> 		

Slide Link

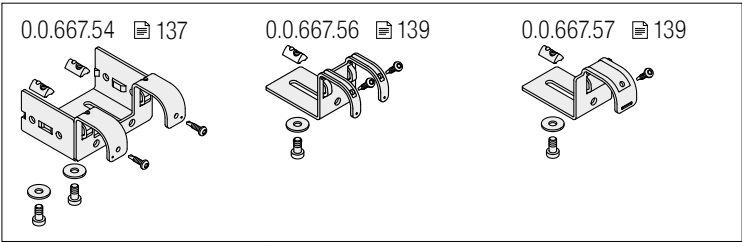
<p>0.0.658.75 159</p> 	<p>0.0.658.76 159</p> 	<p>0.0.658.77 159</p> 
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Caps

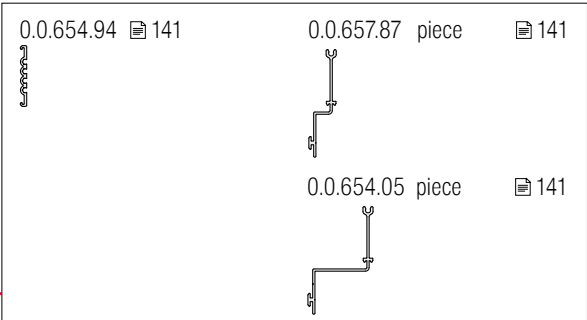
<p>0.0.622.29 158</p> 	<p>0.0.622.30 158</p> 
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Roller Conveyor 6 80x40 E D30.

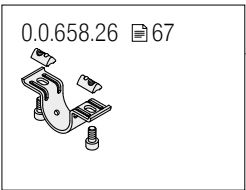
Roller Conveyor Fastening Brackets



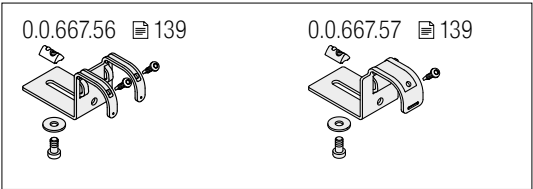
Guide Rails and Slide Strip



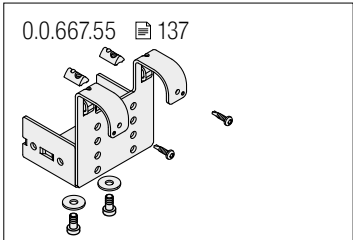
Bracket



Roller Conveyor Fastening Brackets U + I



Roller Conveyor Fastening Brackets with Stop

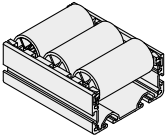


Roller conveyors

0.0.667.48
0.0.667.49 ESD

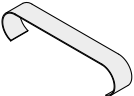
piece
piece

135



0.0.647.76

115

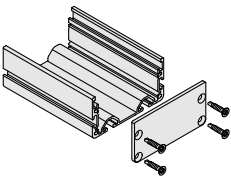


Brakes

Caps

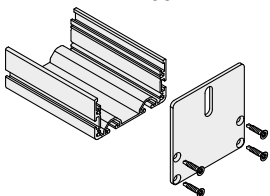
0.0.668.99

158



0.0.669.00

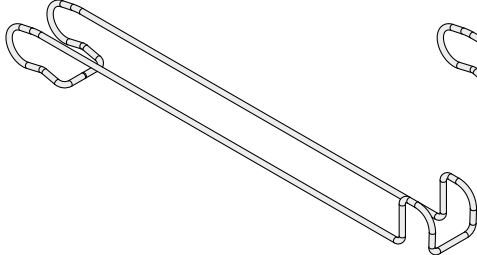
158



Slide Link

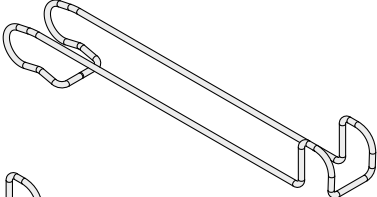
0.0.658.75

159



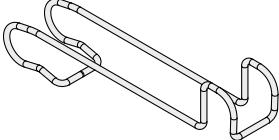
0.0.658.76

159



0.0.658.77


159



Roller D46


0.0.664.48
0.0.674.60 ESD

163



0.0.673.10
0.0.674.85 ESD

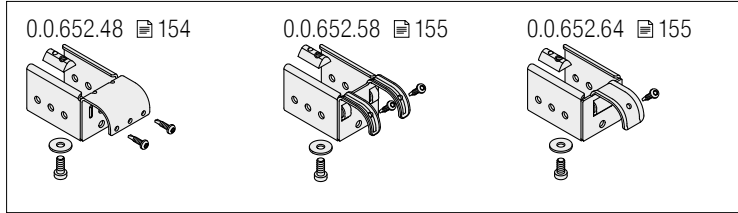
164



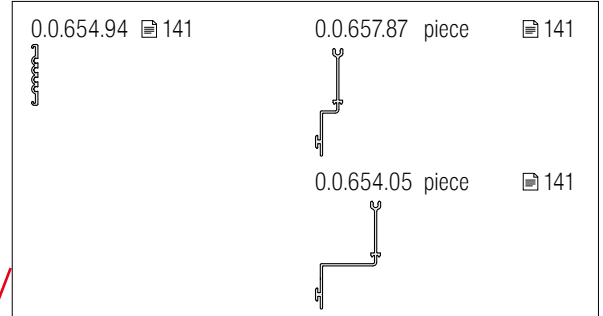
Fastening Ring

Roller Conveyor 8 D30.

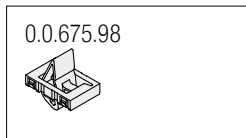
Roller Conveyor Fastening Brackets



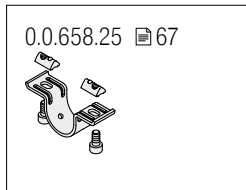
Guide Rails and Slide Strip



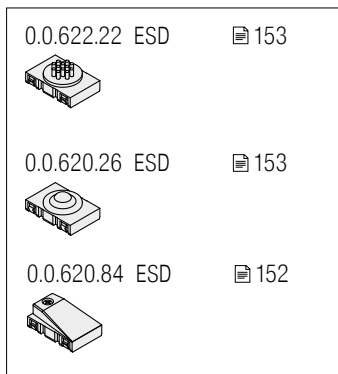
Back Stop Insert ESD



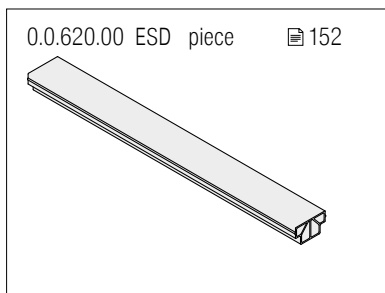
Bracket



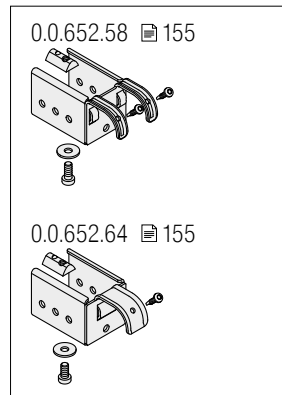
Inserts



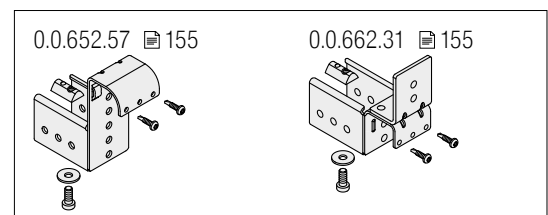
Castor Rail Slide Strip



Roller Conveyor Fastening Brackets U + I



Roller Conveyor Fastening Brackets with Stop

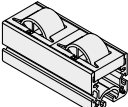

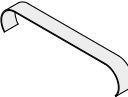
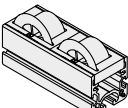

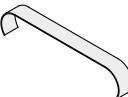
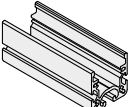



See Roller Conveyor St D30 on page 92

Roller conveyors

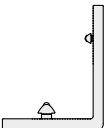

Roller element insert

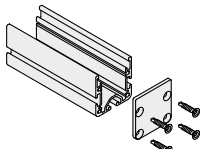
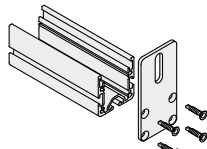
Brakes

<p>0.0.628.40 cut-off 149</p> <p>0.0.628.42 ESD cut-off</p> 	<p>0.0.627.06 red 150</p> <p>0.0.627.07 yellow</p> <p>0.0.627.08 green</p> 	<p>0.0.619.34 151</p> 
<p>0.0.628.41 cut-off 149</p> <p>0.0.628.43 ESD cut-off</p> 	<p>0.0.627.09 red 150</p> <p>0.0.627.10 yellow</p> <p>0.0.627.11 green</p> 	<p>0.0.619.34 151</p> 
<p>0.0.626.91 cut-off 149</p> 	<p>0.0.644.55 151</p> <p>0.0.648.98 ESD</p> 	

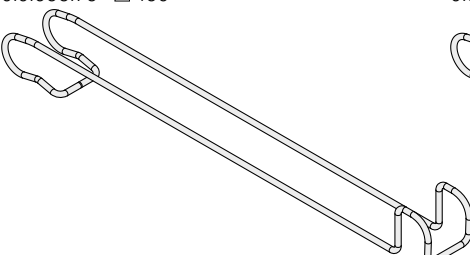
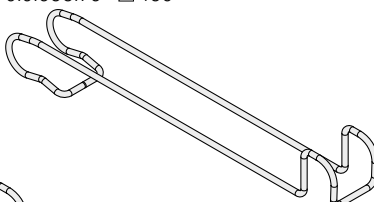
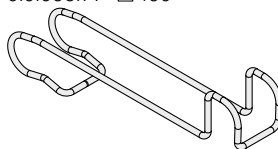
Railing Support and accessories

Caps

<p>0.0.622.20 156</p> 	<p>0.0.627.35 156</p> 
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

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Slide Link

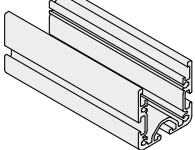


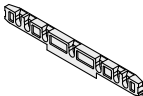
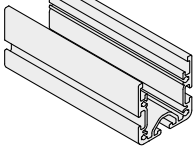


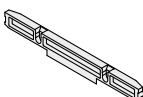
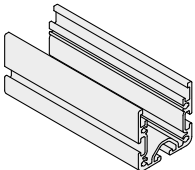


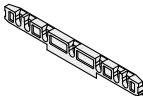
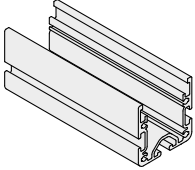


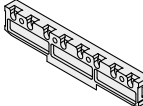
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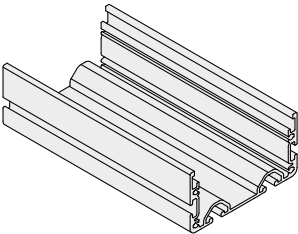

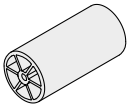
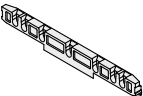
Roller D46


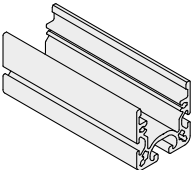

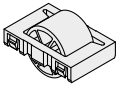

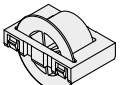

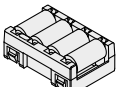

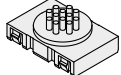

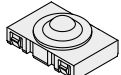


Fastening Ring

<p>0.0.664.48 163</p> <p>0.0.674.60 ESD</p> 	<p>0.0.673.10 164</p> <p>0.0.674.85 ESD</p> 
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Individual parts for Roller Conveyors 6 and 8.

Castor Rails	Roller elements	Axes	Roller Tracks
Roller Conveyor 6 40x40 E D30			
0.0.651.29 cut-off 0.0.650.47 piece 	0.0.620.36 grey 0.0.620.41 ESD black 0.0.620.42 red 0.0.620.44 yellow 0.0.620.46 green 	0.0.619.13 	0.0.649.60 grey 0.0.662.24 ESD black 
Roller Conveyor 6 40x40 E D30 with Flanged Wheel			
0.0.651.29 cut-off 0.0.650.47 piece 	0.0.620.37 grey 0.0.620.51 ESD black 0.0.620.52 red 0.0.620.54 yellow 0.0.620.56 green 	0.0.619.13 	0.0.650.48 grey 0.0.662.25 ESD black 
Roller Conveyor 6 40x40 E D30/2			
0.0.651.29 cut-off 0.0.650.47 piece 	0.0.656.78 grey 0.0.656.85 ESD black 	0.0.619.13 	0.0.649.60 grey 0.0.662.24 ESD black 
Roller Conveyor 6 40x40 E D30 D11			
0.0.651.29 cut-off 0.0.650.47 piece 	0.0.664.56 grey 0.0.648.97 ESD black 	0.0.619.13 	0.0.656.87 grey 0.0.662.48 ESD black 

Castor Rails	Roller element inserts / roller elements	Axles	Roller Tracks
Roller Conveyor 6 80x40 E D30			
0.0.662.36 cut-off  142 0.0.662.16 piece 	0.0.662.97 grey  144 0.0.664.42 ESD black 	0.0.662.37  145 	0.0.649.60 grey  147 0.0.662.24 ESD black 

Castor Rails	Roller element inserts / roller elements
Roller Conveyor 8 D30	
0.0.626.91 cut-off  149 0.0.618.28 piece 	<div> 0.0.620.16 black  150 0.0.622.27 ESD black 0.0.627.06 red 0.0.627.07 yellow 0.0.627.08 green  </div> <div> 0.0.620.06 black  150 0.0.622.28 ESD black 0.0.627.09 red 0.0.627.10 yellow 0.0.627.11 green  </div> <div> 0.0.644.55  151 0.0.648.98 ESD  </div>
	<div> 0.0.622.22 ESD  153  </div> <div> 0.0.620.26 ESD  153  </div> <div> 0.0.620.84 ESD  152  </div>



Roller Conveyors St D30

- The stable basic roller conveyor
- Steel sheet profile can be cut to length easily
- Various roller element types available
- Steel-covered castors for goods with abrasive surfaces



It couldn't be easier. The easy-running roller conveyor with steel axles and an exceptional service life is delivered ready to install. Simply cut it to the necessary length, select the right brackets, screw it in place and your conveyor line is good to go!

Depending on how smoothly the line needs to run, you can choose between the standard Roller Conveyor D30 (33 mm axle spacing, with or without flanged wheel) or Roller Conveyor D30/2 (16.5 mm axle spacing).

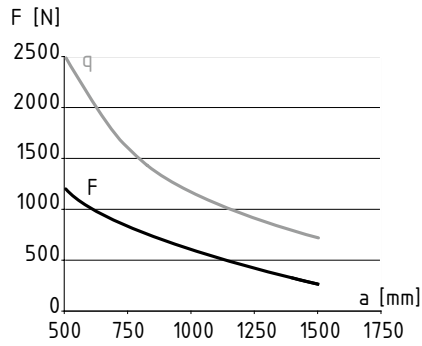
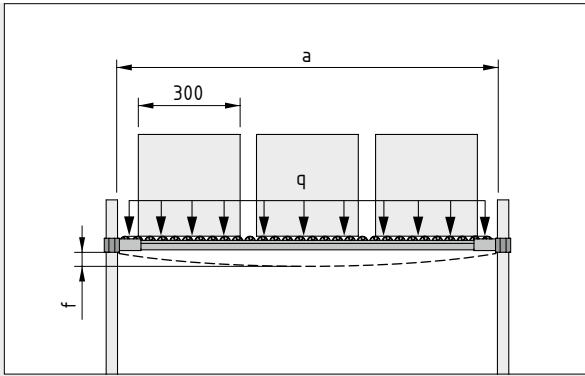
Things that would scratch or damage standard castors can usually be transported directly on Roller Conveyor St D30 with Steel Tyres, without first having to be placed in a container. Thanks to their steel covering, the roller elements in this conveyor are resistant to hot, metallic and sharp-edged components.

The special design that halves the gap between rollers for double the care. Roller Conveyor St D30/2 offers extremely gentle rolling motion and keeps noise levels low.

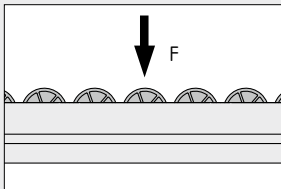
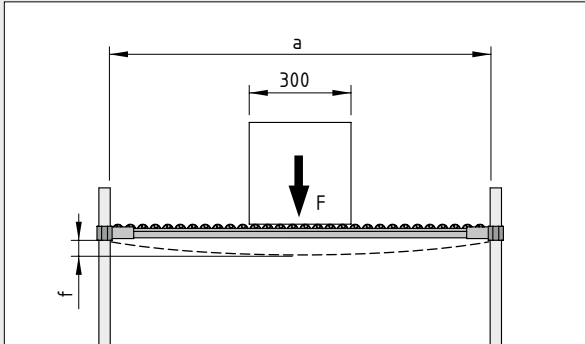
Perfect for transporting sensitive or delicate goods and with extremely low rolling resistance.

Also available in an ESD-safe version for components with particularly high mechanical and electrical requirements.

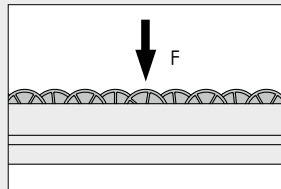




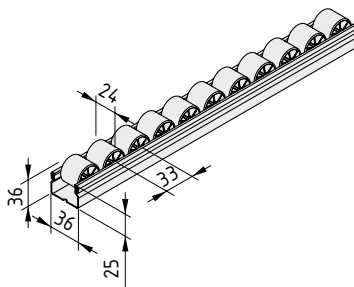
Load specifications for two parallel Roller Conveyors.
Maximum recommended profile deflection:
 $f < 1/100 a$



Permissible force on a single
roller element of Roller Conveyor
St D30: $F < 100 \text{ N}$



Permissible force on a single
roller element of Roller Conveyor
St D30/2: $F < 50 \text{ N}$



Roller Conveyor St D30

St, bright zinc-plated
Castors, PP, grey
Axles, St, bright zinc-plated
 $m = 844 \text{ g/m}$

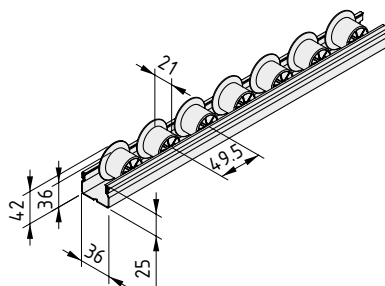
grey, 1 pce., length 4500 mm	0.0.633.91
grey, 1 pce., length 3000 mm	0.0.648.42

Roller Conveyor St D30 ESD



St, bright zinc-plated
Castors, PP, black (ESD)
Axles, St, bright zinc-plated
 $m = 873 \text{ g/m}$

black, 1 pce., length 4500 mm	0.0.637.55
black, 1 pce., length 3000 mm	0.0.648.43

**Roller Conveyor St D30 with Flanged Wheel**

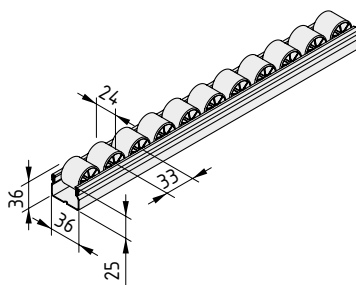
St, bright zinc-plated
 Castors, PP, grey
 Axles, St, bright zinc-plated
 m = 756 g/m

grey, 1 pce., length 4500 mm	0.0.633.92
grey, 1 pce., length 3000 mm	0.0.648.44

Roller Conveyor St D30 ESD with Flanged Wheel

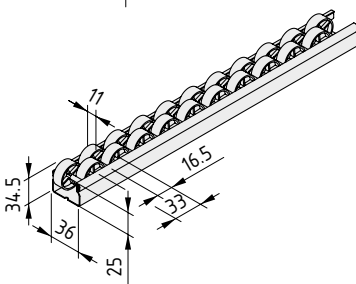
St, bright zinc-plated
 Castors, PP, black (ESD)
 Axles, St, bright zinc-plated
 m = 756 g/m

black, 1 pce., length 4500 mm	0.0.637.56
black, 1 pce., length 3000 mm	0.0.648.45

**Roller Conveyor St D30 with Steel Tyres**

St, bright zinc-plated
 Castors, PP, grey and St, stainless
 Axles, St, bright zinc-plated
 m = 1300 g/m

bright zinc-plated, 1 pce., length 4000 mm	0.0.650.74
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**Roller Conveyor St D30/2**

St, bright zinc-plated
 Castors, PP, grey
 Axles, St, bright zinc-plated
 m = 900 g/m

grey, 1 pce., length 4500 mm	0.0.648.91
grey, 1 pce., length 3000 mm	0.0.648.77

Roller Conveyor St D30/2 ESD

St, bright zinc-plated
 Castors, PP, black (ESD)
 Axles, St, bright zinc-plated
 m = 900 g/m

black, 1 pce., length 4500 mm	0.0.648.94
black, 1 pce., length 3000 mm	0.0.649.54



Roller Conveyor St Fastening Brackets D30

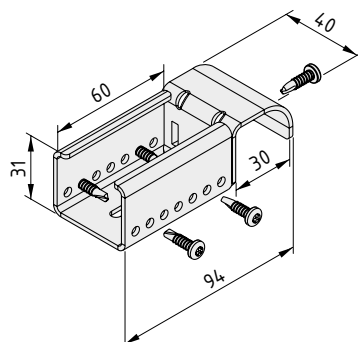
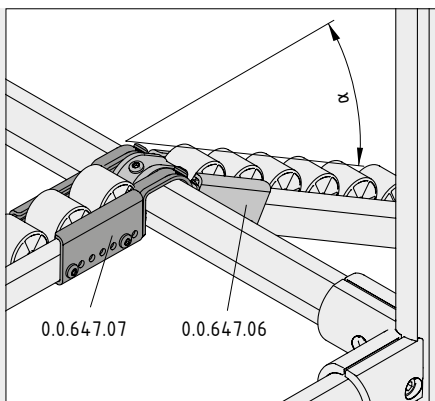
- Can be fitted at any angle
- For inclined roller conveyors
- Limit stop for Roller Conveyor St



Sound support for Roller Conveyor St D30. Simply insert it into the Roller Conveyor St Fastening Bracket D30 and hang the bracket on a (Profile) Tube D30. If required, the Roller Conveyor Fastening Bracket can also be screwed into place.

The bridge between two Roller Conveyors St D30 if gradients change. Fastening bracket I slots into fastening bracket U. The fastening is securely clamped onto a (Profile) Tube D30 and can also be fixed in place using self-tapping screws. The fastener remains flexible, which means that if gradient α should change at a later point in time, it can be adjusted accordingly.

An absolute must when building Kanban racks.



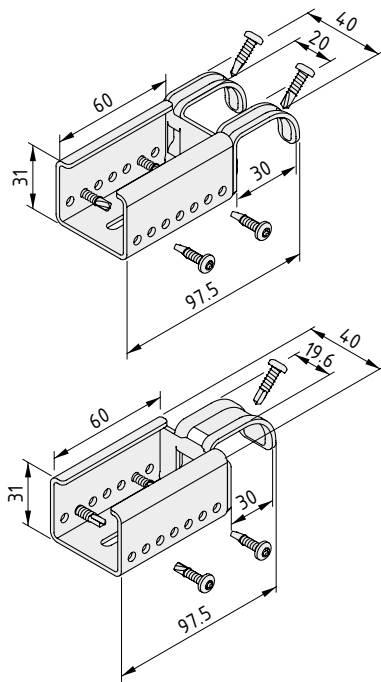
Roller Conveyor St Fastening Bracket D30



St, bright zinc-plated
5 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 161.0 g

1 set

0.0.642.47



Roller Conveyor St, Fastening Bracket U D30



St, bright zinc-plated
6 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 150.0 g

1 set

0.0.647.07

Roller Conveyor St, Fastening Bracket I D30



St, bright zinc-plated
5 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 145.0 g

1 set

0.0.647.06



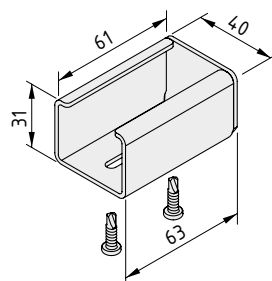
Roller Conveyor St, End Cap

- Safe covering for cut edges
- Simply slides on



Safety first! The sharp edges at the ends of exposed roller conveyors no longer need to be filed down to prevent cuts and other damage and injuries. Simply slot on the robust end cap and secure it in place with the enclosed self-tapping screws – that's all it takes to create permanent edge protection for roller conveyors.

A must for all loading and unloading stations.



Roller Conveyor St, End Cap



St, bright zinc-plated
2 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 117.0 g

1 set

0.0.647.08



Roller Conveyor St Fastening Brackets D30 with Stop

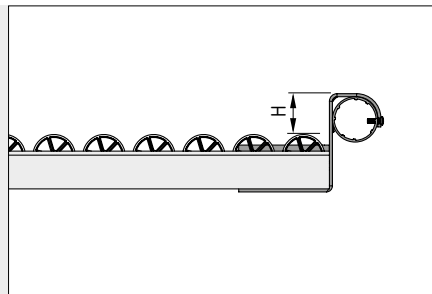
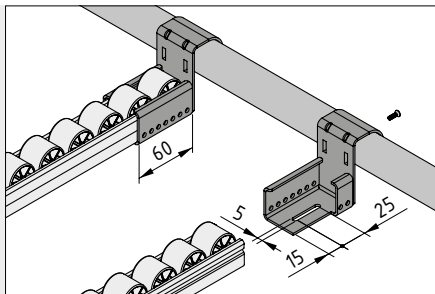
- Can be fitted at any angle
- For inclined roller conveyors
- Limit stop for Roller Conveyor St



Sound support for Roller Conveyor St D30. Simply insert it into the Roller Conveyor St Fastening Bracket D30 and hang the bracket on a (Profile) Tube D30. If required, the Roller Conveyor Fastening Bracket can also be screwed into place.

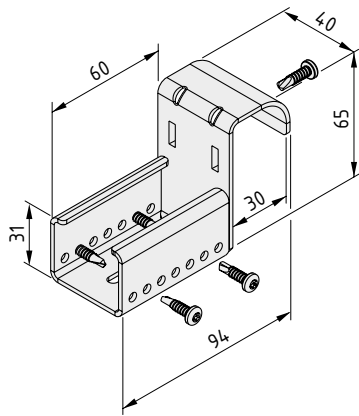
A fastening bracket and stop in one that is easy to fit to the Roller Conveyor St D30 and Tube D30. Roller Conveyor St Fastening Brackets D30 with Stop H43 or H27 bring goods and workpiece carriers to a halt at the end of the conveyor line. If required, the Roller Conveyor Fastening Bracket can also be screwed into place.

When heavier loads are involved, Roller Conveyor St, Fastening Bracket D30 with Forward Stop H43 is the best option. This bracket brings boxes to a stop closer to the removal point than the tried-and-tested Roller Conveyor St, Fastening Bracket D30 with Stop H43 (0.0.652.46), which results in shorter reaching distances and better ergonomics.



Roller Conveyor St Fastening Bracket D30 can be fixed in place in a matter of seconds with the self-tapping Button-Head Screw – simply use a cordless driver to drive the screw into the (Profile) Tube D30.

Roller Conveyor St, Fastening Brackets D30 with Stop are available with stops of different heights – 27 mm or 43 mm.



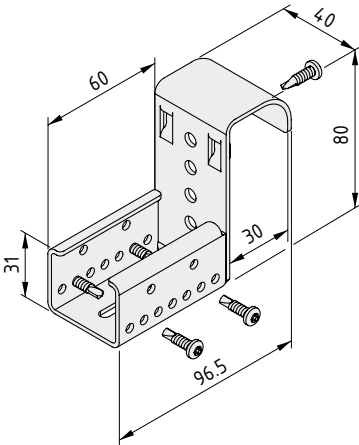
Roller Conveyor St, Fastening Bracket D30 with Stop H27



St, bright zinc-plated
5 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 171.0 g

1 set

0.0.642.46



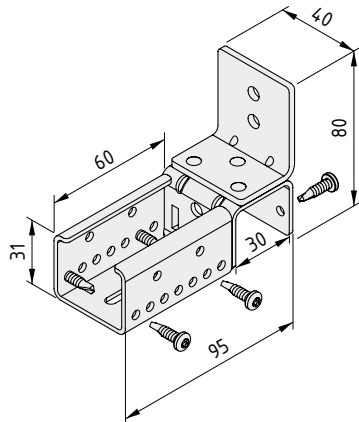
Roller Conveyor St, Fastening Bracket D30 with Stop H43



St, bright zinc-plated
5 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 173.0 g

1 set

0.0.652.46



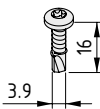
Roller Conveyor St, Fastening Bracket D30 with Forward Stop H43



St, bright zinc-plated
6 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 220.0 g

1 set

0.0.658.17



Button-Head Screw, self-tapping St 3.9x16, TX20



St
m = 1.4 g

bright zinc-plated, 1 pce.

0.0.642.39



Detailed information on height dimensions and roller conveyor lengths can be found in a table in the Technical data section on page 179.

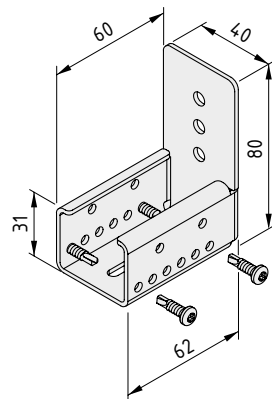


Roller Conveyor St Stop H43

- Limit stop for Roller Conveyor St



A practical accessory for Roller Conveyor St. Because Roller Conveyor St Stop H43 is not mounted to a cross profile, users can build roller conveyors that project outside a frame and thus reduce reaching distances. Light transport boxes are brought safely to a halt.



Roller Conveyor St Stop H43



St, bright zinc-plated

4 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated

m = 147.0 g

1 set

0.0.658.16



Roller Conveyor St Fastening Bracket Adapter Sleeve D30 ESD

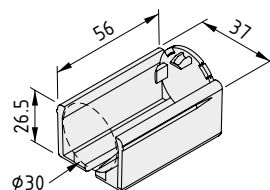
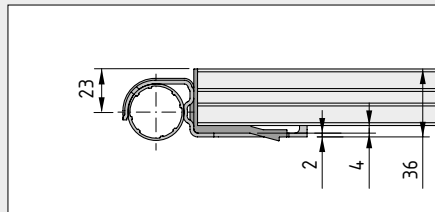
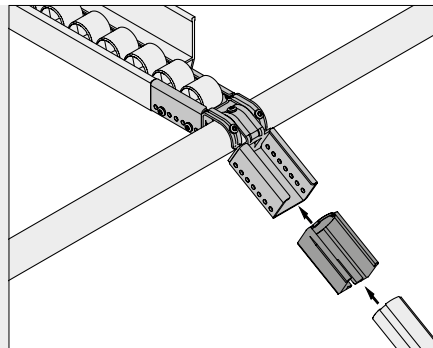
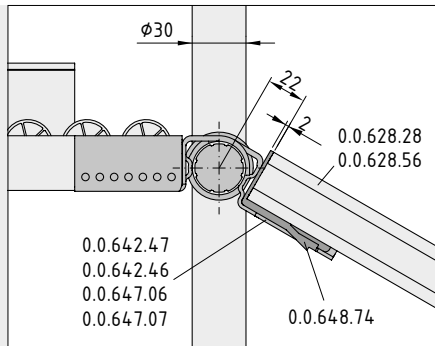
- For building slideways and set-down areas with Slide Strips D30
- Enables use of Profiles D30 with Roller Conveyor St Fastening Bracket D30



Have you ever tried installing a Profile Tube D30 between two parallel tubes to form a strut that can be used as a set-down surface or slideway? The adapter sleeves make it easier than ever, turning any roller conveyor fastening bracket into a tube fastener in an instant.

Simply push an adapter sleeve into a roller conveyor fastening bracket and then insert a Profile Tube – with a Slide Strip fitted to it, if you wish. That's all it takes to fit a strong horizontal or vertical strut that can be repositioned at will, or fastened permanently in place, if you prefer.

The same colour coding used for plastic components in Line D30 also applies to this product – black indicates the plastic is ESD-safe. As a result, even sensitive components can enjoy a safe ride on slideways.



Roller Conveyor St Fastening Bracket Adapter Sleeve D30 ESD



PA-GF
m = 20.0 g

black, 1 pce.

0.0.648.74



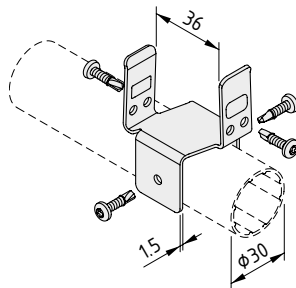
Roller Conveyor St, Supports D30

- Fixing for a stabilising cross-strut
- Reduces deflection on Roller Conveyor St D30



Sometimes support is essential. Even in the case of Roller Conveyors St D30, it can be useful to fit a stabilising D30 strut to counter excessive profile deflection when working with heavy loads.

Roller Conveyor St, Supports connect Roller Conveyor St to a D30 strut running underneath it. The Supports are screwed to the cross profile and the roller conveyor is simply dropped in place, although it can also be screwed in place for an extra strong hold.



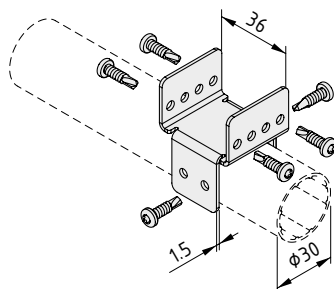
Roller Conveyor St, Support D30



St, bright zinc-plated
4 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 46.0 g

1 set

0.0.647.10



Roller Conveyor St, Support D30 H22



St, bright zinc-plated
6 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 24.0 g

1 set

0.0.658.18

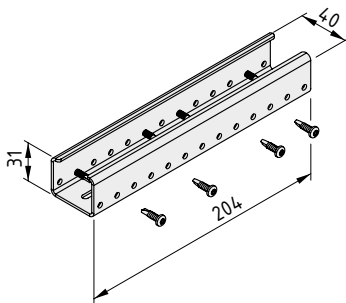


Roller Conveyor St, Butt Fastener

- Connect roller conveyors D30
- Extend lines
- Connect different roller conveyors

No end in sight! The Butt Fastener combines separate Roller Conveyors St D30 into a single continuous line. It also enables users to combine different variants in a single roller conveyor line.

Simply insert the ends of the conveyors into either end of the Butt Fastener. Use self-tapping screws to fasten the roller conveyors in place. The result is a strong, space-saving extension for a Roller Conveyor St D30. You decide where the conveyor line stops.



Roller Conveyor St, Butt Fastener

St, bright zinc-plated
8 Button-Head Screws, self-tapping St, 3.9x16, TX20
m = 329.0 g

1 set

0.0.654.75

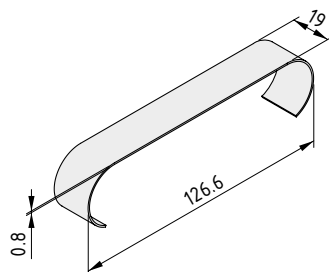
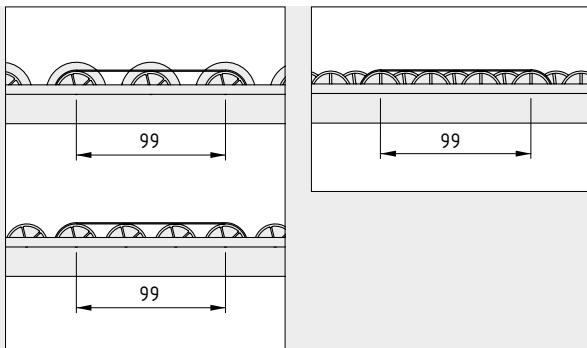


Roller Conveyor St D30 Brakes

- Slow down and stop transported goods
- For castors with and without flanged wheels

Slowing things down. This brake helps to slow down the flow of goods on Roller Conveyor St D30 at precisely the point where goods need to move more slowly.

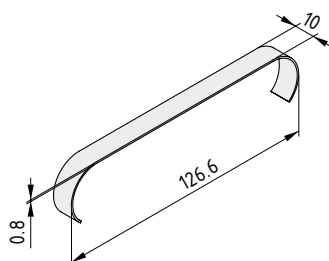
The brake is simply fitted onto the castors.



Roller Conveyor St D30 Brake

St
m = 20.0 g
stainless, 1 pce.

0.0.647.76



Roller Conveyor St D30/2 Brake

St
m = 10.0 g
stainless, 1 pce.

0.0.650.55



Roller Conveyor St Guide Rails

- Side guidance for containers
- Two variants for different application scenarios



They know where they're going. Guide rails add a lateral guide surface to Roller Conveyor St that keeps crates and workpieces on track.

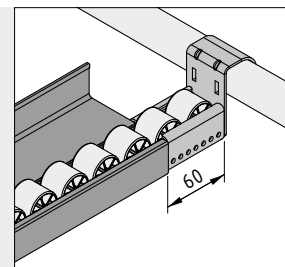
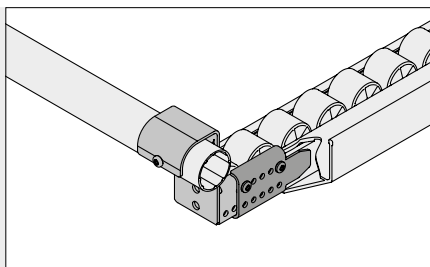
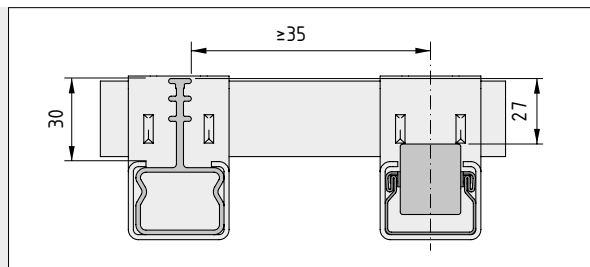
Two types of guide rail are available – guide rails e provide a guiding surface along the outer sides of a conveyor line and are fitted directly onto Roller Conveyor St D30. Guide rails z, on the other hand, can be positioned wherever necessary and can even be used to separate parallel conveyor lines. They are installed using Roller Conveyor St Fastening Brackets D30 and form separate stop and slide strips in Kanban trolleys and conveyor lines.

The guide rails are also available in an electrostatically dissipative (ESD-safe, black) version to help protect sensitive products.

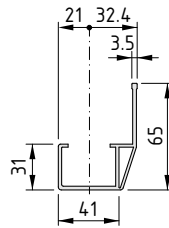


Guide rails e are subjected to strong forces when heavy transport goods are deposited on the conveyor line. The robust Retaining Plate, Guide Rail e provides additional stability. It is screwed to the Roller Conveyor and the Roller Conveyor Fastening Bracket and absorbs impacts.

Retaining Plate, Guide Rail e can also be retrofitted to structures to provide extra support for guide rails e.



A Retaining Plate (0.0.650.83) can also be fitted to the side of guide rails e to deliver additional support. They are screwed into place using self-tapping screws driven through the upper holes in the Retaining Plate.



Roller Conveyor St Guide Rail e 32

PVC

m = 596 g/m

grey, 1 pce., length 4500 mm

0.0.648.70

Roller Conveyor St Guide Rail e 32 ESD

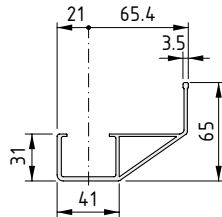


ABS ESD

m = 468 g/m

black, 1 pce., length 4500 mm

0.0.648.72



Roller Conveyor St Guide Rail e 65

PVC

m = 850 g/m

grey similar to RAL 7042, 1 pce., length 4500 mm

0.0.639.01

Roller Conveyor St Guide Rail e 65 ESD

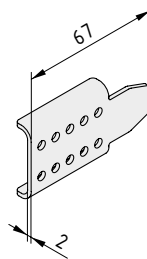


ABS ESD

m = 625 g/m

black, 1 pce., length 4500 mm

0.0.641.77



Retaining Plate, Guide Rail e

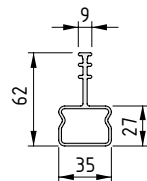


St

m = 36.0 g

bright zinc-plated, 1 pce.

0.0.650.83



Roller Conveyor St Guide Rail z

PVC

m = 578 g/m

grey similar to RAL 7042, 1 pce., length 4500 mm

0.0.639.05

Roller Conveyor St Guide Rail z ESD



ABS ESD

m = 423 g/m

black, 1 pce., length 4500 mm

0.0.641.78

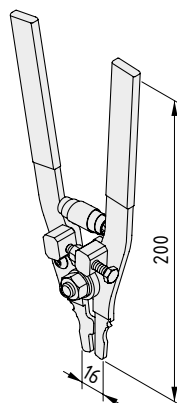


Roller Conveyor St, Assembly Pliers

- Change castors the easy way
- Forces the flanks of the roller conveyor apart

The Assembly Pliers give you more room to manoeuvre by forcing the flanks of Roller Conveyor St apart slightly, making it easier to remove and replace castors.

They ensure castors can be changed quickly and effortlessly.



Roller Conveyor St, Assembly Pliers

St
m = 275.0 g
stainless, 1 pce.

0.0.654.73



Roller Conveyor St 60x24 D15

- Low construction height and high bending strength
- Can be fastened at any angle
- Wide rollers ideally suited to transporting goods with uneven bases
- Fastening Profile for side guidance strengthens roller conveyor

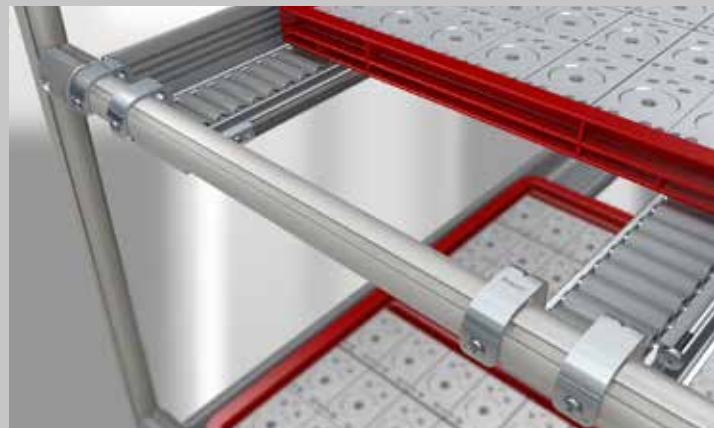


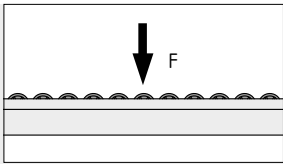
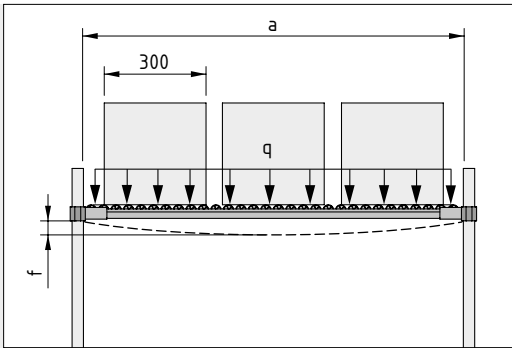
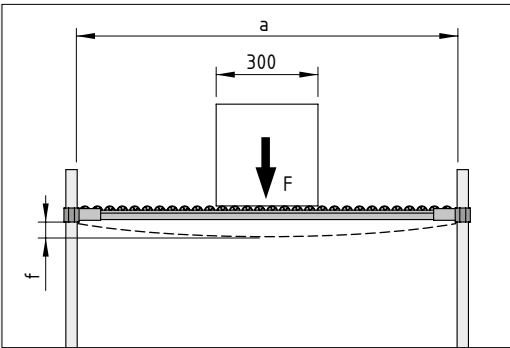
The robust roller conveyor for all scenarios. Thanks to its wide rollers and low roller diameter, Roller Conveyor St 60x24 D15 is compatible with most installation scenarios and sensitive transported goods – even crates and goods with awkward bases. Due to its very low installation height, this roller conveyor can also be used for side guidance and installed at any angle.

Fixing it to a frame couldn't be easier: Roller Conveyor 60 Fastening Bracket D30 is fitted to the start and end of a roller conveyor and used to hang the conveyor on a frame. Roller Conveyor 60 Fastening Bracket D30 with Stop H43 is used as a stop at the end of a Roller Conveyor St 60.

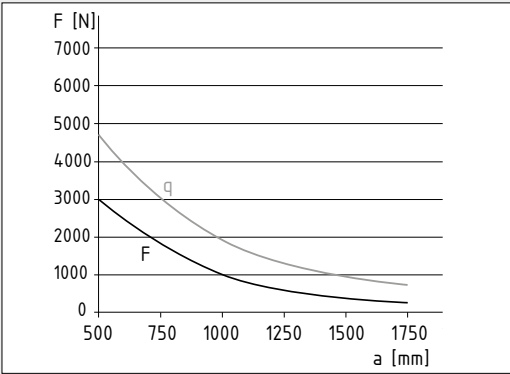
Fastening Profile D30-60 extends the capabilities of Roller Conveyor St 60. It enables the connection of a side guide, makes the roller conveyor more rigid and provides the contour of a Profile D30 on the underside to support additional connection options.

Roller Conveyor St 60 is supplied preassembled and in the desired length.

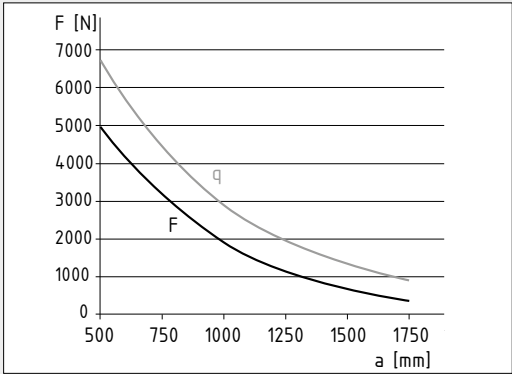




Permissible force on a single roller of Roller Conveyor St 60x24 D15: $F < 100\text{ N}$



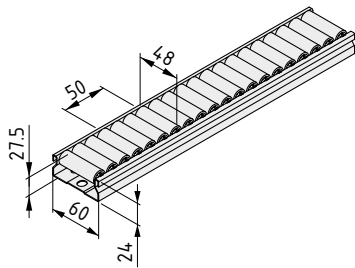
Roller Conveyor St 60x24 D15
The additional use of Fastening Profile D30-60 increases resistance to profile deflection. Permissible load increases by 20 percent compared to the diagram.



Roller Conveyor St 60x24 D15
Roller Conveyor St 60x24 D15 with Fastening Profile D30-60 and Guide Rail e 4
Recommended load on Roller Conveyor St 60x24 D15 with Fastening Profile D30-60 and Guide Rail e 4.

Load specifications for two parallel Roller Conveyors. Maximum recommended profile deflection: $f < 1/100\text{ a}$

Caution:
Note the maximum load-carrying capacity of the components involved.



Roller Conveyor St 60x24 D15	
St, bright zinc-plated	
Rollers PP, grey	
Axles St, bright zinc-plated	
$m = 1.53\text{ kg/m}$	
cut-off max. 4500 mm	0.0.673.74
1 pce., length 4500 mm	0.0.670.87
Roller Conveyor St 60x24 D15, ESD	
St, bright zinc-plated	
Rollers PP, black	
Axles St, bright zinc-plated	
$m = 1.53\text{ kg/m}$	
cut-off max. 4500 mm	0.0.673.75
1 pce., length 4500 mm	0.0.673.73

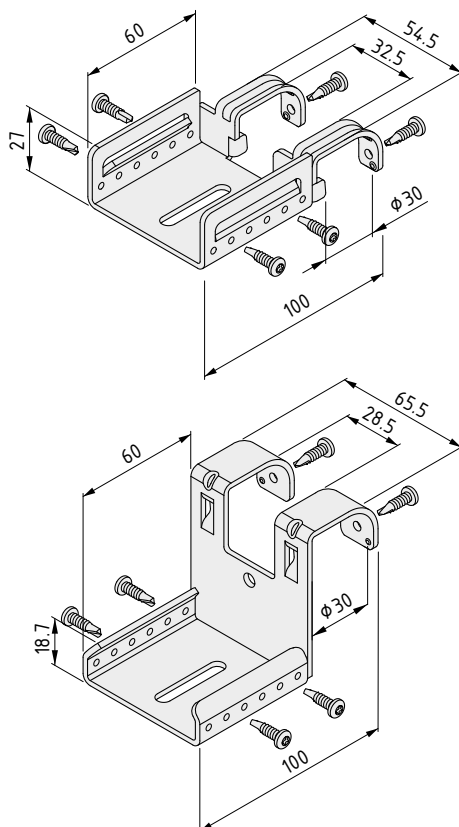


Roller Conveyor 60 Fastening Brackets D30

- Strong and secure
- Simple transitions
- Secure limit stop

Secure hold and optimum extendibility in one! Roller Conveyor 60 Fastening Bracket D30 creates a connection with the frame at the start and end of a Roller Conveyor St 60x24 D15. Thanks to the asymmetrical arrangement of the hooks, two Fastening Brackets can be fixed to the same Tube to create level or angled conveyor lines. This reduces the number of different parts that are required, which benefits stockkeeping.

Roller Conveyor 60 Fastening Bracket D30 with Stop H43 can be used to bring containers safely to a stop at the end of Roller Conveyor St 60x24 D15. The raised stop secures crates and prevents them travelling too far.



Roller Conveyor 60 Fastening Bracket D30

St, bright zinc-plated
6 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 174.0 g

1 set	0.0.674.02
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Roller Conveyor 60 Fastening Bracket D30 with Stop H43

St, bright zinc-plated
6 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 231.0 g

1 set	0.0.674.03
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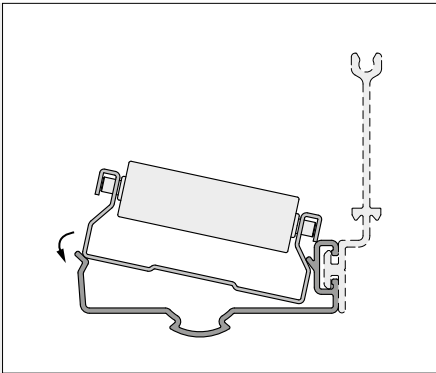


Fastening Profile D30-60

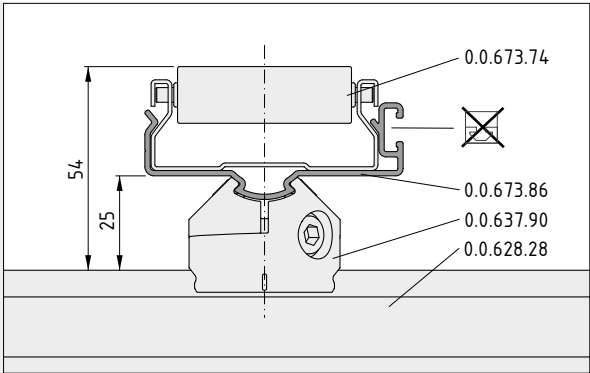
- For fastening Guide Rails
- Boosts the rigidity of Roller Conveyor St 60
- Additional frame-fixing option

This profile keeps things connected! Fastening Profile D30-60 is used to fit a guide rail to Roller Conveyor St 60x24 D15. The roller conveyor is simply slotted or clipped in. A Profile Tube D30 contour runs along the underside of Fastening Profile D30-60 and can be used to connect struts and accessories.

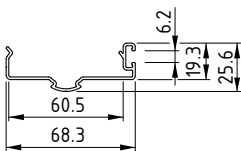
Fitting Guide Rail e 4, which is anchored in the special flat groove along the side, makes the roller conveyor more rigid. The Guide Rail can run right up to the cross tube, thereby minimising the gap where roller conveyors change angle.



Roller Conveyor St 60x24 D15 can be pressed into Fastening Profile D30-60 using a little force or can be slotted into place during assembly.



If necessary, Roller Conveyor St D60x24 D15 can be reinforced against profile deflection with the aid of Fastening Profile D30-60.



Fastening Profile D30-60

Al, untreated	
m = 0.44 kg/m	
natural, cut-off max. 6000 mm	0.0.673.86
natural, 1 pce., length 6000 mm	0.0.673.85



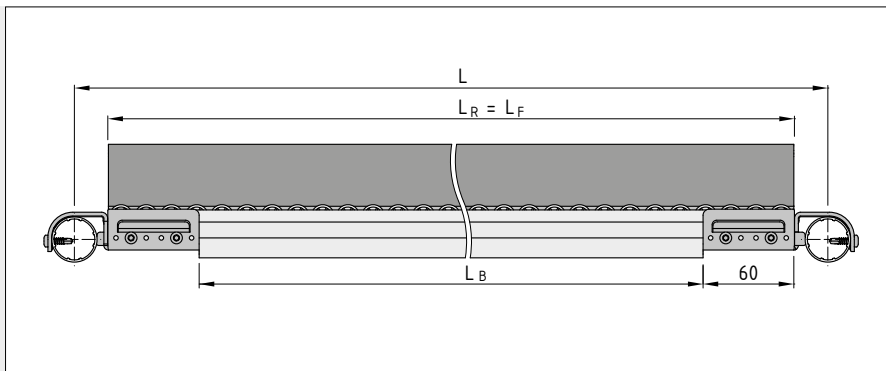
Guide Rail e 4

- A reliable railing for Roller Conveyor St 60
- Boosts the rigidity of Roller Conveyor St 60x24

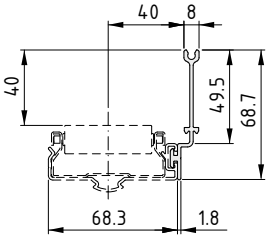
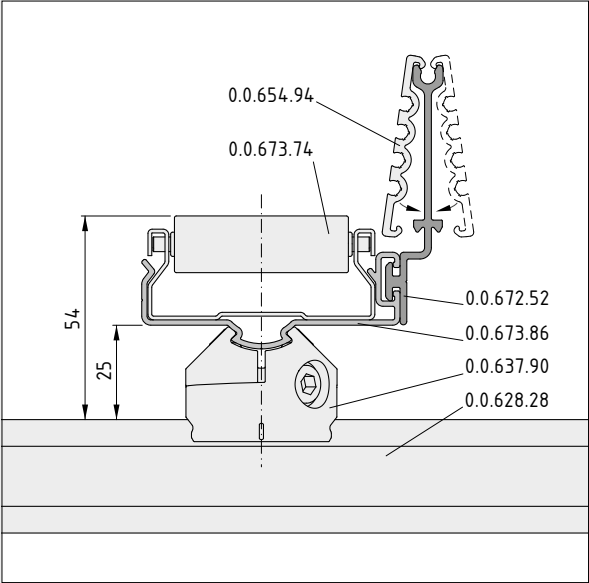
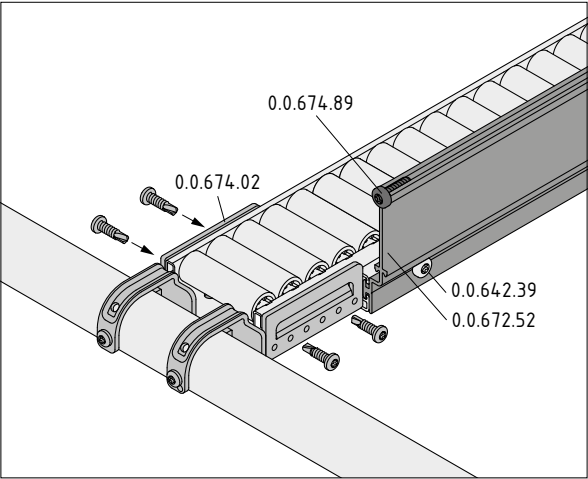
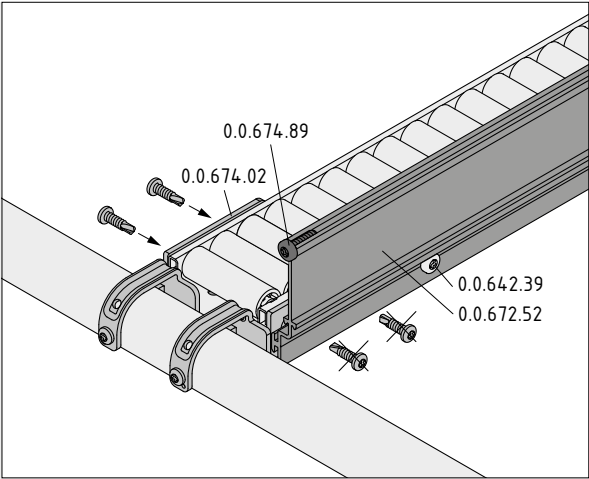
Keeping everything in line! Robust Guide Rail e 4 ensures that crates and goods stay on Roller Conveyor St 60x24 D15. Fastening Profile D30-60 is used to install the Guide Rail.

The aluminium Guide Rail e 4 is inserted into the special groove that runs along the side of the Fastening Profile. The Guide Rail can thus run right up to the cross tube, thereby minimising the gap where roller conveyors change angle. This combination of Guide Rail and Fastening Profile boosts the rigidity of the roller conveyor.

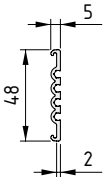
Button-Head Screw Self-Tapping M5x16, TX25 is a dependable and speedy solution for preventing injuries during loading and unloading. It eliminates the need for manual deburring, which lowers assembly costs.



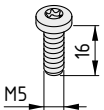
L_R = Roller Conveyor
 L_F = Guide Rail
 L_B = Fastening Profile



Guide Rail e 4	
Al, untreated	
m = 0.51 kg/m	
natural, cut-off max. 6000 mm	0.0.672.52
natural, 1 pce., length 6000 mm	0.0.672.51



Roller Conveyor 6 40x40 E Guide Rail Slide Strip	
PE-HD	
m = 124.0 g/m	
grey similar to RAL 7042, 1 pce., length 3000 mm	0.0.654.94



Button-Head Screw Self-Tapping M5x16, TX25	
St	
m = 4.0 g	
bright zinc-plated, 1 pce.	0.0.674.89



Roller Conveyors 6 40x40 E D30

- Large selection of roller elements – can be changed individually without tools
- High bending strength thanks to aluminium profile
- Suitable as a load-bearing element in racks thanks to Line 6 groove
- Additional Braking Castors – ideal for picking solutions



These roller conveyors are full of ingenious details. Thanks to its rigid aluminium profile, Roller Conveyor 6 40x40 E D30 can carry heavy loads, even over long distances. It is supplied preassembled and ready for immediate use.

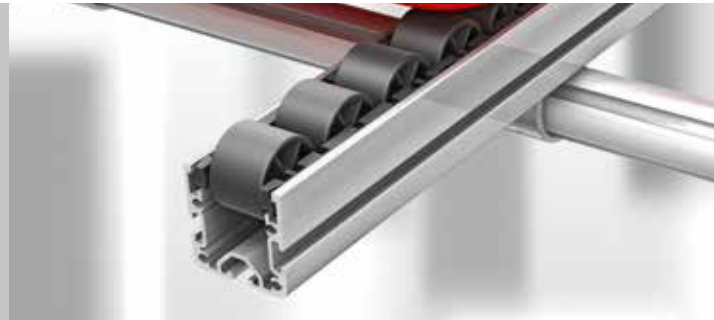
The underside of Roller Conveyor 6 features a Line 6 groove that can be used to secure the conveyor line to a frame, generating a friction-based connection and a lasting hold that also enhances the stability of the frame. Even when the roller conveyor projects beyond the frame, it will not slip. What's more, additional components or panel elements can be fitted to the underside of the roller conveyor to protect other transport lines underneath from falling debris and soiling.

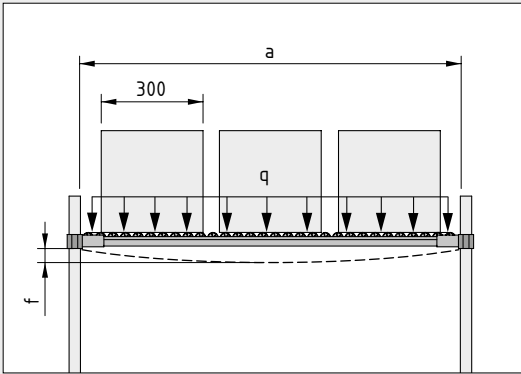
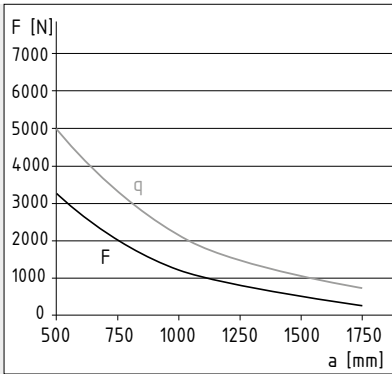
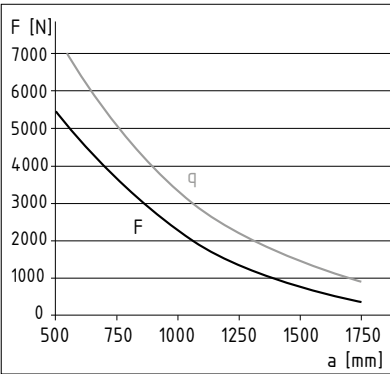
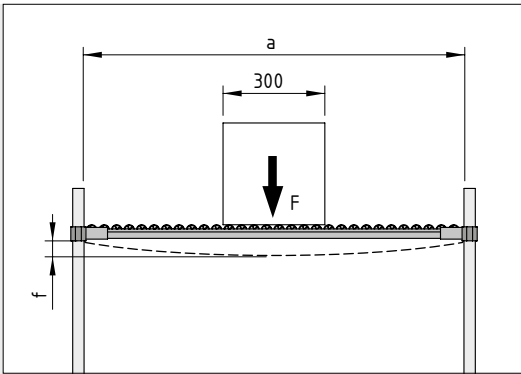
Roller Conveyor 6 40x40 E D30 is available in customised lengths fitted with Castors D30 (with or without flanged wheels) and side-by-side offset Castors D30/2 or Rollers D11. The tight roller spacing of Rollers D11 provides continuous support for small and sensitive goods along the entire line. This minimises vibration and ensures that even soft-bottomed cardboard boxes can be conveyed.

If necessary, individual roller elements can be replaced without having to use tools or take out other roller elements first.

To make sure workpieces stay on track, sturdy aluminium guide rails can also be added. These are very easily installed using a special groove and further boost the rigidity of the conveyor line. Additional Slide Strips stop sensitive goods from getting scratched. Braking Castors can be used to regulate the running speed of containers depending on their weight, which is beneficial for picking solutions.

Note: Roller Conveyor 6 E D30 is also available in a double-width variant as Roller Conveyor 6 80x40 E D30.

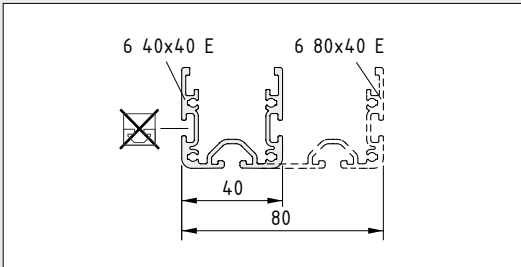




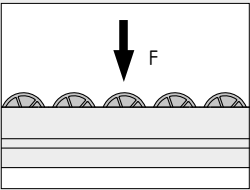
Roller Conveyor 6 40x40 E D30

Load specifications for two parallel Roller Conveyors. Maximum recommended profile deflection: $f < 1/100 a$

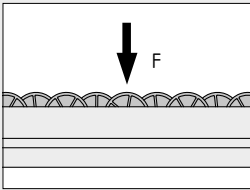
Roller Conveyor 6 40x40 E D30 with Guide Rails (increased bending strength)



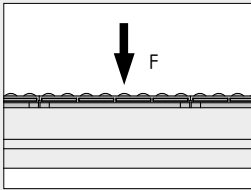
Castor Rail 6 40x40 E is the basic profile for building Roller Conveyors 6 40x40 E. The outer geometry, which is similar to a groove, is designed exclusively for accommodating Roller Conveyor 6 40x40 E Guide Rails.



Permissible force on a single roller element of Roller Conveyor 6 40x40 E D30:
 $F < 100 \text{ N}$



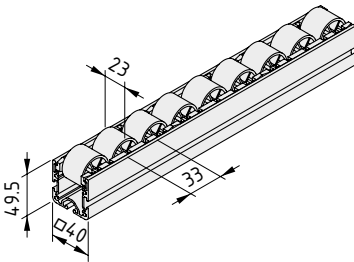
Permissible force on a single roller element of Roller Conveyor 6 40x40 E D30/2:
 $F < 50 \text{ N}$



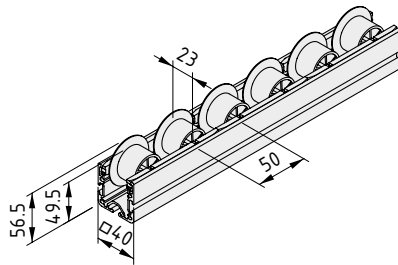
Permissible force on a single roller element in Roller Conveyor 6 40x40 E D30 D11:
 $F < 50 \text{ N}$



Caution:
Note the maximum load-carrying capacity of the components involved.



Roller Conveyor 6 40x40 E D30		6
Castor Rail 6 40x40 E, Al, untreated		
Castor Inserts, PA, grey		
$m = 1.40 \text{ kg/m}$		
cut-off max. 6000 mm		0.0.658.69
1 pce., length 6000 mm		0.0.658.68
Roller Conveyor 6 40x40 E D30 ESD		ESD 6
Castor Rail 6 40x40 E, Al, untreated		
Castor Inserts ESD, PA, black		
$m = 1.47 \text{ kg/m}$		
cut-off max. 6000 mm		0.0.662.76
1 pce., length 6000 mm		0.0.662.75



Roller Conveyor 6 40x40 E D30 with Flanged Wheel



Castor Rail 6 40x40 E, Al, untreated
Castor Inserts with Flanged Wheel, PA, grey
m = 1.32 kg/m

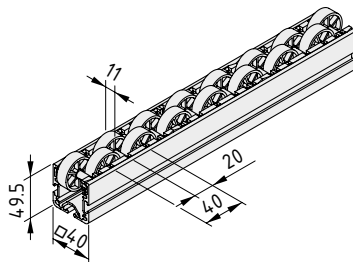
cut-off max. 6000 mm	0.0.658.71
1 pce., length 6000 mm	0.0.658.70

Roller Conveyor 6 40x40 E D30 with Flanged Wheel ESD



Castor Rail 6 40x40 E, Al, untreated
Castor Inserts with Flanged Wheel ESD, PA, black
m = 1.32 kg/m

cut-off max. 6000 mm	0.0.662.78
1 pce., length 6000 mm	0.0.662.77



Roller Conveyor 6 40x40 E D30/2



Castor Rail 6 40x40 E, Al, untreated
Castor Inserts D30/2, PA, grey
m = 1.42 kg/m

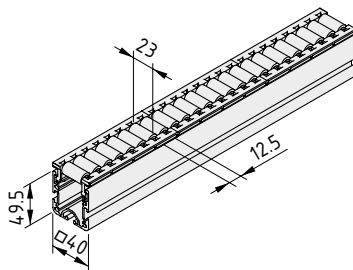
cut-off max. 6000 mm	0.0.658.73
1 pce., length 6000 mm	0.0.658.72

Roller Conveyor 6 40x40 E D30/2 ESD



Castor Rail 6 40x40 E, Al, untreated
Castor Inserts D30/2 ESD, PA, black
m = 1.45 kg/m

cut-off max. 6000 mm	0.0.662.80
1 pce., length 6000 mm	0.0.662.79



Roller Conveyor 6 40x40 E D30 D11



Castor Rail 6 40x40 E, Al, untreated
Roller Inserts D11, PA, grey
m = 1.53 kg/m

cut-off max. 6000 mm	0.0.662.83
1 pce., length 6000 mm	0.0.662.82

Roller Conveyor 6 40x40 E D30 D11 ESD



Castor Rail 6 40x40 E, Al, untreated
Roller Inserts D11 ESD, PA, black
m = 1.57 kg/m

cut-off max. 6000 mm	0.0.662.85
1 pce., length 6000 mm	0.0.662.84



Roller Conveyor 6 40x40 Al Fastening Brackets D30

■ Universal fastenings for Roller Conveyor 6 40x40

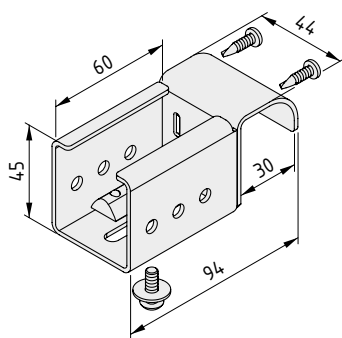


Roller Conveyor 6 40x40 Al Fastening Brackets make it incredibly easy to build custom conveyor lines. They are simply slotted onto the ends of the roller conveyor, screw-attached to the Line 6 groove for extra security and then hung on a (Profile) Tube D30.

Roller Conveyor 6 40x40 Al, Fastening Bracket D30 with Forward Stop H43 supports short reaching distances because crates etc. come to a stop above the horizontal strut. This makes it even easier for operators to take crates off the conveyor line and thus offers an ergonomic advantage.

Roller Conveyor 6 40x40 Al Fastening Brackets U D30 and I D30 are used to join two conveyor lines with different gradients. The various stable limit stops such as on Roller Conveyor 6 40x40 Al, Fastening Bracket D30 with Stop H43 and with Forward Stop H43 ensure that users can always lay their hands on transported goods with the greatest of ease.

Note: Alternatively, Cap 80x40 (0.0.622.30) can be used as a stable stopping point on a roller conveyor, which means that conveyor lines can also terminate outside the frame. The transition between roller conveyors can also be designed with Roller Conveyor 6 Al, Fastening Bracket U D30 (0.0.667.56) and I D30 (0.0.667.57). Since these Fastening Brackets do not encompass the roller conveyor at the sides, guide rails can be run closer to the transition point.



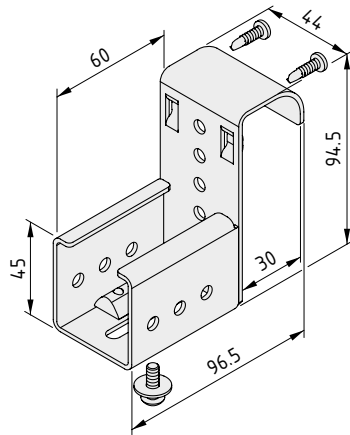
Roller Conveyor 6 40x40 Al Fastening Bracket D30



St, bright zinc-plated
2 Button-Head Screws, self-tapping St 3.9x16 TX20, bright zinc-plated
Hexagon Socket Head Cap Screw DIN 6912-M6x12, bright zinc-plated
Washer DIN 9021-6.4, bright zinc-plated
T-Slot Nut 6 St M6, bright zinc-plated
m = 190.0 g

1 set

0.0.660.57

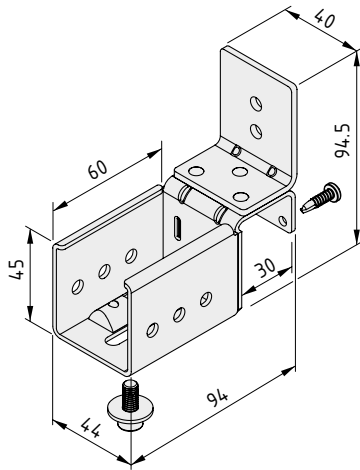


Roller Conveyor 6 40x40 Al, Fastening Bracket D30 with Stop H43



St, bright zinc-plated
2 Button-Head Screws, self-tapping St 3.9x16 TX20, bright zinc-plated
Hexagon Socket Head Cap Screw DIN 6912-M6x12, bright zinc-plated
Washer DIN 9021-6.4, bright zinc-plated
T-Slot Nut 6 St M6, bright zinc-plated
m = 226.0 g

1 set	0.0.660.58
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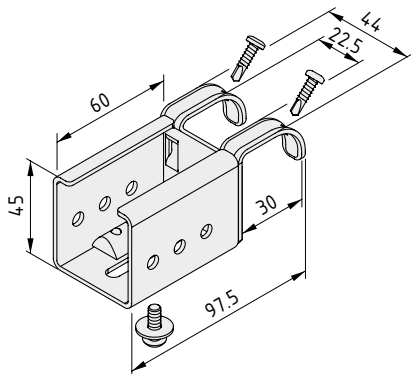


Roller Conveyor 6 40x40 Al, Fastening Bracket D30 with Forward Stop H43



St, bright zinc-plated
2 Button-Head Screws, self-tapping St 3.9x16 TX20, bright zinc-plated
Hexagon Socket Head Cap Screw DIN 6912-M6x12, bright zinc-plated
Washer DIN 9021-6.4, bright zinc-plated
T-Slot Nut 6 St M6, bright zinc-plated
m = 258.0 g

1 set	0.0.659.19
-------	------------

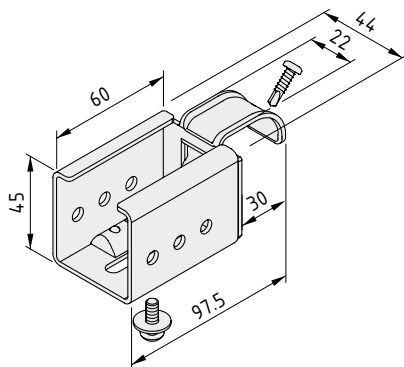


Roller Conveyor 6 40x40 Al Fastening Bracket U D30



St, bright zinc-plated
2 Button-Head Screws, self-tapping St 3.9x16 TX20, bright zinc-plated
Hexagon Socket Head Cap Screw DIN 6912-M6x12, bright zinc-plated
Washer DIN 9021-6.4, bright zinc-plated
T-Slot Nut 6 St M6, bright zinc-plated
m = 183.0 g

1 set	0.0.660.59
-------	------------



Roller Conveyor 6 40x40 Al Fastening Bracket I D30



St, bright zinc-plated
Button-Head Screw self-tapping St 3.9x16 TX20, bright zinc-plated
Hexagon Socket Head Cap Screw DIN 6912-M6x12, bright zinc-plated
Washer DIN 9021-6.4, bright zinc-plated
T-Slot Nut 6 St M6, bright zinc-plated
m = 188.0 g

1 set	0.0.660.60
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Detailed information on height dimensions and roller conveyor lengths can be found in a table in the Technical data section on page 179.

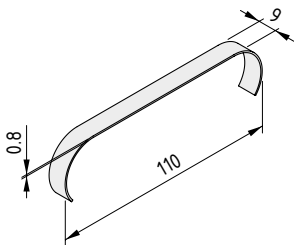


Roller Conveyor 6 40x40 E D30/2 Brake

- Stops transported goods at the desired point
- Stable, durable steel clip

Despite being half the width, this is no half measure! Roller Conveyor 6 40x40 E D30/2 Brake fits perfectly to roller conveyors fitted with Castors D30/2. All you need to do is push the Brake into place precisely where you want to bring crates or goods to a stop.

Note: Roller Conveyor St D30 Brake (0.0.647.76) is used on Roller Conveyors 6 Al with Castors D30. Use Castor Rail 8 40x40, Brake (0.0.619.34) for Castors D30 with Flanged Wheel.



Roller Conveyor 6 40x40 E D30/2 Brake		
St, stainless		
m = 8.5 g		
stainless, 1 pce.		0.0.661.22



Braking Castor D30-23

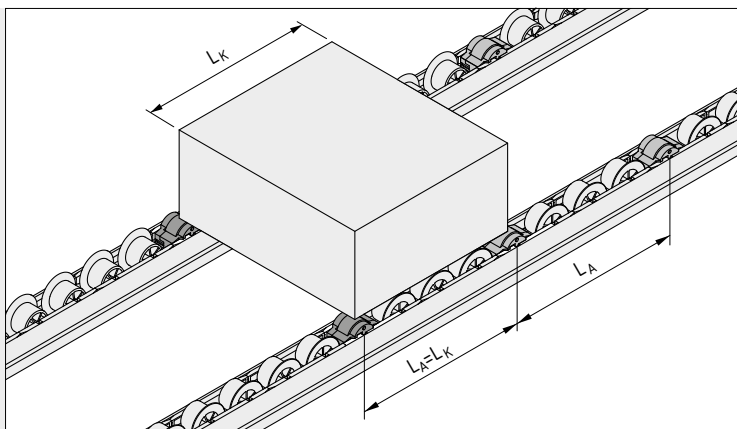
- Regulates speed
- Adaptive braking action
- Can be replaced without tools
- Ideal for Karakuri and shooter solutions

The insert for controlling speed on the roller conveyor! Since containers and goods glide over a roller conveyor at high speed, it can sometimes be necessary to intervene at specific points to prevent heavy impacts and thus reduce strain on the frame and the transported goods.

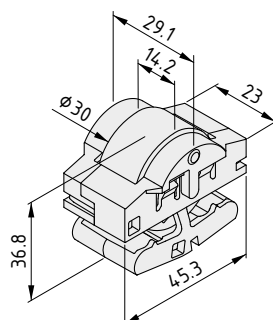
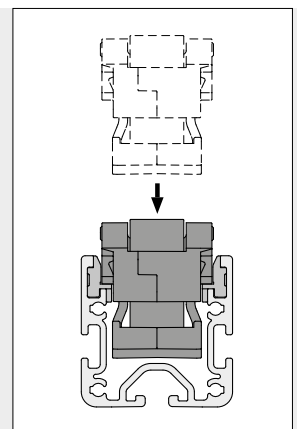
Braking Castor D30-23 regulates speed on the rigid aluminium Roller Conveyor 6 40x40 E D30 (0.0.658.69). When objects are moving slowly, the mechanical system has a lower braking effect. Braking Castors keep things moving at a consistent speed, even on steep gradients and when working with heavy objects.

While a roller conveyor brake is fitted at the end of the line, Braking Castors are spread out along the entire length of a roller conveyor. There are two benefits to this: Firstly, it is an effective way to stop transported goods from building up too much speed. Secondly, it does not compromise automatic unloading on a FIFO rack or Karakuri solution, because queued transport goods can be easily set in motion again.

The item Braking Castor can also be retrofitted to an existing conveyor or line without needing any special tools, making it easy to install it in the optimum position for the relevant application. It is also just as easy to change the position of the Braking Castor or replace it.



L_A = Spacing of Braking Rollers



Braking Castor D30-23

PA/TPE
4 Dowel Pins 6x20, St, bright zinc-plated
 $m = 35.0 \text{ g}$
grey similar to RAL 7042, 1 pce.

0.0.670.90



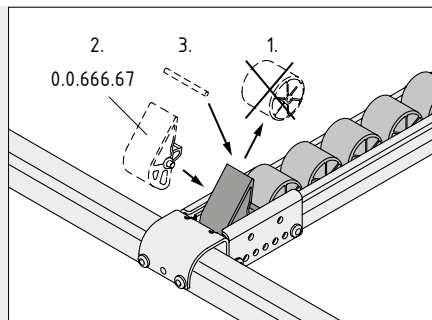
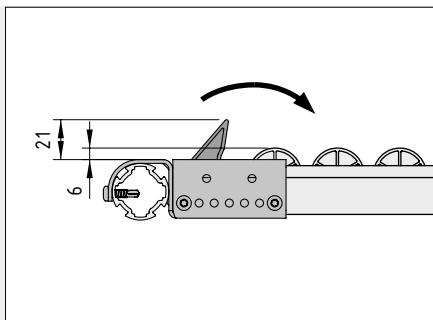
Back Stops

- Stops loads falling out
- Prevents workpiece carriers from sliding backwards
- Makes loading the roller conveyor easy

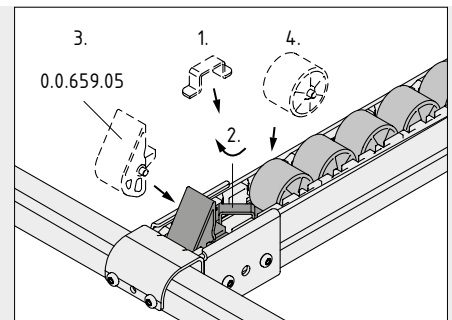
More safety when moving goods and materials! Back Stops make sure that crates and goods move in only one direction on roller conveyors. They also ensure that inertial forces don't cause loads to slip off trolleys when they are being moved. What's more, they stop users accidentally pushing goods out the back of a rack when manually loading more goods at the front. Back Stops are a recommended addition for any roller conveyor that utilises automated loading and picking mechanisms and for mobile racks and frames.

The Back Stop is simply clipped into place instead of a roller element. This means it is extremely easy to retrofit to a Roller Conveyor 6 40x40 E D30. Back Stop D2.8-25 has been specifically designed for item roller conveyors with steel rails.

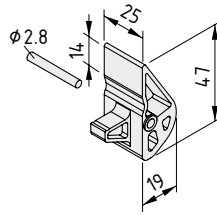
Back Stop D2.8-25 (0.0.666.67) is used with all variants of Roller Conveyor St D30.
Back Stop D4-23 (0.0.659.05) is used with all variants of Roller Conveyor 6 40x40 E D30.



First, remove one roller element from the relevant position (1.). Next, install the Back Stop for Roller Conveyor St D30 and its axle in that position (2.). Now position the axle of the roller element you removed earlier between the Back Stop and the nearest roller element (3.).



First, remove 2 roller elements. Insert the retaining plate in the direction of travel (1.) then twist into place (2.). Next, insert the Back Stop (3) for Roller Conveyor 6 40x40 E D30 and one of the two roller elements you removed earlier (4.).

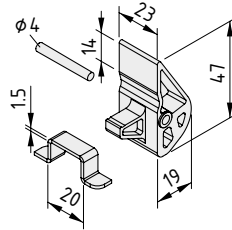


Back Stop D2.8-25

Back Stop, PA, grey
Axle, St, stainless
m = 14.0 g

1 set

0.0.666.67



Back Stop D4-23

Back Stop, PA, grey
Axle, St, stainless
Retaining plate, St, stainless
m = 18.0 g

1 set

0.0.659.05



Roller Conveyors 6 80x40 E D30

- Especially wide roller elements for transporting goods with uneven or less robust bases
- High bending strength due to aluminium profile
- Suitable as a load-bearing element in picking solutions thanks to Line 6 groove



All the benefits of Roller Conveyor 6 E – just in double the width. The larger contact surface on Roller Conveyor 6 80x40 E D30 offers additional support for goods with uneven or soft bases. It is ideal when using small load carriers with honeycombed bases or cardboard boxes.

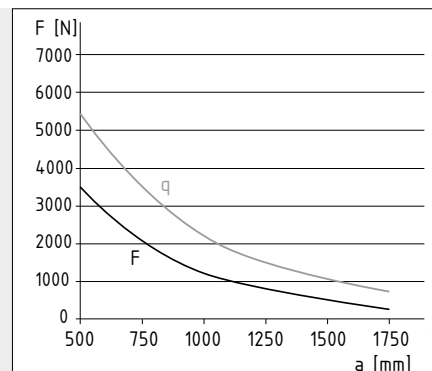
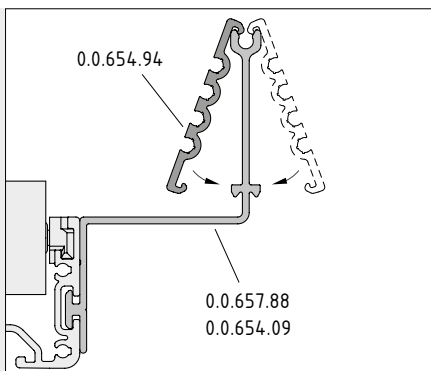
Roller Conveyor 6 80x40 E D30 is supplied pre-configured with D30 roller elements and in the desired length. Simply unpack and install! Replacing roller elements is easy, as no tools are required. There is no need to remove additional roller elements either.

Aluminium Guide Rails can be fitted to keep goods on track. They are simply pushed into the groove on the side of the Castor Rail profile, which also increases the rigidity of the conveyor line. Slide Strips made of PE-HD can then be fitted to protect against scratches and absorb impacts. They are clipped onto the Guide Rails.

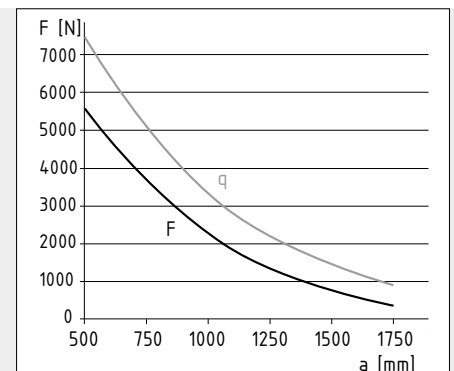
Two Line 6 profiles on the underside are used to fasten the conveyor to a frame and make it easier to fit panel elements that shield roller conveyors underneath from dirt and dust.

Roller Conveyor 6 80x40 E D30 boasts very good load-carrying capacity over long stretches and excellent rigidity and resistance to sideways bending. This means that, in most cases, there is no need for additional support. Roller Conveyor 6 80x40 E D30 is also available in an ESD-safe version.

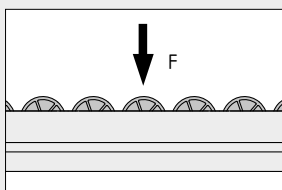
Note: Roller Conveyor 6 40x40 E D30 is available as a narrower variant in a width of 40 mm.



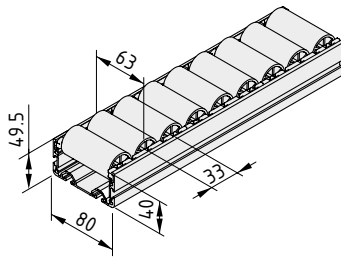
Roller Conveyor 6 80x40 E D30



Roller Conveyor 6 80x40 E D30 with Guide Rails (increased bending strength)



Permissible force on a single roller element of Roller Conveyor 6 80x40 E D30: $F < 100 \text{ N}$



Roller Conveyor 6 80x40 E D30



Castor Rail 6 80x40 E, Al, bright
Roller Inserts D30-63, PA
m = 2.25 kg/m

cut-off max. 6000 mm	0.0.667.52
1 pce., length 6000 mm	0.0.667.48

Roller Conveyor 6 80x40 E D30 ESD



Castor Rail 6 80x40 E, Al, bright
Roller Inserts D30-63 ESD, PA, black
m = 2.33 kg/m

cut-off max. 6000 mm	0.0.667.53
1 pce., length 6000 mm	0.0.667.49



Roller Conveyor 6 80x40 Fastening Brackets D30

- Secures Roller Conveyor 6 80x40 to Tubes D30
- Stable connection due to T-Slot Nut
- Also available with integrated stop



A stable hold at every angle. Roller Conveyor 6 80x40 Fastening Bracket D30 is used to fasten Roller Conveyor 6 80x40 D30 to a D30 profile so that the conveyor level is raised slightly above the frame. This means that crates and other transported goods can be forwarded on without having to bring them to a stop or lift them up.

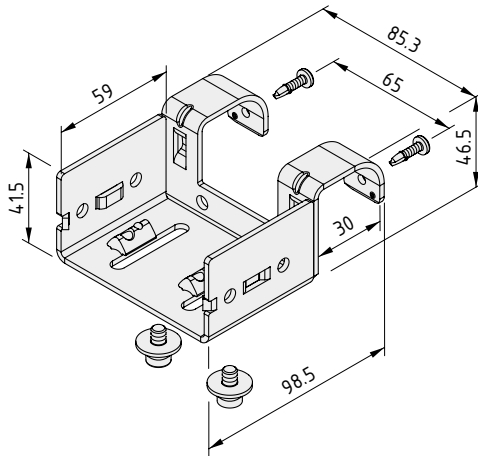
The Roller Conveyor is secured in the Fastening Brackets by two T-Slot Nuts, which creates a very secure connection. This means that roller conveyors can increase the stability of a frame by acting as load-bearing elements.

The Fastening Brackets are simply slotted onto the ends of the Roller Conveyor and screwed to the profile grooves.

Note: Roller Conveyor 6 AI Fastening Brackets U D30 (0.0.667.56) and I D30 (0.0.667.57) are used to interlink conveyor lines. Their hanger elements intermesh on the D30 profile and thus create a seamless transition point for transport containers to pass from one roller conveyor to another.

Roller Conveyor 6 80x40 Fastening Bracket D30 with Stop H43 can be used to create a robust end point. The raised stop secures transport containers and prevents them falling off.



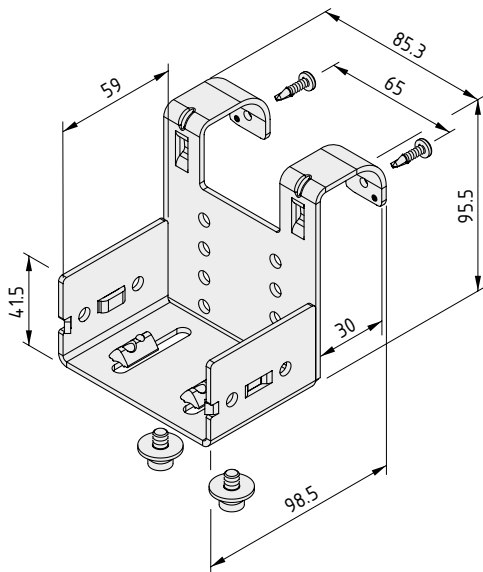


Roller Conveyor 6 80x40 Fastening Bracket D30



St, bright zinc-plated
 2 Button-Head Screws self-tapping St 3.9x16 TX20, bright zinc-plated
 2 Hexagon Socket Head Cap Screws DIN 6912-M6x12, St, bright zinc-plated
 2 washers DIN 9021-6.4, St, bright zinc-plated
 2 T-Slot Nuts 6 St M6, bright zinc-plated
 m = 297.0 g

1 set	0.0.667.54
-------	------------



Roller Conveyor 6 80x40 Fastening Bracket D30 with Stop H43



St, bright zinc-plated
 2 Button-Head Screws self-tapping St 3.9x16 TX20, bright zinc-plated
 2 Hexagon Socket Head Cap Screws DIN 6912-M6x12, St, bright zinc-plated
 2 washers DIN 9021-6.4, St, bright zinc-plated
 2 T-Slot Nuts 6 St M6, bright zinc-plated
 m = 368.0 g

1 set	0.0.667.55
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Roller Conveyor 6 AI Fastening Brackets U D30 and I D30

- Connect roller conveyors
- Transitions with minimal gaps

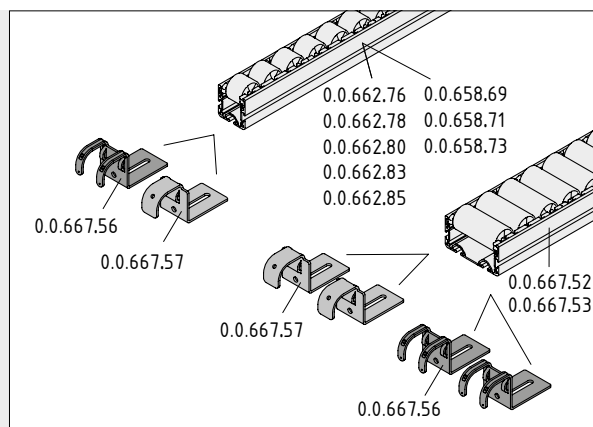


When connecting together two Roller Conveyors 6 AI that have different gradients, Roller Conveyor 6 AI Fastening Brackets U and I provide additional security. As the sides are left free, Guide Rails can be run right up to the transition point. The lack of large gaps means there is less chance that transport containers will get caught as they travel along the conveyor line.

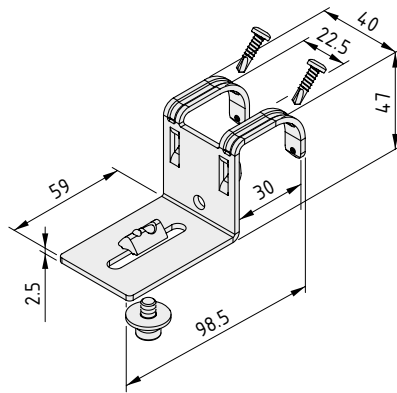
Roller Conveyor 6 AI Fastening Brackets U and I hold the Castor Rails in place to ensure transport containers can pass smoothly and safely from one section to the next.

To achieve a stable connection, the Fastening Brackets connect to the underside of Roller Conveyors 6 AI with a screw and T-Slot Nut.

Because they do not feature any side plates, Roller Conveyor 6 AI Fastening Bracket U D30 and Roller Conveyor 6 AI Fastening Bracket I D30 can be used for both versions of Roller Conveyor 6. In the case of Roller Conveyor 6 40x40 E D30, one bracket is fitted to each Roller Conveyor end, while two brackets are fitted to each end of the wider Roller Conveyor 6 80x40 E D30.



Roller Conveyor AI 80x40 Fastening Brackets U D30 and I D30 can be used with both versions of Roller Conveyor 6. In the case of Roller Conveyor 6 80x40 E D30, two brackets are fitted to the grooves on the underside while only one is attached to the narrower Roller Conveyor 6 40x40 E D30.

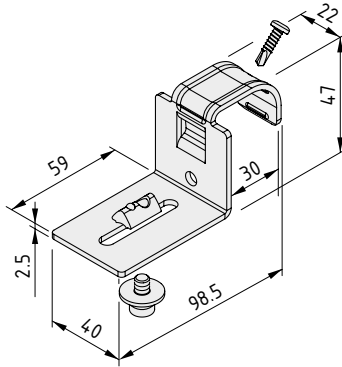


Roller Conveyor 6 Al Fastening Bracket U D30



St, bright zinc-plated
 2 Button-Head Screws self-tapping St 3.9x16 TX20, bright zinc-plated
 Hexagon Socket Head Cap Screw DIN 6912-M6x12, St, bright zinc-plated
 Washer DIN 9021-6.4, St, bright zinc-plated
 T-Slot Nut 6 St M6, bright zinc-plated
 m = 130.0 g

1 set	0.0.667.56
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Roller Conveyor 6 Al Fastening Bracket I D30



St, bright zinc-plated
 Button-Head Screw self-tapping St 3.9x16 TX2, bright zinc-plated
 Hexagon Socket Head Cap Screw DIN 6912-M6x12, St, bright zinc-plated
 Washer DIN 9021-6.4, St, bright zinc-plated
 T-Slot Nut 6 St M6, bright zinc-plated
 m = 125.0 g

1 set	0.0.667.57
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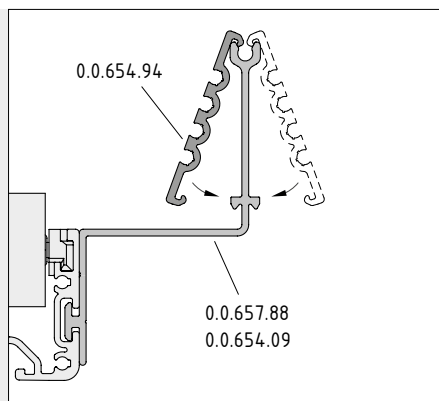
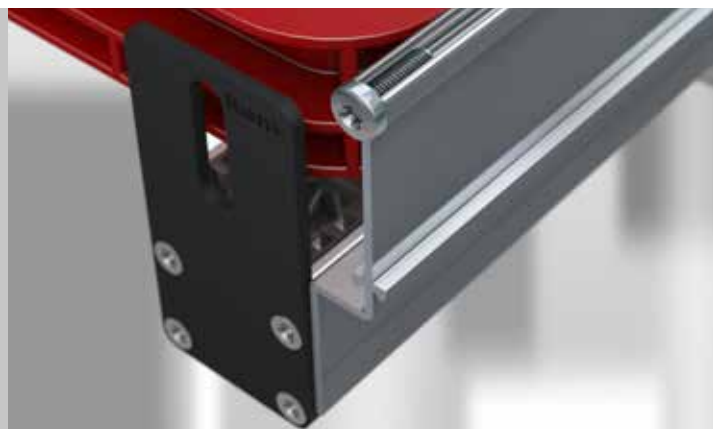
Roller Conveyor 6 40x40 E Guide Rails

- Stable side guidance made from aluminium
- Available in two widths
- Further increases the rigidity of Roller Conveyor 6 AI
- Optional Slide Strips protect sensitive goods

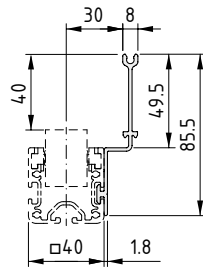
Tough but gentle. The Guide Rails for Roller Conveyors 6 AI have a lot going for them. Made from aluminium, they are slotted into the special groove that runs along the side of the Roller Conveyor and can withstand even rough treatment without coming away. They also make the already robust Roller Conveyors even more rigid and reduce deflection by up to 50 percent.

Two types of Guide Rail are available, one that is spaced 30 mm from the centre of the roller conveyor (Roller Conveyor 6 40x40 E Guide Rail e30) and the other 60 mm from the centre line (Roller Conveyor 6 40x40 E Guide Rail e60). As a result, conveyor lines can be configured to suit the precise requirements of the containers and goods they carry.

Note: To avoid laborious and time-consuming deburring work, you can cover the cut edges of the screw channel at the top of the Guide Rails with Button-Head Screw Self-Tapping M5x16, TX25. Roller Conveyor 6 40x40 E Guide Rails can also be slotted into the side groove on Castor Rail 8 40x40.



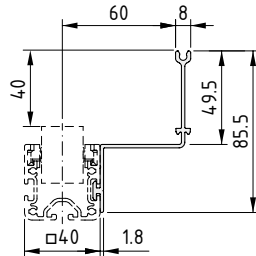
Slide Strips can also be clipped into place to protect sensitive workpieces and the Guide Rails themselves. The addition of high-strength, durable and impact-absorbing polyethylene Slide Strips means that the Guide Rails can combine the stability of aluminium with the gentle contact surface of plastic. Slide Strips can be fitted to both sides of the Guide Rail.



Roller Conveyor 6 40x40 E Guide Rail e30

Al, untreated
m = 0.62 kg/m

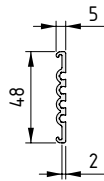
natural, cut-off max. 6000 mm	0.0.657.88
natural, 1 pce., length 6000 mm	0.0.657.87



Roller Conveyor 6 40x40 E Guide Rail e60

Al, untreated
m = 0.77 kg/m

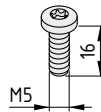
natural, cut-off max. 6000 mm	0.0.654.09
natural, 1 pce., length 6000 mm	0.0.654.05



Roller Conveyor 6 40x40 E Guide Rail Slide Strip

PE-HD
m = 124.0 g/m

grey similar to RAL 7042, 1 pce., length 3000 mm	0.0.654.94
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Button-Head Screw Self-Tapping M5x16, TX25

St
m = 4.0 g

bright zinc-plated, 1 pce.	0.0.674.89
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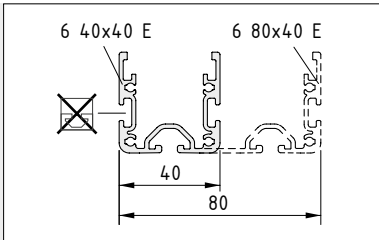
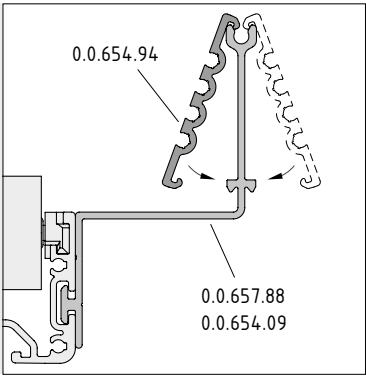
Castor Rails 6 E

- The basis for configuring custom roller conveyors

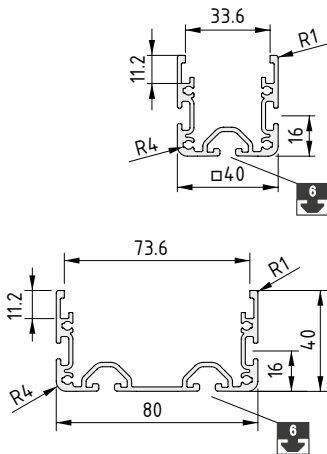


Want to do things your own way? You can use Castor Rails 6 40x40 E and 80x40 E to put together your own custom roller conveyor. For example, you may want to fit coloured Castors so that fill levels can be easily identified. Simply select the roller elements, Axles and Roller Tracks that best suit your project.

Castor Rails 6 offer exactly the same benefits as the preassembled Roller Conveyors. They exhibit excellent bending strength and are secured to the frame on the underside with a friction-based connection using their Line 6 profile groove. Side Guide Rails help to keep goods on track and also make the profile more rigid.



Castor Rail 6 40x40 E is the basic profile for building Roller Conveyors 6 40x40 E. The outer geometry, which is similar to a groove, is designed exclusively for accommodating Roller Conveyor 6 40x40 E Guide Rails.



Castor Rail 6 40x40 E



Al, untreated

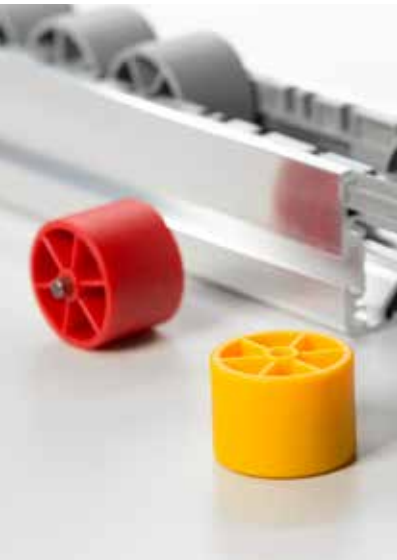
A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]
3.63	0.98	5.00	8.53	1.99	4.27
natural, cut-off max. 6000 mm					0.0.651.29
natural, 1 pce., length 6000 mm					0.0.650.47

Castor Rail 6 80x40 E



Al, untreated

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]
4.76	1.28	6.18	45.76	2.23	11.44
natural, cut-off max. 6000 mm					0.0.662.36
natural, 1 pce., length 6000 mm					0.0.662.16



Castor D30

Rollers D11

- Roller elements available separately
- For custom configuration of Castor Rails 6



Just the way you like it! The tried-and-tested roller elements of the ready-to-install item Roller Conveyors 6 are also available separately. Design your own custom roller conveyor by combining a range of different roller elements.

The roller elements can also be used as spare parts for Roller Conveyors 6 40x40 and 6 80x40.

Please ensure when placing an order that you stipulate the correct combination of roller element, Roller Track and Castor Rail. The following roller elements are available:

Castor D30-23:

Strong and smooth-running roller element for roller conveyors. Available in a range of colours and with or without a flanged wheel for side guidance. Also available in ESD-safe version (black roller elements).

Castor D30/2-23:

Half-width, side-by-side offset Castors. This reduces the axle spacing. Also available in ESD-safe version (black roller elements).

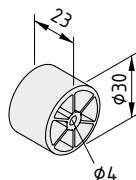
Roller D11-23:

The very tight spacing of roller elements on Rollers D11 creates very smooth-running conveyor lines. This minimises vibration and ensures that even very soft card packaging can be conveyed. Also available in ESD-safe version (black roller elements).

Roller D30-63

Robust and easy-running 63 mm-wide Roller. This roller element can be used to configure a custom Castor Rail 6 80x40 E or as a replacement for damaged roller elements in Roller Conveyor 6 80x40 E D30. The corresponding Axle D4x69 must also be ordered. Also available in ESD-safe version (black roller elements).





The following applies to all the products below:

PA

Castor D30-23

m = 7.5 g

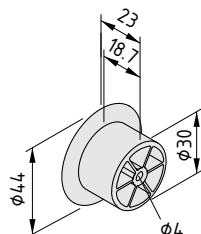
grey similar to RAL 7042, 1 pce.	0.0.620.36
signal red similar to RAL 3001, 1 pce.	0.0.620.42
signal yellow similar to RAL 1003, 1 pce.	0.0.620.44
signal green similar to RAL 6032, 1 pce.	0.0.620.46

Castor D30-23 ESD



m = 8.0 g

black, 1 pce.	0.0.620.41
---------------	------------



Castor D30-23 with Flanged Wheel

m = 9.0 g

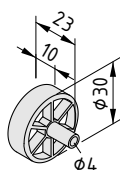
grey similar to RAL 7042, 1 pce.	0.0.620.37
signal red similar to RAL 3001, 1 pce.	0.0.620.52
signal yellow similar to RAL 1003, 1 pce.	0.0.620.54
signal green similar to RAL 6032, 1 pce.	0.0.620.56

Castor D30-23 with Flanged Wheel ESD



m = 10.0 g

black, 1 pce.	0.0.620.51
---------------	------------



Castor D30/2-23

m = 4.0 g

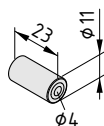
grey similar to RAL 7042, 1 pce.	0.0.656.78
----------------------------------	------------

Castor D30/2-23 ESD



m = 5.0 g

black similar to RAL 9005, 1 pce.	0.0.656.85
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Roller D11-23

m = 2.0 g

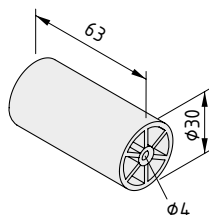
grey similar to RAL 7042, 1 pce.	0.0.664.56
----------------------------------	------------

Roller D11-23 ESD



m = 2.0 g

black similar to RAL 9005, 1 pce.	0.0.648.97
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Roller D30-63

m = 22.0 g

grey similar to RAL 7042, 1 pce.	0.0.662.97
----------------------------------	------------

Roller D30-63 ESD



m = 24.0 g

black, 1 pce.	0.0.664.42
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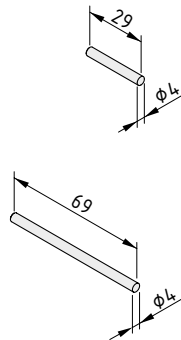


Axle D4x29

- Stable stainless steel Axles
- Two lengths compatible with Castor Rails 6

The stable stainless steel Axle ensures that roller elements run easily and smoothly in the roller conveyor.

The Axle is available in two lengths – 29 mm for all Castors D30-23 and D30/2-23, and 69 mm for all Rollers D30-63.



Axle D4x29

St, stainless

m = 3.0 g

stainless, 1 pce.

0.0.619.13

Axle D4x69

St, stainless

m = 7.0 g

stainless, 1 pce.

0.0.662.37



Roller Tracks 100 D4

- For custom Roller Conveyors 6
- Various Tracks for various roller element types



The sturdy Roller Tracks 100 D4 can be used to design custom roller conveyors. Roller Tracks are basically used to fix roller elements in Castor Rails 6 40x40 (0.0.651.29) and 6 80x40 (0.0.662.36). They are also used as spare parts for Roller Conveyors 6.

They are exceptionally easy to install. The Roller Tracks are slotted into the end-face of a Castor Rail, where they are held in place without the need for any screws. Each roller element can then be individually inserted and replaced – with no need for any tools.

There is a Roller Track for every roller element. The following combinations are possible:

Roller Track 100 D4-20/33 (0.0.649.60): Castors D30 (all colours) and Castors D30/2-23 (0.0.656.78)

Roller Track 100 D4-20/33 ESD (0.0.662.24): Castors D30 ESD (0.0.620.41) and Castors D30/2-23 ESD (0.0.656.85)



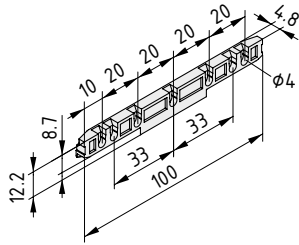
Roller Track 100 D4-50 (0.0.650.48): Castors D30 with flanged wheel (all colours)

Roller Track 100 D4-50 ESD (0.0.662.25): Castors D30 with flanged wheel ESD (0.0.620.51)



Roller Track 100 D4-12.5 (0.0.656.87): Rollers D11-23 (0.0.664.56)

Roller Track 100 D4-12.5 ESD (0.0.662.48): Rollers D11-23 ESD (0.0.664.56)



Roller Track 100 D4-20/33

ABS
m = 5.0 g

grey similar to RAL 7042, 1 pce.

0.0.649.60

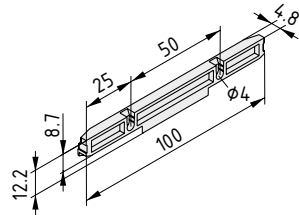
Roller Track 100 D4-20/33 ESD



PA-GF
m = 6.0 g

black similar to RAL 9005, 1 pce.

0.0.662.24



Roller Track 100 D4-50

ABS
m = 5.0 g

grey similar to RAL 7042, 1 pce.

0.0.650.48

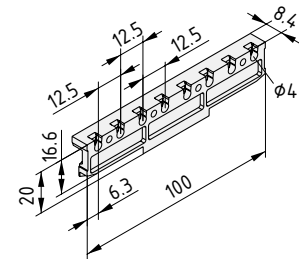
Roller Track 100 D4-50 ESD



PA-GF
m = 5.0 g

black similar to RAL 9005, 1 pce.

0.0.662.25



Roller Track 100 D4-12.5

ABS
m = 8.0 g

grey similar to RAL 7042, 1 pce.

0.0.656.87

Roller Track 100 D4-12.5 ESD



PA-GF
m = 10.0 g

black similar to RAL 9005, 1 pce.

0.0.662.48



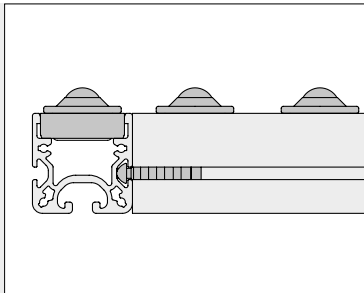
Roller Conveyors 8 D30

- Huge selection of roller elements and transport inserts
- Castor Balls available for transporting workpiece carriers
- Castor Rails with excellent bending strength and load-carrying capacity
- Line 5 and 8 grooves ensure versatility

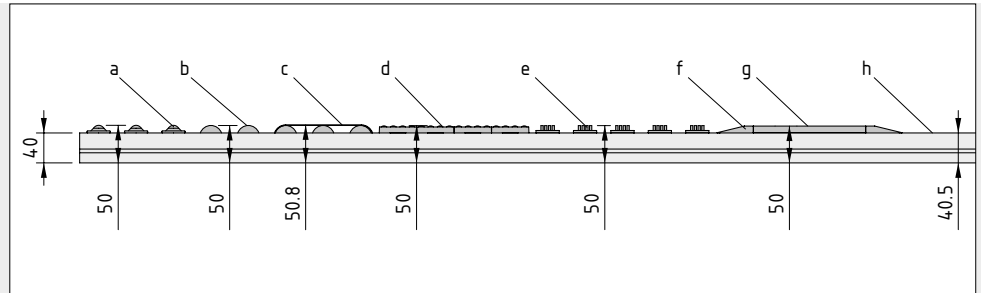


Roller Conveyor 8 D30 is the specialist for tricky transport tasks. It is based on Castor Rail 8 40x40. It can be fitted with Castor, Castor Ball, Roller, Brush and Slide Strip Inserts. The inserts can be used in any combination. Want to use coloured castors to mark fill levels? Want to change from castors to brushes? Want castor balls and a slide strip at the end? Roller Conveyor 8 D30 is as versatile as your requirements are varied.

The Castor Rails themselves are inherently stable and can be installed either level or at a gradient using Roller Conveyor AI Fastening Brackets D30. The Castor Rail 8 40x40, Brake slows everything down at the take-off point.

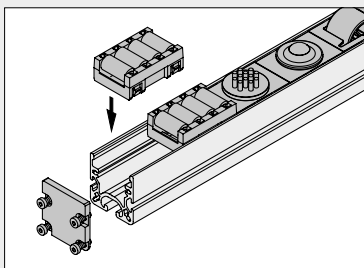


Interlinking two Castor Rails 8 40x40 using fastening elements and Profile 5 and 8 grooves.

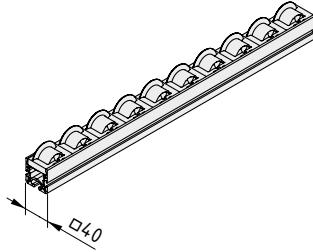
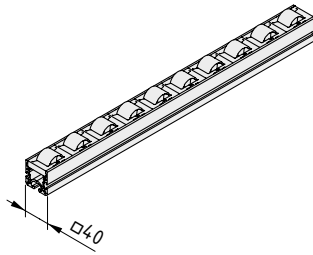


The wide range of inserts available for Castor Rail 8 40x40 make it a true all-rounder:

- a: Castor Ball Inserts ESD
- b: Castor Inserts D30/Castor Inserts D30 with Flanged Wheel, ESD-safety optional
- c: Castor Rail 8 40x40, Brake
- d: Roller Inserts 4xD11
- e: Brush Inserts ESD
- f: Slide Strip Wedge Insert ESD
- g: Castor Rail 8 40x40, Slide Strip ESD – raised installation
- h: Castor Rail 8 40x40, Slide Strip ESD – low installation



Customising Castor Rail 8 40x40 couldn't be easier:
Simply push the inserts into the rail to build your ideal roller conveyor.
Caps secure the ends.



Roller Conveyor 8 D30



Castor Rail 8 40x40, Al, natural anodized
Castor Inserts, black
m = 1.70 kg/m

cut-off max. 6000 mm

0.0.628.40

Roller Conveyor 8 D30 ESD



Castor Rail 8 40x40, Al, natural anodized
Castor Inserts, black
m = 1.70 kg/m

cut-off max. 6000 mm

0.0.628.42

Roller Conveyor 8 D30 with Flanged Wheel



Castor Rail 8 40x40, Al, natural anodized
Castor Inserts with Flanged Wheel, black
m = 1.70 kg/m

cut-off max. 6000 mm

0.0.628.41

Roller Conveyor 8 D30 ESD with Flanged Wheel



Castor Rail 8 40x40, Al, natural anodized
Castor Inserts with Flanged Wheel, black
m = 1.70 kg/m

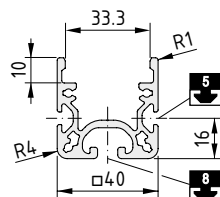
cut-off max. 6000 mm

0.0.628.43



Castor Rail 8 40x40

- For custom configuration with transport inserts
- Extremely high bending strength
- Enables inherently stable frame



Castor Rail 8 40x40



Al, anodized

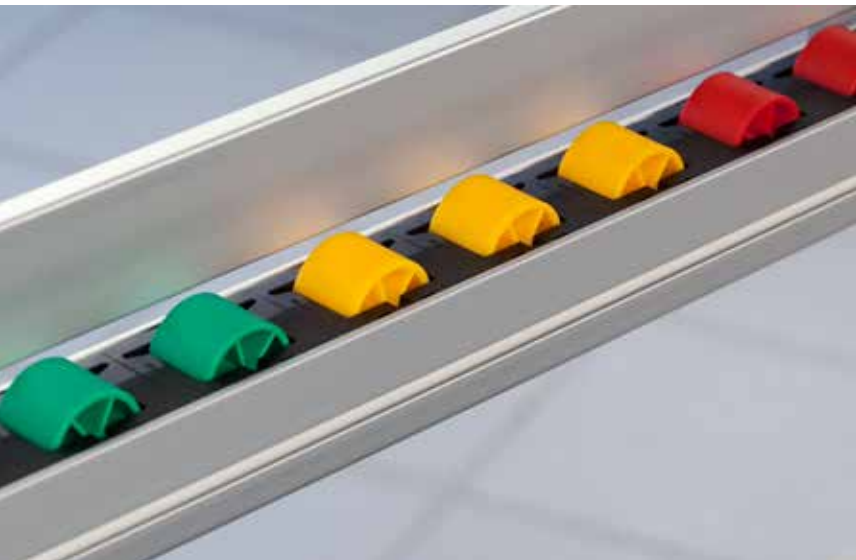
A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]
4.65	1.28	5.65	9.87	3.86	4.93

natural, cut-off max. 6000 mm

0.0.626.91

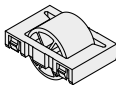
natural, 1 pce., length 6000 mm

0.0.618.28



Castor Inserts D30

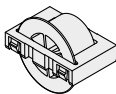
- Easy-running castors for universal use
- Various colours mark fill levels
- Available in ESD-safe version
- Compatible with Castor Rail 8



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
signal red similar to RAL 3001, 1 set	0.0.627.06
signal yellow similar to RAL 1003, 1 set	0.0.627.07
signal green similar to RAL 6032, 1 set	0.0.627.08

Castor Insert D30 ESD	
m = 19.2 g	
black similar to RAL 9005, 1 set	0.0.622.27



The following applies to all the products below:
Castor D30 with flanged wheel, PA
Housing, PA-GF, black
Axles, St, stainless

Castor Insert D30 with Flanged Wheel	
m = 19.6 g	
black similar to RAL 9005, 1 set	0.0.620.06
signal red similar to RAL 3001, 1 set	0.0.627.09
signal yellow similar to RAL 1003, 1 set	0.0.627.10
signal green similar to RAL 6032, 1 set	0.0.627.11

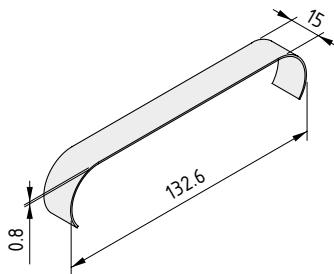
Castor Insert D30 with Flanged Wheel ESD	
m = 21.0 g	
black similar to RAL 9005, 1 set	0.0.622.28





Castor Rail 8 40x40, Brake

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



Castor Rail 8 40x40, Brake

St, stainless
m = 2.0 g

1 pce.

0.0.619.34



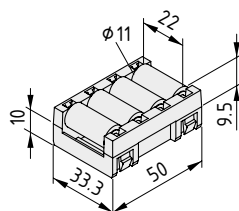
Roller Inserts 4xD11

- Tight roller spacing for smooth travel
- Also suitable for containers with awkward or irregular bases



The following applies to all the products below:

4 rollers D11, PA
Housing, PA-GF, black
4 axles, St, stainless



Roller Insert 4xD11

m = 31.0 g

black similar to RAL 9005, 1 set

0.0.644.55

Roller Insert 4xD11 ESD

m = 30.0 g

black similar to RAL 9005, 1 set

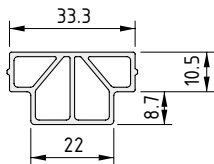
0.0.648.98





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



Castor Rail 8 40x40, Slide Strip ESD

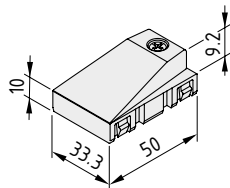


PE-HD m = 140 g/m	
black, cut-off max. 3000 mm	0.0.622.26
black, 1 pce., length 3000 mm	0.0.620.00



Slide Strip Wedge Insert

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



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	0.0.620.84



Castor Ball Inserts

- Move transported goods in two dimensions
- Ideal for versatile insertion and removal points

Brush Inserts ESD

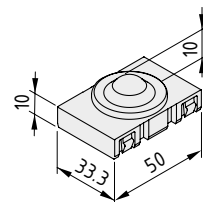
- Gentle transportation over elastic fibres
- Versatile scratch protection with low friction



Making changes of direction very simple. For moving containers or goods in any direction with ease.

When using Brush Insert ESD, goods and containers glide over gentle elastic fibres. The reduced area of contact when using the Castor Ball Insert ESD helps to reduce friction. Castor Ball Insert ESD and Brush Insert ESD can be installed directly into Castor Rail 8.

Castor Ball Sets and Brush Sets can be fitted to the table tops that connect to inter-linked tracks – for inward and outward transfer or for the careful warehousing of goods. To install Castor Ball Sets or Brush Sets, simply drill into the table top using a Forstner bit (\varnothing 25 mm, 12 mm deep).



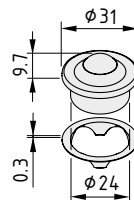
Castor Ball Insert ESD



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

1 set

0.0.620.26

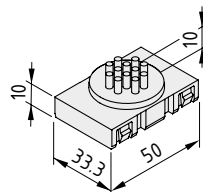


Castor Ball Set

Castor Ball D24, St
Fastening clip, St, bright zinc-plated
m = 45.0 g

1 set

0.0.620.93



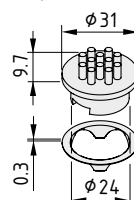
Brush Insert ESD



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

1 set

0.0.622.22



Brush Set ESD



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

1 set

0.0.622.24



Roller Conveyor AI, Fastening Brackets D30

- A firm hold for Castor Rail 8 40x40
- Also available with integrated stop

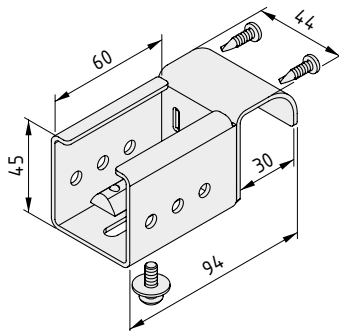


Roller Conveyor AI, Fastening Bracket D30 is the standard fastener for Roller Conveyor 8 D30. Castor Rail 8 40x40 simply slots right into place. For additional security, the fastening bracket can be screwed to the Tube D30 and Roller Conveyor.

And Roller Conveyor AI, Fastening Bracket with Stop H43 forms the terminus at the end of the line. Together with the frame, the 43 mm-high stop ensures that containers and so on are brought safely to a stop.

The design of Roller Conveyor AI, Fastening Bracket D30 with Forward Stop H43 supports short reaching distances because crates etc. come to a stop above the horizontal strut. This makes it even easier for operators to take crates off the conveyor line and thus offers an ergonomic advantage.

Roller Conveyor AI, Fastening Brackets U D30 and I D30 can also be used to build conveyor lines with a number of different gradients. Together, they form a secure transition, taking transported goods from one section to the next.

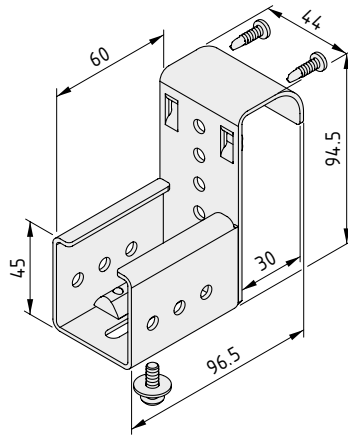


Roller Conveyor AI, Fastening Bracket D30

St, bright zinc-plated
 2 Button-Head Screws, self-tapping St 3.9x16 TX20, bright zinc-plated
 Hexagon Socket Head Cap Screw DIN 6912-M6x14, bright zinc-plated
 Washer DIN 9021-6.4, bright zinc-plated
 T-Slot Nut 8 St M6, bright zinc-plated
 m = 200.0 g

1 set

0.0.652.48

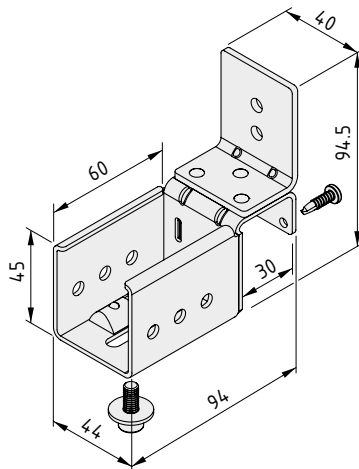


Roller Conveyor Al, Fastening Bracket D30 with Stop H43



St, bright zinc-plated
 2 Button-Head Screws, self-tapping St 3.9x16 TX20, bright zinc-plated
 Hexagon Socket Head Cap Screw DIN 6912-M6x14, bright zinc-plated
 Washer DIN 9021-6.4, bright zinc-plated
 T-Slot Nut 8 St M6, bright zinc-plated
 m = 224.0 g

1 set 0.0.652.57

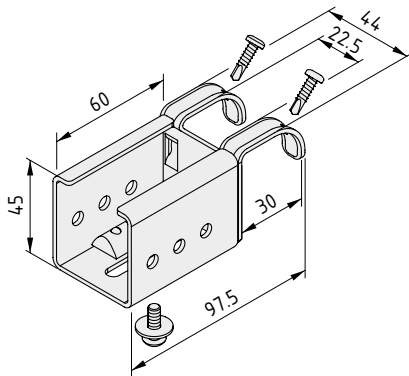


Roller Conveyor Al, Fastening Bracket D30 with Forward Stop H43



St, bright zinc-plated
 2 Button-Head Screws, self-tapping St 3.9x16 TX20, bright zinc-plated
 Hexagon Socket Head Cap Screw DIN 6912-M6x14, bright zinc-plated
 Washer DIN 9021-6.4, bright zinc-plated
 T-Slot Nut 8 St M6, bright zinc-plated
 m = 263.0 g

1 set 0.0.662.31

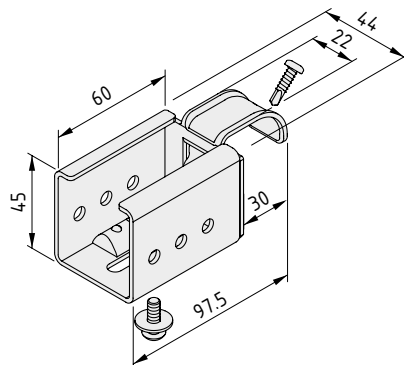


Roller Conveyor Al, Fastening Bracket U D30



St, bright zinc-plated
 2 Button-Head Screws, self-tapping St 3.9x16 TX20, bright zinc-plated
 Hexagon Socket Head Cap Screw DIN 6912-M6x14, bright zinc-plated
 Washer DIN 9021-6.4, bright zinc-plated
 T-Slot Nut 8 St M6, bright zinc-plated
 m = 179.0 g

1 set 0.0.652.58



Roller Conveyor Al, Fastening Bracket I D30



St, bright zinc-plated
 Button-Head Screw, self-tapping St 3.9x16 TX20, bright zinc-plated
 Hexagon Socket Head Cap Screw DIN 6912-M6x14, bright zinc-plated
 Washer DIN 9021-6.4, bright zinc-plated
 T-Slot Nut 8 St M6, bright zinc-plated
 m = 176.0 g

1 set 0.0.652.64

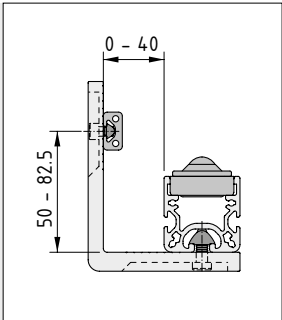


Detailed information on height dimensions and roller conveyor lengths can be found in a table in the Technical data section on page 179.



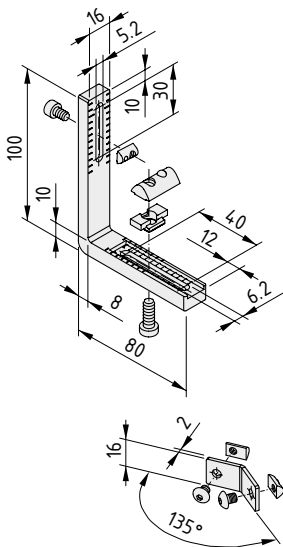
Railing Support 8/5 100x80
Railing Fastening Set 5-135°

- 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.

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

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 0.0.627.35



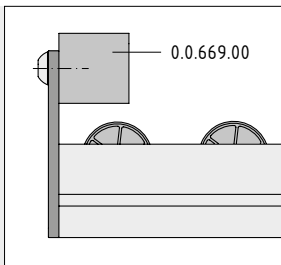
Castor Rail 8 Caps Castor Rail 80x40, Caps

- Safely cover over cut edges
- Also with integrated stop for removal operations outside the frame

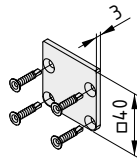


The perfect end to Castor Rails 6 and 8, a secure hold for Roller Tracks and protection against injuries. While the 40 mm high Cap seals a Castor Rail neatly, the taller versions (height of 80 mm) also act as a stop. They also feature a slot that can be used to affix an Impact Buffer.

The Cap is fixed to the Castor Rail easily, using self-tapping screws.



If required, you can terminate the Castor Rail by fitting an Impact Buffer (see Comprehensive Catalogue for MB Building Kit System) to the Cap.

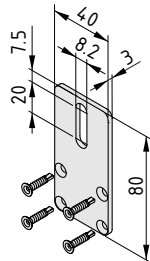


Castor Rail 8 Cap 40x40



St, bright zinc-plated, black
4 Countersunk Screws self-tapping 3.9x19 TX20, St, bright zinc-plated
m = 60.0 g

1 set 0.0.622.29

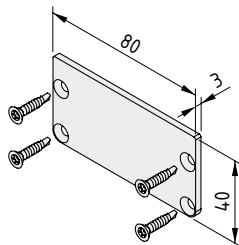


Castor Rail 8 Cap 80x40



St, bright zinc-plated, black
4 Countersunk Screws self-tapping 3.9x19 TX20, St, bright zinc-plated
m = 102.0 g

1 set 0.0.622.30

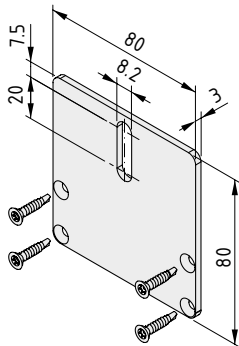


Castor Rail 80x40, Cap 80x40



St, bright zinc-plated, black
4 Countersunk Screws self-tapping 3.9x19 TX20, St, bright zinc-plated
m = 78.0 g

1 set 0.0.668.99



Castor Rail 80x40, Cap 80x80



St, bright zinc-plated, black
4 Countersunk Screws self-tapping 3.9x19 TX20, St, bright zinc-plated
m = 148.0 g

1 set 0.0.669.00

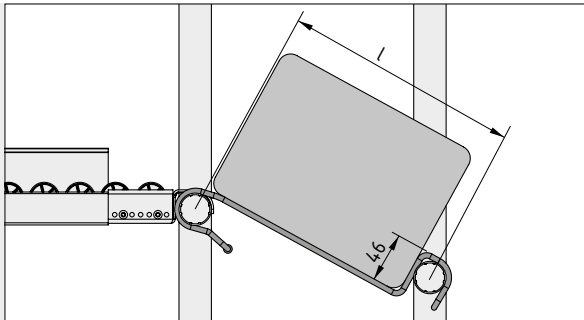


Slide Link D30

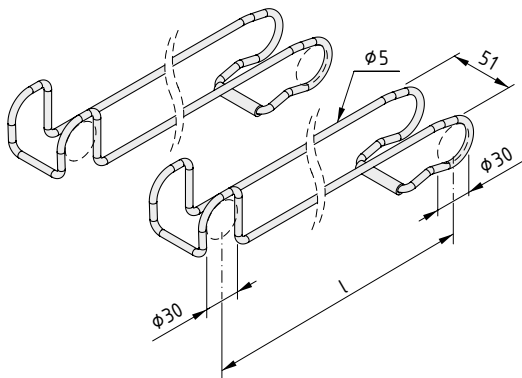
- Simple container supply solution
- Installed in no time
- Suitable for all Roller Conveyor Fastening Brackets up to 40 mm wide

Getting containers close to hand really can be this easy. Slide Links D30 are the perfect finishing touch for a roller conveyor. Transport boxes simply glide that last little stretch over the Slide Link, where they are held securely in place.

Slide Links D30 are fitted in no time – even when roller conveyors are already screwed in place! They are also suitable for use with all item roller conveyors. Slide Links are available in different sizes to suit containers of different lengths – 200 mm, 300 mm and 400 mm.



The length of the Slide Links has been matched to the dimensions of transport boxes. An additional section of tubing secures the top ends of the wire against lateral movement.



Slide Link D30 220

2 Slide Links 220, St, stainless
2 tubing cut-offs, CR, black
l = 220 mm
m = 136.0 g

1 set

0.0.658.77

Slide Link D30 330

2 Slide Links 330, St, stainless
2 tubing cut-offs, CR, black
l = 330 mm
m = 348.0 g

1 set

0.0.658.76

Slide Link D30 440

2 Slide Links 440, St, stainless
2 tubing cut-offs, CR, black
l = 440 mm
m = 416.0 g

1 set

0.0.658.75



Slide Strips D30

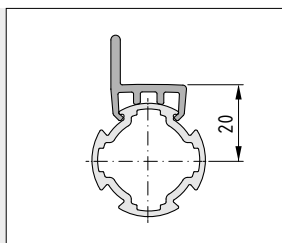
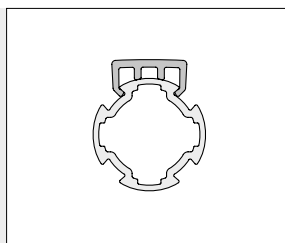
- Low-friction transport of containers and goods
- With side guide for secure guidance
- Also as a protective element for profiles

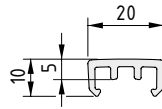


Always stay on track! Slide Strips D30 convert any Profile Tube D30 into a conveyor line. Containers can simply be pushed along the low-friction strips made from HDPE. The installation of Slide Strips D30 does not require any drilling. Simply clip onto the profile – and it stays in place!

The edge along the side of Slide Strip D30 with Side Guide H13 ensures that transport containers stay on track. It can also be used to create a frame with side containment in which panel elements can be laid.

Slide Strips D30 are also available in an ESD-safe version for protecting sensitive goods and personnel.





Slide Strip D30

PE-HD
m = 150.0 g

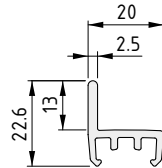
grey similar to RAL 7042, 1 pce., length 2000 mm 0.0.634.42

Slide Strip D30 ESD



PE-HD
m = 160.0 g

black similar to RAL 9005, 1 pce., length 2000 mm 0.0.634.55



Slide Strip D30 with Side Guide H13

PE-HD
m = 97.0 g/m

grey similar to RAL 7042, 1 pce., length 2000 mm 0.0.671.30

Slide Strip D30 with Side Guide H13 ESD



PE-HD
m = 97.0 g/m

black similar to RAL 9005, 1 pce., length 2000 mm 0.0.671.33

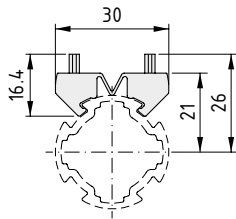


Brush Strips D30

- A gentle hold for sensitive components
- Two designs
- ESD-safe variants available



Smooth but firm. Brushes made of PVC are stable enough to keep parts on track but soft enough to be gentle on sensitive surfaces. Brush Strips D30 are simply clipped onto a Profile Tube and are available in two designs. Brush Strip D30 T1 has two parallel rows of brushes while Brush Strip D30 T2 has two rows of brushes that project out to the side. Each design is also available in an ESD-safe variant.



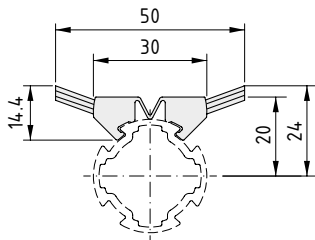
Brush Strip D30 T1

PVC	
m = 143.0 g	
grey similar to RAL 7042, 1 pce., length 500 mm	0.0.653.01

Brush Strip D30 T1 ESD



PVC	
m = 147.0 g	
black similar to RAL 9005, 1 pce., length 500 mm	0.0.654.66



Brush Strip D30 T2

PVC	
m = 151.0 g	
grey similar to RAL 7042, 1 pce., length 500 mm	0.0.654.14

Brush Strip D30 T2 ESD



PVC	
m = 155.0 g	
black similar to RAL 9005, 1 pce., length 500 mm	0.0.654.64



Roller D46/D30-20

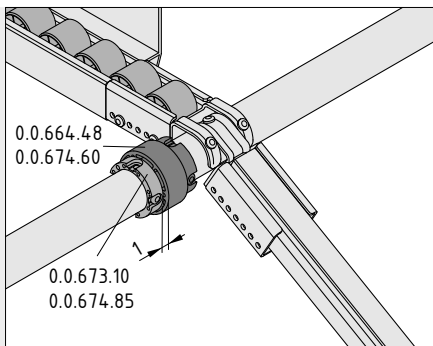
- Rotates around Profiles and Tubes D30
- Can be installed vertically and horizontally
- Supports reliable material flow



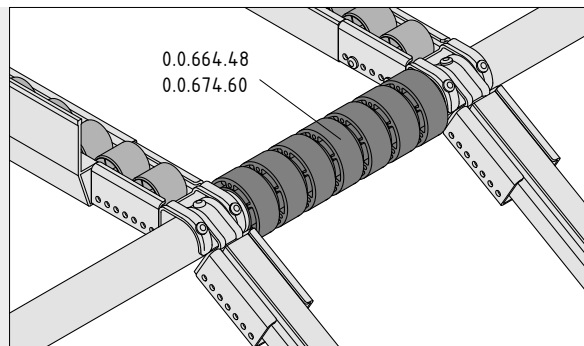
The tube roller! **Roller D46/D30-20** uses a Profile D30 as an axle and thus supports all sorts of movements. Because the Roller has the same conveying height as the item roller conveyors, it can also support the transitions on conveyor lines with different gradients. This ensures a more gentle and dependable run and protects both the frame and the transported goods.

Roller D46/D30-20 rotates freely on a Tube D30 or Profile Tube D30. Several Rollers can be used alongside each other to create a broader rolling surface.

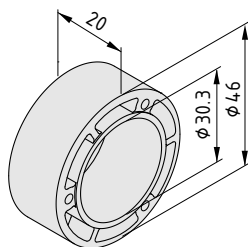
Made from impact-resistant PA, the Roller requires no maintenance or lubrication.



Rollers D46/D30-20 ESD and Fastening Rings D40/D30-10 ESD must be pushed onto the (Profile) Tube D30 before the tube is fitted into place.



Several Rollers can be used alongside each other to create a broader rolling surface.



Roller D46/D30-20

PA

m = 12.0 g

grey similar to RAL 7042, 1 pce.

0.0.664.48

Roller D46/D30-20 ESD



PA

m = 13.0 g

black similar to RAL 9005, 1 pce.

0.0.674.60



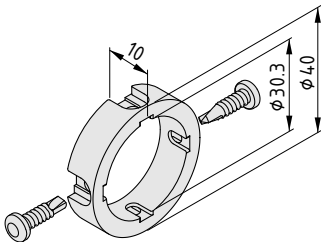
Fastening Ring D40/D30-10

- Holds Roller D46/D30-20 in the desired position
- Suitable for horizontal and vertical use



Fastening Ring D40/D30-10 can be used to restrict the lateral play of Roller D46/D30-20. Two self-tapping screws ensure a secure hold. Thanks to the Fastening Ring, the Roller can also be used vertically to provide side guidance.

Tip: The Fastening Ring can also be used to stop Roller D46/D30-20 grinding against the Roller Conveyor Fastening Bracket, which would result in an uneven rolling motion.



Fastening Ring D40/D30-10

Fastening Ring D40/D30-10, PA, grey
2 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 6.0 g

1 set	0.0.673.10
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Fastening Ring D40/D30-10 ESD



Fastening Ring D40/D30-10 ESD, PA, black
2 Button-Head Screws self-tapping St 3.9x16, TX20, bright zinc-plated
m = 6.0 g

1 set	0.0.674.85
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Drawbars D25-686

- For building complete goods trains
- Ergonomic self-lifting mechanism
- Secure link

From a trolley to a train! Drawbar D25-686 links transport trolleys together or can form a connection with a tugger – so that more products can be moved than ever before.

The Drawbar is available in two designs with safety functions and useful accessories. Drawbar D25-686, Self-Lifting is particularly ergonomic and back-friendly. A stable spring continuously pushes the Drawbar up, which has two benefits: It ensures it is easy to couple and uncouple the Drawbar using your foot. There is no need to bend over awkwardly or carry out any complicated fastening sequence. When uncoupled, the Drawbar automatically folds up to clear the working area.

To ensure safe operation, the Impact Buffer on both models stops the Drawbar from hitting the trolley when folded up. Two spring clips hold the raised Drawbar in place. When using Drawbar Locking Lever 38, the Drawbar locks in place so that it can't be released unintentionally. When lowering the Drawbar, the optional Drawbar Stop 32 ensures it does not drop to the floor and stops users pressing it too far down with their foot. An elastic buffer brings the Drawbar to a stop in plenty of time.

When using the version of Drawbar D25-686 without the self-lifting mechanism, the pin of the coupling should point upward. The dead weight of the steel Drawbar ensures that the connection holds. Because there is no spring-loaded lifting mechanism, the Drawbar has to be moved into its park position by hand.

Due to the high tensile loading generated during transport, Profile 8 80x40 is best suited for building the framework of a trolley.



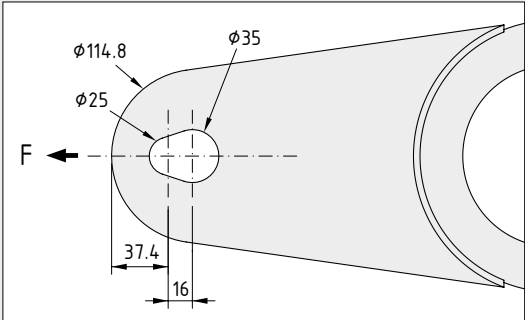
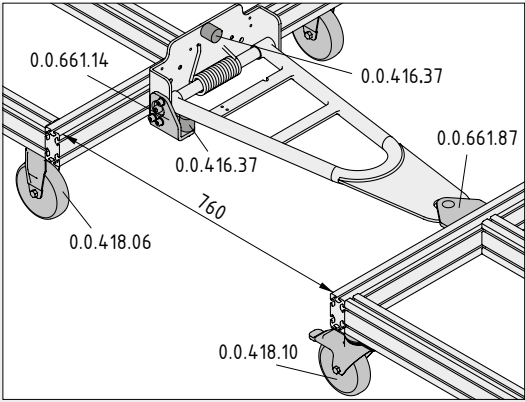
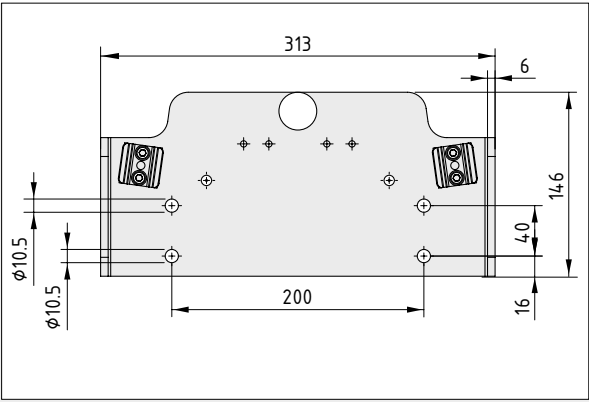
The spring on Drawbar D25-686, Self-Lifting pushes the Drawbar into a vertical position. When uncoupled, the Drawbar rests against the frame in a space-saving arrangement and does not present a trip-hazard.



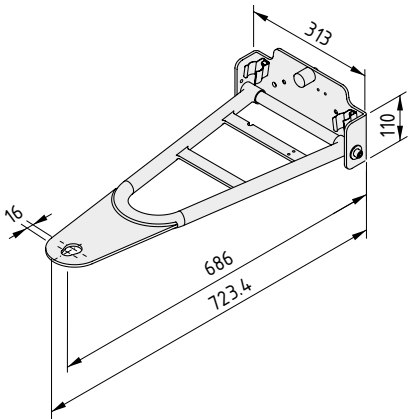
Drawbar Locking Lever 38 keeps coupling elements neat and safe. It holds the Drawbar securely in a vertical position, which is particularly advisable when using the version without a self-lifting mechanism. The foot-operated catch ensures the locking lever can be released without having to stoop down.



To couple and uncouple Drawbar D25-686, Self-Lifting, the operator uses his foot to press down on the Drawbar, which is kinder on his back. A spring lifts the Drawbar up, ensuring that it is securely held against Drawbar Coupling D25-74, which features a downward-pointing pin.



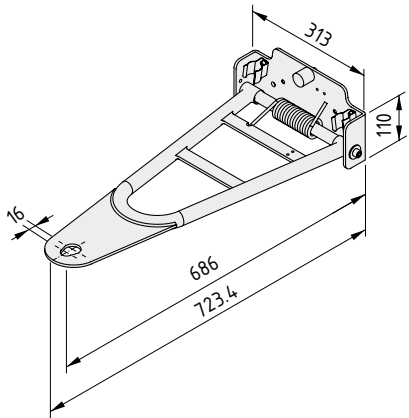
Rated tensile force in continuous operation = 6000 N
Rated trailer load in continuous operation = 6 t



Drawbar D25-686

Drawbar D25-650
Impact Buffer M8 D30x30
Spring clip set D30
m = 6.6 kg

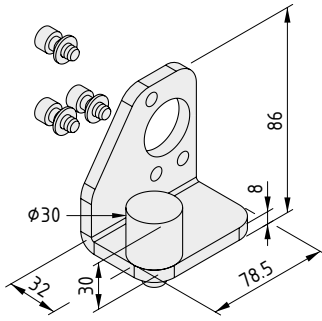
1 set	0.0.664.13
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Drawbar D25-686, Self-Lifting

Drawbar D25-650
Impact Buffer M8 D30x30
Spring clip set D30
m = 7.1 kg

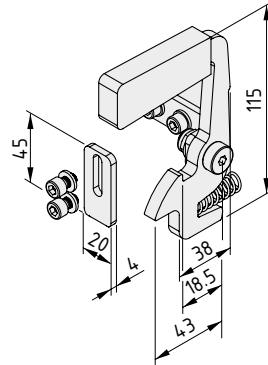
1 set	0.0.664.12
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Drawbar Stop 32

Drawbar stop bracket
Impact Buffer M8 D30x30
Fastening elements
m = 674.0 g

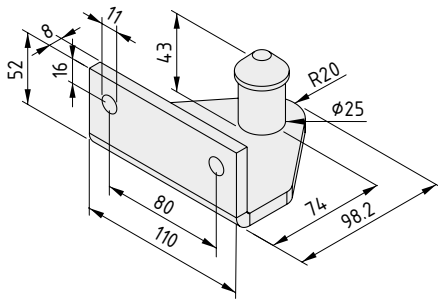
1 set	0.0.661.14
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Drawbar Locking Lever 38

Locking Lever 23-1
Bracket 46x20
Fastening elements
m = 382.0 g

1 set	0.0.660.96
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Drawbar Coupling D25-74

St, bright zinc-plated
m = 934.0 g

1 pce.	0.0.661.87
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Low-cost automation – the mechanical solution.

Low-cost automation (LCA) relieves strain on workers and boosts productivity without requiring complex control systems or drives. For example, by connecting together processes with a little skill, you can combine loading and unloading procedures. Karakuri applications speed up workflows and minimise tiring manual labour by lifting crates for workers.

Let gravity do the work for you! Low-cost automation uses lever principles and integrates moving profiles into frames. Profile Tube System D30 makes applications like these particularly easy to achieve.

Low-cost automation with the Lean Production Building Kit System uses a small number of components to deliver a

clear improvement in manual activities. Several processes in assembly and intralogistics operations benefit from this approach. When combined with item roller conveyors, complete shooter solutions can be built that release and accept containers as soon as the transport trolley arrives in the correct position.

Karakuri applications from Profile Tube System D30 can also be combined easily with the ergonomic item Work Bench System. This means, for example, that work benches can be kitted out with picking procedures that involve the user actuating a lever to lift a transport container to an optimum ergonomic reaching height.

Low-cost automation – the mechanical solution: Products in this section.



Plain Bearing D40/D30-50 ESD

- Preassembled Plain Bearing
- Enables rotational and translational motions

170



Plain Bearing Sleeve D40/D30 ESD

- For making plain bearings in custom lengths
- For Profile Tube D40/D30

170



Locking Ring D30

- Secures the position of a Plain Bearing D40/D30
- Secure hold, even for horizontal rotation

170



Release Unit D30

- Releases / blocks conveyor sections
- Purely mechanical solution

172



Roller D39.5

- Guides moving components
- Robust, ball-bearing roller

175



Plain Bearing D40/D30-50 ESD

- Enables rotation and movements along a profile
- Extremely space-saving solution
- For building sophisticated mechanisms



Turning on a pin. Plain Bearings D40/D30 are the basis for low-cost automation (LCA). Plain Bearings support a rotating motion because Profile Tube D40/D30 encompasses the load-bearing D30 profile and can be rotated around its longitudinal axis without generating friction. The Plain Bearing Sleeve is made of maintenance-free plastic that exhibits a low coefficient of friction and excellent rigidity.

This low-cost solution opens up huge potential because item Plain Bearings can be integrated into a frame very easily and require very little installation space. Profiles and accessories can be connected to Profile Tube D40/30 as usual. All standard fasteners and D30 components fit to it, which minimises stockkeeping requirements.

The set comprises two Plain Bearing Sleeves D40/D30 and a 40 mm cut-off of Profile Tube D40/D30. Additional profiles and accessories can be fastened to the Plain Bearing. The tabs on the Plain Bearing Sleeve interlock so that they cannot slip out of the profile.

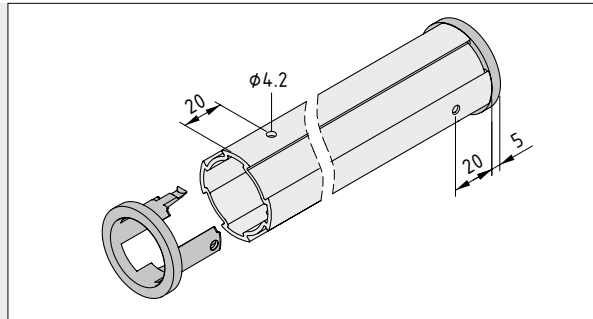
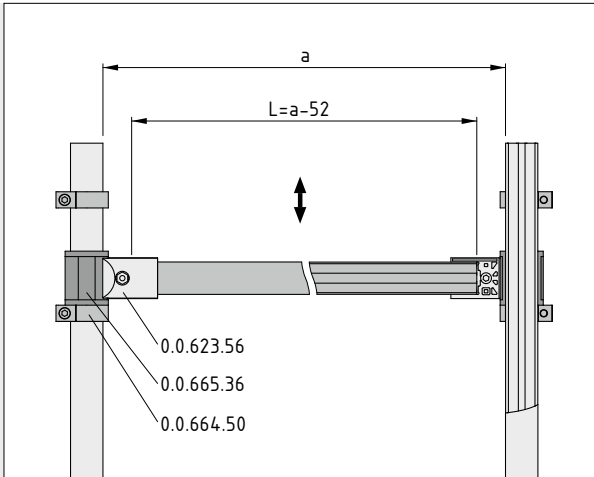
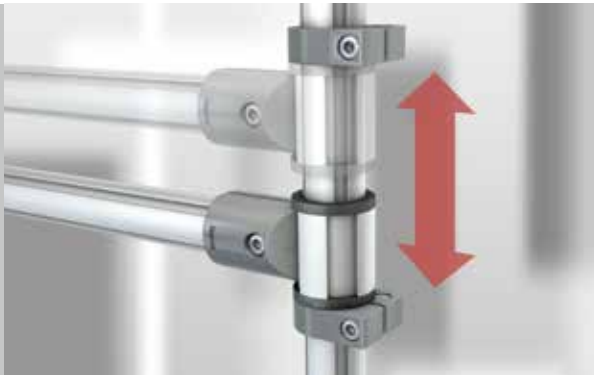
Plain Bearing D40/D30-50 is supplied preassembled, is ESD-safe and measures 50 mm in length.

The Plain Bearing Sleeves are also available separately and can be combined with Profile Tube D40/D30 in the desired length to build custom plain bearings. Simply press a Plain Bearing Sleeve onto each end of a Profile Tube D40/D30, slot the Profile Tube over the load-bearing profile and that's all it takes to bring some movement to your frame.

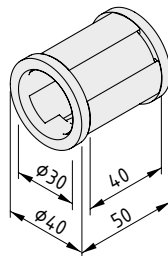
In the case of profile lengths over 50 mm, two holes need to be drilled at each end so that the tabs on the Plain Bearing Sleeves can clip into place.

Locking Ring D30 secures the position of the Plain Bearing D40/30 along its axis. This design measure has to be used to secure the position of the bearing because of the minimal friction on the support profile.





If the Profile Tube D40/D30 (0.0.666.63) is longer than 50 mm, 4 holes need to be drilled into the aluminium profile. This means that plain bearings can be built in custom lengths.



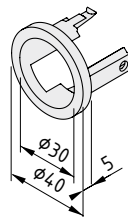
Plain Bearing D40/D30-50 ESD



2 Plain Bearing Sleeves D40/D30 ESD
Profile Tube D40/D30, 40 mm, Al, anodized
m = 38.0 g

1 set

0.0.665.36



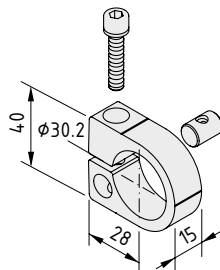
Plain Bearing Sleeve D40/D30 ESD



POM
m = 6.0 g

black, 1 pce.

0.0.665.63



Locking Ring D30

Locking Ring D30 Profile, Al
Threaded cross dowel M6, St, bright zinc-plated
Hexagon Socket Head Cap Screw M6x29.4, St, bright zinc-plated
m = 50.0 g

1 set

0.0.664.50



Release Units D30

- For efficient shooter solutions
- Selective actuation of individual filling levels
- Separation of containers during material supply and removal operations

Using tugger trains to load and unload roller conveyor racks as part of an automated system is efficient and reduces costs. And compact Release Unit D30 now makes it extremely easy to design customised shooter solutions that get transport containers (small load carriers, SLCs) moving from station to station.

Release Unit D30 comprises:

- A robust Bar that keeps even heavy workpieces in place on a roller conveyor during transport.
- An Actuator Roller and Actuator Ramp that, when they come into side-on contact, automatically open the system's locking mechanism, so that transport boxes are only released when shooter and workstation are correctly aligned.
- A Spring-Loaded Reset Device that ensures the Bar travels back to its original position as soon as the contact between Ramp and Roller is broken.

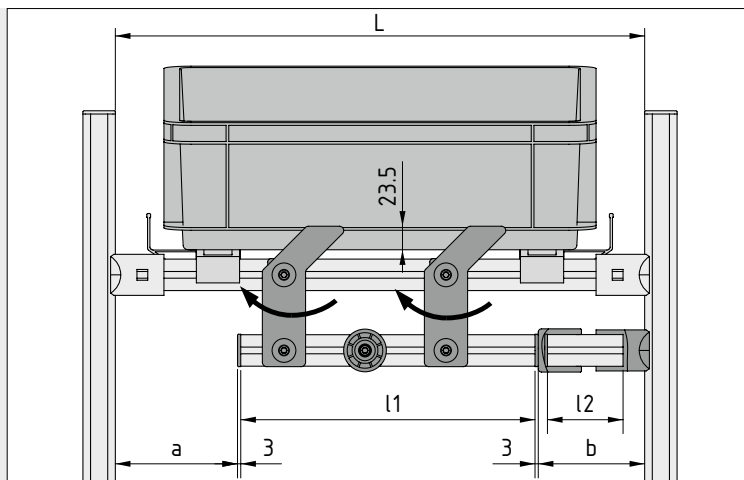
This type of shooter solution supports the selective release of individual conveyor lines, whereby each carriage in a tugger train is triggered at a different unloading point. By customising the installation height of the actuation elements, users can tailor the release action to their needs so that various supply lines can be correctly loaded or unloaded in a single pass.



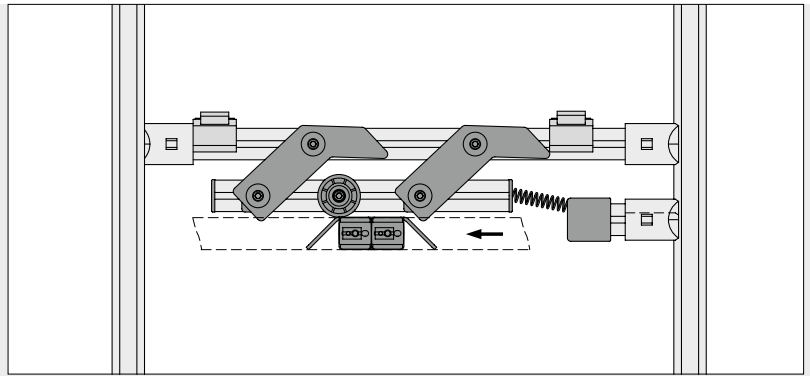
Actuator Ramps are available in two installation depths to suit different roller conveyors (38 and 61 mm). This ensures that even conveyor lines that protrude can be reliably actuated.



How Release Unit D30 works: Stable Bars hold the load in place (e.g. transport boxes). When the shooter pulls alongside, its Actuator Roller rolls up and over the Ramp on the workstation. The Actuator Roller is fixed to a spring-mounted strut - the roller strut - that follows the contour of the Ramp and is thus pushed up and to the side. This causes the Bars that are fastened to both the roller strut and the upper profile to pivot to the side, thereby ensuring that the load is only released when the roller conveyor is correctly aligned.



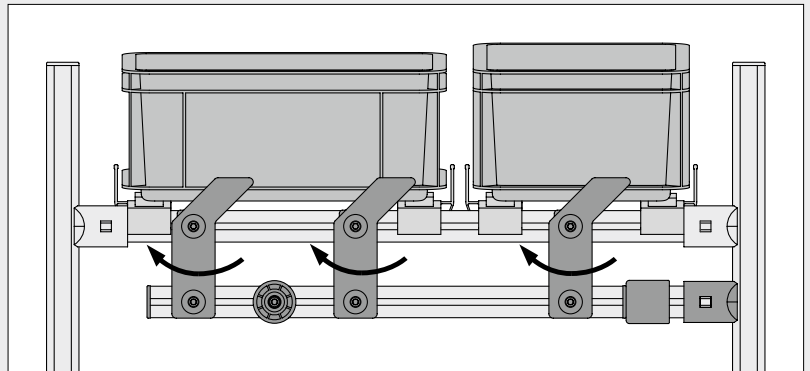
- L: Total clearance
a: Recommended minimum clearance = 113 mm
b: min. 91 mm
 $l1 = L - a - b - 6$ mm (Profile 6 D30 for the Roller strut)
 $l2 = b - 28.5$ mm (Profile 6 D30 for the stop)



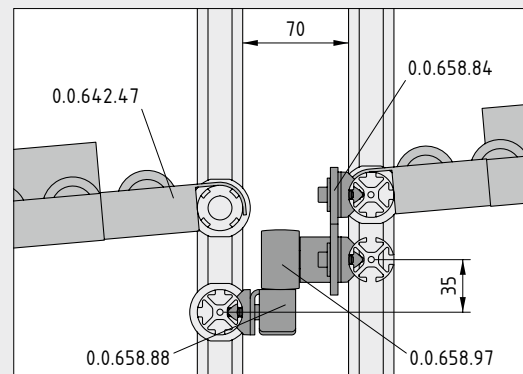
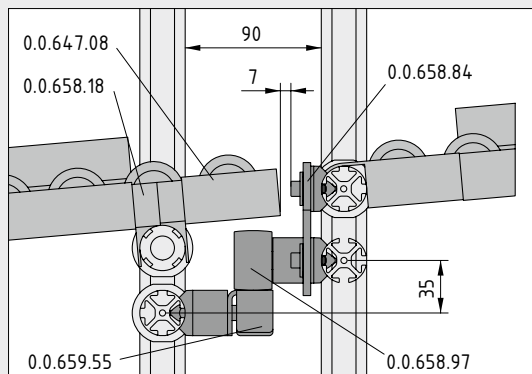
When the shooter approaches, the Roller strut moves closer to the roller conveyor as the Ramp pushes it up and to the side. This movement forces the Bars to pivot to the side. When the shooter is moved away, the pressure on the ball-bearing mounted Actuator Roller drops and the Spring-loaded Reset Device pulls the roller strut back down to the starting position.

The Bars can be installed so that they open to the right or left as appropriate to the transport rack's direction of travel.

The shooter is released when the Actuator Roller runs over the Actuator Ramp.



A Release Unit D30 Actuator Roller operates at least two Bars at once and can operate more, if necessary. Depending on the width of the load, a second roller conveyor can be secured simply by adding an additional Bar.



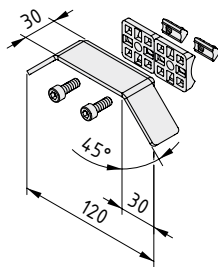
The Release Unit can perform the same function even on protruding roller conveyors.

0.0.616.46



Note:

Profile 6 D30 (0.0.616.46) must be used to fasten the Bar and the Actuator Ramp.

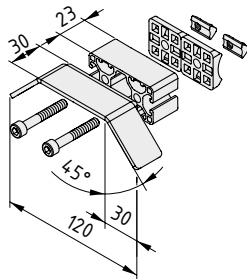


Release Unit D30 Actuator Ramp 120-38

Actuator Ramp, St, bright zinc-plated
2 Adapters 6 30x30/D30, die-cast Al
2 Hexagon Socket Head Cap Screws DIN 912-M6x16, St, bright zinc-plated
2 T-Slot Nuts 6 St M6, St, bright zinc-plated
m = 165.0 g

1 set

0.0.658.88

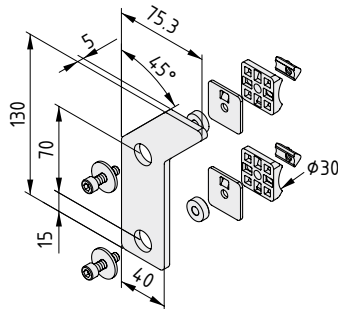


Release Unit D30 Actuator Ramp 120-61

Actuator Ramp, St, bright zinc-plated
Profile 6 60x30 2N light 23 mm, Al anodized
2 Adapters 6 30x30/D30, die-cast Al, natural
2 Hexagon Socket Head Cap Screws DIN 912-M6x40, St, bright zinc-plated
2 T-Slot Nuts 6 St M6, St, bright zinc-plated
m = 212.0 g

1 set

0.0.659.55

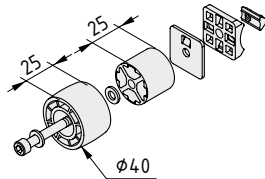


Release Unit D30 Bar T1

Bar T1 St, bright zinc-plated
2 bush liners, St, bright zinc-plated
2 spacer plates, St, bright zinc-plated
2 Adapters 6 30x30/D30, die-cast Al, natural
2 T-Slot Nuts 6 St M6, St, bright zinc-plated
2 washers DIN 440-M6, St, bright zinc-plated
2 Hexagon Socket Head Cap Screws DIN 912-M6x22, St, bright zinc-plated
m = 282.0 g

1 set

0.0.658.84

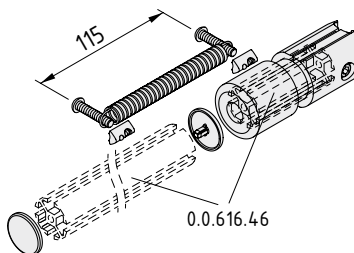


Release Unit D30 Actuator Roller D40-60 side contact

Roller D40, ball-bearing mounted
Profile 6 D30 4N, Al, anodized
Spacer plate, St, bright zinc-plated
Adapter 6 30x30/D30, die-cast Al, natural
T-Slot Nut 6 St M6, St, bright zinc-plated
Washer DIN 125-6.4, St, bright zinc-plated
Hexagon Socket Head Cap Screw DIN 912-M6x60, St, bright zinc-plated
m = 113.0 g

1 set

0.0.658.97



Release Unit D30 Spring-loaded Reset Device

Fastener D30, die-cast Al, natural
Tube End Cap D30, NBR Sh 60A
Extension spring 1.25x12.7x121, St, stainless
2 Caps 6 D30, PA-GF, black
2 Button-Head Screws ISO 7380 M6x30, St, bright zinc-plated
2 T-Slot Nuts 6 St M6, St, bright zinc-plated
m = 208.0 g

1 set

0.0.660.46

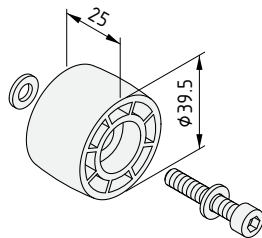


Roller D39.5-25

- Reliable guidance for moving assemblies
- Robust and durable thanks to ball bearings

It keeps everything on track! Robust Roller D39.5-25 turns on ball bearings and runs over aluminium profiles to provide reliable guidance for components. It is ideal for building Karakuri/LCA applications.

Using the accessories in the scope of supply, Roller D39.5-25 can be fitted to a Profile 6 D30, either to the end face (M6 thread) or to the groove using a T-Slot Nut. Alternatively, it can be secured in place using an item Multiblock D30.



Roller D39.5-25

Roller D39.5-25
 2 deep groove ball bearings, sealed
 Hexagon Socket Head Cap Screw DIN 912-M6x33, St, bright zinc-plated
 2 washers DIN 125-6.4, St, bright zinc-plated
 m = 49.0 g

1 set

0.0.673.55



Technical data.

Technical data – profiles and accessories.

All the loading values stated in this catalogue incorporate safety factors to protect against slipping and material failure. A safety factor of >2 is always applied. This means that users can make full use of the permissible values.

Note: All loading values apply to static loads. Where dynamic loads are involved, the maximum values should be viewed as comparative values.

Extruded Profile

Symbol Al Mg Si 0.5 F 25
Material number 3.3206.72
Status: artificially aged

Mechanical values (apply only in pressing direction)

Tensile strength Rm	min. 245 N/mm ²
Yield point Rp0.2	min. 195 N/mm ²
Density	2.7 kg/dm ³
Ductile yield A ₅	min. 10 %
Ductile yield A ₁₀	min. 8 %
Linear coefficient of expansion	23.6x10 ⁻⁶ 1/K
Modulus of elasticity E	approx. 70,000 N/mm ²
Modulus of rigidity G	approx. 25,000 N/mm ²
Hardness	approx. 75 HB - 2.5/187.5

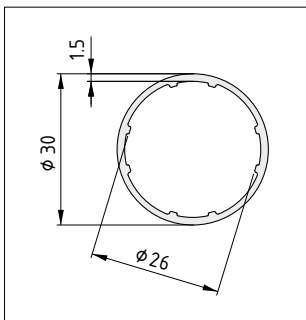
Tolerances

Deformations such as straightness and flatness tolerance to DIN EN 12020 Part 2.
Profiles not cut to size may be up to 100 mm longer than specified, due to manufacturing methods.

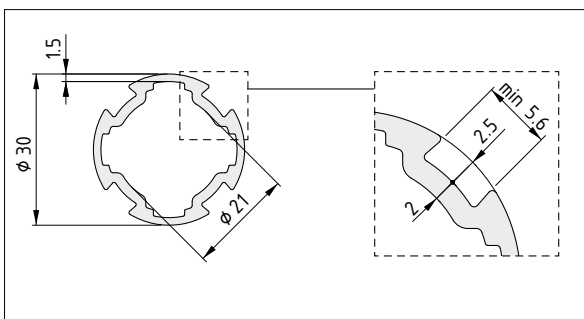
Surface

The aluminium profiles are natural (CO) anodized and are therefore permanently resistant to scratching and corrosion. The surface features a matt finish (E 6), is treated with anodic oxidation and is compressed. Minimum layer thickness 10 µm, layer hardness 250 - 350 HV. The all-round hard anodized surface covering makes saw cuts virtually burr-free, thereby eliminating the need for remachining.

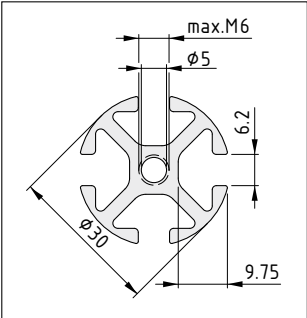
Tube D30



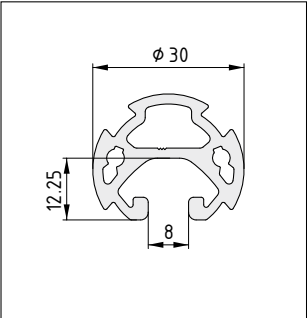
Profile Tube D30



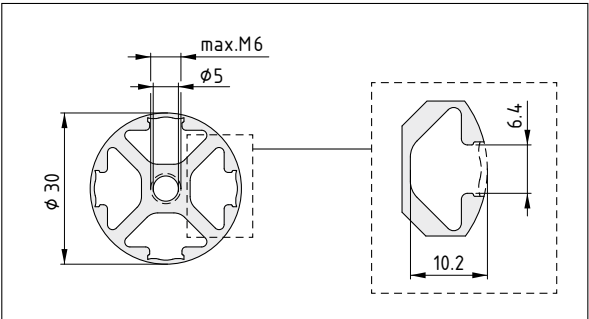
Profile 6 D30



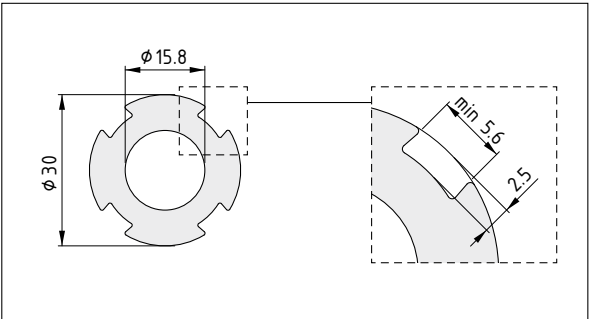
Profile Tube 8 D30



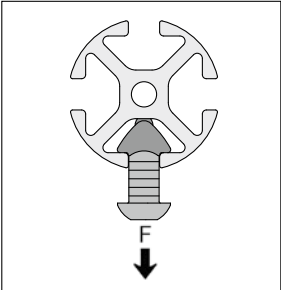
Profile 6 D30 4N



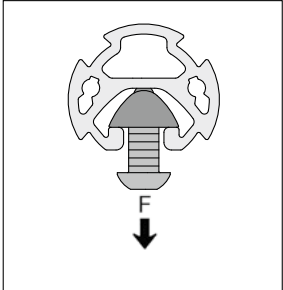
Profile Tube D30 heavy duty



Tensile Loading

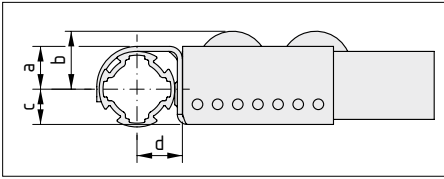


$F_{\max} = 3500 \text{ N}$

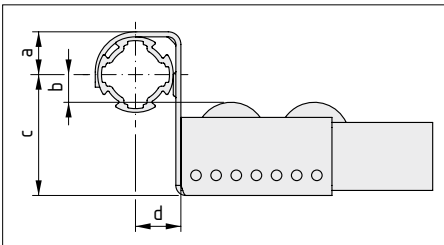


$F_{\max} = 1500 \text{ N}$

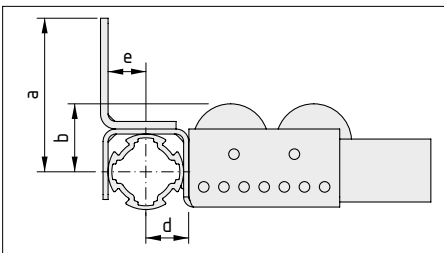
Mounting dimensions of Roller Conveyors St and Al, including Fastening Brackets.



Roller Conveyor St		Roller Conveyor St 60		Roller Conveyor Al	
Fastening Bracket D30 0.0.642.47	a = 17 mm b = 23 mm c = 14 mm d = 18 mm	Fastening Bracket D30 0.0.674.02	a = 18 mm b = 23 mm c = 7 mm d = 22 mm	Fastening Bracket D30 0.0.652.48 / 0.0.667.54	a = 17 mm b = 23 mm c = 28.5 mm d = 20.5 mm
Fastening Bracket U D30 0.0.647.07	a = 18 mm b = 23 mm			Fastening Bracket U D30 0.0.652.58 / 0.0.667.56	a = 18 mm b = 23 mm
Fastening Bracket I D30 0.0.647.06	c = 13 mm d = 20.5 mm			Fastening Bracket I D30 0.0.652.64 / 0.0.667.57	c = 28.5 mm d = 20.5 mm



Roller Conveyor St		Roller Conveyor St 60		Roller Conveyor Al	
Fastening Bracket D30 with Stop H27 0.0.642.46	a = 17 mm b = 11 mm c = 48 mm d = 18 mm				
Fastening Bracket D30 with Stop H43 0.0.652.46	a = 17 mm b = 26 mm c = 63 mm d = 20.5 mm	Fastening Bracket D30 with Stop H43 0.0.674.03	a = 17 mm b = 26 mm c = 56 mm d = 22.5 mm	Fastening Bracket D30 with Stop H43 0.0.652.57 / 0.0.667.55	a = 17 mm b = 26 mm c = 77.5 mm d = 20.5 mm



Roller Conveyor St		Roller Conveyor Al	
Roller Conveyor St, Fastening Bracket D30 with Forward Stop H43 0.0.658.17	a = 66 mm b = 23 mm d = 18 mm e = 14 mm	Roller Conveyor 6 40x40 Al, Fastening Bracket D30 with Forward Stop H43 0.0.659.19	a = 66 mm b = 23 mm d = 18 mm e = 14 mm
		Roller Conveyor Al, Fastening Bracket D30 with Forward Stop H43 0.0.662.31	a = 66 mm b = 23 mm d = 18 mm e = 14 mm

Helpful complementary elements from the item MB Building Kit System.

You can enhance your constructions with components from the MB Building Kit System.
Here is a selection of frequently used profiles and parts.



Profile 6 30x30 light	
	0.0.419.06
Profile 8 40x40 light	
	0.0.026.33
Profile 8 80x40 light	
	0.0.026.34



T-Slot Nut 6 St M5	
	0.0.419.43
T-Slot Nut 6 St M6	
	0.0.419.40
T-Slot Nut 8 St M5	
	0.0.420.05
T-Slot Nut 8 St M6	
	0.0.026.23
T-Slot Nut 8 St M8	
	0.0.026.18



Bracket 6 30 flat	
	0.0.459.11
Bracket 8 40 flat	
	0.0.196.86



T-Slot Slider 6	
	0.0.459.07
T-Slot Slider 8	
	0.0.601.23



T-Slot Roller 8 L	
	0.0.457.60
T-Slot Roller 8 F	
	0.0.457.51



Castor 6	
	0.0.419.79
Castor 8	
	0.0.026.83



Runner 8	
	0.0.026.13
Runner 8 80x40	
	0.0.618.97



Knuckle Foot D60, M10x75	
	0.0.439.29



Hook 8 40x40	
	0.0.634.82



Shelf 8 200-600	
	0.0.627.00



LED Light Fitting 15W 80x32x300	
	0.0.659.97



Magnetic Holder 8	
	0.0.627.86



Tool Balancer 1-2 kg	
	0.0.636.48



Tool Holder 8	
	0.0.474.50




Container Profile 8 80x40	
	0.0.643.38


Further details and products can be found in the Comprehensive Catalogue for the MB Building Kit System and online at: item24.de/en/mb

Find useful products faster – an overview of popular search entries.




Tube Protector D30 Fixing Clip  20
0.0.654.04




Tube End Cap D30  22
0.0.643.96




Anti-Torsion Block 6 D30-45°  10
0.0.630.40

Anti-Torsion Block 6 D30  10
0.0.630.39




Tube Adapter D30  41
0.0.630.61




Adapter 6 30x30/D30  47
0.0.656.32




Adapter D30/D28-37  48
0.0.638.88



Threaded Insert D30 M6  54
0.0.641.00

Threaded Insert, Prof. Tube D30 h-d M12  56
0.0.648.64




Panel-Fixing Profile D30 3-5mm  60
0.0.649.29




Flange D30-90x90  87
0.0.655.54




Bracket 6 D30  67
0.0.658.26




Hook and Holder Adapter D30  68
0.0.644.57




Label Hanger D30-100  69
0.0.654.92

Label Holder D30-100 flex  72
0.0.644.71




Slide Strip D30  160
0.0.634.42



Brush Strip D30 T1  162
0.0.653.01




Protective Profile D30 R28-90°  19
0.0.667.15



Cable Guide Profile D30  73
0.0.664.72



Universal Holder D30  74
0.0.671.98




Slide Strip D30 with Side Guide H13  160
0.0.671.30



Roller Con Fast Brack Adapter Sleeve D30 ESD  112
0.0.648.74



Spring Clip D30/30-32  66
0.0.660.98

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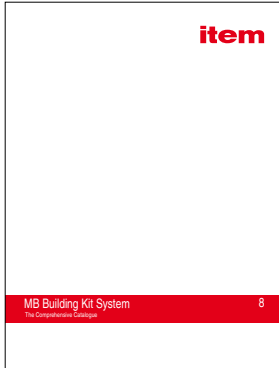
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Other item product catalogues.

MB Building Kit System



The MB Building Kit System is the solution for all design and construction tasks involving mechanical and factory equipment engineering.

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Work Bench System



Manual production is more productive with the ergonomic work benches of the item Work Bench System.

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Line XMS



Complete machine modules help you build machine enclosures in record time.

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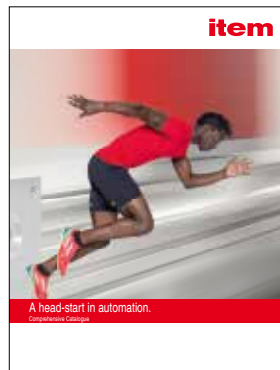
Stairway/Platform System



The Stairway/Platform System produces bridges and maintenance platforms in one uniform look.

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Automation System



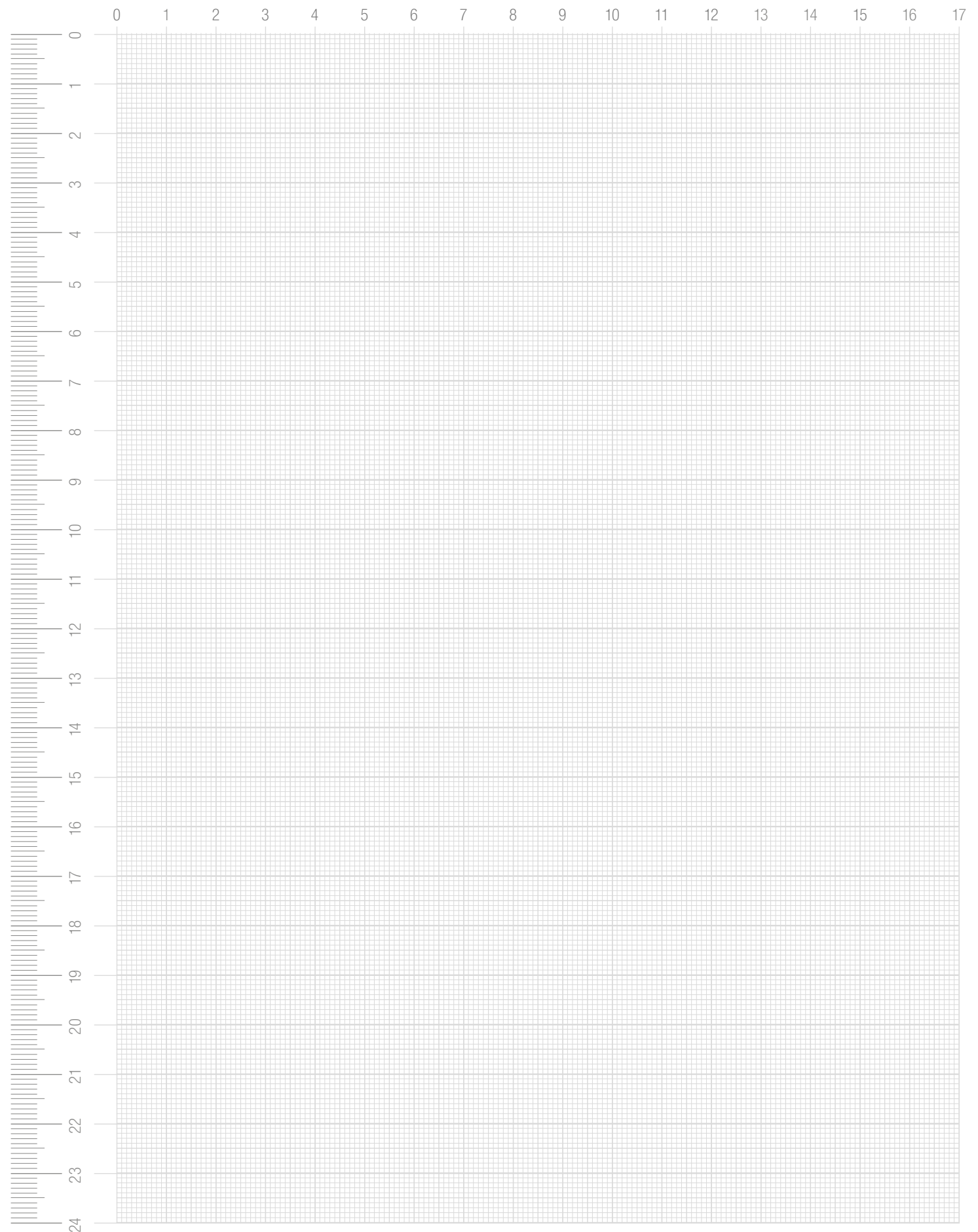
Ready-to-install Linear Units offer a customisable all-in-one system that makes automation easier than ever.

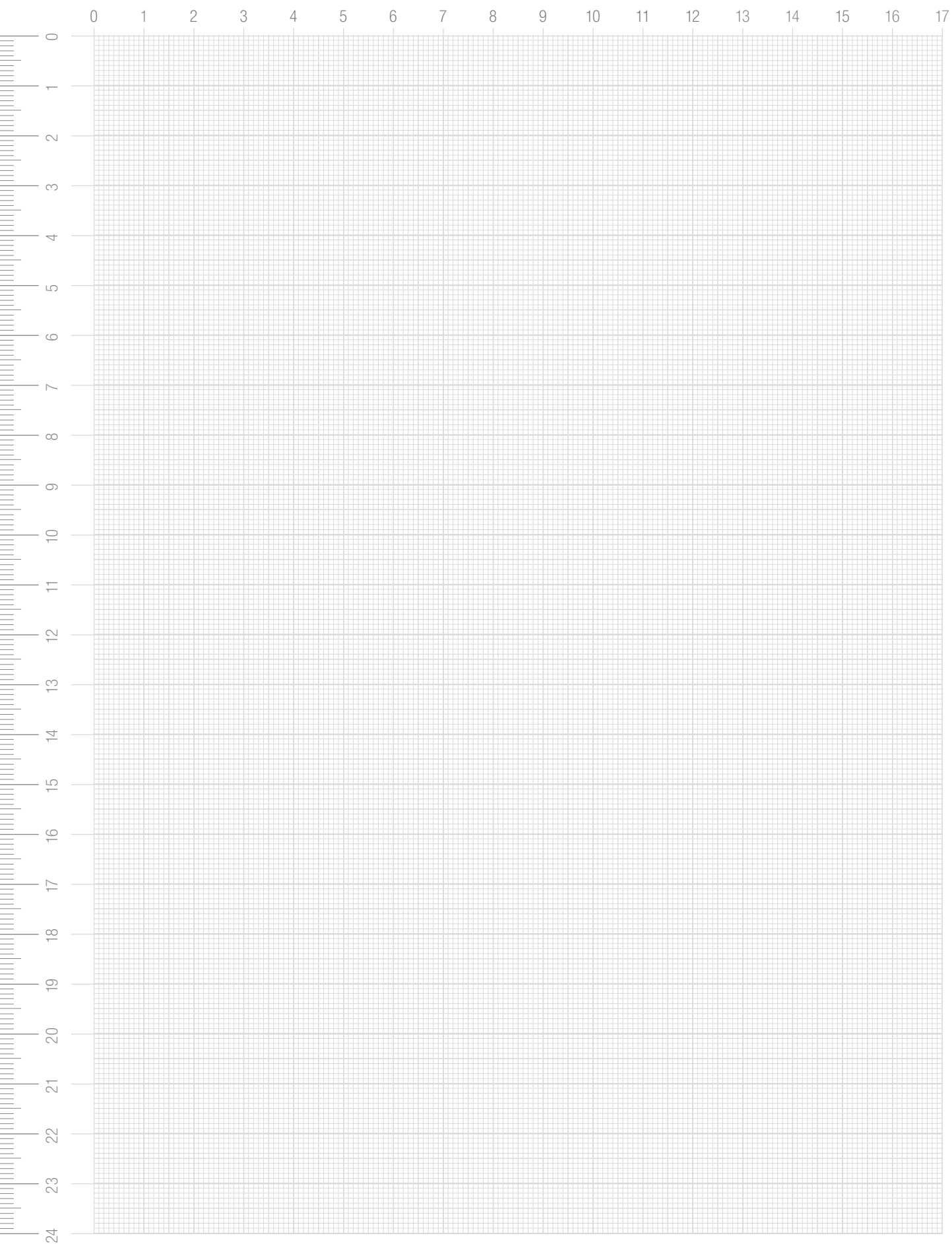
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item Industrietechnik GmbH

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