



» The Pipe & Joint System

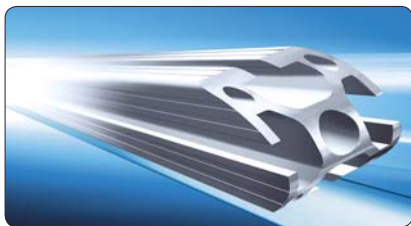
English
1/2018

 MayTec®

The key to success!



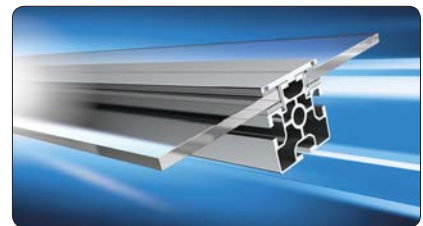
Solutions with Innovative Profile



The Profile System



The Clean-Room System



The Modular Wall System



The Tube Clamping System



The Telescopic System



The Linear System



The Conveyor System



The People Mover System



The Skid Transfer System



Safety Barriers



The Dust Protection System



The Pipe & Joint System

The ideal profile system

MayTec offers a comprehensive, harmonised profile system. All profiles can be combined in any way conceivable.

The accessories provide functional and aesthetic solutions for a wide range of applications.

Service

The MayTec service is as versatile as the MayTec profile system.

You may choose:

- delivery of standard elements ex-factory
- delivery of profiles and accessories cut to size according to parts list for customer's assembly
- delivery of pre-fitted modular components
- delivery of completely assembled units
- assembly at your premises

Implementation

The MayTec profile system is easy to process and quick to assemble. Its flexible and modular construction means it can be easily modified and is reusable at any time.

An experienced team will support you in implementing the MayTec system, tailored to your individual applications, taking into consideration your dimensions, loading capacity and stability.

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Pipes

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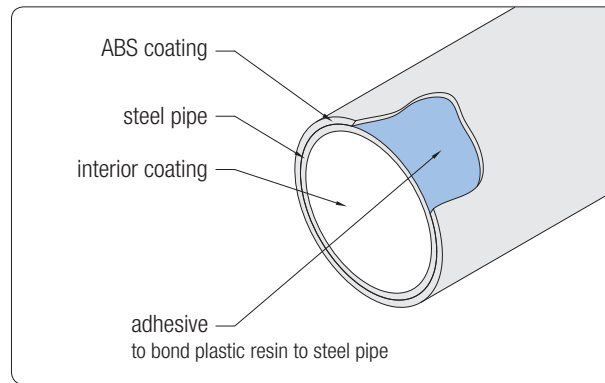
Key
 Pipe outside-Ø ¹⁾
 Pipes
 Material ²⁾
 Pipe model ³⁾
 Conductivity ⁴⁾
 Wall thickness ⁵⁾
 Colour of coating ⁶⁾
 Length of pipe ⁷⁾
 Packing unit ⁸⁾

- ¹⁾ 1 = 28 mm
- ²⁾ 1 = Steel, ABS coated
 3 = Stainless steel
 4 = Aluminium
- ³⁾ 1 = Steel pipe
 2 = Slide pipe
 3 = Flat pipe
 4 = Pipe profile
- ⁴⁾ 0 = Standard
 E = ESD
- ⁵⁾ 07 = 0.7 mm
 10 = 1.0 mm
 12 = 1.2 mm
 15 = 1.5 mm
 20 = 2.0 mm
- ⁶⁾ 00 = w/o
 01 = black
 02 = white
 03 = ivory
 04 = dark grey
 05 = light grey
 06 = dark blue
 07 = light blue
 08 = green
 09 = red
 10 = yellow
- ⁷⁾ 4 = 4 m
- ⁸⁾ 0 = Single pipe
 1 = PU 1 = 10 Pcs
 2 = PU 2 = 100 Pcs











Cut to length pipes

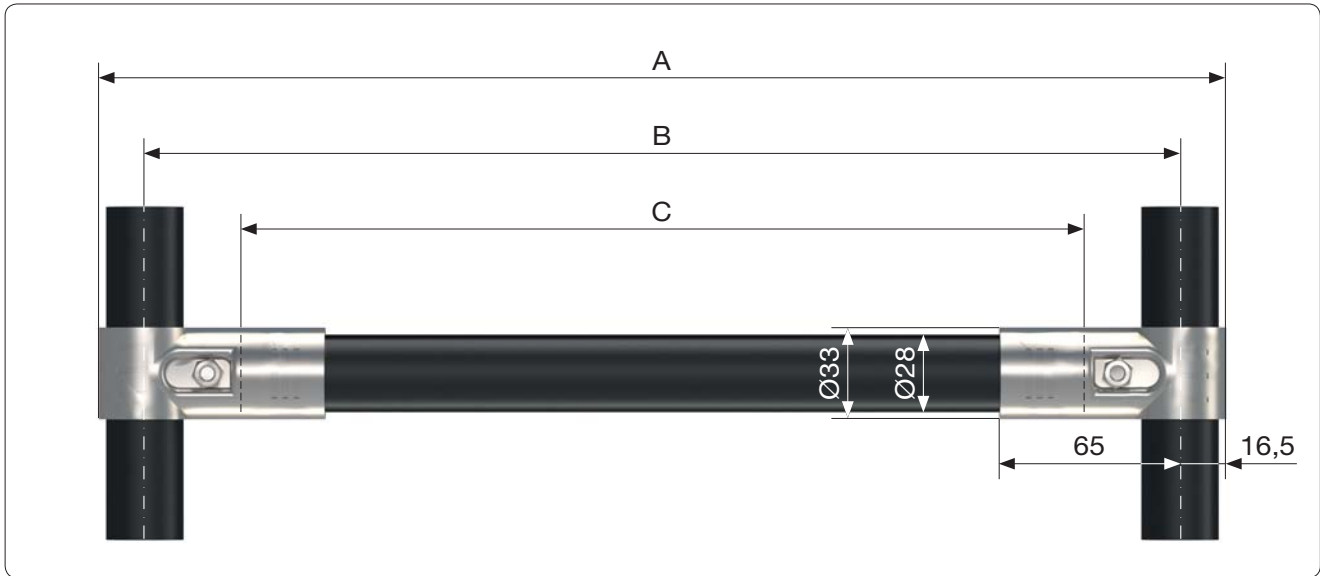
21.□□.□□□□.□□.□□/□□□□ **Key**
 21.□□.□□□□.□□.□□/□□□□ cut length in mm

MayTec standard pipe



Colours

Colour	similar to RAL
	black 9004: signal black
	white 9002: grey white
	ivory 1014: ivory
	dark grey 7012: basalt grey
	light grey 7038: agate grey
	dark blue 5005: signal blue
	light blue 5012: light blue
	green 6018: yellow green
	red 3000: flame red
	yellow 1018: zinc yellow



Definitions

- A = outside dimension
- B = pipe center span
- C = pipe cut length

A	B	C
outside dimension	pipe center span	pipe cut length
B = A - 33	A = B + 33	A = C + 103
C = A - 103	C = B - 70	B = C + 70

Flexural strength of pipes

Maximum deflection according norm BGR 234
(workers' compensation regulation)

'The maximum deflection of load carrying beams in a storage equipment is not allowed to exceed **1/200** of the distance between the posts for metal frames and 1/150 for frames build with other materials. For both values the deflection has to be based on the constant load.'

Flexural strength of pipes

- f = Deflection in mm
- F = Type of load in N
- l = Profile length in mm
- J¹⁾ = Moment of inertia in mm⁴
- E = Module of elasticity in N/mm²
- E_{AL} = 70,000 N/mm²
- E_{St} = 210,000 N/mm²

1) Comments

- Catalogue data in cm⁴
(Note factor of conversion 10⁴ !)
- The moments of inertia are listed on the pages 21.11

Type of load		
<p>↓ point load</p>	$f = \frac{F \cdot l^3}{48E \cdot J}$	
<p>↓↓↓ distributed load</p>	$f = \frac{5F \cdot l^3}{384E \cdot J}$	

Torque moment for connectors



Clamping connector






recommended torque moment: 20 Nm
maximum torque moment: 25 Nm












MayTec Pipe connector

recommended torque moment: 30 Nm
maximum torque moment: 40 Nm

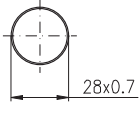




Strength values of pipe connectors

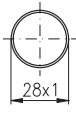




Type of joint	Joint	Pipe	Tension load ¹⁾ at 25 Nm torque moment	
			x axis	y axis
 Standard joint 90°	Standard joint 90°, black 21.121.01.1	ABS coated, 2.0 mm 21.11.110.20.01	155 kg	230 kg
	Standard joint 90°, nickel plated 21.121.01.2	Stainless steel, 1.2 mm 21.11.31E.12.00	190 kg	260 kg
 90° angle joint	90° angle joint, black 21.121.03.1	ABS coated, 2.0 mm 21.11.110.20.01	195 kg	460 kg
	90° angle joint, nickel plated 21.121.03.2	Stainless steel, 1.2 mm 21.11.31E.12.00	195 kg	260 kg
 180° joint	180° joint, black 21.121.04.1	ABS coated, 2.0 mm 21.11.110.20.01	195 kg	460 kg
	180° joint, nickel plated 21.121.04.2	Stainless steel, 1.2 mm 21.11.31E.12.00	195 kg	260 kg
 T-joint	T-joint, black 21.121.05.1	ABS coated, 2.0 mm 21.11.110.20.01	195 kg	460 kg
	T-joint, nickel plated 21.121.05.2	Stainless steel, 1.2 mm 21.11.31E.12.00	195 kg	260 kg
 MayTec Pipe connector, standard, with intermediary	MayTec Pipe connector, standard, with intermed. 21.M28S1028T21	ABS coated, 1.0 mm 21.11.110.10.01	300 kg	
	21.M28S2028T21	ABS coated, 2.0 mm 21.11.110.20.01	600 kg	
	21.M28V1228T11	Stainless steel, 1.2 mm 21.11.31E.12.00	500 kg	
	21.M28A2028T11	Aluminium, 2.0 mm 21.11.410.20.00	500 kg	

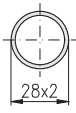




¹⁾ increase of tension load: 1 kg/min
load measurement until sliding of connector

Technical data			wall thickness in mm	black	white	ivory	dark grey	light grey	dark blue	light blue	green	red	yellow	without coating	
Material	Pipe	Version		black	white	ivory	dark grey	light grey	dark blue	light blue	green	red	yellow	without coating	
Steel, ABS coated		Standard	0.7	•	•	•	•	•	•	•	•	•	•		
			1.0	•	•	•	•	•	•	•	•	•	•	•	
			2.0	•	•	•	•	•	•	•	•	•	•	•	
		ESD		0.7	•										
				1.0	•										
				2.0	•										
	Slide pipe		Standard	1.0	•	•	•								
			ESD		1.0	•									
	Flat pipe		Standard	1.0	•										
ESD				1.0	•										
Stainless	Steel pipe	ESD		0.7										•	
				1.2										•	
Aluminium	Standard pipe	ESD		2.0										•	
															


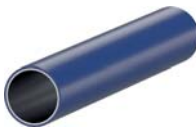
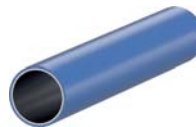


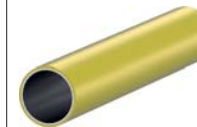
Aluminium	Pipe profile	ESD		1.5										•
														



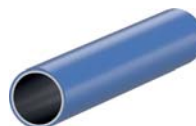


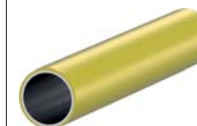
wall thickness 0.7 mm				
				
Description	Steel pipe Ø28, 0.7, black	Steel pipe Ø28, 0.7, white	Steel pipe Ø28, 0.7, ivory	Steel pipe Ø28, 0.7, dark grey
pipe, 4 m	21.11.110.07.01.40	21.11.110.07.02.40	21.11.110.07.03.40	21.11.110.07.04.40
packing unit 1 (10 Pcs)	21.11.110.07.01.41	21.11.110.07.02.41	21.11.110.07.03.41	21.11.110.07.04.41
packing unit 2 (100 Pcs)	21.11.110.07.01.42	21.11.110.07.02.42	21.11.110.07.03.42	21.11.110.07.04.42
moment of inertia cm ⁴	$I_x = 0.4 \quad I_y = 0.4$			
moment of resistance cm ³	$W_x = 0.3 \quad W_y = 0.3$			
weight kg/m	G = 0.5			


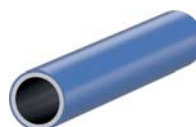


wall thickness 1.0 mm				
				
Description	Steel pipe Ø28, 1.0, black	Steel pipe Ø28, 1.0, white	Steel pipe Ø28, 1.0, ivory	Steel pipe Ø28, 1.0, dark grey
pipe, 4 m	21.11.110.10.01.40	21.11.110.10.02.40	21.11.110.10.03.40	21.11.110.10.04.40
packing unit 1 (10 Pcs)	21.11.110.10.01.41	21.11.110.10.02.41	21.11.110.10.03.41	21.11.110.10.04.41
packing unit 2 (100 Pcs)	21.11.110.10.01.42	21.11.110.10.02.42	21.11.110.10.03.42	21.11.110.10.04.42
moment of inertia cm ⁴	$I_x = 0.6 \quad I_y = 0.6$			
moment of resistance cm ³	$W_x = 0.4 \quad W_y = 0.4$			
weight kg/m	G = 0.7			


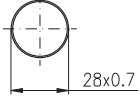

wall thickness 2.0 mm				
				
Description	Steel pipe Ø28, 2.0, black	Steel pipe Ø28, 2.0, white	Steel pipe Ø28, 2.0, ivory	Steel pipe Ø28, 2.0, dark grey
pipe, 4 m	21.11.110.20.01.40	21.11.110.20.02.40	21.11.110.20.03.40	21.11.110.20.04.40
packing unit 1 (10 Pcs)	21.11.110.20.01.41	21.11.110.20.02.41	21.11.110.20.03.41	21.11.110.20.04.41
packing unit 2 (100 Pcs)	21.11.110.20.01.42	21.11.110.20.02.42	21.11.110.20.03.42	21.11.110.20.04.42
moment of inertia cm ⁴	$I_x = 1.1 \quad I_y = 1.1$			
moment of resistance cm ³	$W_x = 0.8 \quad W_y = 0.8$			
weight kg/m	G = 1.1			




Cut specifications ↔ Numerical key for products 21.02


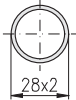

					
Steel pipe Ø28, 0.7, light grey	Steel pipe Ø28, 0.7, dark blue	Steel pipe Ø28, 0.7, light blue	Steel pipe Ø28, 0.7, green	Steel pipe Ø28, 0.7, red	Steel pipe Ø28, 0.7, yellow
21.11.110.07.05.40	21.11.110.07.06.40	21.11.110.07.07.40	21.11.110.07.08.40	21.11.110.07.09.40	21.11.110.07.10.40
21.11.110.07.05.41	21.11.110.07.06.41	21.11.110.07.07.41	21.11.110.07.08.41	21.11.110.07.09.41	21.11.110.07.10.41
21.11.110.07.05.42	21.11.110.07.06.42	21.11.110.07.07.42	21.11.110.07.08.42	21.11.110.07.09.42	21.11.110.07.10.42

					
Steel pipe Ø28, 1.0, light grey	Steel pipe Ø28, 1.0, dark blue	Steel pipe Ø28, 1.0, light blue	Steel pipe Ø28, 1.0, green	Steel pipe Ø28, 1.0, red	Steel pipe Ø28, 1.0, yellow
21.11.110.10.05.40	21.11.110.10.06.40	21.11.110.10.07.40	21.11.110.10.08.40	21.11.110.10.09.40	21.11.110.10.10.40
21.11.110.10.05.41	21.11.110.10.06.41	21.11.110.10.07.41	21.11.110.10.08.41	21.11.110.10.09.41	21.11.110.10.10.41
21.11.110.10.05.42	21.11.110.10.06.42	21.11.110.10.07.42	21.11.110.10.08.42	21.11.110.10.09.42	21.11.110.10.10.42

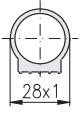



					
Steel pipe Ø28, 2.0, light grey	Steel pipe Ø28, 2.0, dark blue	Steel pipe Ø28, 2.0, light blue	Steel pipe Ø28, 2.0, green	Steel pipe Ø28, 2.0, red	Steel pipe Ø28, 2.0, yellow
21.11.110.20.05.40	21.11.110.20.06.40	21.11.110.20.07.40	21.11.110.20.08.40	21.11.110.20.09.40	21.11.110.20.10.40
21.11.110.20.05.41	21.11.110.20.06.41	21.11.110.20.07.41	21.11.110.20.08.41	21.11.110.20.09.41	21.11.110.20.10.41
21.11.110.20.05.42	21.11.110.20.06.42	21.11.110.20.07.42	21.11.110.20.08.42	21.11.110.20.09.42	21.11.110.20.10.42


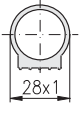

wall thickness 0.7 mm  					
Description		Steel pipe Ø28, 0.7 black, ESD			
pipe, 4 m		21.11.11E.07.01.40			
packing unit 1 (10 Pcs)		21.11.11E.07.01.41			
packing unit 2 (100 Pcs)		21.11.11E.07.01.42			
moment of inertia	cm ⁴	$I_x = 0.4$	$I_y = 0.4$		
moment of resistance	cm ³	$W_x = 0.3$	$W_y = 0.3$		
weight	kg/m	$G = 0.5$			

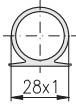

wall thickness 1.0 mm  					
Description		Steel pipe Ø28, 1.0 black, ESD			
pipe, 4 m		21.11.11E.10.01.40			
packing unit 1 (10 Pcs)		21.11.11E.10.01.41			
packing unit 2 (100 Pcs)		21.11.11E.10.01.42			
moment of inertia	cm ⁴	$I_x = 0.6$	$I_y = 0.6$		
moment of resistance	cm ³	$W_x = 0.4$	$W_y = 0.4$		
weight	kg/m	$G = 0.7$			


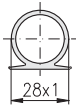

wall thickness 2.0 mm  					
Description		Steel pipe Ø28, 2.0 black, ESD			
pipe, 4 m		21.11.11E.20.01.40			
packing unit 1 (10 Pcs)		21.11.11E.20.01.41			
packing unit 2 (100 Pcs)		21.11.11E.20.01.42			
moment of inertia	cm ⁴	$I_x = 1.1$	$I_y = 1.1$		
moment of resistance	cm ³	$W_x = 0.8$	$W_y = 0.8$		
weight	kg/m	$G = 1.1$			


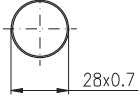

Cut specifications ⇄ Numerical key for products 21.02


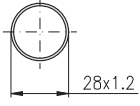

wall thickness 1.0 mm 				
				
Description	Slide pipe Ø28, 1.0 black	Slide pipe Ø28, 1.0 white	Slide pipe Ø28, 1.0 ivory	
pipe, 4 m	21.11.120.10.01.40	21.11.120.10.02.40	21.11.120.10.03.40	
packing unit 1 (10 Pcs)	21.11.120.10.01.41	21.11.120.10.02.41	21.11.120.10.03.41	
packing unit 2 (100 Pcs)	21.11.120.10.01.42	21.11.120.10.02.42	21.11.120.10.03.42	
moment of inertia cm ⁴	$I_x = 0.6 \quad I_y = 0.6$			
moment of resistance cm ³	$W_x = 0.4 \quad W_y = 0.4$			
weight kg/m	$G = 0.8$			

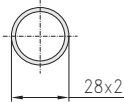

wall thickness 1.0 mm  				
				
Description	Slide pipe Ø28, 1.0 black, ESD			
pipe, 4 m	21.11.12E.10.01.40			
packing unit 1 (10 Pcs)	21.11.12E.10.01.41			
packing unit 2 (100 Pcs)	21.11.12E.10.01.42			
moment of inertia cm ⁴	$I_x = 0.6 \quad I_y = 0.6$			
moment of resistance cm ³	$W_x = 0.4 \quad W_y = 0.4$			
weight kg/m	$G = 0.8$			

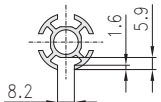




wall thickness 1.0 mm 				
Description	Flat pipe Ø28, 1.0 black			
Pipe, 4 m	21.11.130.10.01.40			
packing unit 1 (10 Pcs)	21.11.130.10.01.41			
packing unit 2 (100 Pcs)	21.11.130.10.01.42			
moment of inertia cm ⁴	$I_x = 0.6$	$I_y = 0.6$		
moment of resistance cm ³	$W_x = 0.4$	$W_y = 0.4$		
weight kg/m	$G = 0.8$			

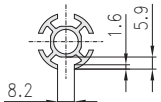

wall thickness 1.0 mm  				
Description	Flat pipe Ø28, 1.0 black, ESD			
Pipe, 4 m	21.11.13E.10.01.40			
packing unit 1 (10 Pcs)	21.11.13E.10.01.41			
packing unit 2 (100 Pcs)	21.11.13E.10.01.42			
moment of inertia cm ⁴	$I_x = 0.6$	$I_y = 0.6$		
moment of resistance cm ³	$W_x = 0.4$	$W_y = 0.4$		
weight kg/m	$G = 0.8$			

wall thickness 0.7 mm  					
Description		Stainless steel pipe Ø28 0.7			
Pipe, 4 m		21.11.31E.07.00.40			
packing unit 1 (10 Pcs)		21.11.31E.07.00.41			
packing unit 2 (100 Pcs)		21.11.31E.07.00.42			
moment of inertia	cm ⁴	$I_x = 0.6 \quad I_y = 0.6$			
moment of resistance	cm ³	$W_x = 0.4 \quad W_y = 0.4$			
weight	kg/m	$G = 0.5$			

wall thickness 1.2 mm  					
Description		Stainless steel pipe Ø28 1.2			
Pipe, 4 m		21.11.31E.12.00.40			
packing unit 1 (10 Pcs)		21.11.31E.12.00.41			
packing unit 2 (100 Pcs)		21.11.31E.12.00.42			
moment of inertia	cm ⁴	$I_x = 0.9 \quad I_y = 0.9$			
moment of resistance	cm ³	$W_x = 0.6 \quad W_y = 0.6$			
weight	kg/m	$G = 0.8$			

wall thickness 2.0 mm 				
				
Description		Aluminium pipe Ø28, 2.0		
Pipe, 4 m		21.11.410.20.00.40		
packing unit 1 (10 Pcs)		21.11.410.20.00.41		
packing unit 2 (100 Pcs)		21.11.410.20.00.42		
moment of inertia cm ⁴				
moment of resistance cm ³				
weight kg/m		G = 0.4		

wall thickness 1.5 mm 					
					
Description		Aluminium pipe profile Ø28, 1.5, 1 F-slot	Aluminium pipe profile Ø28, 1.5, 2 F-slots, corner	Aluminium pipe profile Ø28, 1.5, 2 F-slots	Aluminium pipe profile Ø28, 1.5, 3 F-slots
Pipe profile, 4 m		21.11.44.10.40	21.11.44.22.40	21.11.44.20.40	21.11.44.30.40
packing unit 1 (10 Pcs)		21.11.44.10.41	21.11.44.22.41	21.11.44.20.41	21.11.44.30.41
packing unit 2 (100 Pcs)		21.11.44.10.42	21.11.44.22.42	21.11.44.20.42	21.11.44.30.42
moment of inertia cm ⁴		$I_x = 1.5$ $I_y = 1.5$	$I_x = 1.3$ $I_y = 1.3$	$I_x = 1.5$ $I_y = 1.1$	$I_x = 1.3$ $I_y = 1.1$
moment of resistance cm ³		$W_x = 1.1$ $W_y = 1.1$	$W_x = 0.9$ $W_y = 0.9$	$W_x = 1.1$ $W_y = 0.8$	$W_x = 0.9$ $W_y = 0.8$
weight kg/m		G = 0.6	G = 0.6	G = 0.6	G = 0.6

wall thickness 1.5 mm 				
				
Description		Aluminium pipe profile Ø28, 1.5, 4 F-slots		
Pipe profile, 4 m		21.11.44.40.40		
packing unit 1 (10 Pcs)		21.11.44.40.41		
packing unit 2 (100 Pcs)		21.11.44.40.42		
moment of inertia cm ⁴		$I_x = 1.1$ $I_y = 1.1$		
moment of resistance cm ³		$W_x = 0.8$ $W_y = 0.8$		
weight kg/m		G = 0.5		

Cut specifications ↔ Numerical key for products 21.02

Standard joints



Standard joint 90°
↗ 16



Tangential joint
↗ 16



90° angle joint
↗ 17



180° joint
↗ 17



T-joint
↗ 18



Star joint
↗ 18

Standard joints overlapping joint



Standard joint 90°
↗ 19



180° joint
↗ 19

Angle joints



Corner joint
↗ 20



45° angle joint
↗ 20



Hinged joint
↗ 21



Double hinged joint
↗ 21



Hinged corner joint
↗ 22

Crossover joints



Crossover joint
↗ 22



Tangential crossover joint
↗ 23



Bolted crossover joint
↗ 23



Tangential bolted crossover joint
↗ 24

Parallel joints



Parallel joint
↔ 24



Double standard joint
↔ 25

Extensions

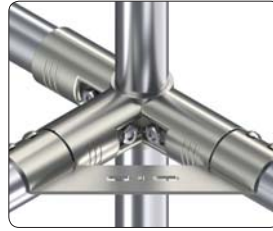


Extension for ABS coated pipes
↔ 25

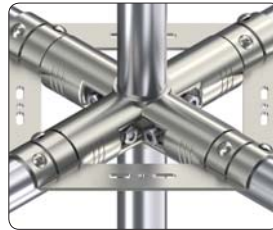


Extension for stainless steel pipes
↔ 25

Joint bracing



Corner support
↔ 26



Corner support type B
↔ 26

Sliding joints



90° sliding joint
↔ 27



Parallel sliding joint
↔ 28



Double sided parallel sliding joint
↔ 29

Flat pipe joints



Flat pipe joint
➔ 30

Slide pipe joints



Slide pipe joint
➔ 31



Slide pipe joint with stop
➔ 31



Slide pipe joint union
➔ 31



Slide pipe joint with offset
➔ 32



Slide pipe bridge
➔ 32



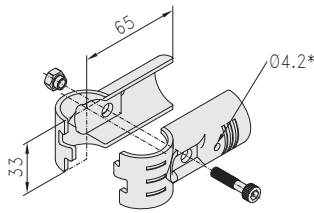
Slide pipe bridge, rounded
➔ 32

Standard joint 90°



* Standard joint 90°, black, with bore Ø4,2 for locking screw (self cutting screw M4.2×13, black 0.63.7504.4,2x131)

Standard joint 90°, nickel plated, w/o bore Ø4,2



Description	Weight	Product No.
Standard joint 90°, black	149 g	21.121.01.1
Standard joint 90°, nickel plated	149 g	21.121.01.2

Single parts

Description	Pcs.	Weight	Product No.
Standard connector 90°	2	70 g	21.121.01A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

□
black 1
nickel plated / silver 2

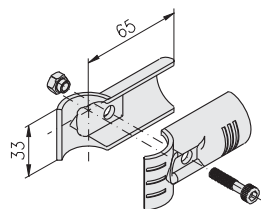
Alternative

Connector nut M6, self-locking		2 g	21.99.61.A06S.□
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Optional

Self cutting screw M4.2×13, black		2 g	0.63.7504.4,2x131
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Tangential joint



Description	Weight	Product No.
Tangential joint, black	129 g	21.121.02.1
Tangential joint, nickel plated	129 g	21.121.02.2

Single parts

Description	Pcs.	Weight	Product No.
Tangential connector	2	60 g	21.121.02A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

□
black 1
nickel plated / silver 2

Alternative

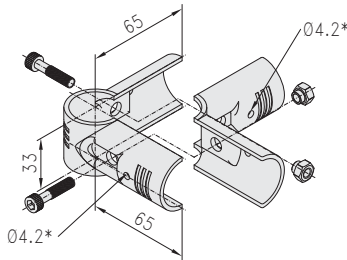
Connector nut M6, self-locking		2 g	21.99.61.A06S.□
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90° angle joint



* 90° angle connector, black, with bore Ø4,2 for locking screw (self cutting screw M4.2×13, black 0.63.7504.4,2x131)

90° angle connector, nickel plated, w/o bore Ø4,2



Description	Weight	Product No.
90° angle joint, black	239 g	21.121.03.1
90° angle joint, nickel plated	239 g	21.121.03.2

Single parts

□
black 1
nickel plated / silver 2

Description	Pcs.	Weight	Product No.
90° angle connector inside	1	96 g	21.121.03A.□
90° angle connector outside	1	125 g	21.121.03B.□
Connector screw M6×25	2	7 g	0.63.0912.06025.□
Connector nut M6	2	2 g	21.99.61.A06.□

Alternative

Connector nut M6, self-locking	2 g	21.99.61.A06S.□
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Optional

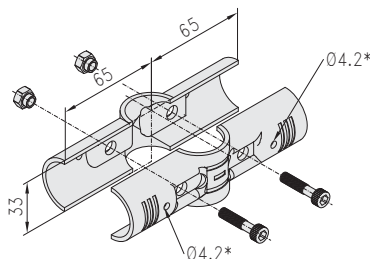
Self cutting screw M4.2×13, black	2 g	0.63.7504.4,2x131
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180° joint



* 180° connector, black, with bore Ø4,2 for locking screw (self cutting screw M4.2×13, black 0.63.7504.4,2x131)

180° connector, nickel plated, w/o bore Ø4,2



Description	Weight	Product No.
180° joint, black	238 g	21.121.04.1
180° joint, nickel plated	238 g	21.121.04.2

Single parts

□
black 1
nickel plated / silver 2

Description	Pcs.	Weight	Product No.
180° connector	2	110 g	21.121.04A.□
Connector screw M6×25	2	7 g	0.63.0912.06025.□
Connector nut M6	2	2 g	21.99.61.A06.□

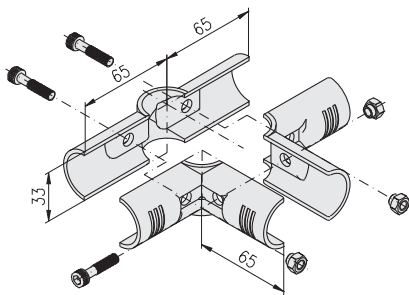
Alternative

Connector nut M6, self-locking	2 g	21.99.61.A06S.□
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Optional

Self cutting screw M4.2×13, black	2 g	0.63.7504.4,2x131
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T-joint



Description	Weight	Product No.
T-joint, black	329 g	21.121.05.1
T-joint, nickel plated	329 g	21.121.05.2

Single parts

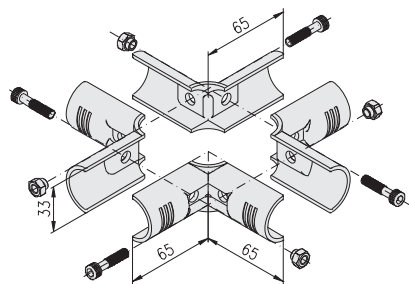
Description	Pcs.	Weight	Product No.
90° angle connector inside	2	96 g	21.121.03A.□
180° connector	1	110 g	21.121.04A.□
Connector screw M6×25	3	7 g	0.63.0912.06025.□
Connector nut M6	3	2 g	21.99.61.A06.□

Alternative

Connector nut M6, self-locking	2 g	21.99.61.A06S.□
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□
black 1
nickel plated / silver 2

Star joint



Description	Weight	Product No.
Star joint, black	420 g	21.121.06.1
Star joint, nickel plated	420 g	21.121.06.2

Single parts

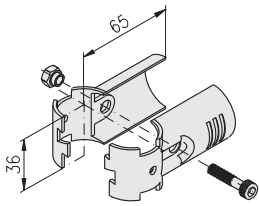
Description	Pcs.	Weight	Product No.
90° angle connector inside	4	96 g	21.121.03A.□
Connector screw M6×25	4	7 g	0.63.0912.06025.□
Connector nut M6	4	2 g	21.99.61.A06.□

Alternative

Connector nut M6, self-locking	2 g	21.99.61.A06S.□
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□
black 1
nickel plated / silver 2

Standard joint 90°
overlapping joint



Description	Weight	Product No.
Standard joint 90°, overlapping joint, black	141 g	21.121.11.1
Standard joint 90°, overlapping joint, nickel plated	141 g	21.121.11.2

Single parts

Description	Pcs.	Weight	Product No.
Standard connector 90°, overlapping joint	2	66 g	21.121.11A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

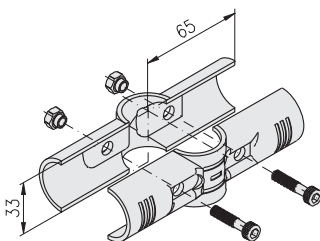
Alternative

Connector nut M6, self-locking		2 g	21.99.61.A06S.□
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Optional

Self cutting screw M4.2×13		2 g	0.63.7504.4,2x13.□
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180° joint
overlapping joint



Description	Weight	Product No.
180° joint, overlapping joint, black	238 g	21.121.14.1
180° joint, overlapping joint, nickel plated	238 g	21.121.14.2

Single parts

Description	Pcs.	Weight	Product No.
180° connector, overlapping joint	2	110 g	21.121.14A.□
Connector screw M6×25	2	7 g	0.63.0912.06025.□
Connector nut M6	2	2 g	21.99.61.A06.□

Alternative

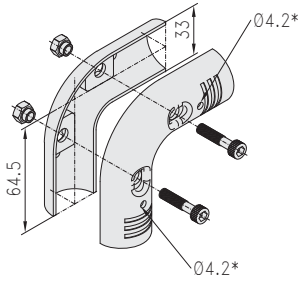
Connector nut M6, self-locking		2 g	21.99.61.A06S.□
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Corner joint



* Corner joint, black, with bore Ø4,2 for locking screw (self cutting screw M4.2×13, black 0.63.7504.4,2x131)

Corner joint, nickel plated, w/o bore Ø4,2



Description	Weight	Product No.
Corner joint, black	232 g	21.121.21.1
Corner joint, nickel plated	232 g	21.121.21.2

Single parts

black 1
nickel plated / silver 2

Description	Pcs.	Weight	Product No.
Corner connector	2	107 g	21.121.21A.□
Connector screw M6×25	2	7 g	0.63.0912.06025.□
Connector nut M6	2	2 g	21.99.61.A06.□

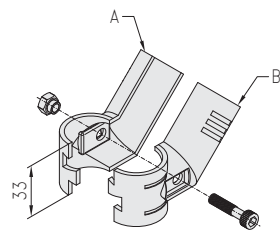
Alternative

Connector nut M6, self-locking	2 g	21.99.61.A06S.□
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Optional

Self cutting screw M4.2×13, black	2 g	0.63.7504.4,2x131
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45° angle joint



Description	Weight	Product No.
45° angle joint, black	155 g	21.121.22.1
45° angle joint, nickel plated	155 g	21.121.22.2

Single parts

black 1
nickel plated / silver 2

Description	Pcs.	Weight	Product No.
45° angle connector, part A	1	73 g	21.121.22A.□
45° angle connector, part B	1	73 g	21.121.22B.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

Alternative

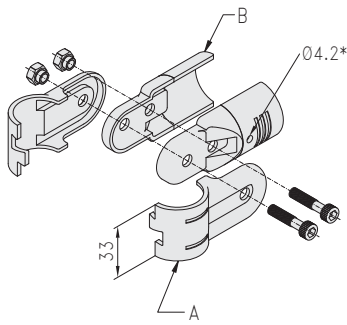
Connector nut M6, self-locking	2 g	21.99.61.A06S.□
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Hinged joint



* Hinged connector, part A, black, with bore Ø4,2 for locking screw (self cutting screw M4.2×13, black 0.63.7504.4,2x131)

Hinged connector, part A, nickel plated, w/o bore Ø4,2



Description	Weight	Product No.
Hinged joint, black	234 g	21.121.23.1
Hinged joint, nickel plated	234 g	21.121.23.2

Single parts

Description	Pcs.	Weight	Product No.
Hinged connector, part A	2	48 g	21.121.23A.□
Hinged connector, part B	2	60 g	21.121.23B.□
Connector screw M6×25	2	7 g	0.63.0912.06025.□
Connector nut M6	2	2 g	21.99.61.A06.□

□
black 1
nickel plated / silver 2

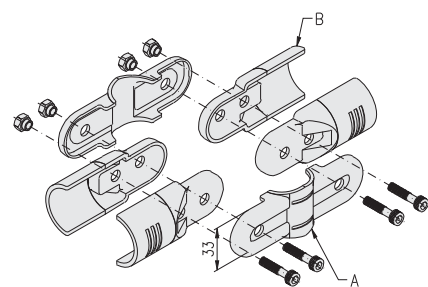
Alternative

Connector nut M6, self-locking	2 g	21.99.61.A06S.□
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Optional

Self cutting screw M4.2×13, black	2 g	0.63.7504.4,2x131
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Double hinged joint



Description	Weight	Product No.
Double hinged joint, black	394 g	21.121.24.1
Double hinged joint, nickel plated	394 g	21.121.24.2

Single parts

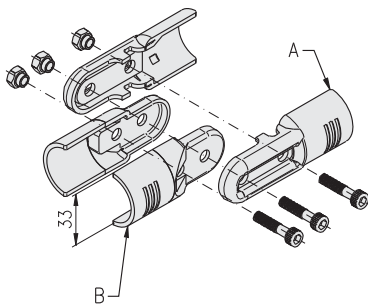
Description	Pcs.	Weight	Product No.
Double hinged connector, part A	2	59 g	21.121.24A.□
Hinged connector, part B	4	60 g	21.121.23B.□
Connector screw M6×25	4	7 g	0.63.0912.06025.□
Connector nut M6	4	2 g	21.99.61.A06.□

□
black 1
nickel plated / silver 2

Alternative

Connector nut M6, self-locking	2 g	21.99.61.A06S.□
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Hinged corner joint



Description	Weight	Product No.
Hinged corner joint, black	281 g	21.121.25.1
Hinged corner joint, nickel plated	281 g	21.121.25.2

Single parts

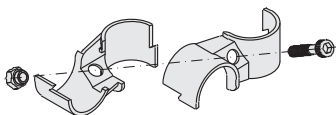
Description	Pcs.	Weight	Product No.
Hinged corner connector, part A	2	67 g	21.121.25A.□
Hinged connector, part B	2	60 g	21.121.23B.□
Connector screw M6×25	3	7 g	0.63.0912.06025.□
Connector nut M6	3	2 g	21.99.61.A06.□

Alternative

Connector nut M6, self-locking		2 g	21.99.61.A06S.□
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□
black 1
nickel plated / silver 2

Crossover joint



Description	Weight	Product No.
Crossover joint, black	109 g	21.121.31.1
Crossover joint, nickel plated	109 g	21.121.31.2

Single parts

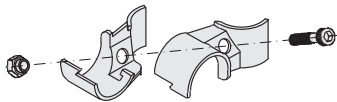
Description	Pcs.	Weight	Product No.
Crossover connector	2	50 g	21.121.31A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

Alternative

Connector nut M6, self-locking		2 g	21.99.61.A06S.□
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□
black 1
nickel plated / silver 2

Tangential crossover joint



Description	Weight	Product No.
Tangential crossover joint, black	97 g	21.121.32.1
Tangential crossover joint, nickel plated	97 g	21.121.32.2

Single parts

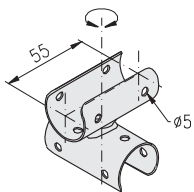
Description	Pcs.	Weight	Product No.
Tangential crossover connector	2	44 g	21.121.32A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

□
 black 1
 nickel plated / silver 2

Alternative

Connector nut M6, self-locking		2 g	21.99.61.A06S.□
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Bolted crossover connector

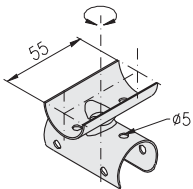


Description	Weight	Product No.
Bolted crossover connector, nickel plated	110 g	21.121.33A.2

Optional

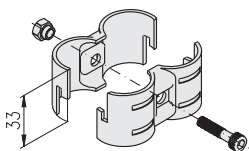
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132
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Bolted crossover connector, tangential



Description	Weight	Product No.
Bolted crossover connector, tangential, nickel plated	97 g	21.121.34A.2
Optional		
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

Parallel joint



Description	Weight	Product No.
Parallel joint, black	121 g	21.121.41.1
Parallel joint, nickel plated	121 g	21.121.41.2

Single parts

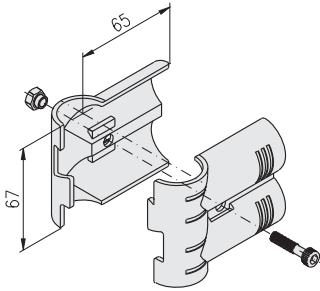
Description	Pcs.	Weight	Product No.
Parallel connector	2	56 g	21.121.41A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

Alternative

Connector nut M6, self-locking		2 g	21.99.61.A06S.□
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□
 black 1
 nickel plated / silver 2

Double standard joint



Description	Weight	Product No.
Double standard joint, black	289 g	21.121.42.1
Double standard joint, nickel plated	289 g	21.121.42.2

Single parts

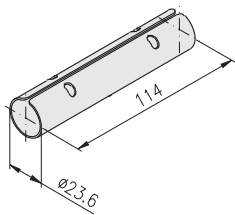
- black 1
- nickel plated / silver 2

Description	Pcs.	Weight	Product No.
Double standard connector	2	140 g	21.121.42A. <input type="checkbox"/>
Connector screw M6×25	1	7 g	0.63.0912.06025. <input type="checkbox"/>
Connector nut M6	1	2 g	21.99.61.A06. <input type="checkbox"/>

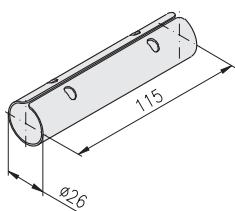
Alternative

Connector nut M6, self-locking		2 g	21.99.61.A06S. <input type="checkbox"/>
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Extensions for pipes

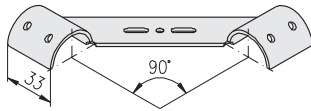
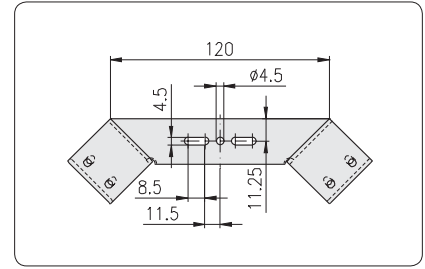


Description	Weight	Product No.
Extension for ABS coated pipes	46 g	21.121.51.2



Description	Weight	Product No.
Extension for stainless steel pipes	50 g	21.121.52.2

Corner support



Description

Corner support, nickel plated

Weight

106 g

Product No.

21.121.61.2

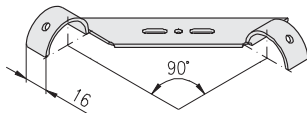
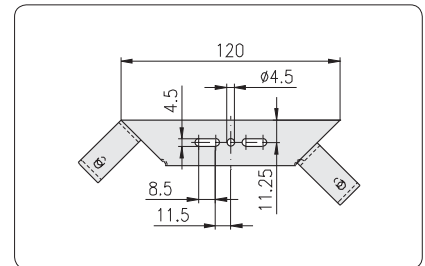
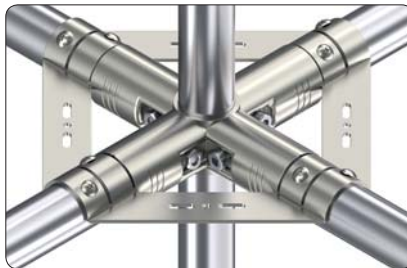
Optional

Self cutting screw M4.2×13, galvanised white steel

2 g

0.63.7504.4,2x132

type B



Description

Corner support, type B, nickel plated

Weight

71 g

Product No.

21.121.62.2

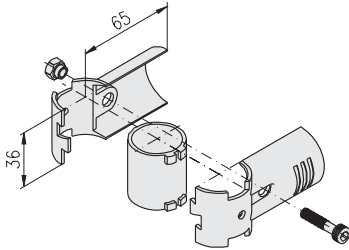
Optional

Self cutting screw M4.2×13, galvanised white steel

2 g

0.63.7504.4,2x132

90° sliding joint



Description	Pcs.	Weight	Product No.
90° sliding joint, black	1	143 g	21.121.71.1

Single parts

90° sliding connector, black	2	64 g	21.121.71A.1
Sliding sleeve, black	1	6 g	21.121.70A.01
Connector screw M6×25	1	7 g	0.63.0912.06025.1
Connector nut M6	1	2 g	21.99.61.A06.1

Alternative

Connector nut M6, self-locking		2 g	21.99.61.A06S.1
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Optional

Self cutting screw M4.2×13, black		2 g	0.63.7504.4,2x131
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Description	Pcs.	Weight	Product No.
90° sliding joint, nickel plated	1	143 g	21.121.71.2

Single parts

90° sliding connector, nickel plated	2	64 g	21.121.71A.2
Sliding sleeve, grey	1	6 g	21.121.70A.04
Connector screw M6×25	1	7 g	0.63.0912.06025.2
Connector nut M6	1	2 g	21.99.61.A06.2

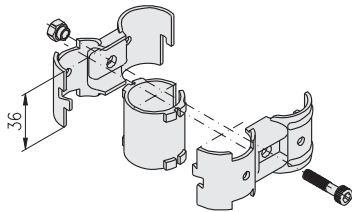
Alternative

Connector nut M6, self-locking		2 g	21.99.61.A06S.2
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Optional

Self cutting screw M4.2×13, galvanised white steel		2 g	0.63.7504.4,2x132
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Parallel sliding joint
single sided



Description	Pcs.	Weight	Product No.
Parallel sliding joint, single sided, black	1	141 g	21.121.72.1

Single parts

Parallel sliding connector, single sided, black	2	63 g	21.121.72A.1
Sliding sleeve, black	1	6 g	21.121.70A.01
Connector screw M6×25	1	7 g	0.63.0912.06025.1
Connector nut M6	1	2 g	21.99.61.A06.1

Alternative

Connector nut M6, self-locking		2 g	21.99.61.A06S.1
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Optional

Self cutting screw M4.2×13, black		2 g	0.63.7504.4,2x131
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Description	Pcs.	Weight	Product No.
Parallel sliding joint, single sided, nickel plated	1	141 g	21.121.72.2

Single parts

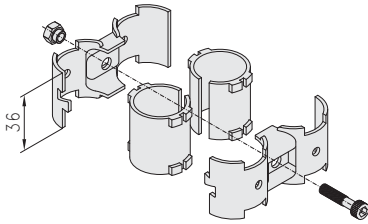
Parallel sliding connector, single sided, nickel plated	2	63 g	21.121.72A.2
Sliding sleeve, grey	1	6 g	21.121.70A.04
Connector screw M6×25	1	7 g	0.63.0912.06025.2
Connector nut M6	1	2 g	21.99.61.A06.2

Alternative

Connector nut M6, self-locking		2 g	21.99.61.A06S.2
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Optional

Self cutting screw M4.2×13, galvanised white steel		2 g	0.63.7504.4,2x132
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**Parallel sliding joint
double sided**


Description	Pcs.	Weight	Product No.
Parallel sliding joint, double sided, black	1	135 g	21.121.73.1

Single parts

Parallel sliding connector, double sided, black	2	57 g	21.121.73A.1
Sliding sleeve, black	2	6 g	21.121.70A.01
Connector screw M6×25	1	7 g	0.63.0912.06025.1
Connector nut M6	1	2 g	21.99.61.A06.1

Alternative

Connector nut M6, self-locking		2 g	21.99.61.A06S.1
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Optional

Self cutting screw M4.2×13, black		2 g	0.63.7504.4,2x131
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Description	Pcs.	Weight	Product No.
Parallel sliding joint, double sided, nickel plated	1	135 g	21.121.73.2

Single parts

Parallel sliding connector, double sided, nickel plated	2	57 g	21.121.73A.2
Sliding sleeve, grey	2	6 g	21.121.70A.04
Connector screw M6×25	1	7 g	0.63.0912.06025.2
Connector nut M6	1	2 g	21.99.61.A06.2

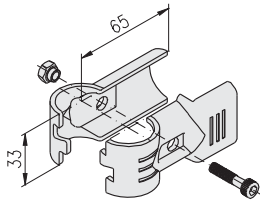
Alternative

Connector nut M6, self-locking		2 g	21.99.61.A06S.2
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Optional

Self cutting screw M4.2×13, galvanised white steel		2 g	0.63.7504.4,2x132
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Flat pipe joint



Description	Weight	Product No.
Flat pipe joint, black	149 g	21.121.81.1
Flat pipe joint, nickel plated	149 g	21.121.81.2

- black 1
- nickel plated / silver 2

Single parts

Description	Pcs.	Weight	Product No.
Flat pipe connector	1	70 g	21.121.81A. <input type="checkbox"/>
Standard connector 90°	1	70 g	21.121.01A. <input type="checkbox"/>
Connector screw M6×25	1	7 g	0.63.0912.06025. <input type="checkbox"/>
Connector nut M6	1	2 g	21.99.61.A06. <input type="checkbox"/>

Alternative

Connector nut M6, self-locking		2 g	21.99.61.A06S. <input type="checkbox"/>
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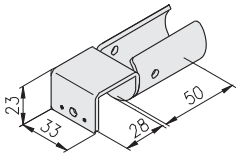
Optional

Self cutting screw M4.2×13		2 g	0.63.7504.4,2x13 <input type="checkbox"/>
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Slide pipe joint



Technical data
 material: steel
 surface: galvanised



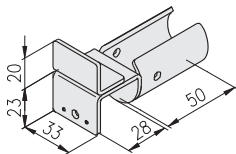
Description	Weight	Product No.
Slide pipe joint	115 g	21.121.91.2

Optional	Weight	Product No.
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

Slide pipe joint with stop



Technical data
 material: steel
 surface: galvanised



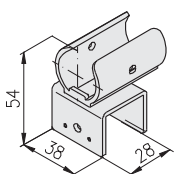
Description	Weight	Product No.
Slide pipe joint with stop	140 g	21.121.92.2

Optional	Weight	Product No.
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

Slide pipe joint union



Technical data
 material: steel
 surface: galvanised



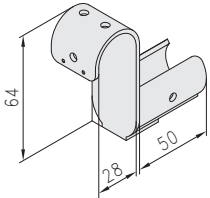
Description	Weight	Product No.
Slide pipe joint union	113 g	21.121.93.2

Optional	Weight	Product No.
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

Slide pipe joint with offset



Technical data
 material: steel
 surface: galvanised



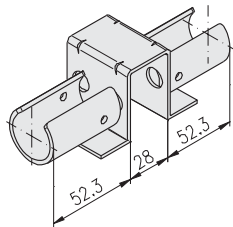
Description	Weight	Product No.
Slide pipe joint with offset	126 g	21.121.94.2

Optional	Weight	Product No.
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

Slide pipe bridge



Technical data
 material: steel
 surface: galvanised



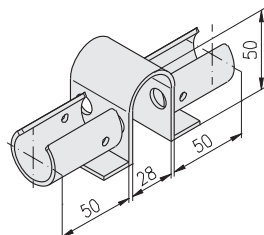
Description	Weight	Product No.
Slide pipe bridge	235 g	21.121.95.2

Optional	Weight	Product No.
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

Slide pipe bridge rounded



Technical data
 material: steel
 surface: galvanised



Description	Weight	Product No.
Slide pipe bridge, rounded	235 g	21.121.96.2

Optional	Weight	Product No.
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

21.13 Mounting accessories

Screw-on pipe clamps ↗ 37



flush

center

Pipe clamps ↗ 39



single sided

double sided

wide

Pipe clamps, pipe clips ↗ 40



Pipe clamps PE

Pipe clamps PE, type B

Pipe clips PE

Pipe quick lock

Pipe clip

Adaptors, links, joints ↗ 42



Profile adaptor

Profile adaptor 90°

Roller track link

Table top joint

Shock absorber ↗ 44



Shock absorber

Shock absorber clamp

21.14 Caps, plugs and threaded inserts

Caps, plugs ↗ 45



End caps

Cover caps

Rubber cap

Threaded inserts ↗ 47



for ABS coated pipes

for stainless steel pipes

21.15 Feet and castors

Slip on feet ↗ 48



round

square

flat

Threaded feet ↗ 49



with rubber pad

square

Castors ↗ 51



Fixed castors

Swivel castors

Swivel castors lockable

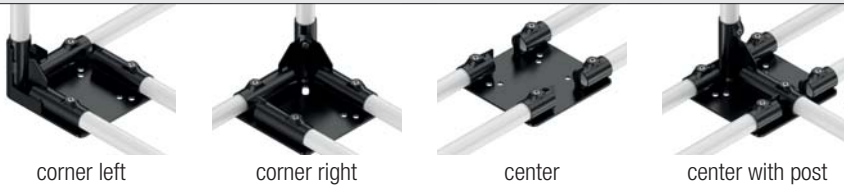
Clamping bushes

Break for castors

Castor mounting sets

21.15 Feet and castors

Footplates for pipes ↗ 56



corner left

corner right

center

center with post

Forklift guides ↗ 60



21.16 Roller tracks

Roller tracks 40 ↗ 61



low noise (In)

flach

low noise (In)

Roller tracks 40 with edge rollers ↗ 64



low noise (In)

Roller tracks 60 ↗ 65



flat

Roller tracks 85 ↗ 66



Guiding profiles ↗ 67



side, PE

side, with offset, PE extension clip

center, PE

center, Alu, for roller track supports

center, Alu, for slide pipe support

single side, steel, for all roller tracks

Roller track supports ↗ 70



40

60

85

overlapping joint ↗ 71



40 type B

60 type B

85 type B

Roller track supports with stop ↗ 72



40

60

85

overlapping joint ↗ 73



40 type B

60 type B

85 type B

Roller track supports with offset ↗ 74



40

60

85

overlapping joint ↗ 75

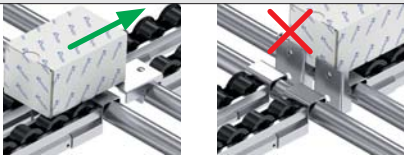


40 type B

60 type B

21.16 Roller tracks

Roller track supports with return stop ↗ 76



40, 60

Roller track extensions ↗ 79



40

60

85

Roller track supports for profiles ↗ 77



40

40 with stop

40 foldable

40 foldable, with stop

40 foldable, with offset

Roller track supports ↗ 80



40

60

85

40, type B

short, 40

short, 85

Roller track bridges ↗ 82



40

85

Adapter bridge 40

Roller track brakes ↗ 83



40

40, flat

for roller track 40 with edge rollers

21.17 Accessories

Pipe collars, sleeves ↗ 84



Plastic pipe collars

Sleeves

Bolted pipe collar

Labeling ↗ 84



Pipe hanger

Label holder

Label holder

Labeling ↗ 85



Label bar

Label clip

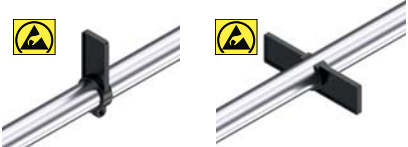





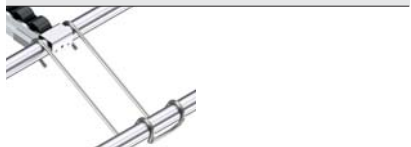


Label strip 32

Label strip 55

Sticker bar


new

21.17 Accessories

<p>Position retainer ↗ 88</p>  <p>double-sided single-sided</p>		<p>Roller fixture ↗ 89</p>  <p>single-sided double-sided</p>		<p>Bushings ↗ 90</p>  <p>Roller bushings Ball castors</p>	
<p>Tool and device holder ↗ 92</p>  <p>Tool holder Multiple tool holder new Device holder</p>			<p>Hooks ↗ 93</p>  <p>24 42 100</p>		
<p>Hooks ↗ 94</p>  <p>Ring hook Hang up hook Sliding hook Sliding hook, PA</p>				<p>Tilt rails ↗ 95</p> 	
<p>Profiles ↗ 96</p>  <p>L-profiles T-profiles U-profiles Pipe cover</p>					<p>Conduit ↗ 99</p>  <p>Cable duct new</p>

(1.85) Panel elements

Panel elements ↗ 100



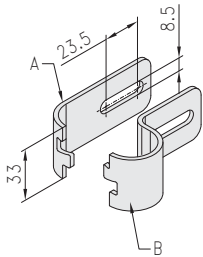
new

Corrugated plastic panels

21.99 Screws and nuts, tools

<p>Screws and nuts ↗ 101</p> 		<p>Tools ↗ 103</p>  <p>new new new</p> <p>Pipe cutter for ABS coated pipes Pipe cutter for stainless steel pipes Pipe deburrer Step drills for cross bushing</p>			
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Screw-on pipe clamp flush



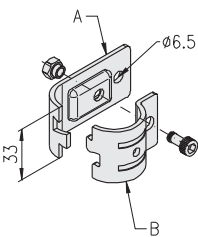
Description	Weight	Product No.
Screw-on pipe clamp, flush, black	117 g	21.13.00.1
Screw-on pipe clamp, flush, nickel plated	117 g	21.13.00.2

Single parts

Description	Pcs.	Weight	Product No.
Screw-on pipe clamp, flush, part A	1	53 g	21.13.00A.□
Screw-on pipe clamp, flush, part B	1	64 g	21.13.00B.□

- black 1
- nickel plated / silver 2

Screw-on pipe clamp



Description	Weight	Product No.
Screw-on pipe clamp, black	92 g	21.13.01.1
Screw-on pipe clamp, nickel plated	92 g	21.13.01.2

Single parts

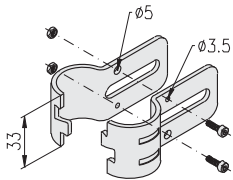
Description	Pcs.	Weight	Product No.
Screw-on pipe clamp, part A	1	43 g	21.13.01A.□
Screw-on pipe clamp, part B	1	43 g	21.13.01B.□
Connector screw M6×10	1	4 g	0.63.6912.06010.□
Connector nut	1	2 g	21.99.61.A06.□

- black 1
- nickel plated / silver 2

Optional

Self cutting screw M4.2×13	2 g	0.63.7504.4,2x13□
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Screw-on pipe clamp
center



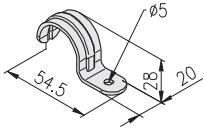
Description	Weight	Product No.
Screw-on pipe clamp, center, black	104 g	21.13.02.1
Screw-on pipe clamp, center, nickel plated	104 g	21.13.02.2

□
black 1
nickel plated / silver 2

Single parts

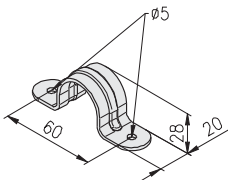
Description	Pcs.	Weight	Product No.
Screw-on pipe clamp, center, part A	2	50 g	21.13.02A.□
Cylindric head screw DIN EN ISO 4762, M3×10	2	1 g	0.63.4762.03010.□
Hexagonal nut DIN 934–M3	2	1 g	0.61.D00934.03.□

Single sided pipe clamp



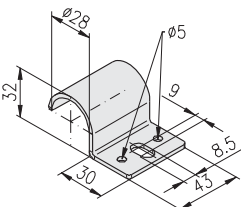
Description	Weight	Product No.
Single sided pipe clamp, nickel plated	22 g	21.13.03.2

Double sided pipe clamp



Description	Weight	Product No.
Double sided pipe clamp, nickel plated	23 g	21.13.04.2

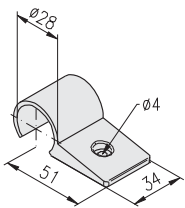
Pipe clamp wide



Description	Weight	Product No.
Pipe clamp, wide, nickel plated	77 g	21.13.05.2

Optional	Weight	Product No.
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

Pipe clamps PE



Description

Pipe clamp PE, black

Weight

14 g

Product No.

21.13.06.01

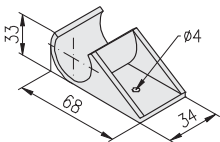


Pipe clamp PE, black, ESD

14 g

21.13.06.01E

Pipe clamps PE type B



Description

Pipe clamp PE, type B, black

Weight

16 g

Product No.

21.13.07.01

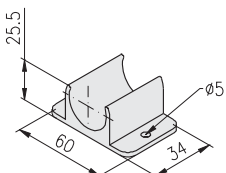


Pipe clamp PE, type B, black, ESD

16 g

21.13.07.01E

Pipe clips PE



Description

Pipe clip PE, black

Weight

13 g

Product No.

21.13.08.01

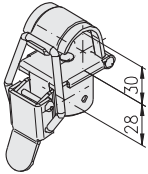


Pipe clip PE, black, ESD

13 g

21.13.08.01E

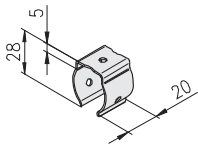
Pipe quick lock



Description	Weight	Product No.
Pipe quick lock, nickel plated	125 g	21.13.09.2

Optional	Weight	Product No.
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

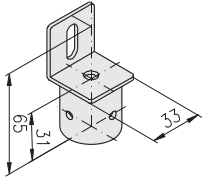
Pipe clip



Description	Weight	Product No.
Pipe clip, nickel plated	13 g	21.13.10.2

Optional	Weight	Product No.
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

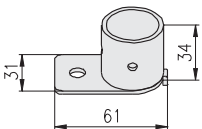
Profile adaptor



Description	Weight	Product No.
Profile adaptor, nickel plated	85 g	21.13.13.2

Optional	Weight	Product No.
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

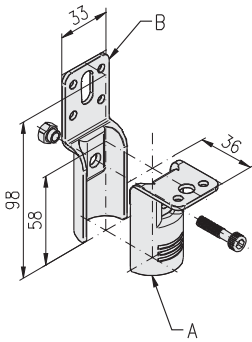
Profile adaptor 90°



Description	Weight	Product No.
Profile adaptor 90°, nickel plated	85 g	21.13.14.2

Optional	Weight	Product No.
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

Roller track link



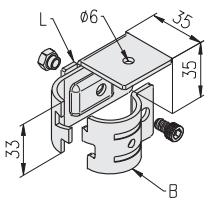
Description	Weight	Product No.
Roller track link, black	131 g	21.13.15.1
Roller track link, nickel plated	131 g	21.13.15.2

Single parts

black 1
 nickel plated / silver 2

Description	Pcs.	Weight	Product No.
Roller track link, part A	1	57 g	21.13.15A. <input type="checkbox"/>
Roller track link, part B	1	65 g	21.13.15B. <input type="checkbox"/>
Connector screw M6×25	3	7 g	0.63.0912.06025. <input type="checkbox"/>
Connector nut M6	3	2 g	21.99.61.A06. <input type="checkbox"/>

Table top joint

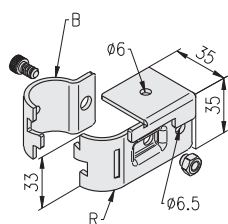


Description	Weight	Product No.
Table top joint, left, black	116 g	21.13.16L.1
Table top joint, left, nickel plated	116 g	21.13.16L.2

Single parts

black 1
 nickel plated / silver 2

Description	Pcs.	Weight	Product No.
Table top joint, clamp left	1	70 g	21.13.16A. <input type="checkbox"/>
Screw-on pipe clamp, part B	1	40 g	21.13.01B. <input type="checkbox"/>
Connector screw M6×10	1	4 g	0.63.6912.06010. <input type="checkbox"/>
Connector nut	1	2 g	21.99.61.A06. <input type="checkbox"/>



Description	Weight	Product No.
Table top joint, right, black	116 g	21.13.16R.1
Table top joint, right, nickel plated	116 g	21.13.16R.2

Single parts

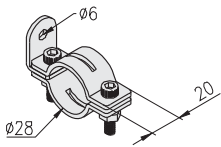
black 1
 nickel plated / silver 2

Description	Pcs.	Weight	Product No.
Table top joint, clamp right	1	70 g	21.13.16B. <input type="checkbox"/>
Screw-on pipe clamp, part B	1	40 g	21.13.01B. <input type="checkbox"/>
Connector screw M6×10	1	4 g	0.63.6912.06010. <input type="checkbox"/>
Connector nut	1	2 g	21.99.61.A06. <input type="checkbox"/>

Shock absorber

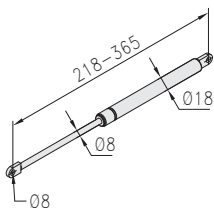


Shock absorber clamp



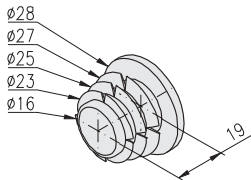
Description	Weight	Product No.
Shock absorber clamp, nickel plated	116 g	21.13.17.2
Optional		
Cylindric head screw, DIN 6912 - M6x12	5 g	0.63.D06912.06012
Connector nut, silver	2 g	21.99.61.A06.2

Shock absorber



Description	Weight	Product No.
Shock absorber	214 g	21.13.18

**End caps
for all pipes**

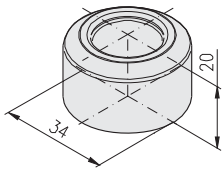


Description



Description	Weight	Product No.
End cap, PE, black	3 g	21.14.01.01
End cap, PE, black, ESD	3 g	21.14.01.01E
End cap, PE, ivory	3 g	21.14.01.03
End cap, PE, grey	3 g	21.14.01.04
End cap, chromed	3 g	21.14.01.CR

Cover caps

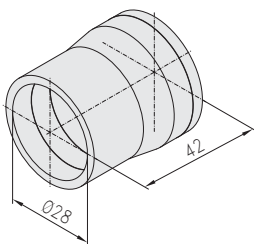


Description



Description	Weight	Product No.
Cover cap, PE, black	7 g	21.14.02.01
Cover cap, PE, black, ESD	7 g	21.14.02.01E
Cover cap, PE, ivory	7 g	21.14.02.03
Cover cap, PE, grey	7 g	21.14.02.04

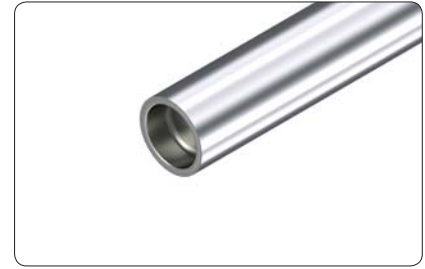
Rubber cap



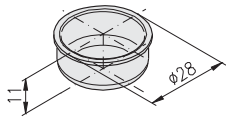
Description

Description	Weight	Product No.
Rubber cap, black	25 g	21.14.02.RUB

**End plugs
for ABS coated pipes**



Technical data
material: steel

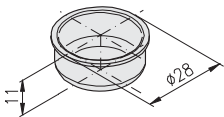


Description	wall thickness	Weight	Product No.
End plug for ABS coated pipes	0.7	7 g	21.14.03.07
End plug for ABS coated pipes	1.0	7 g	21.14.03.10

**End plugs
for stainless steel pipes**

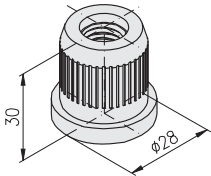


Technical data
material: steel



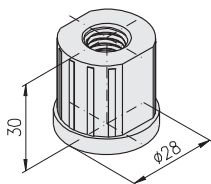
Description	wall thickness	Weight	Product No.
End plug for stainless steel pipes	0.7	7 g	21.14.04.07
End plug for stainless steel pipes	1.2	7 g	21.14.04.12

**Threaded inserts
for ABS coated pipes**



Description	wall thickness	Weight	Product No.
Threaded insert M12 for ABS coated pipes	0.7	83 g	21.14.05.07.1
Threaded insert 1/2" for ABS coated pipes	0.7	82 g	21.14.05.07.2
Threaded insert 5/8" for ABS coated pipes	0.7	68 g	21.14.05.07.3
Threaded insert M12 for ABS coated pipes	1.0	73 g	21.14.05.10.1
Threaded insert 1/2" for ABS coated pipes	1.0	73 g	21.14.05.10.2
Threaded insert 5/8" for ABS coated pipes	1.0	57 g	21.14.05.10.3
Threaded insert M12 for ABS coated pipes	2.0	64 g	21.14.05.20.1
Threaded insert 1/2" for ABS coated pipes	2.0	62 g	21.14.05.20.2
Threaded insert 5/8" for ABS coated pipes	2.0	46 g	21.14.05.20.3

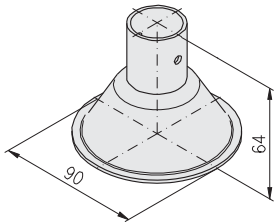
**Threaded inserts
for stainless steel pipes**



Description	wall thickness	Weight	Product No.
Threaded insert M12 for stainless steel pipes	0.7	99 g	21.14.06.07.1
Threaded insert 1/2" for stainless steel pipes	0.7	98 g	21.14.06.07.2
Threaded insert 5/8" for stainless steel pipes	0.7	75 g	21.14.06.07.3
Threaded insert M12 for stainless steel pipes	1.2	85 g	21.14.06.12.1
Threaded insert 1/2" for stainless steel pipes	1.2	80 g	21.14.06.12.2
Threaded insert 5/8" for stainless steel pipes	1.2	71 g	21.14.06.12.3

Slip on feet

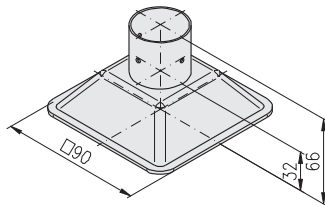
round



Description	Weight	Product No.
Slip on foot, round	250 g	21.15.01.2

Optional	Weight	Product No.
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

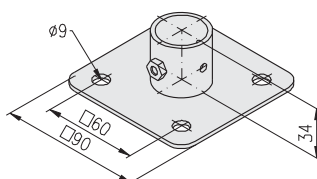
square



Description	Weight	Product No.
Slip on foot, square	295 g	21.15.02.2

Optional	Weight	Product No.
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

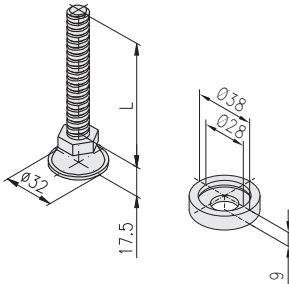
flat



Description	Weight	Product No.
Slip on foot, flat	195 g	21.15.03.2

Optional	Weight	Product No.
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

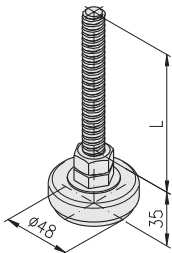
Threaded feet



Technical data

material: steel, galvanised

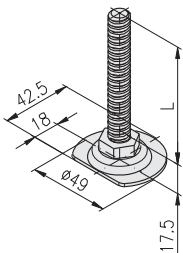
Description	G × L	Weight	Product No.
Threaded foot 32	M12 × 50	75 g	21.15.04.032050.1
Threaded foot 32	M12 × 82	95 g	21.15.04.032082.1
Rubber pad for threaded foot 32		8 g	21.15.04.032PAD



Technical data

material: stainless steel

Description	G × L	Weight	Product No.
Threaded foot 48	M12 × 100	190 g	21.15.04.048100.1

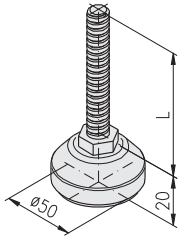


Technical data

material: steel, galvanised

Description	G × L	Weight	Product No.
Threaded foot 49	M12 × 50	92 g	21.15.04.049050.1
Threaded foot 49	M12 × 82	115 g	21.15.04.049082.1

Threaded feet with rubber pad

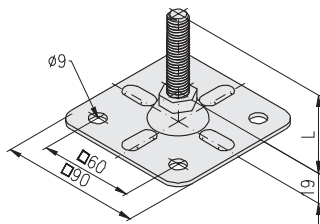


Technical data

material: steel, galvanised

Description	G × L	Weight	Product No.
Threaded foot 50 with rubber pad	M12 × 50	150 g	21.15.04.050050.1
Threaded foot 50 with rubber pad	M12 × 82	172 g	21.15.04.050082.1

Threaded foot square



Technical data

material: steel, galvanised

Description	G × L	Weight	Product No.
Threaded foot, square	M12 × 50	200 g	21.15.04.090050.1

Castors



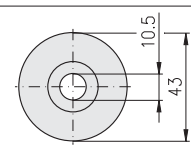
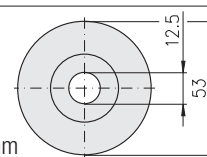
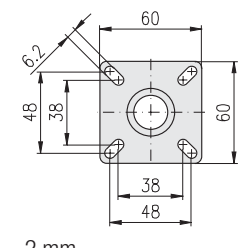
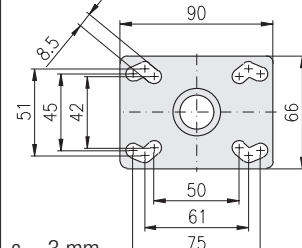
Fixed castor



Swivel castor



Swivel castor lockable

Variations		
Castor-Ø	50 mm / 75 mm	100 mm / 125 mm
Bolt hole type	 s = 7 mm	 s = 10.5 mm
Fitting plate type	 s = 2 mm	 s = 3 mm

Fixed castors



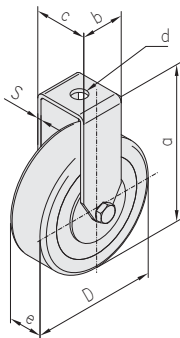
Technical data





material:

- capsule: sheet steel, galvanised
- wheels: solid rubber tyres, grey

Ø75/100/125 incl. thread protection

max. static load: F_{max}



Description	D	a	Weight	Product No.
Fixed castor with bolt hole	Ø50	69	130 g	1.45.11050
Fixed castor with bolt hole	Ø75	98	240 g	1.45.11075
 Fixed castor with bolt hole, ESD	Ø75	98	240 g	1.45.11075E
Fixed castor with bolt hole	Ø100	133	500 g	1.45.11100
 Fixed castor with bolt hole, ESD	Ø100	133	500 g	1.45.11100E
Fixed castor with bolt hole	Ø125	158	900 g	1.45.11125
Fixed castor with fitting plate	Ø50	71	190 g	1.45.12050
Fixed castor with fitting plate	Ø75	100	300 g	1.45.12075
 Fixed castor with fitting plate, ESD	Ø75	100	300 g	1.45.12075E
Fixed castor with fitting plate	Ø100	136	610 g	1.45.12100
 Fixed castor with fitting plate, ESD	Ø100	136	610 g	1.45.12100E
Fixed castor with fitting plate	Ø125	161	1,010 g	1.45.12125

Dimensions see table on the right

Swivel castors



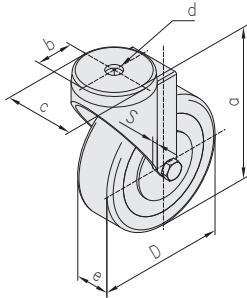
Technical data





material:

- capsule: sheet steel, galvanised
- wheels: solid rubber tyres, grey

Ø75/100/125 incl. thread protection

max. static load: F_{max}



Description	D	a	Weight	Product No.
Swivel castor with bolt hole	Ø50	69	180 g	1.45.21050
Swivel castor with bolt hole	Ø75	98	310 g	1.45.21075
 Swivel castor with bolt hole, ESD	Ø75	98	310 g	1.45.21075E
Swivel castor with bolt hole	Ø100	133	680 g	1.45.21100
 Swivel castor with bolt hole, ESD	Ø100	133	680 g	1.45.21100E
Swivel castor with bolt hole	Ø125	158	890 g	1.45.21125
Swivel castor with fitting plate	Ø50	71	230 g	1.45.22050
Swivel castor with fitting plate	Ø75	100	360 g	1.45.22075
 Swivel castor with fitting plate, ESD	Ø75	100	360 g	1.45.22075E
Swivel castor with fitting plate	Ø100	136	780 g	1.45.22100
 Swivel castor with fitting plate, ESD	Ø100	136	780 g	1.45.22100E
Swivel castor with fitting plate	Ø125	161	990 g	1.45.22125

Dimensions see table below

Swivel castors lockable



Technical data

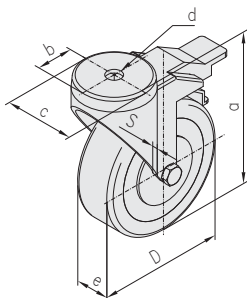
material:





- capsule: sheet steel, galvanised
- wheels: solid rubber tyres, grey

stop fix: - wheel break
- swivel break

Ø75/100/125 incl. thread protection

max. static load: F_{max}



Description	D	a	Weight	Product No.
Swivel castor, lockable with bolt hole	Ø50	69	220 g	1.45.31050
Swivel castor, lockable with bolt hole	Ø75	98	450 g	1.45.31075
 Swivel castor, lockable with bolt hole, ESD	Ø75	98	450 g	1.45.31075E
Swivel castor, lockable with bolt hole	Ø100	133	840 g	1.45.31100
 Swivel castor, lockable with bolt hole, ESD	Ø100	133	840 g	1.45.31100E
Swivel castor, lockable with bolt hole	Ø125	158	990 g	1.45.31125
Swivel castor, lockable with fitting plate	Ø50	71	270 g	1.45.32050
Swivel castor, lockable with fitting plate	Ø75	100	500 g	1.45.32075
 Swivel castor, lockable with fitting plate, ESD	Ø75	100	500 g	1.45.32075E
Swivel castor, lockable with fitting plate	Ø100	136	940 g	1.45.32100
 Swivel castor, lockable with fitting plate, ESD	Ø100	136	940 g	1.45.32100E
Swivel castor, lockable with fitting plate	Ø125	161	1,090 g	1.45.32125

Castors: Design bolt hole

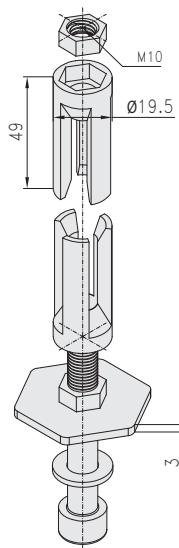
D	Fixed castor			Swivel castor			d	e	F_{max}
	b	c	s	b	c	s			
Ø50	30	27	2.0	25	Ø43	10.5	Ø10.5	18	400 N
Ø75	34	27	2.0	30.5	Ø43	10.5	Ø10.5	25	550 N
Ø100	57	43	2.5	43	Ø57	10.5	Ø12.5	32	800 N
Ø125	57	43	2.5	43	Ø57	10.5	Ø12.5	32	1,000 N

Clamping bush

Application
For mounting of castors



Plastic



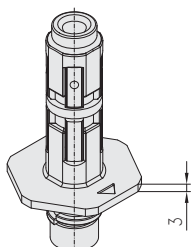
Technical data

material:
clamping bush, base: PA
screw, nut: steel, galvanised

Description	Weight	Product No.
Clamping bush, PA	80 g	21.15.10.1

new

Steel



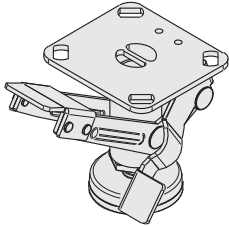
Technical data

material:
clamping bush, base: steel
screw, nut: steel, galvanised

Description	Weight	Product No.
Clamping bush, steel	135 g	21.15.10.2

new

Break
for use with castor

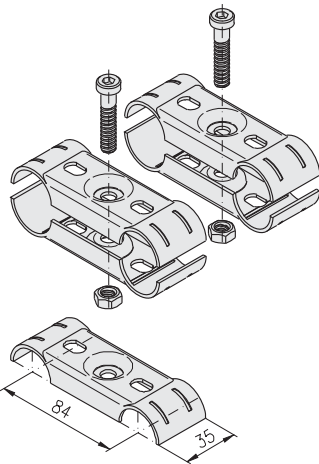


Description	D	Weight	Product No.
Break for castors	Ø100	1,150 g	21.15.18.100
Break for castors	Ø125	1,195 g	21.15.18.125
Break for castors	Ø150	2,455 g	21.15.18.150

**Castor mounting sets
for castors with mounting plates**

Technical data

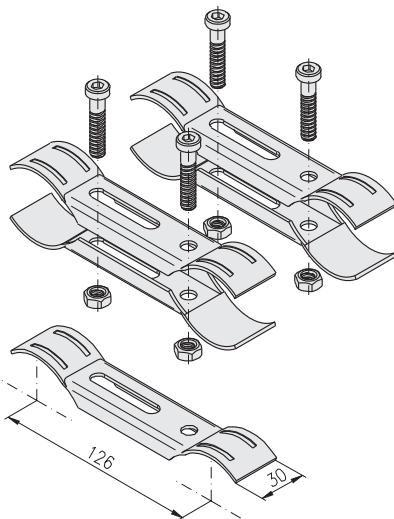
material: steel, galvanised



Description	Weight	Product No.
Castor mounting set 84	486 g	21.15.19.01

Single parts

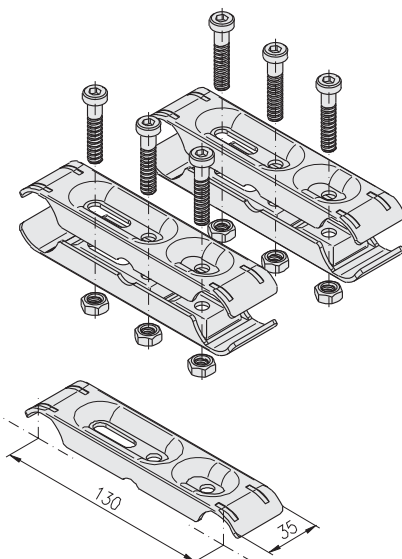
Description	Pcs.	Weight	Product No.
Castor mounting 84	4	111 g	21.15.19.01A
Cylindric head screw DIN 6912, M8×40	2	17 g	0.63.D06912.08040
Hexagonal nut DIN 934–M8	2	4 g	0.61.D00934.08



Description	Weight	Product No.
Castor mounting set 126	548 g	21.15.19.02

Single parts

Description	Pcs.	Weight	Product No.
Castor mounting 126	4	116 g	21.15.19.02A
Cylindric head screw DIN 6912, M8×40	4	17 g	0.63.D06912.08040
Hexagonal nut DIN 934–M8	4	4 g	0.61.D00934.08

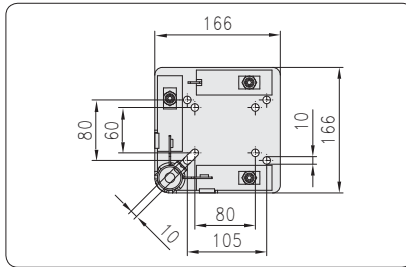
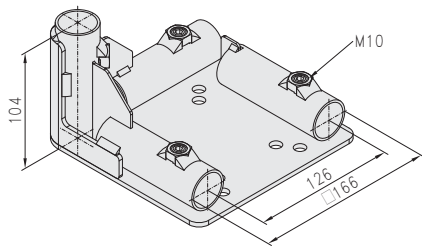


Description	Weight	Product No.
Castor mounting set 130	726 g	21.15.19.03

Single parts

Description	Pcs.	Weight	Product No.
Castor mounting 130	4	150 g	21.15.19.03A
Cylindric head screw DIN 6912, M8×40	6	17 g	0.63.D06912.08040
Hexagonal nut DIN 934–M8	6	4 g	0.61.D00934.08

Footplates for pipes
corner left



Technical data
material: steel, black

Description	Weight	Product No.
Footplate, corner left	1,873 g	21.15.20.L



Fastening elements

Description	Weight	Product No.
Set screw M10×12, with cupped gripping point, black 4 pcs. per footplate required	4.0 g	0.63.D0916.10012.1

new

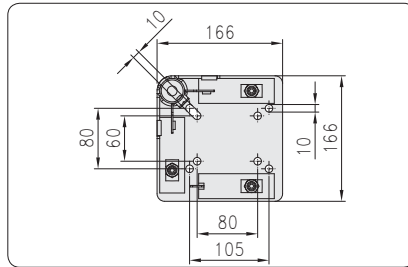
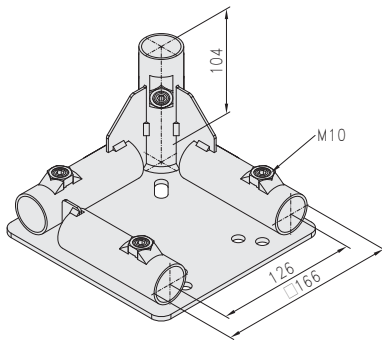
Description	Weight	Product No.
Mounting set for castors 4 sets per castor required	16.8 g	30.15.S1

new

Single parts of the mounting set

Description	Pcs.	Weight	Product No.
Socket head cap screw DIN 6912, M8×20	1	10.0 g	0.63.D06912.08020
Washer DIN 433 - 8.4	1	1.3 g	0.62.D00433.08,4
Self locking washers, M8	1	1.5 g	0.62.D2520108
Hexagonal nut DIN 934 - M8	1	4.0 g	0.61.D00934.08

Footplates for pipes
corner right



Technical data
material: steel, black

Description	Weight	Product No.
Footplate, corner right	1,873 g	21.15.20.R



Fastening elements

Description	Weight	Product No.
Set screw M10×12, with cupped gripping point, black 4 pcs. per footplate required	4.0 g	0.63.D06912.10012.1

new

Description	Weight	Product No.
Mounting set for castors 4 sets per castor required	16.8 g	30.15.S1

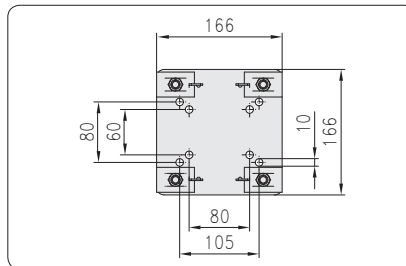
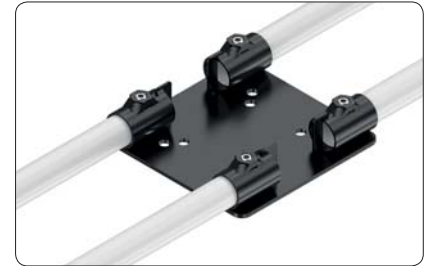
new

Single parts of the mounting set

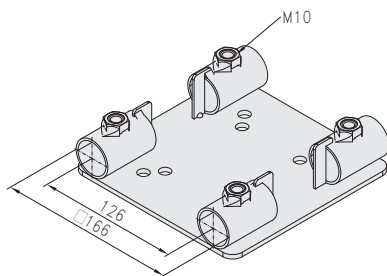
Description	Pcs.	Weight	Product No.
Socket head cap screw DIN 6912, M8×20	1	10.0 g	0.63.D06912.08020
Washer DIN 433 - 8.4	1	1.3 g	0.62.D00433.08,4
Self locking washers, M8	1	1.5 g	0.62.D2520108
Hexagonal nut DIN 934 - M8	1	4.0 g	0.61.D00934.08



Footplates for pipes center



Technical data
material: steel, black



Description	Weight	Product No.
Footplate, center	1,305 g	21.15.20.MH



Fastening elements

Description	Weight	Product No.
Set screw M10×12, with cupped gripping point, black 4 pcs. per footplate required	4.0 g	0.63.0916.10012.1

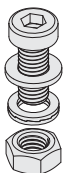
new

Description	Weight	Product No.
Mounting set for castors 4 sets per castor required	16.8 g	30.15.S1

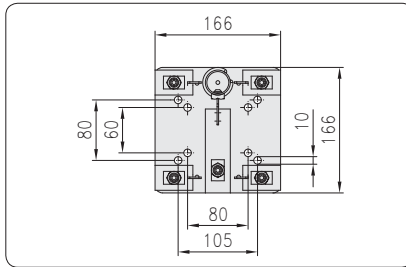
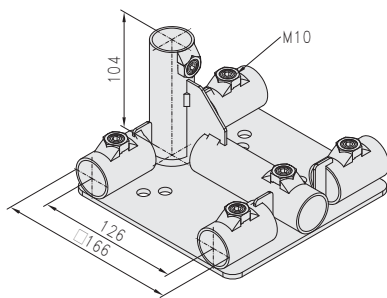
new

Single parts of the mounting set

Description	Pcs.	Weight	Product No.
Socket head cap screw DIN 6912, M8×20	1	10.0 g	0.63.D06912.08020
Washer DIN 433 - 8.4	1	1.3 g	0.62.D00433.08,4
Self locking washers, M8	1	1.5 g	0.62.D2520108
Hexagonal nut DIN 934 - M8	1	4.0 g	0.61.D00934.08



Footplates for pipes
center with post



Technical data
material: steel, black

Description	Weight	Product No.
Footplate, center with post	1,766 g	21.15.20.MHV



Fastening elements

Description	Weight	Product No.
Set screw M10×12, with cupped gripping point, black 6 pcs. per footplate required	4.0 g	0.63.0916.10012.1

new

Description	Weight	Product No.
Mounting set for castors 4 sets per castor required	16.8 g	30.15.S1

new

Single parts of the mounting set

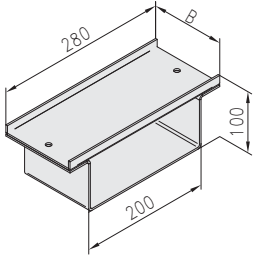
Description	Pcs.	Weight	Product No.
Socket head cap screw DIN 6912, M8×20	1	10.0 g	0.63.D06912.08020
Washer DIN 433 - 8.4	1	1.3 g	0.62.D00433.08,4
Self locking washers, M8	1	1.5 g	0.62.D2520108
Hexagonal nut DIN 934 - M8	1	4.0 g	0.61.D00934.08



Forklift guides



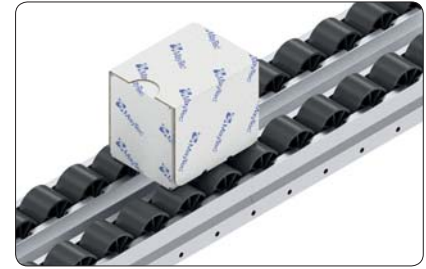
Technical data
material: steel



Description	B	Surface	Weight	Product No.
Forklift guide	120	black	1.900 g	21.15.30.01.1
Forklift guide	120	silver galvanised	1.900 g	21.15.30.01.2
Forklift guide	160	black	2.500 g	21.15.30.02.1
Forklift guide	160	silver galvanised	2.500 g	21.15.30.02.2

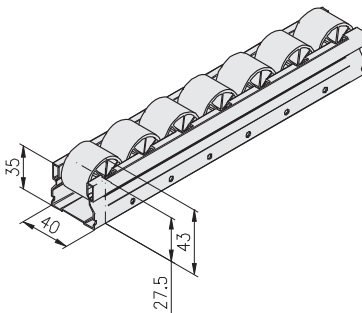
Roller type	Width			
	40	40 low noise	60	85
Standard	 ↪ 62	 ↪ 62	 ↪ 65	 ↪ 66
		 ↪ 62		
ESD	 ↪ 62	 ↪ 62	 ↪ 65	
Flat	 ↪ 63		 ↪ 65	
	 ↪ 63		 ↪ 65	
Edge roller	 ↪ 64	 ↪ 64		
	 ↪ 64	 ↪ 64		

Roller tracks 40



Technical data

roller-Ø:	31 mm
shaft-Ø:	4 mm
roller distance:	36 mm
height:	43 mm
length:	4 m
load capacity:	150 kg
material:	steel galvanised / Polyethylen

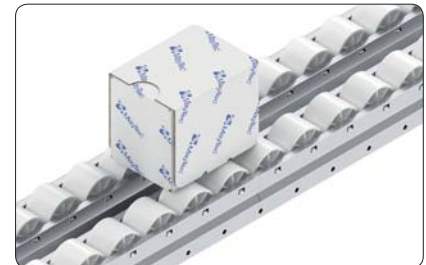


Description	Colour of roller		Weight	Product No.
Roller track 40	white	length 4 m	4.8 kg	21.16.1.040.11.2.40
Roller track 40	white	cut to length	1.2 kg/m	21.16.1.040.11.2/...
Roller track 40	grey	length 4 m	4.8 kg	21.16.1.040.11.5.40
Roller track 40	grey	cut to length	1.2 kg/m	21.16.1.040.11.5/...
Roller track 40, ESD	black	length 4 m	5.0 kg	21.16.1.040.11.1E.40
Roller track 40, ESD	black	cut to length	1.25 kg/m	21.16.1.040.11.1E/...

/... = length in mm

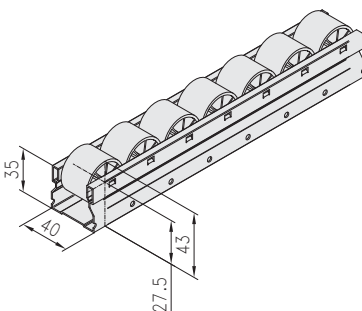


Roller tracks 40
low noise (In)



Technical data

roller-Ø:	31 mm
shaft-Ø:	4 mm
roller distance:	36 mm
height:	43 mm
length:	4 m
load capacity:	150 kg
material:	steel galvanised / Polyethylen

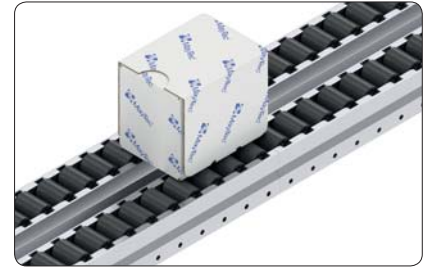


Description	Colour of roller		Weight	Product No.
Roller track 40 In	white	length 4 m	4.8 kg	21.16.1.040.12.2.40
Roller track 40 In	white	cut to length	1.2 kg/m	21.16.1.040.12.2/...
Roller track 40 In	grey	length 4 m	4.8 kg	21.16.1.040.12.5.40
Roller track 40 In	grey	cut to length	1.2 kg/m	21.16.1.040.12.5/...
Roller track 40 In, ESD	black	length 4 m	5.0 kg	21.16.1.040.12.1E.40
Roller track 40 In, ESD	black	cut to length	1.25 kg/m	21.16.1.040.12.1E/...

/... = length in mm

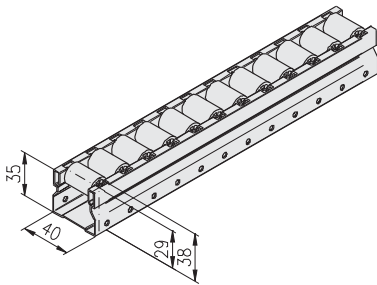


Roller tracks 40
flat



Technical data

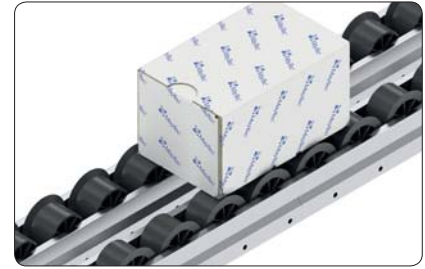
roller-Ø:	18 mm
shaft-Ø:	4 mm
roller distance:	22 mm
height:	38 mm
length:	4 m
load capacity:	150 kg
material:	steel galvanised / Polyethylen



Description	Colour of roller	Weight	Product No.
Roller track 40 flat	white	length 4 m	21.16.1.040.21.2.40
Roller track 40 flat	white	cut to length	21.16.1.040.21.2/...
Roller track 40 flat, ESD	black	length 4 m	21.16.1.040.21.1E.40
Roller track 40 flat, ESD	black	cut to length	21.16.1.040.21.1E/...

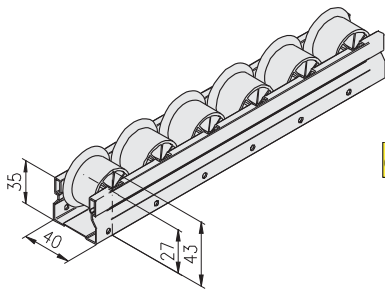
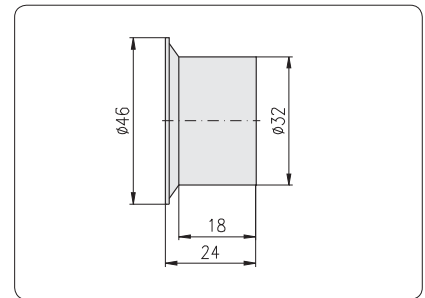
/... = length in mm

Roller tracks 40 with edge rollers



Technical data

roller-Ø: 32 mm
 shaft-Ø: 4 mm
 roller distance: 48.5 mm
 height: 43 mm
 length: 4 m
 load capacity: 150 kg
 material: steel galvanised / Polyethylen



Description	Colour	Weight	Product No.
Roller track 40 with edge rollers	white length 4 m	4.5 kg	21.16.1.040.31.2.40
Roller track 40 with edge rollers	white cut to length	1.125 kg/m	21.16.1.040.31.2/...
Roller track 40 with edge rollers, ESD	black length 4 m	4.6 kg	21.16.1.040.31.1E.40
Roller track 40 with edge rollers, ESD	black cut to length	1.15 kg/m	21.16.1.040.31.1E/...

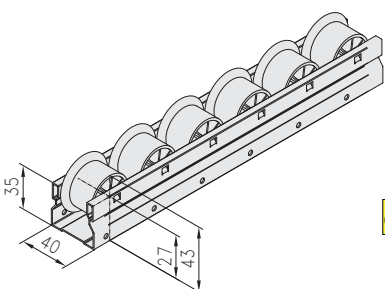
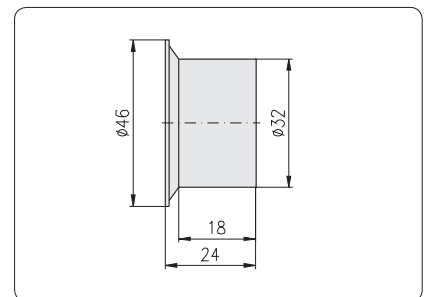
/... = length in mm

Roller tracks 40 with edge rollers low noise (In)



Technical data

roller-Ø: 32 mm
 shaft-Ø: 4 mm
 roller distance: 48.5 mm
 height: 43 mm
 length: 4 m
 load capacity: 150 kg
 material: steel galvanised / Polyethylen



Description	Colour	Weight	Product No.
Roller track 40 with edge rollers In	white length 4 m	4.5 kg	21.16.1.040.32.2.40
Roller track 40 with edge rollers In	white cut to length	1.125 kg/m	21.16.1.040.32.2/...
Roller track 40 with edge rollers In, ESD	black length 4 m	4.6 kg	21.16.1.040.32.1E.40
Roller track 40 with edge rollers In, ESD	black cut to length	1.15 kg/m	21.16.1.040.32.1E/...

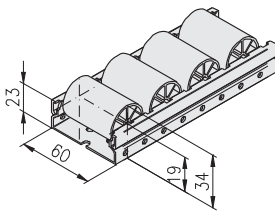
/... = length in mm

Roller tracks 60



Technical data

roller-Ø: 30 mm
 shaft-Ø: 4 mm
 roller distance: 37 mm
 height: 34 mm
 length: 4 m
 load capacity: kg
 material: steel galvanised / Polyethylen



Description	Colour of roller	Weight	Product No.
Roller track 60	white	length 4 m	21.16.1.060.11.2.40
Roller track 60	white	cut to length	21.16.1.060.11.2/...
Roller track 60, ESD	black	length 4 m	21.16.1.060.11.1E.40
Roller track 60, ESD	black	cut to length	21.16.1.060.11.1E/...



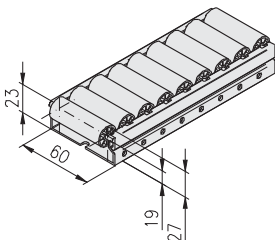
/... = length in mm

Roller tracks 60 flat



Technical data

roller-Ø: 16 mm
 shaft-Ø: 4 mm
 roller distance: 18.5 mm
 height: 27 mm
 length: 4 m
 load capacity: kg
 material: steel galvanised / Polyethylen



Description	Colour of roller	Weight	Product No.
Roller track 60 flat	white	length 4 m	21.16.1.060.21.2.40
Roller track 60 flat	white	cut to length	21.16.1.060.21.2/...
Roller track 60 flat, ESD	black	length 4 m	21.16.1.060.21.1E.40
Roller track 60 flat, ESD	black	cut to length	21.16.1.060.21.1E/...



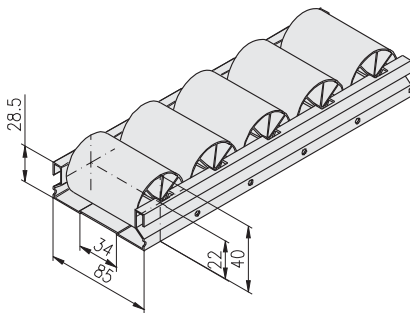
/... = length in mm

Roller track 85



Technical data

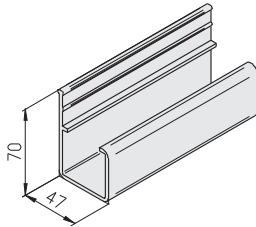
roller-Ø:	36 mm
shaft-Ø:	5 mm
roller distance:	40 mm
height:	40 mm
length:	4 m
load capacity:	300 kg
material:	steel galvanised / Polyethylen



Description	Colour of roller		Weight	Product No.
Roller track 85	white	length 4 m	9.6 kg	21.16.1.085.11.2.40
Roller track 85	white	cut to length	2.4 kg/m	21.16.1.085.11.2/...

/... = length in mm

Side guiding profile



- 40
- 40 F
- 60
- 60 F
- 85

Technical data

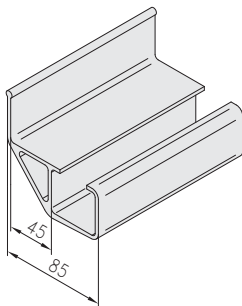
material: PE, ivory
bar length: 3 m

Description

Description	Weight	Product No.
Side guiding profile, ivory length 3 m	2.0 kg	21.16.2.100.03.30
Side guiding profile, ivory cut to length	0.67 kg/m	21.16.2.100.03/...

/... = length in mm

Side guiding profile with offset



- 40
- 40 F
- 60
- 60 F
- 85

Technical data

material: PE
colours: white, grey
bar length: 2 m / 4 m

Description

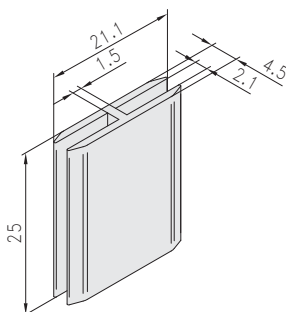
Description	Weight	Product No.
Side guiding profile with offset, white length 2 m	1.68 kg	21.16.2.111.02.20
Side guiding profile with offset, white length 4 m	3.36 kg	21.16.2.111.02.40
Side guiding profile with offset, white cut to length	0.84 kg/m	21.16.2.111.02/...
Side guiding profile with offset, grey length 2 m	1.68 kg	21.16.2.111.05.20
Side guiding profile with offset, grey length 4 m	3.36 kg	21.16.2.111.05.40
Side guiding profile with offset, grey cut to length	0.84 kg/m	21.16.2.111.05/...

/... = length in mm

new

Extension clip

for side guiding profile with offset



Technical data

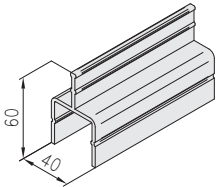
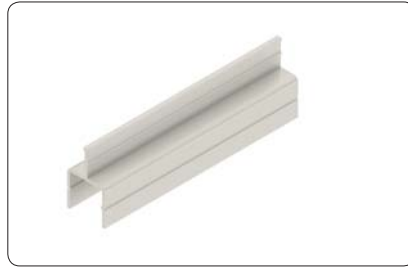
material: PVC, impact resistant
colour: white

Description

Description	Weight	Product No.
Extension clip for side guiding profile with offset	30 g	21.16.2.111.C02

new

Center guiding profile



- 40
- 40 F
- 60
- 60 F
- 85

Technical data

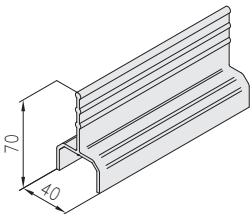
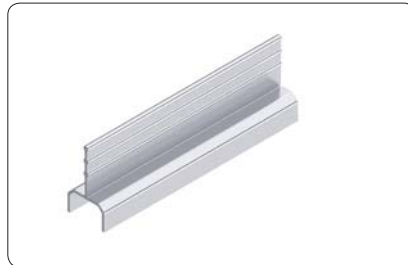
material: PE
bar length: 3 m

Description

Description	Weight	Product No.
Center guiding profile length 3 m	2.1 kg	21.16.2.02.03.30
Center guiding profile cut to length	0.7 kg/m	21.16.2.02.03/...

/... = length in mm

Center guiding profile
Alu, for roller track supports



- 40
- 40 F
- 60
- 60 F
- 85

Technical data

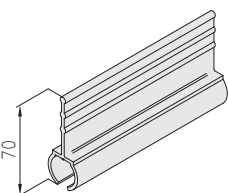
material: Aluminium
bar length: 2 m / 4 m

Description

Description	Weight	Product No.
Center guiding profile, for roller track supports length 2 m	1.8 kg	21.16.2.201.AL.20
Center guiding profile, for roller track supports length 4 m	3.6 kg	21.16.2.201.AL.40
Center guiding profile, for roller track supports cut to length	0.9 kg/m	21.16.2.201.AL/...

/... = length in mm

Center guiding profile
Alu, for slide pipe support



- 40
- 40 F
- 60
- 60 F
- 85

Technical data

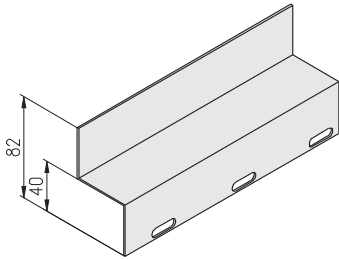
material: Aluminium
bar length: 2 m / 4 m

Description

Description	Weight	Product No.
Center guiding profile, for slide pipe support length 2 m	1.7 kg	21.16.2.202.AL.20
Center guiding profile, for slide pipe support length 4 m	3.4 kg	21.16.2.202.AL.40
Center guiding profile, for slide pipe support cut to length	0.8 kg/m	21.16.2.202.AL/...

/... = length in mm

Single side guiding profiles
for all roller tracks




- 40
- 40 F
- 60
- 60 F
- 85

Technical data

material: steel,
- ivory
- black powder-coated ESD
bar length: 1.5 m

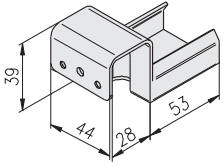
Description

Description	Weight	Product No.
Single side guiding profile, steel, ivory	length 3 m 1.35 kg	21.16.2.112.03.20
Single side guiding profile, steel, ivory	cut to length 0.9 kg/m	21.16.2.112.03/...
 Single side guiding profile, steel black, ESD	length 1.5 m 1.35 kg	21.16.2.112.05E.20
Single side guiding profile, steel black, EDS	cut to length 0.9 kg/m	21.16.2.112.05E/...

/... = length in mm

Roller track supports

40



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 40

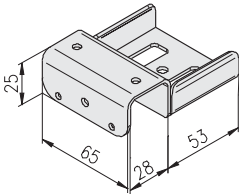
Weight

129 g

Product No.

21.16.3.10F.040

60



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 60

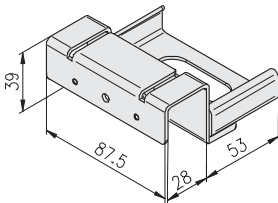
Weight

193 g

Product No.

21.16.3.10F.060

85



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 85

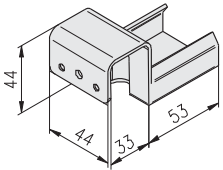
Weight

250 g

Product No.

21.16.3.10F.085

Roller track supports overlapping joint 40 type B



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 40, type B

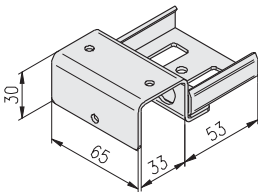
Weight

150 g

Product No.

21.16.3.11F.040

60 type B



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 60, type B

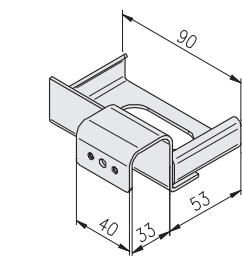
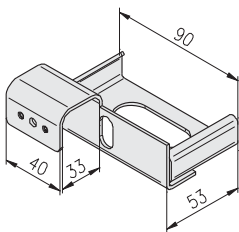
Weight

178 g

Product No.

21.16.3.11F.060

85 type B



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 85, type B, left

Weight

212 g

Product No.

21.16.3.11F.085L

Description

Roller track support 85, type B, right

Weight

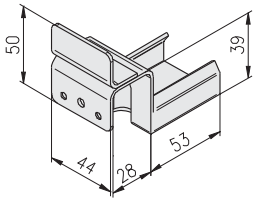
212 g

Product No.

21.16.3.11F.085R

Roller track supports with stop

40



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 40 with stop

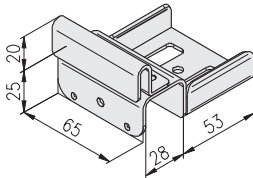
Weight

160 g

Product No.

21.16.3.20F.040

60



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 60 with stop

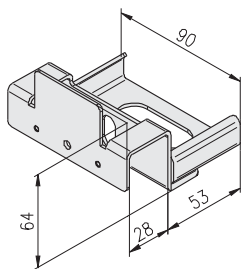
Weight

205 g

Product No.

21.16.3.20F.060

85



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 85 with stop

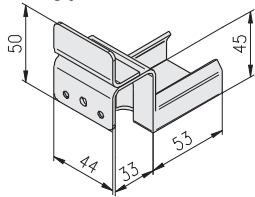
Weight

249 g

Product No.

21.16.3.20F.085

Roller track supports with stop overlapping joint 40 type B



Technical data

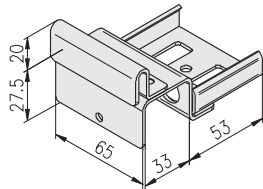
material: steel galvanised

Optional

self cutting screw M4,2×13, galvanised white steel 0.63.7504.4,2x132

Description	Weight	Product No.
Roller track support 40 with stop, type B	180 g	21.16.3.21F.040

60 type B



Technical data

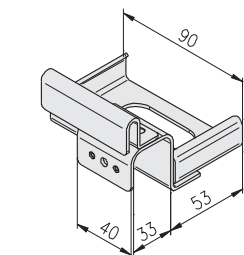
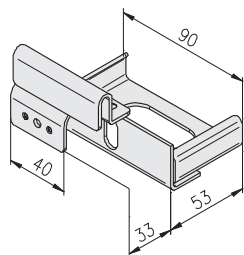
material: steel galvanised

Optional

self cutting screw M4,2×13, galvanised white steel 0.63.7504.4,2x132

Description	Weight	Product No.
Roller track support 60 with stop, type B	232 g	21.16.3.21F.060

85 type B



Technical data

material: steel galvanised

Optional

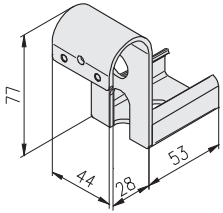
self cutting screw M4,2×13, galvanised white steel 0.63.7504.4,2x132

Description	Weight	Product No.
Roller track support 85 with stop, type B, left	265 g	21.16.3.21F.085L

Description	Weight	Product No.
Roller track support 85 with stop, type B, right	265 g	21.16.3.21F.085R

Roller track supports with offset

40



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 40 round, with offset

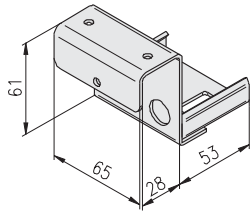
Weight

148 g

Product No.

21.16.3.30R.040

60



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 60 with offset

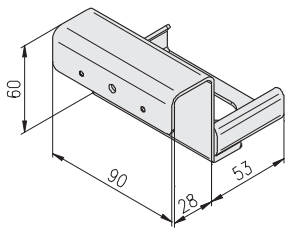
Weight

209 g

Product No.

21.16.3.30F.060

85



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 85 with offset

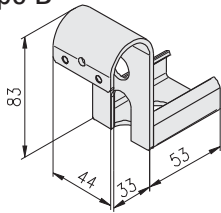
Weight

291 g

Product No.

21.16.3.30F.085

**Roller track supports
with offset
overlapping joint
40 type B**



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 40 round, with offset, type B

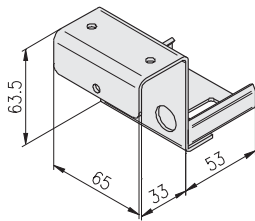
Weight

170 g

Product No.

21.16.3.31R.040

60 type B



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 60 with offset, type B

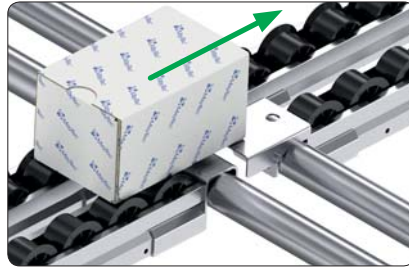
Weight

218 g

Product No.

21.16.3.31F.060

Roller track supports with return stop



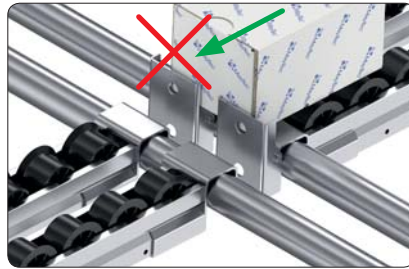
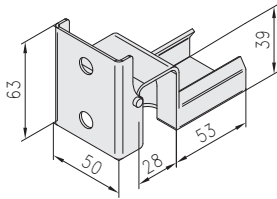
Technical data

material: steel galvanised

Optional

self cutting screw M4,2x13,
galvanised white steel 0.63.7504.4,2x132

40



- 40
- 40 F
- 60
- 60 F
- 85

Description

Roller track support 40 with return stop

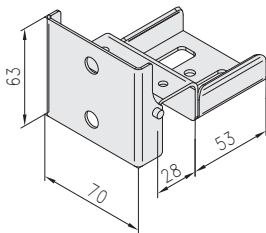
Weight

193 g

Product No.

21.16.3.32F.040

60



- 40
- 40 F
- 60
- 60 F
- 85

Description

Roller track support 60 with return stop

Weight

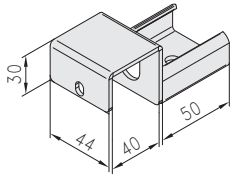
230 g

Product No.

21.16.3.32F.060

Roller track supports for profiles

40

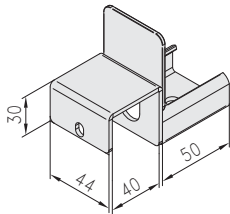


Technical data

material: steel galvanised

Description	Weight	Product No.
Roller track support 40 for profiles	110 g	21.16.3.P10.040

40 with stop

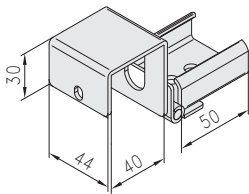


Technical data

material: steel galvanised

Description	Weight	Product No.
Roller track support 40 for profiles with stop	150 g	21.16.3.P20.040

40 foldable

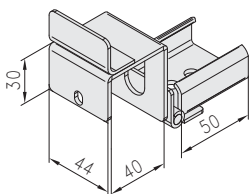


Technical data

material: steel galvanised

Description	Weight	Product No.
Roller track support 40 for profiles, foldable	215 g	21.16.3.P30.040

40 foldable, with stop

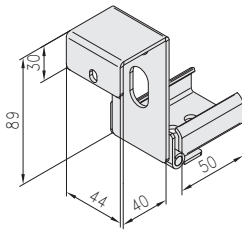


Technical data

material: steel galvanised

Description	Weight	Product No.
Roller track support 40 for profiles, foldable, with stop	247 g	21.16.3.P40.040

40 foldable, with offset



Technical data

material: steel galvanised

- 40
- 40 F
- 60
- 60 F
- 85

Description

Roller track support 40 for profiles, foldable, with offset

Weight

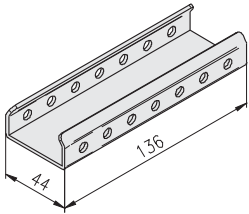
234 g

Product No.

21.16.3.P50.040

Roller track extensions

40



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

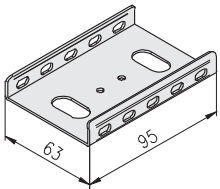
material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description	Weight	Product No.
Roller track extension 40	129 g	21.16.3.4.040

60



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

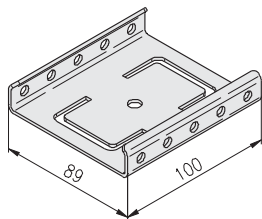
material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description	Weight	Product No.
Roller track extension 60	93 g	21.16.3.4.060

85



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

material: steel galvanised

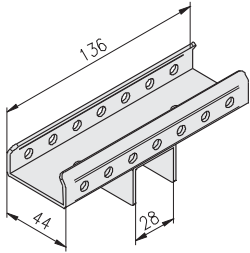
Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description	Weight	Product No.
Roller track extension 85	206 g	21.16.3.4.085

Roller track supports

40



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 40

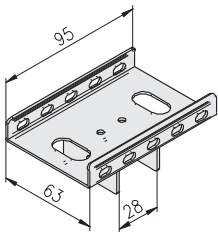
Weight

179 g

Product No.

21.16.3.50F.040

60



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 60

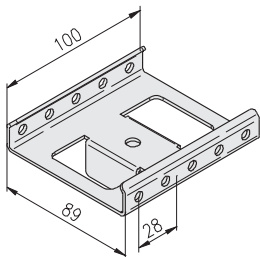
Weight

147 g

Product No.

21.16.3.50F.060

85



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 85

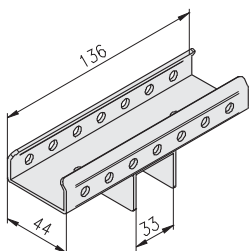
Weight

205 g

Product No.

21.16.3.50F.085

Roller track supports 40, type B



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track support 40, type B

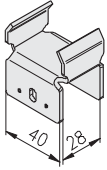
Weight

182 g

Product No.

21.16.3.51F.040

Roller track supports, short
40



- 40
- 40 F
- 60
- 60 F
- 85

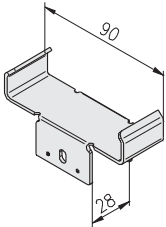


Technical data
material: steel galvanised

Optional
self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description	Weight	Product No.
Roller track support 40, short	73 g	21.16.3.60F.040

85



- 40
- 40 F
- 60
- 60 F
- 85



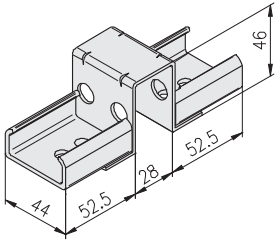
Technical data
material: steel galvanised

Optional
self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description	Weight	Product No.
Roller track support 85, short	96 g	21.16.3.60F.085

Roller track bridges

40



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track bridge 40

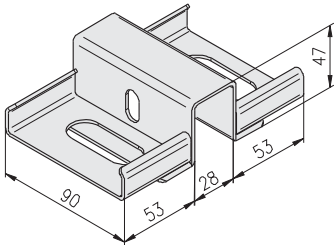
Weight

248 g

Product No.

21.16.3.70F.040

85



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Roller track bridge 85

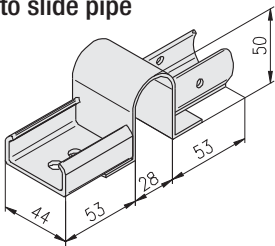
Weight

297 g

Product No.

21.16.3.70F.085

**Adapter bridge 40
for conversion from roller track
to slide pipe**



- 40
- 40 F
- 60
- 60 F
- 85



Technical data

material: steel galvanised

Optional

self cutting screw M4,2×13,
galvanised white steel 0.63.7504.4,2x132

Description

Adapter bridge 40

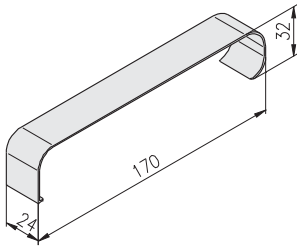
Weight

240 g

Product No.

21.16.3.80F.040

Roller track brakes



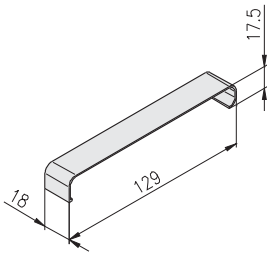
- 40
- 40 F
- 60
- 60 F
- 85



Technical data

material: steel galvanised

Description	Weight	Product No.
Roller track brake 40	40 g	21.16.4.01



- 40
- 40 F
- 60
- 60 F
- 85

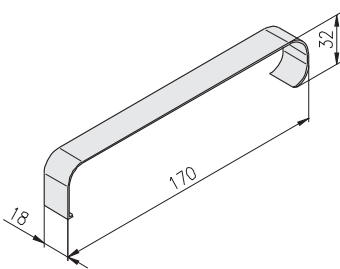


Technical data

material: steel galvanised

Description	Weight	Product No.
Roller track brake 40 flat	26 g	21.16.4.02

Roller track brake for roller track 40 with edge rollers

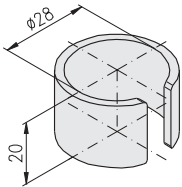


Technical data

material: steel galvanised

Description	Weight	Product No.
Roller track brake for roller track 40 with edge rollers	35 g	21.16.4.03

Plastic pipe collars



Technical data

material: PE

Description

Plastic pipe collar, black

Weight

5 g

Product No.

21.17.01.01.01

Plastic pipe collar, black, ESD

5 g

21.17.01.01.01E

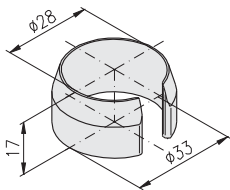


Sleeves



Technical data

material: PE



Description

Sleeve, black

Weight

4 g

Product No.

21.17.01.02.01

Sleeve, black, ESD

4 g

21.17.01.02.01E

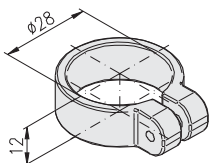


Bolted pipe collars



Technical data

material: PE



Description

Bolted pipe collar, black

Weight

4 g

Product No.

21.17.01.03.01

Pipe hanger

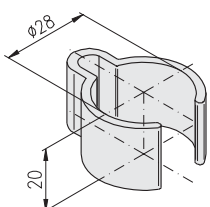


Application

for label holder

Technical data

material: PE



Description

Pipe hanger, black

Weight

6 g

Product No.

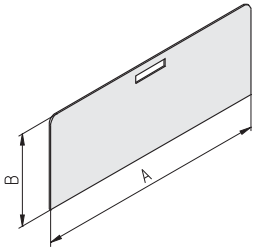
21.17.01.04.01

Label holder

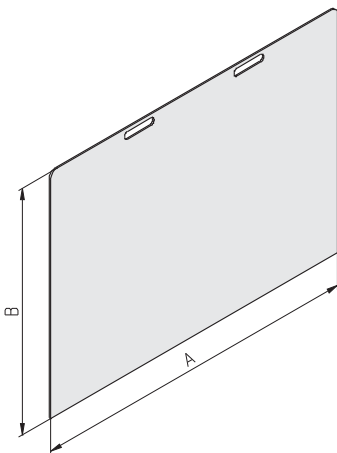


Technical data

material: plastic, transparent



Description	A × B	Weight	Product No.
Label holder	80 × 120	13 g	21.17.02.080120
Label holder	150 × 60	13 g	21.17.02.150060



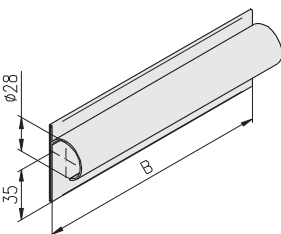
Description	A × B	Weight	Product No.
Label holder	215 × 160	45 g	21.17.02.215160
Label holder	300 × 120	47 g	21.17.02.300120
Label holder	300 × 220	90 g	21.17.02.300220
Label holder	430 × 310	174 g	21.17.02.430310

Label bar



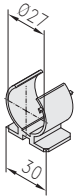
Technical data

material: plastic, transparent



Description	B	Weight	Product No.
Label bar	100	17 g	21.17.03.0100
Label bar	150	26 g	21.17.03.0150
Label bar	250	43 g	21.17.03.0250
Label bar	1,000	172 g	21.17.03.1000

Label clip

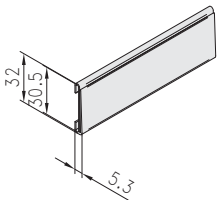


Technical data

material: PVC, transparent

Description	Weight	Product No.
Label clip	7 g	21.17.03.2.00

Label strip 32



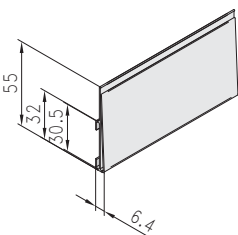
Technical data

material: PVC, transparent
length: 2 m

Description	Weight	Product No.	
Label strip 32	length 2 m	126 g	21.17.03.2.32.20
Label strip 32	cut to length	63 g/m	21.17.03.2.32/...

/... = length in mm

Label strip 55



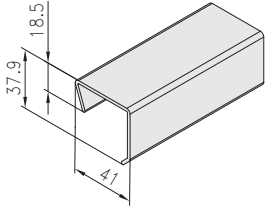
Technical data

material: PVC, transparent
length: 2 m

Description	Weight	Product No.	
Label strip 55	length 2 m	164 g	21.17.03.2.55.20
Label strip 55	cut to length	82 g/m	21.17.03.2.55/...

/... = length in mm

Sticker bar



Technical data
 material: PVC, grey
 length: 4 m

Description		Weight	Product No.
Sticker bar	length 4 m	1,240 g	21.17.03.3.05.40
Sticker bar	cut to length	310 g/m	21.17.03.3.05/...

/... = length in mm

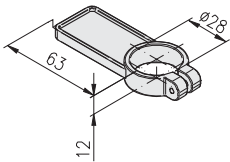
new

Position retainer



Technical data

material: PE



Description

Position retainer 63, black

Weight

11 g

Product No.

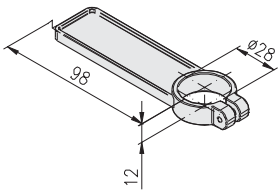
21.17.04.063.01



Position retainer 63, black, ESD

11 g

21.17.04.063.01E



Description

Position retainer 98, black

Weight

16 g

Product No.

21.17.04.098.01



Position retainer 98, black, ESD

16 g

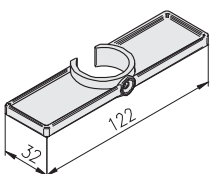
21.17.04.098.01E

Double-sided position retainer



Technical data

material: PE



Description

Double-sided position retainer, black

Weight

15 g

Product No.

21.17.04.122.01

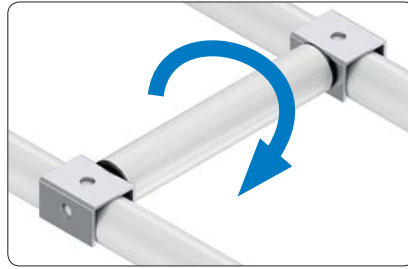
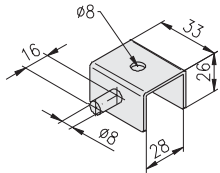


Double-sided position retainer, black, ESD

15 g

21.17.04.122.01E

**Roller fixture
single-sided**

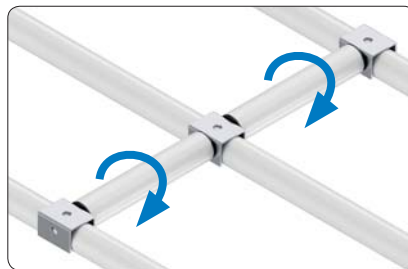
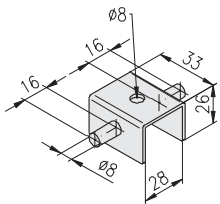


Technical data

material: steel, galvanised

Description	Weight	Product No.
Roller fixture, single-sided	48 g	21.17.05.01

double-sided

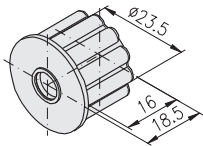



Description	Weight	Product No.
Roller fixture, double-sided	59 g	21.17.05.02

Roller bushings
for ABS coated pipes
 with a wall thickness of 1.0 mm

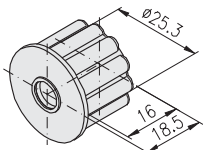



Technical data
 material: PE



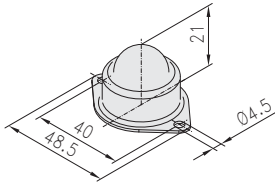
Description	Weight	Product No.
Roller bushing for ABS coated pipes, 1.0 mm, black	9 g	21.17.05.03.01
 Roller bushing for ABS coated pipes, 1.0 mm, black, ESD	9 g	21.17.05.03.01E

for stainless steel pipe
 with a wall thickness of 1.2 mm



Description	Weight	Product No.
Roller bushing for stainless steel pipe, 1.2 mm, black	9 g	21.17.05.04.01
 Roller bushing for stainless steel pipe, 1.2 mm, black, ESD	9 g	21.17.05.04.01E

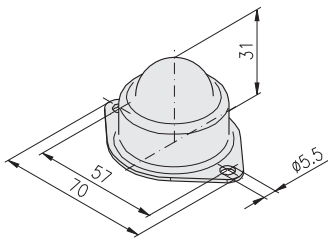
Ball castors
21



Technical data
material: steel

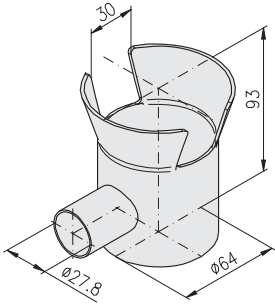
Description	Weight	Product No.
Ball castor 21	45 g	21.17.06.021

31



Description	Weight	Product No.
Ball castor 31	141 g	21.17.06.031

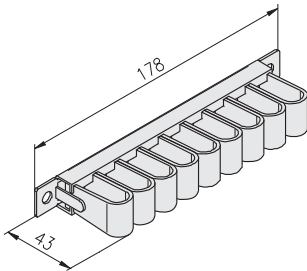
Tool holder



Technical data
material: steel, black

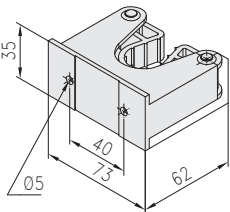
Description	Weight	Product No.
Tool holder	221 g	21.17.08.01

**Multiple tool holder
for up to 8 tools**



Description	Weight	Product No.
Multiple tool holder	115 g	21.17.08.02

Device holder



Application
Device and tool holder for
stick Ø20-30 mm

Technical data
material:
case: PE
rubber band: EPDM

Description	Weight	Product No.
Device holder	37 g	21.17.08.03

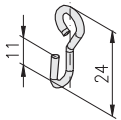
new

**Hook
24**



Technical data

material: steel, powder coated



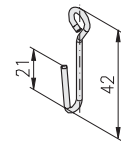
Description	Weight	Product No.
Hook 24	1 g	21.17.09.01

42



Technical data

material: steel, powder coated



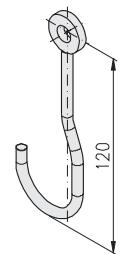
Description	Weight	Product No.
Hook 42	2 g	21.17.09.02

100



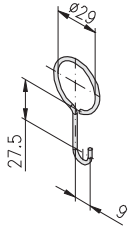
Technical data

material: steel, nickel plated



Description	Weight	Product No.
Hook 100	47 g	21.17.09.03

Ring hook

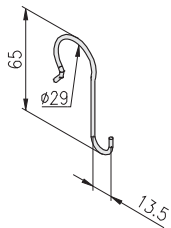


Technical data

material: steel, nickel plated

Description	Weight	Product No.
Ring hook	6 g	21.17.09.04

Hang up hook

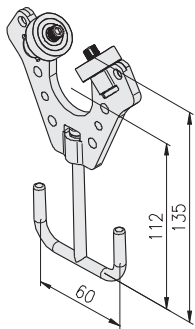


Technical data

material: steel, nickel plated

Description	Weight	Product No.
Hang up hook	5 g	21.17.09.05

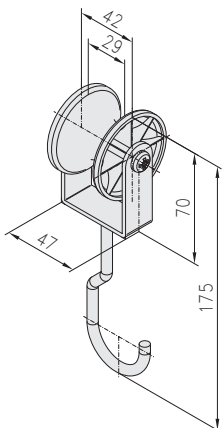
Sliding hooks



Technical data

material: steel, nickel plated

Description	Weight	Product No.
Sliding hook	210 g	21.17.09.06



Technical data

material:

roller: PA

hook: steel, nickel plated

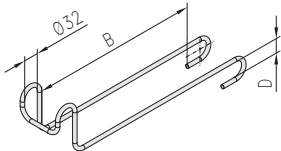
Description	Weight	Product No.
Sliding hook, PA	130 g	21.17.09.07

Tilt rails



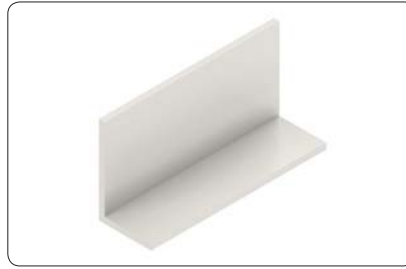
Technical data

material: steel, nickel plated

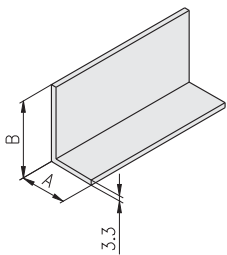








Description	B	D	Weight	Product No.
Tilt rail	200	32	186 g	21.17.10.200
Tilt rail	250	32	209 g	21.17.10.250
Tilt rail	300	32	231 g	21.17.10.300
Tilt rail	400	30	278 g	21.17.10.400

L-profiles
3.3



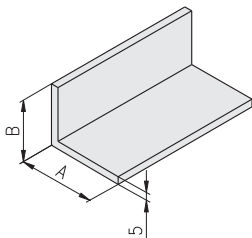
Technical data
material: PE













Description	A × B		Weight	Product No.
L-profile	30×50×3.3	length 3 m	1.1 kg	21.17.11.030050.30
L-profile	30×50×3.3	cut to length	0.37 kg/m	21.17.11.030050/...
L-profile	50×90×3.3	length 3 m	2.6 kg	21.17.11.050090.30
L-profile	50×90×3.3	cut to length	0.87 kg/m	21.17.11.050090/...
L-profile	80×90×3.3	length 3 m	2.3 kg	21.17.11.080090.30
L-profile	80×90×3.3	cut to length	0.77 kg/m	21.17.11.080090/...
 L-profile	30×50×3.3, ESD	length 3 m	1.2 kg	21.17.11.030050E.30
 L-profile	30×50×3.3, ESD	cut to length	0.40 kg/m	21.17.11.030050E/...
 L-profile	50×90×3.3, ESD	length 3 m	2.7 kg	21.17.11.050090E.30
 L-profile	50×90×3.3, ESD	cut to length	0.90 kg/m	21.17.11.050090E/...
 L-profile	80×90×3.3, ESD	length 3 m	2.4 kg	21.17.11.080090E.30
 L-profile	80×90×3.3, ESD	cut to length	0.80 kg/m	21.17.11.080090E/...

/... = length in mm

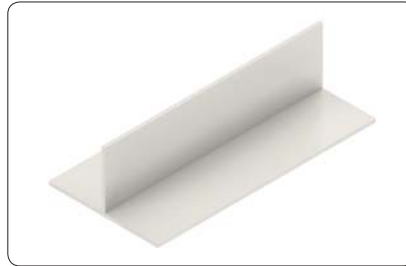
5



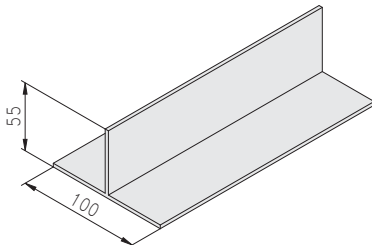
Description	A × B		Weight	Product No.
L-profile	50×40×5	length 3 m	1.8 kg	21.17.12.050040.30
L-profile	50×40×5	cut to length	0.60 kg/m	21.17.12.050040/...
L-profile	50×50×5	length 3 m	1.8 kg	21.17.12.050050.30
L-profile	50×50×5	cut to length	0.60 kg/m	21.17.12.050050/...
L-profile	50×75×5	length 3 m	2.2 kg	21.17.12.050075.30
L-profile	50×75×5	cut to length	0.73 kg/m	21.17.12.050075/...
L-profile	50×100×5	length 3 m	2.9 kg	21.17.12.050100.30
L-profile	50×100×5	cut to length	0.97 kg/m	21.17.12.050100/...
L-profile	50×150×5	length 3 m	4.0 kg	21.17.12.050150.30
L-profile	50×150×5	cut to length	1.33 kg/m	21.17.12.050150/...
 L-profile	50×40×5, ESD	length 3 m	1.9 kg	21.17.12.050040E.30
 L-profile	50×40×5, ESD	cut to length	0.63 kg/m	21.17.12.050040E/...
 L-profile	50×50×5, ESD	length 3 m	1.9 kg	21.17.12.050050E.30
 L-profile	50×50×5, ESD	cut to length	0.63 kg/m	21.17.12.050050E/...
 L-profile	50×75×5, ESD	length 3 m	2.3 kg	21.17.12.050075E.30
 L-profile	50×75×5, ESD	cut to length	0.77 kg/m	21.17.12.050075E/...
 L-profile	50×100×5, ESD	length 3 m	3.0 kg	21.17.12.050100E.30
 L-profile	50×100×5, ESD	cut to length	1.00 kg/m	21.17.12.050100E/...
 L-profile	50×150×5, ESD	length 3 m	4.1 kg	21.17.12.050150E.30
 L-profile	50×150×5, ESD	cut to length	1.37 kg/m	21.17.12.050150E/...



/... = length in mm

T-profiles



Technical data
material: PE



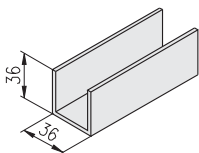
Description		Weight	Product No.
T-profile 100×55×4	length 3 m	2.6 kg	21.17.13.100055.30
T-profile 100×55×4	cut to length	0.87 kg/m	21.17.13.100055/...
 T-profile 100×55×4, ESD	length 3 m	2.7 kg	21.17.13.100055E.30
 T-profile 100×55×4, ESD	cut to length	0.90 kg/m	21.17.13.100055E.40/...



/... = length in mm

U-profiles



Technical data
material: PE



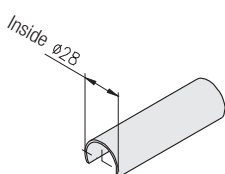
Description		Weight	Product No.
U-profile 36×36×4	length 3 m	1.1 kg	21.17.14.036036.30
U-profile 36×36×4	cut to length	0.37 kg/m	21.17.14.036036/...
 U-profile 36×36×4, ESD	length 3 m	1.2 kg	21.17.14.036036E.30
 U-profile 36×36×4, ESD	cut to length	0.40 kg/m	21.17.14.036036E/...



/... = length in mm

Pipe cover



Technical data
material: PE



Description		Weight	Product No.
Pipe cover	length 3 m	2.0 kg	21.17.15.036036.30
Pipe cover	cut to length	0.67 kg/m	21.17.15.036036/...
 Pipe cover, ESD	length 3 m	2.1 kg	21.17.15.036036E.30
 Pipe cover, ESD	cut to length	0.70 kg/m	21.17.15.036036E/...

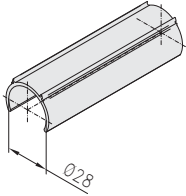
/... = length in mm

Cable duct



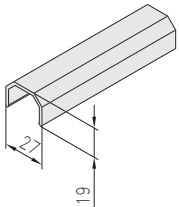
Technical data

material: PE



Description		Weight	Product No.
Cable duct base	length 3 m	0.9 kg	21.17.16.01.30
Cable duct base	cut to length	0.3 kg/m	21.17.16.01/...

/... = length in mm



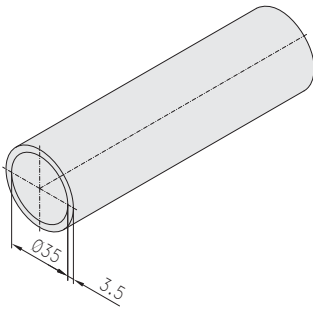
Description		Weight	Product No.
Cable duct cover	length 3 m	0.6 kg	21.17.16.02.30
Cable duct cover	cut to length	0.2 kg/m	21.17.16.02/...

/... = length in mm

Conduit



Technical data
 material: PE
 colour: grey

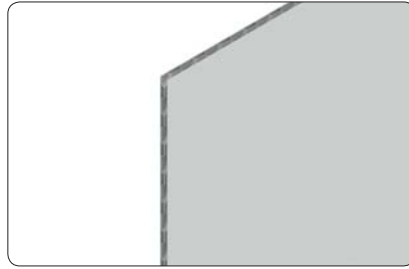
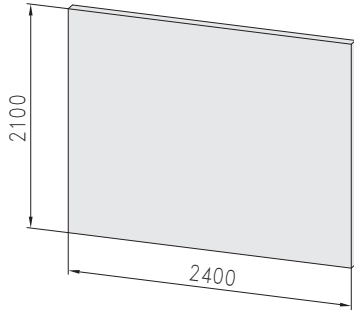


Description		Weight	Product No.
Conduit	length 2 m	0.76 kg	21.17.17.05.20
Conduit	cut to length	0.38 kg/m	21.17.17.05/...

/... = length in mm

new

Corrugated plastic panels



Technical data

material: PP
 colour: grey, black

Description	S	Colour	Weight	Product No.
Corrugated plastic panel	5	grey	1.0 kg/m ²	1.85.1.050.00
Corrugated plastic panel, ESD	5	black	1.0 kg/m ²	1.85.1.050E.00
Corrugated plastic panel	10	grey	2.5 kg/m ²	1.85.1.100.00

new

Screws and nuts

for joints


Description	Weight	Product No.
Connector screw M6×10, black	4 g	0.63.6912.06010.1
Connector screw M6×10, galvanised white steel	4 g	0.63.6912.06010.2
Connector screw M6×25, black	7 g	0.63.6912.06025.1
Connector screw M6×25, galvanised white steel	7 g	0.63.6912.06025.2
Connector nut M6, black	2 g	21.99.61.A06.1
Connector nut M6, galvanised white steel	2 g	21.99.61.A06.2
Connector nut M6, black, self-locking	2 g	21.99.61.A06S.1
Connector nut M6, galvanised white steel, self-locking	2 g	21.99.61.A06S.2

for pipe clamps


Description	Weight	Product No.
Socket head cap screw DIN EN ISO 4762, M3×10, black	1 g	0.63.4762.03010.1
Socket head cap screw DIN EN ISO 4762, M3×10, galv. white steel	1 g	0.63.4762.03010.2
Hexagonal nut DIN 934 - M3, black	1 g	0.61.D00934.03.1
Hexagonal nut DIN 934 - M3, galvanised white steel	1 g	0.61.D00934.03.2

Locking screws


Description	Weight	Product No.
Self tapping screw M4,2×13, black	2 g	0.63.7504.4,2x131
Self tapping screw M4,2×13, galvanised white steel	2 g	0.63.7504.4,2x132
Self tapping screw M4,2×19, black	3 g	0.63.7504.4,2x191
Self tapping screw M4,2×19, galvanised white steel	3 g	0.63.7504.4,2x192

for castor mounting sets

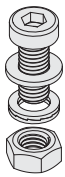

Description	Weight	Product No.
Socket head cap screw DIN 6912, M8×40, galvanised white steel	17 g	0.63.D06912.08040
Hexagonal nut DIN 934 - M8	4 g	0.61.D00934.08

Screws and nuts
for foot plates



Description	Weight	Product No.
Set screw M10×12, with cupped gripping point, black	4.0 g	0.63.0916.10012.1

new

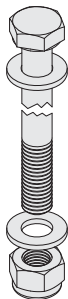


Description	Weight	Product No.
Mounting set for castors	16.8 g	30.15.S1

new

Single parts of the mounting set

Description	Pcs.	Weight	Product No.
Socket head cap screw DIN 6912, M8×20	1	10.0 g	0.63.D06912.08020
Washer DIN 433 - 8.4	1	1.3 g	0.62.D00433.08,4
Self locking washers, M8	1	1.5 g	0.62.D2520108
Hexagonal nut DIN 934 - M8	1	4.0 g	0.61.D00934.08



Description	Weight	Product No.
Mounting set for footplate with 45 mm square	39.0 g	30.15.S2

new

Single parts of the mounting set

Description	Pcs.	Weight	Product No.
Hexagonal screw DIN 931, M8×70	1	31.0 g	0.63.D00931.08070
Washer DIN 125 - 8.4	2	1.6 g	0.62.D00125.A08,4
Hexagonal nut DIN 985 - M8, self-locking	1	4.8 g	0.61.D00985.08

Pipe cutter



Description	Weight	Product-No.
Pipe cutter for ABS coated pipes with Ø28-32 mm	335 g	21.99.01 <i>new</i>



Description	Weight	Product-No.
Pipe cutter for stainless steel pipes with Ø28-32 mm	1.100 g	21.99.02 <i>new</i>

Pipe deburrer



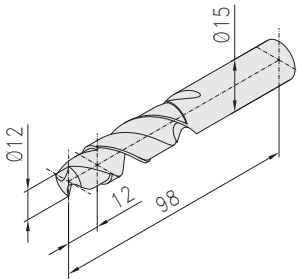
Description	Weight	Product-No.
Pipe deburrer for inner and outer diameter up to Ø32 mm	190 g	21.99.10 <i>new</i>

**Step drills
for cross bushing**

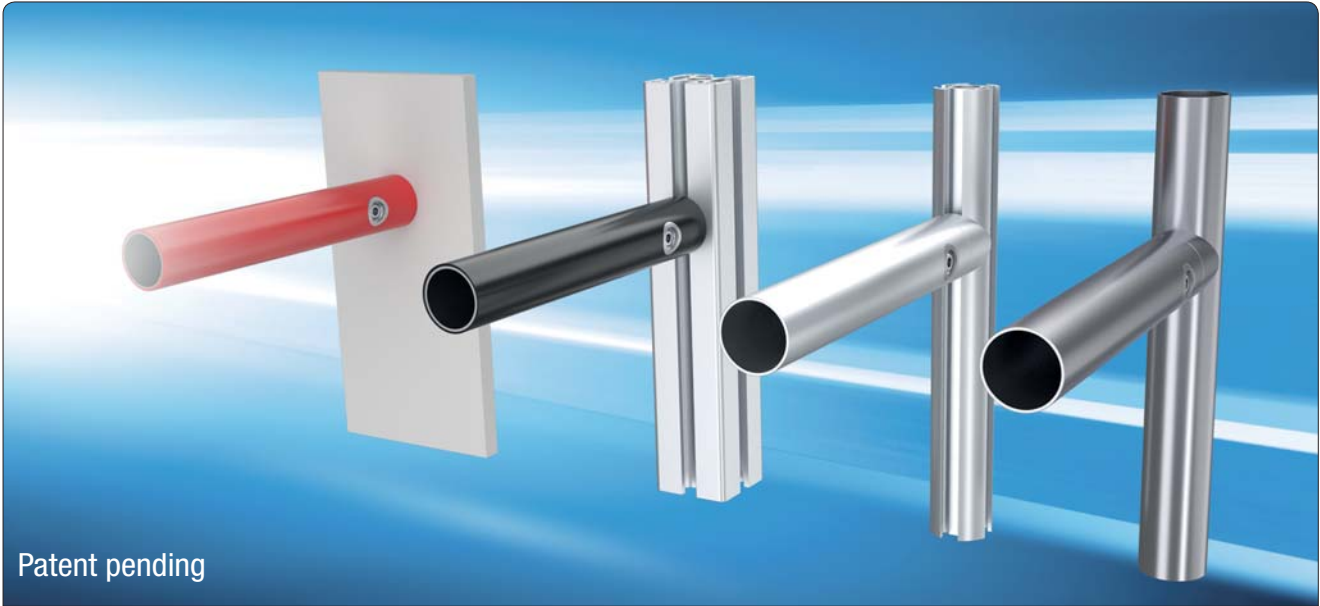


Technical data


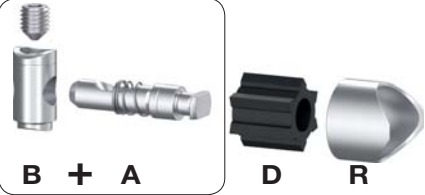
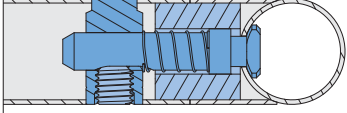

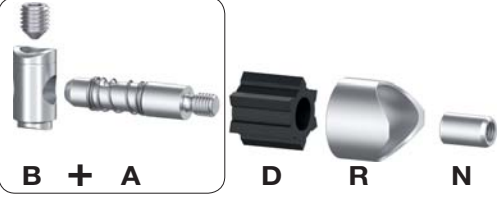
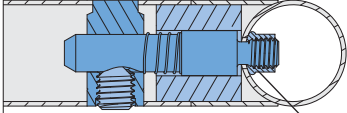

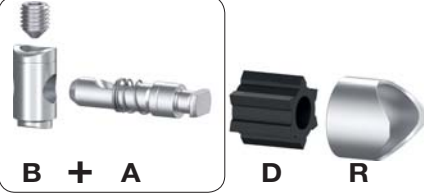
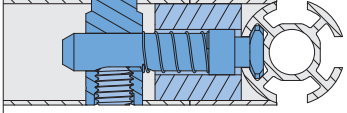

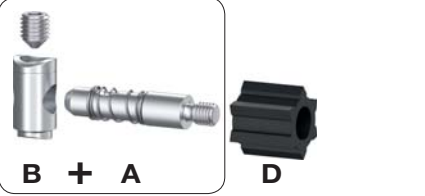
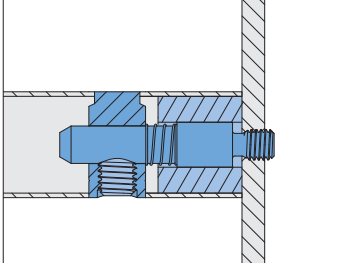
material: HSS or VHM
2 cutting edges
off-centre cutting edges



Description	Weight	Product-No.
Step drill, HSS	109 g	21.99.0321512HSS
Step drill, VHM	109 g	21.99.0321512VHM



Patent pending

Connection	Connector	
<p>Ø28 Pipe ⇔ Ø28 Pipe</p> 	 <p>B + A D R</p>	
<p>Ø28 Pipe ⇔ Pipe profile Ø28 (with slot)</p> 	 <p>B + A D R N</p>	 <p>rivet nut</p>
<p>Ø28 Pipe ⇔ Profile (with slot)</p> 	 <p>B + A D</p>	
<p>Ø28 Pipe ⇔ Panel element</p> 	 <p>B + A D</p>	

A = Anchor, **B** = Cross bushing, **D** = Connector sleeve, **R** = Intermediary, **N** = Rivet nut

MayTec Pipe connector

21. □□□□□□□□□□□□□□/□□□□□□
 21. **M** □□□□□□□□□□□□□□/□□□□□□
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Key
 MayTec - Connector
 Pipe 1: outside-Ø²⁾
 -"- material³⁾
 -"- wall thickness⁴⁾
 Pipe 2: outside-Ø⁶⁾
 Connection type⁷⁾
 Anchor type⁹⁾
 Connection variant¹⁰⁾
 Angle
 Special quality¹¹⁾
 Packing unit¹²⁾

Connector sleeve

21. □□□□□□□□□□□□□□
 21. **M** □□□□□□□□□□□□□□
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Key
 MayTec - Connector
 Module¹⁾
 Pipe 1: outside-Ø²⁾
 -"- material³⁾
 -"- wall thickness⁴⁾
 Connection type⁷⁾
 Connector sleeve: material³⁾
 Packing unit¹²⁾

Intermediary

21. □□□□□□□□□□□□□□/□□□□□□
 21. **M** □□□□□□□□□□□□□□/□□□□□□
 21. □ **R** □□□□□□□□□□□□□□/□□□□□□
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Key
 MayTec - Connector
 Module¹⁾
 Pipe 1: outside-Ø²⁾
 -"- material³⁾
 -"- wall thickness⁴⁾
 -"- colour⁵⁾
 Pipe 2: outside-Ø⁶⁾
 Connection type⁷⁾
 Angle
 Packing unit¹²⁾

Anchor

21. □□□□□□□□□□/□□□□□□
 21. **M** □□□□□□□□□□/□□□□□□
 21. □ **A** □□□□□□□□□□/□□□□□□
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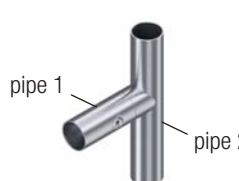

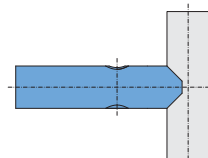
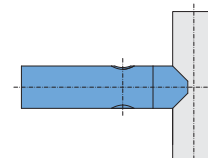
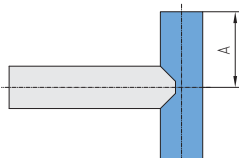
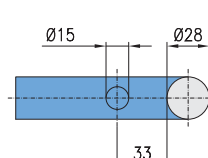
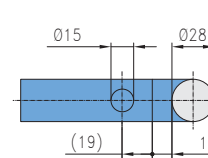
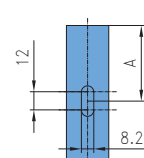


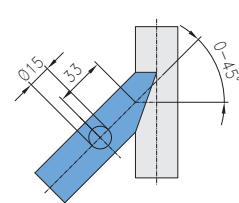
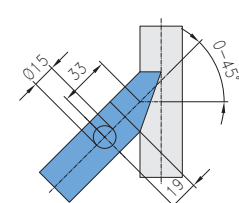
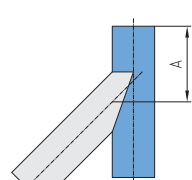
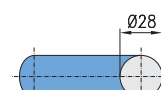
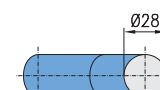
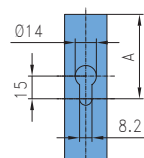


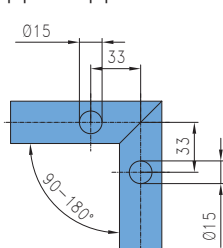

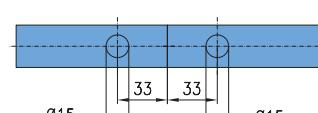
Key
 MayTec - Connector
 Module¹⁾
 Shaft-Ø⁸⁾
 Pipe 2: outside-Ø⁶⁾
 Connection type⁷⁾
 Anchor type⁹⁾
 Connection variant¹⁰⁾
 Angle
 Special quality¹¹⁾
 Packing unit¹²⁾






















Cross bushing

21. □□□□□□□□□□□□□□
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Key
 MayTec - Connector
 Module¹⁾
 Shaft-Ø³⁾
 Pipe 1: outside-Ø²⁾
 -"- material³⁾
 -"- wall thickness⁴⁾
 Special quality¹¹⁾
 Packing unit¹²⁾




- 1) **Module**
 A = Anchor
 B = Cross bushing
 D = Connector sleeve
 R = Intermediary
- 2) **Pipe 1: outside-Ø**
 28 = 28 mm
- 3) **Pipe 1 / Connector sleeve: material**
 A = Aluminium
 P = PA
 S = Steel, ABS coated
 V = Stainless steel
- 4) **Pipe: wall thickness**
 07 = 0.7 mm
 10 = 1.0 mm
 12 = 1.2 mm
 15 = 1.5 mm
 20 = 2.0 mm
- 5) **Pipe 1: colour**
 01 = black
 02 = white
 03 = ivory
 04 = dark grey
 05 = light grey
 06 = dark blue
 07 = light blue
 08 = green
 09 = red
 10 = yellow
- 6) **Pipe 2: outside-Ø / slot**
 20 = 20 mm
 28 = 28 mm
 30 = 30 mm
 40 = 40 mm
 48 = 48 mm
 F = F-slot
 E = E-slot
- 7) **Connection type**
 T = Standard
 K = Oblique-hinge
 B = Oblique-bent anchor
 G = Miter-hinge
 P = Miter-bent anchor
 V = Extension
 S = Screw-type
 U = Universal
- 8) **Shaft-Ø**
 12 = 12 mm
- 9) **Anchor type**
 1 = Length 1 (34 mm)
 2 = Length 2 (35 mm)
- 10) **Connection variant**
 0 = Universal / neutral
 1 = Standard 0°
 2 = Standard 90°
- 11) **Special quality**
 E = Ground
 V = Stainless (VA)
 C = Ground, stainless (VA)
- 12) **Packing unit**
 1 = PU 1 = 10 pcs
 2 = PU 2 = 100 pcs
 3 = PU 3 = 1,000 pcs

Connection	Pipe 1		Pipe 2
	w/o intermediary	with intermediary	
Standard 0°  90° 			
	Machining		
			
Oblique 0°  90° 			
	Machining		
			
Miter 0°  90° 	<p>pipe 1 + pipe 2</p> 		
Extension 	<p>pipe 1 + pipe 2</p> 		













Connection w/o intermediary	Wall thickness Pipe 1	Connector				Connector sleeve			
		Product-No.	steel standard	E	VA	Product-No.	PA	AL	
Standard 	Stainless steel 1.2		21.M28V1228T11		V		21.MD28V12TP	•	
	Aluminium 2.0		21.M28A2028T11		V		21.MD28A20TP	•	
	ABS coated 1.0		21.M28S1028T21				21.MD28S10TP	•	
	2.0		21.M28S2028T21				21.MD28S20TP	•	
90° 	Stainless steel 1.2		21.M28V1228T12		V		21.MD28V12TP	•	
	Aluminium 2.0		21.M28A2028T12		V		21.MD28A20TP	•	
	ABS coated 1.0		21.M28S1028T22				21.MD28S10TP	•	
	2.0		21.M28S2028T22				21.MD28S20TP	•	
Oblique -hinge l+r 	Stainless steel 1.2		21.M28V1228K11		V		21.MD28V12KA	•	
	Aluminium 2.0		21.M28A2028K11		V		21.MD28A20KA	•	
	ABS coated 1.0		21.M28S1028K21				21.MD28S10KA	•	
	2.0		21.M28S2028K21				21.MD28S20KA	•	
Oblique 90° -hinge 	Stainless steel 1.2		21.M28V1228K12		V		21.MD28V12KA	•	
	Aluminium 2.0		21.M28A2028K12		V		21.MD28A20KA	•	
	ABS coated 1.0		21.M28S1028K22				21.MD28S10KA	•	
	2.0		21.M28S2028K22				21.MD28S20KA	•	
Miter -hinge l+r 	Stainless steel 1.2		21.M28V1228G11		V	 2 pieces required!	21.MD28V12KA	•	
	Aluminium 2.0		21.M28A2028G11		V		21.MD28A20KA	•	
	ABS coated 1.0		21.M28S1028G11				21.MD28S10KA	•	
	2.0		21.M28S2028G11				21.MD28S20KA	•	
Miter 90° -hinge l+r 	Stainless steel 1.2		21.M28V1228G12		V	 2 pieces required!	21.MD28V12KA	•	
	Aluminium 2.0		21.M28A2028G12		V		21.MD28A20KA	•	
	ABS coated 1.0		21.M28S1028G12				21.MD28S10KA	•	
	2.0		21.M28S2028G12				21.MD28S20KA	•	
Extension 	Stainless steel 1.2		21.M28V1228V11		V		21.MD28V12VA	•	
	Aluminium 2.0		21.M28A2028V11		V		21.MD28A20VA	•	
	ABS coated 1.0		21.M28S1028V11				21.MD28S10VA	•	
	2.0		21.M28S2028V11				21.MD28S20VA	•	

 E = ground-connector
 VA = Stainless steel 1.4305

 PA = PA
 AL = Aluminium











Connection with intermediary		Intermediary	
	Wall thickness Pipe 1		Product-No.
	Stainless steel 1.2		21.MR28V1228T
	Aluminium 2.0		21.MR28A2028T
	ABS coated 1.0		21.MR28S10□□28T
	2.0		21.MR28S20□□28T
	Stainless steel 1.2		21.MR28V1228T
	Aluminium 2.0		21.MR28A2028T
	ABS coated 1.0		21.MR28S10□□28T
	2.0		21.MR28S20□□28T
	Stainless steel 1.2		21.MR28V1228K/□□
	Aluminium 2.0		21.MR28A2028K/□□
	ABS coated 1.0		21.MR28S10□□28K/□□
	2.0		21.MR28S20□□28K/□□
	Stainless steel 1.2		21.MR28V1228K/□□
	Aluminium 2.0		21.MR28A2028K/□□
	ABS coated 1.0		21.MR28S10□□28K/□□
	2.0		21.MR28S20□□28K/□□

□□ = Colour 03 = ivory 06 = dark blue 09 = red /□□ = Angle
 01 = black 04 = dark grey 07 = light blue 10 = yellow
 02 = white 05 = light grey 08 = green

Connection w/o intermediary	Wall thickness Pipe 1	Connector	Product-No.			Connector sleeve	Product-No.		
			steel standard	E	VA			PA	AL
Standard 	Stainless steel 1.2 Aluminium 2.0 ABS coated 1.0 2.0		21.M28V1228T11		V		21.MD28V12TP	•	
			21.M28A2028T11		V		21.MD28A20TP	•	
			21.M28S1028T11		V		21.MD28S10TP	•	
			21.M28S2028T11		V		21.MD28S20TP	•	
90° 	Stainless steel 1.2 Aluminium 2.0 ABS coated 1.0 2.0		21.M28V1228T12		V		21.MD28V12TP	•	
			21.M28A2028T12		V		21.MD28A20TP	•	
			21.M28S1028T12		V		21.MD28S10TP	•	
			21.M28S2028T12		V		21.MD28S20TP	•	
Oblique -hinge l+r 	Stainless steel 1.2 Aluminium 2.0 ABS coated 1.0 2.0		21.M28V1228K11		V		21.MD28V12KA	•	
			21.M28A2028K11		V		21.MD28A20KA	•	
			21.M28S1028K11		V		21.MD28S10KA	•	
			21.M28S2028K11		V		21.MD28S20KA	•	
Oblique 90° -hinge 	Stainless steel 1.2 Aluminium 2.0 ABS coated 1.0 2.0		21.M28V1228K12		V		21.MD28V12KA	•	
			21.M28A2028K12		V		21.MD28A20KA	•	
			21.M28S1028K12		V		21.MD28S10KA	•	
			21.M28S2028K12		V		21.MD28S20KA	•	


Connection with intermediary		Intermediary	
Wall thickness Pipe 1		Product-No.	
	Stainless steel 1.2		21.MR28V1228T
	Aluminium 2.0		21.MR28A2028T
	ABS coated 1.0		21.MR28S10□□28T
	2.0		21.MR28S20□□28T
	Stainless steel 1.2		21.MR28V1228T
	Aluminium 2.0		21.MR28A2028T
	ABS coated 1.0		21.MR28S10□□28T
	2.0		21.MR28S20□□28T
	Stainless steel 1.2		21.MR28V1228K/□□
	Aluminium 2.0		21.MR28A2028K/□□
	ABS coated 1.0		21.MR28S10□□28K/□□
	2.0		21.MR28S20□□28K/□□
	Stainless steel 1.2		21.MR28V1228K/□□
	Aluminium 2.0		21.MR28A2028K/□□
	ABS coated 1.0		21.MR28S10□□28K/□□
	2.0		21.MR28S20□□28K/□□

□□ = Colour	03 = ivory	06 = dark blue	09 = red	/□□ = Angle
01 = black	04 = dark grey	07 = light blue	10 = yellow	
02 = white	05 = light grey	08 = green		

Connection w/o intermediary			Connector						Connector sleeve			
			Product-No. for connector with F-head			Product-No. for connector with E-head						Product-No.
			steel standard	E	VA	steel standard	E	VA			PA	AL
	Stainless steel	1.2	21.M28V12FU11		V	21.M28V12EU11		V		21.MD28V12TP	•	
	Aluminium	2.0	21.M28A20FU11		V	21.M28A20EU11		V		21.MD28A20TP	•	
	ABS coated	1.0	21.M28S10FU11			21.M28S10EU11				21.MD28S10TP	•	
		2.0	21.M28S20FU11			21.M28S20EU11				21.MD28S20TP	•	
	Stainless steel	1.2	21.M28V12FT11		V	21.M28V12ET11		V		21.MD28V12TP	•	
	Aluminium	2.0	21.M28A20FT11		V	21.M28A20ET11		V		21.MD28A20TP	•	
	ABS coated	1.0	21.M28S10FT11			21.M28S10ET11				21.MD28S10TP	•	
		2.0	21.M28S20FT11			21.M28S20ET11				21.MD28S20TP	•	
	Stainless steel	1.2	21.M28V12FT12		V	21.M28V12ET12		V		21.MD28V12TP	•	
	Aluminium	2.0	21.M28A20FT12		V	21.M28A20ET12		V		21.MD28A20TP	•	
	ABS coated	1.0	21.M28S10FT12			21.M28S10ET12				21.MD28S10TP	•	
		2.0	21.M28S20FT12			21.M28S20ET12				21.MD28S20TP	•	
	Stainless steel	1.2	21.M28V12FK11		V	21.M28V12EK11		V		21.MD28V12KA	•	
	Aluminium	2.0	21.M28A20FK11		V	21.M28A20EK11		V		21.MD28A20KA	•	
	ABS coated	1.0	21.M28S10FK11			21.M28S10EK11				21.MD28S10KA	•	
		2.0	21.M28S20FK11			21.M28S20EK11				21.MD28S20KA	•	
	Stainless steel	1.2	21.M28V12FK12		V	21.M28V12EK12		V		21.MD28V12KA	•	
	Aluminium	2.0	21.M28A20FK12		V	21.M28A20EK12		V		21.MD28A20KA	•	
	ABS coated	1.0	21.M28S10FK12			21.M28S10EK12				21.MD28S10KA	•	
		2.0	21.M28S20FK12			21.M28S20EK12				21.MD28S20KA	•	









 E = ground-connector
 VA = Stainless steel 1.4305


 PA = PA
 AL = Aluminium

Connection w/o intermediary	Wall thickness Pipe 1	Connector			Distanz-Buchse		
		Product-No.			Product-No.		
		steel standard	E	VA		PA	AL
Standard 	Stainless steel 1.2	21.M28V12S11	V		21.MD28V12TP	•	
	Aluminium 2.0	21.M28A20S11	V		21.MD28A20TP	•	
	ABS coated 1.0	21.M28S10S11			21.MD28S10TP	•	
	2.0	21.M28S20S11			21.MD28S20TP	•	


E = ground-connector
VA = Stainless steel 1.4305

PA = PA
AL = Aluminium

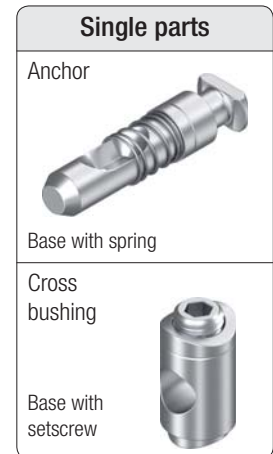
Pipe connector for Ø28 pipe ⇔ Ø28 pipe			Connectors, complete					
			Stainless steel 1.2			Aluminium 2.0		
			steel standard	E	VA	steel standard	E	VA
		Standard	21.M28V1228T11		V	21.M28A2028T11	V	
		90°	21.M28V1228T12		V	21.M28A2028T12	V	
		Oblique -hinge l+r	21.M28V1228K11		V	21.M28A2028K11	V	
		90° -hinge	21.M28V1228K12		V	21.M28A2028K12	V	
		Miter-hinge l+r	21.M28V1228G11		V	21.M28A2028G11	V	
		90° -hinge l+r	21.M28V1228G12		V	21.M28A2028G12	V	
		Extension	21.M28V1228V11		V	21.M28A2028V11	V	



	Cross bushing, VA	21.MB1228V12V	21.MB1228A20V
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E = ground connector, VA = Stainless steel 1.4305

Steel, ABS coated						Single parts				
1.0			2.0			Anchor			Piece	
steel standard	E	VA	steel standard	E	VA	steel standard	E	VA		
21.M28S1028T21			21.M28S2028T21			21.MA1228T11		V	1	1
						21.MA1228T21			1	1
21.M28S1028T22			21.M28S2028T22			21.MA1228T12		V	1	1
						21.MA1228T22			1	1
21.M28S1028K21			21.M28S2028K21			21.MA1228K11		V	1	1
						21.MA1228K21			1	1
21.M28S1028K22			21.M28S2028K22			21.MA1228K12		V	1	1
						21.MA1228K22			1	1
21.M28S1028G11			21.M28S2028G11			1.21.A1G1		V	1	2
21.M28S1028G12			21.M28S2028G12			1.21.A1G2		V	1	2
21.M28S1028V11			21.M28S2028V11			1.21.A1V0		V	1	2
21.MB1228S10V			21.MB1228S20V			Cross bushing, VA				


E = ground connector, VA = Stainless steel 1.4305



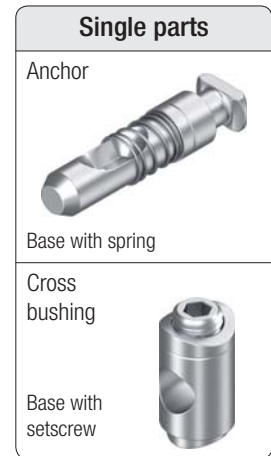
Pipe connector for Ø28 pipe ⇔ pipe profile Ø28			Connectors, complete						
			Stainless steel 1.2			Aluminium 2.0			
			steel standard	E	VA	steel standard	E	VA	
	Standard			21.M28V1228T11		V	21.M28A2028T11		V
	90°			21.M28V1228T12		V	21.M28A2028T12		V
	Oblique -hinge l+r			21.M28V1228K11		V	21.M28A2028K11		V
	90° -hinge			21.M28V1228K12		V	21.M28A2028K12		V

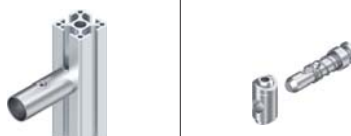

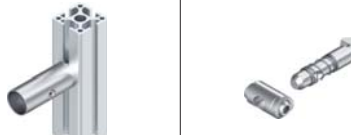
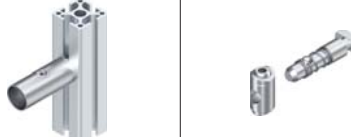


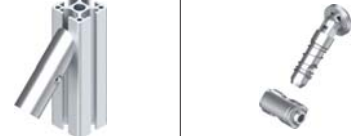
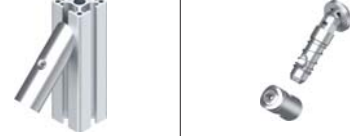


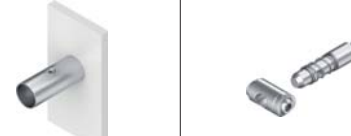

	Cross bushing, VA	21.MB1228V12V	21.MB1228A20V

E = ground connector, VA = Stainless steel 1.4305

Steel, ABS coated						Single parts				
1.0			2.0			Anchor			Piece	
steel standard	E	VA	steel standard	E	VA	steel standard	E	VA		
21.M28S1028T11			21.M28S2028T21			21.MA1228T11		V	1	1
21.M28S1028T12			21.M28S2028T12			21.MA1228T12		V	1	1
21.M28S1028K11			21.M28S2028K11			21.MA1228K11		V	1	1
21.M28S1028K12			21.M28S2028K22			21.MA1228K12		V	1	1
21.MB1228S10V		21.MB1228S20V						Cross bushing, VA		


E = ground connector, VA = Stainless steel 1.4305



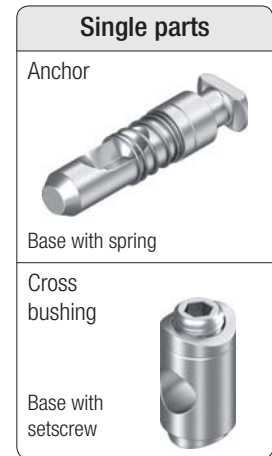
Pipe connector for Ø28 pipe ⇨ profile, panel element			Connectors, complete			
			Stainless steel 1.2		Aluminium 2.0	
			steel standard	E VA	steel standard	E VA
		Universal	21.M28V12FU11	V	21.M28A20FU11	V
			21.M28V12EU11	V	21.M28A20EU11	V
 	 	Standard	21.M28V12FT11	V	21.M28A20FT11	V
			21.M28V12ET11	V	21.M28A20ET11	V
		90°	21.M28V12FT12	V	21.M28A20FT12	V
			21.M28V12ET12	V	21.M28A20ET12	V
 	 	Oblique -hinge l+r	21.M28V12FK11	V	21.M28A20FK11	V
			21.M28V12EK11	V	21.M28A20EK11	V
		90° -hinge	21.M28V12FK12	V	21.M28A20FK12	V
			21.M28V12EK12	V	21.M28A20EK12	V
		Screw-type -front sided	21.M28V12S11	V	21.M28A20S11	V

	Cross bushing, VA	21.MB1228V12V	21.MB1228A20V

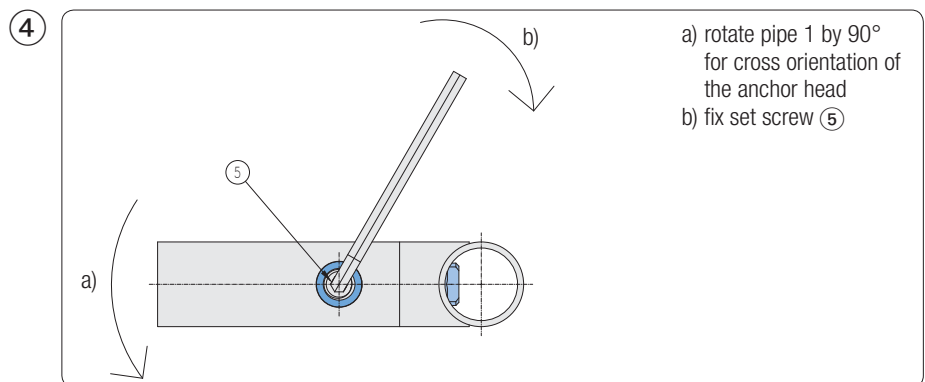
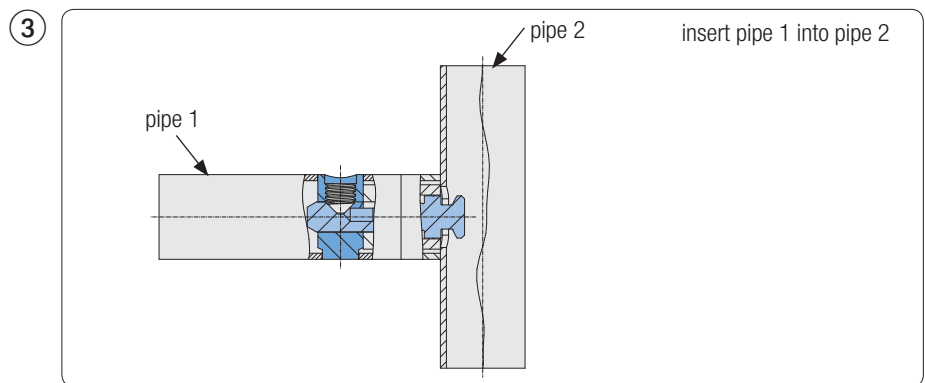
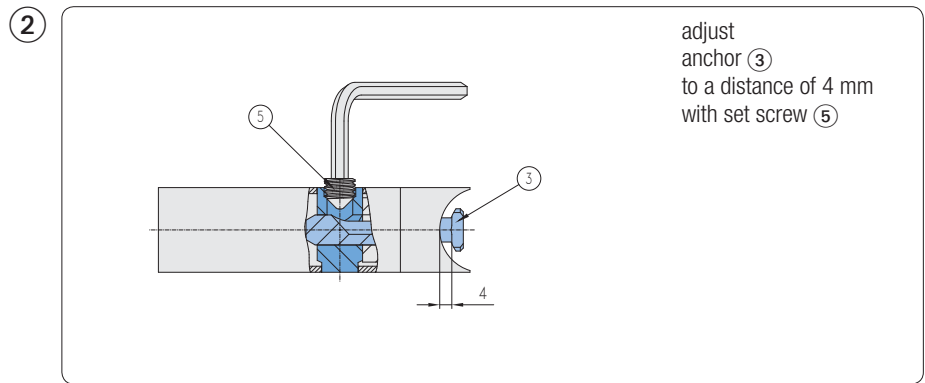
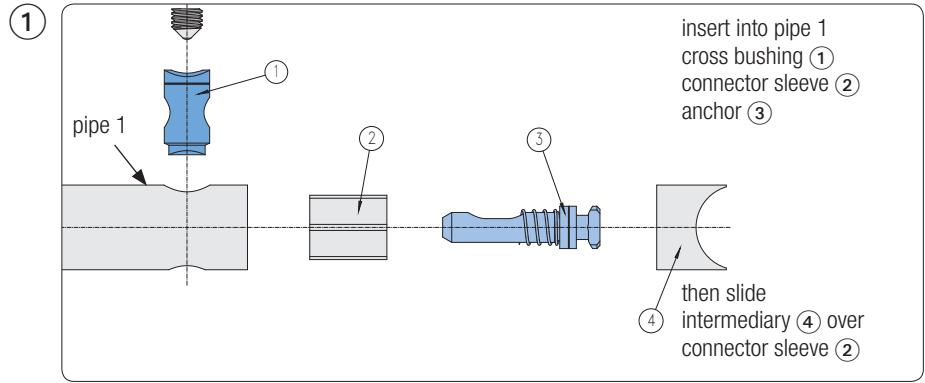
E = ground connector, VA = Stainless steel 1.4305

Steel, ABS coated						Single parts				
1.0			2.0			Anchor			Piece	
steel standard	E	VA	steel standard	E	VA	steel standard	E	VA		
21.M28S10FU11			21.M28S20FU11			1.21.A1F0		V	1	1
21.M28S10EU11			21.M28S20EU11			1.21.A1E0		V	1	1
21.M28S10FT11			21.M28S20FT11			1.21.A1F1		V	1	1
21.M28S10ET11			21.M28S20ET11			1.21.A1E1		V	1	1
21.M28S10FT12			21.M28S20FT12			1.21.A1F2		V	1	1
21.M28S10ET12			21.M28S20ET12			1.21.A1E2		V	1	1
21.M28S10FK11			21.M28S20FK11			1.21.A1FK1		V	1	1
21.M28S10EK11			21.M28S20EK11			1.21.A1EK1		V	1	1
21.M28S10FK12			21.M28S20FK12			1.21.A1FK2		V	1	1
21.M28S10EK12			21.M28S20EK12			1.21.A1EK2		V	1	1
21.M28S10S11			21.M28S20S11			1.21.A1SM8/11		V	1	1
21.MB1228S10V			21.MB1228S20V			Cross bushing, VA				

E = ground connector, VA = Stainless steel 1.4305



Pipe connector, Standard with intermediary



Material trolley, stainless steel



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