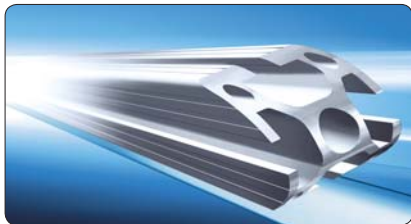




» The Pipe & Joint System

The key to success!

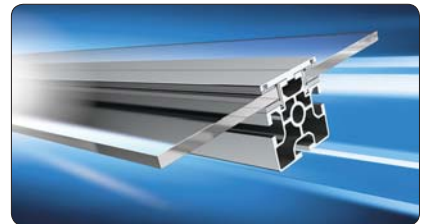
Solutions with Innovative Profile



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.

Article number group	Page
Introduction.....	2
21.01 Numerical key for products, colours	2
21.02 Calculation of cut length.....	2
21.03 Flexural strength of pipes	3
21.04 Torque moment for connectors	4
21.04 Strength values of pipe connectors	4
Pipes	5
21.11 Summary: Pipes	5
21.11 Pipes	6
Connection System	13
21.12 Summary: Joints.....	13
21.12 Joints.....	16
Accessories.....	33
Summary: Accessories.....	33
21.13 Mounting accessories	37
21.14 Caps, plugs and threaded inserts.....	45
21.15 Feet and castors.....	48
21.16 Summary: Roller tracks	61
21.16 Roller tracks	62
21.17 Accessories.....	84
(1.85) Panel elements.....	100
21.99 Screws and nuts.....	101
21.99 Tools.....	103
MayTec Pipe connectors	105
21.M Numerical key for pipe connectors	106
21.M Connection possibilities for Ø28 pipe ⇒ Ø28 pipe.....	107
21.M Pipe connector for Ø28 pipe ⇒ Ø28 pipe	108
21.M Pipe connector for Ø28 pipe ⇒ pipe profile Ø28	110
21.M Pipe connector for Ø28 pipe ⇒ profile.....	112
21.M Pipe connector for Ø28 pipe ⇒ panel element.....	113
21.M Components.....	114
21.M Assembly	120
Application sample	121

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

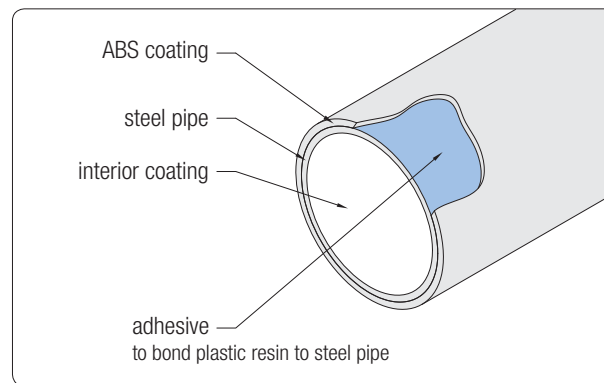
Cut to length pipes

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 21.□□.□□□.□□.□□/□□□□

Key

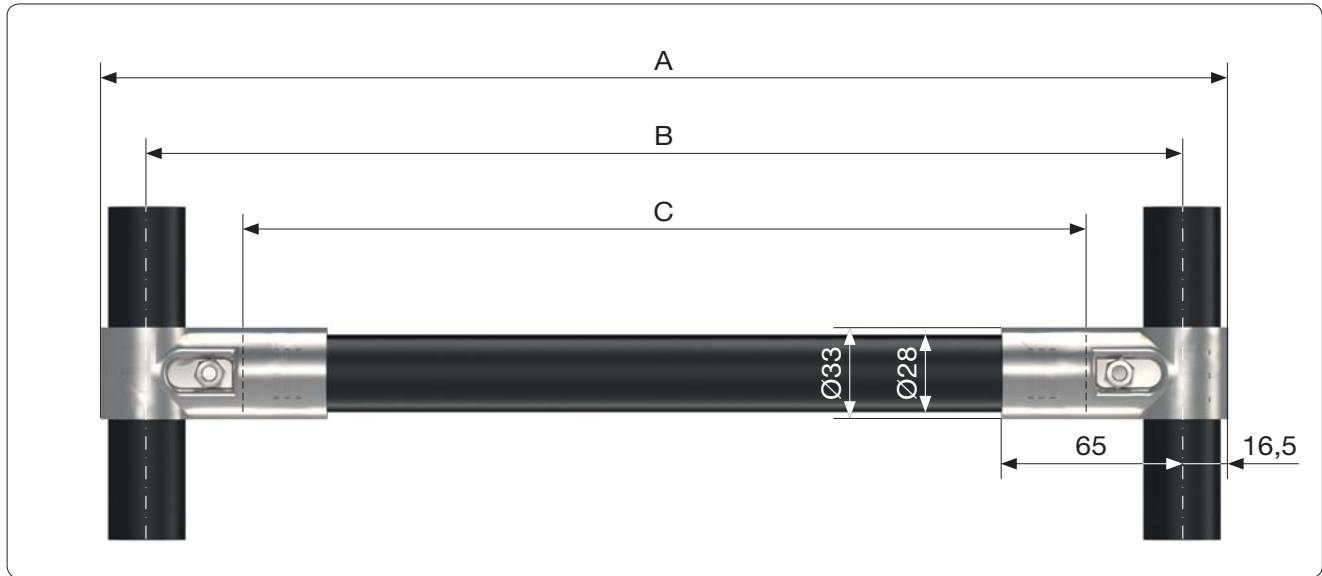
cut length in mm

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 C = A - 103	A = B + 33 C = B - 70	A = C + 103 B = C + 70

Flexural strength of pipes

21.03

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

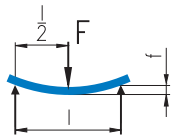
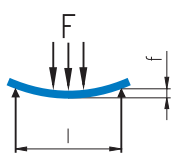
'The maximum deflection of load carrying beams in a storage equipment is not allowed to exceed **1/200** of the distance between the posts for metal frames and 1/150 for frames build with other materials. For both values the deflection has to be based on the constant load.'

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		
↓ point load		$f = \frac{F \cdot l^3}{48E \cdot J}$
↓↓↓ distributed load		$f = \frac{5F \cdot l^3}{384E \cdot J}$

Torque moment for connectors

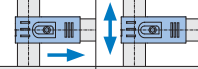

Clamping connector

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


MayTec Pipe connector

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

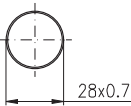
Strength values of pipe connectors

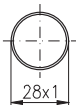
Type of joint	Joint	Pipe	Tension load ¹⁾ at 25 Nm torque moment	
				
			x axis	y axis
 Standard joint 90°	Standard joint 90°, black 21.121.01.1	ABS coated, 2.0 mm 21.11.110.20.01	155 kg	230 kg
	Standard joint 90°, nickel plated 21.121.01.2	Stainless steel, 1.2 mm 21.11.31E.12.00	190 kg	260 kg
	Standard joint 90°			
 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
	90° angle joint			
 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
	180° joint			
 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
	T-joint			
 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	
	MayTec Pipe connector, standard, with intermediary			

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

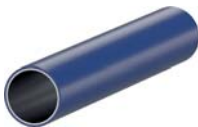
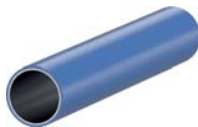
Technical data Pipe outside-Ø: 28 mm Length of pipe: 4 m			wall thickness in mm											
Material	Pipe	Version		black	white	ivory	dark grey	light grey	dark blue	light blue	green	red	yellow	without coating
Steel, ABS coated		Standard	0.7	•	•	•	•	•	•	•	•	•	•	
			1.0	•	•	•	•	•	•	•	•	•	•	
			2.0	•	•	•	•	•	•	•	•	•	•	
		ESD 	0.7	•										
			1.0	•										
			2.0	•										
		Standard	1.0	•	•	•								
			ESD 	1.0	•									
			ESD 	1.0	•									
Stainless		ESD 	0.7 1.2											• •
Aluminium		ESD 	2.0											•

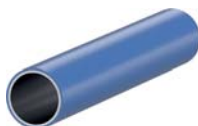
Aluminium		ESD 	1.5											•
-----------	---	---	-----	--	--	--	--	--	--	--	--	--	--	---

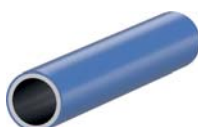
wall thickness 0.7 mm 				
				
Description	Steel pipe Ø28, 0.7, black	Steel pipe Ø28, 0.7, white	Steel pipe Ø28, 0.7, ivory	Steel pipe Ø28, 0.7, dark grey
pipe, 4 m	21.11.110.07.01.40	21.11.110.07.02.40	21.11.110.07.03.40	21.11.110.07.04.40
packing unit 1 (10 Pcs)	21.11.110.07.01.41	21.11.110.07.02.41	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 I _y = 0.4			
moment of resistance cm ³	W _x = 0.3 W _y = 0.3			
weight kg/m	G = 0.5			

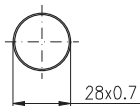
wall thickness 1.0 mm				
				
Description	Steel pipe Ø28, 1.0, black	Steel pipe Ø28, 1.0, white	Steel pipe Ø28, 1.0, ivory	Steel pipe Ø28, 1.0, dark grey
pipe, 4 m	21.11.110.10.01.40	21.11.110.10.02.40	21.11.110.10.03.40	21.11.110.10.04.40
packing unit 1 (10 Pcs)	21.11.110.10.01.41	21.11.110.10.02.41	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	$G = 0.7$			

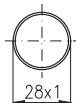
wall thickness 2.0 mm					
					
Description		Steel pipe Ø28, 2.0, black	Steel pipe Ø28, 2.0, white	Steel pipe Ø28, 2.0, ivory	Steel pipe Ø28, 2.0, dark grey
pipe, 4 m		21.11.110.20.01.40	21.11.110.20.02.40	21.11.110.20.03.40	21.11.110.20.04.40
packing unit 1 (10 Pcs)		21.11.110.20.01.41	21.11.110.20.02.41	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	I _y = 1.1			
moment of resistance cm ³	W _x = 0.8	W _y = 0.8			
weight kg/m	G = 1.1				

					
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

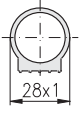
					
Steel pipe Ø28, 1.0, light grey	Steel pipe Ø28, 1.0, dark blue	Steel pipe Ø28, 1.0, light blue	Steel pipe Ø28, 1.0, green	Steel pipe Ø28, 1.0, red	Steel pipe Ø28, 1.0, yellow
21.11.110.10.05.40	21.11.110.10.06.40	21.11.110.10.07.40	21.11.110.10.08.40	21.11.110.10.09.40	21.11.110.10.10.40
21.11.110.10.05.41	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

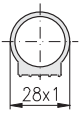
					
Steel pipe Ø28, 2.0, light grey	Steel pipe Ø28, 2.0, dark blue	Steel pipe Ø28, 2.0, light blue	Steel pipe Ø28, 2.0, green	Steel pipe Ø28, 2.0, red	Steel pipe Ø28, 2.0, yellow
21.11.110.20.05.40	21.11.110.20.06.40	21.11.110.20.07.40	21.11.110.20.08.40	21.11.110.20.09.40	21.11.110.20.10.40
21.11.110.20.05.41	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

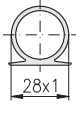
wall thickness 0.7 mm 				
Description	Steel pipe Ø28, 0.7 black, ESD			
pipe, 4 m	21.11.11E.07.01.40			
packing unit 1 (10 Pcs)	21.11.11E.07.01.41			
packing unit 2 (100 Pcs)	21.11.11E.07.01.42			
moment of inertia cm ⁴	$I_x = 0.4$	$I_y = 0.4$		
moment of resistance cm ³	$W_x = 0.3$	$W_y = 0.3$		
weight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

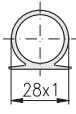
wall thickness 1.0 mm 				
Description	Steel pipe Ø28, 1.0 black, ESD			
pipe, 4 m	21.11.11E.10.01.40			
packing unit 1 (10 Pcs)	21.11.11E.10.01.41			
packing unit 2 (100 Pcs)	21.11.11E.10.01.42			
moment of inertia cm ⁴	$I_x = 0.6$	$I_y = 0.6$		
moment of resistance cm ³	$W_x = 0.4$	$W_y = 0.4$		
weight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

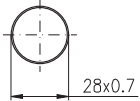
wall thickness 2.0 mm 				
Description	Steel pipe Ø28, 2.0 black, ESD			
pipe, 4 m	21.11.11E.20.01.40			
packing unit 1 (10 Pcs)	21.11.11E.20.01.41			
packing unit 2 (100 Pcs)	21.11.11E.20.01.42			
moment of inertia cm ⁴	$I_x = 1.1$	$I_y = 1.1$		
moment of resistance cm ³	$W_x = 0.8$	$W_y = 0.8$		
weight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

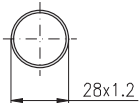
wall thickness 1.0 mm 				
				
Description	Slide pipe Ø28, 1.0 black	Slide pipe Ø28, 1.0 white	Slide pipe Ø28, 1.0 ivory	
pipe, 4 m	21.11.120.10.01.40	21.11.120.10.02.40	21.11.120.10.03.40	
packing unit 1 (10 Pcs)	21.11.120.10.01.41	21.11.120.10.02.41	21.11.120.10.03.41	
packing unit 2 (100 Pcs)	21.11.120.10.01.42	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	$G = 0.8$			

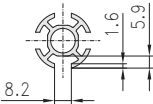
wall thickness 1.0 mm  				
				
Description	Slide pipe Ø28, 1.0 black, ESD			
pipe, 4 m	21.11.12E.10.01.40			
packing unit 1 (10 Pcs)	21.11.12E.10.01.41			
packing unit 2 (100 Pcs)	21.11.12E.10.01.42			
moment of inertia cm ⁴	$I_x = 0.6 \quad I_y = 0.6$			
moment of resistance cm ³	$W_x = 0.4 \quad W_y = 0.4$			
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	$I_x = 0.6$ $I_y = 0.6$				
moment of resistance cm ³	$W_x = 0.4$ $W_y = 0.4$				
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	$I_x = 0.9$ $I_y = 0.9$				
moment of resistance cm ³	$W_x = 0.6$ $W_y = 0.6$				
weight kg/m	$G = 0.8$				

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 moment of resistance cm ³ weight kg/m	$I_x = 1.1 \quad I_y = 1.1$ $W_x = 0.8 \quad W_y = 0.8$ $G = 0.5$			

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



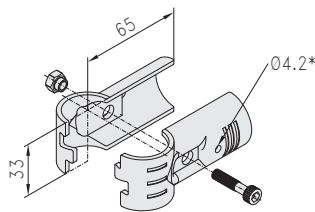
Slide pipe bridge, rounded
➡ 32

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.□

Alternative

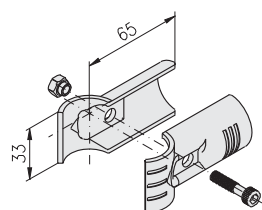
Connector nut M6, self-locking	2 g	21.99.61.A06S.□
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Optional

Self cutting screw M4.2×13, black	2 g	0.63.7504.4,2x131
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□
black 1
nickel plated / silver 2

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.□

Alternative

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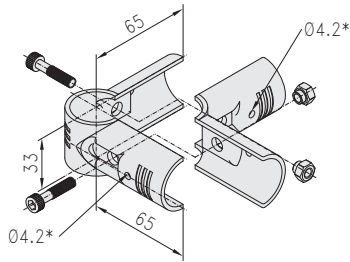
□
black 1
nickel plated / silver 2

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

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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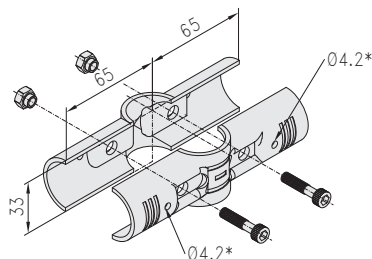
□
black 1
nickel plated / silver 2

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

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

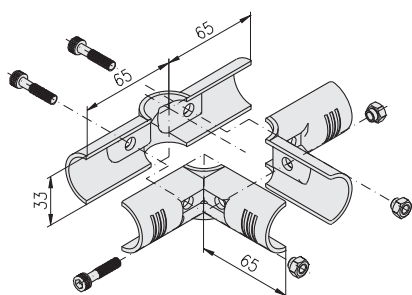
Connector nut M6, self-locking	2 g	21.99.61.A06S.□
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Optional

Self cutting screw M4.2×13, black	2 g	0.63.7504.4,2x131
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□
black 1
nickel plated / silver 2

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

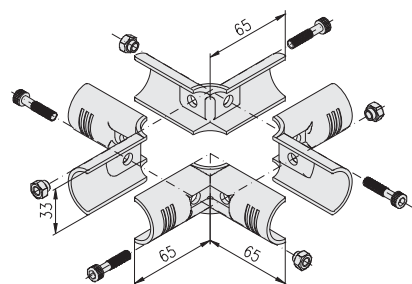
Description	Pcs.	Weight	Product No.
90° angle connector inside	2	96 g	21.121.03A.□
180° connector	1	110 g	21.121.04A.□
Connector screw M6×25	3	7 g	0.63.0912.06025.□
Connector nut M6	3	2 g	21.99.61.A06.□

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

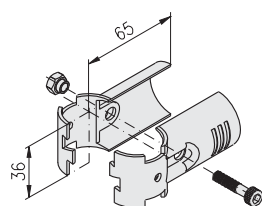
Description	Pcs.	Weight	Product No.
90° angle connector inside	4	96 g	21.121.03A.□
Connector screw M6×25	4	7 g	0.63.0912.06025.□
Connector nut M6	4	2 g	21.99.61.A06.□

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.□

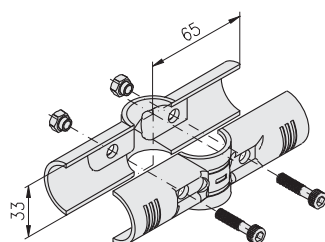
Alternative

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

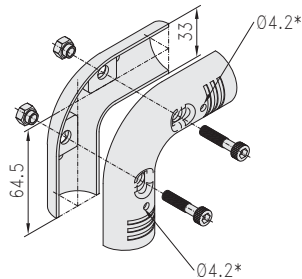
Connector nut M6, self-locking	2 g	21.99.61.A06S.□
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Corner joint



* 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

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

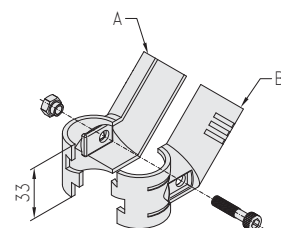
Connector nut M6, self-locking	2 g	21.99.61.A06S.□
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Optional

Self cutting screw M4.2×13, black	2 g	0.63.7504.4,2x131
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□
black 1
nickel plated / silver 2

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

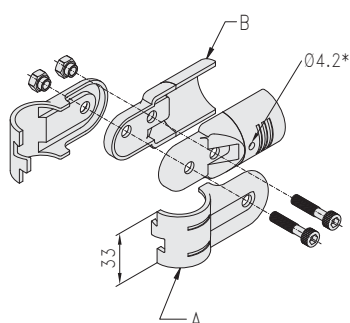
Description	Pcs.	Weight	Product No.
45° angle connector, part A	1	73 g	21.121.22A.□
45° angle connector, part B	1	73 g	21.121.22B.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

Alternative

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

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.□

Alternative

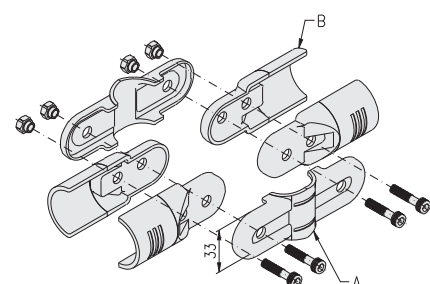
Connector nut M6, self-locking	2 g	21.99.61.A06S.□
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Optional

Self cutting screw M4.2×13, black	2 g	0.63.7504.4,2x131
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□
black 1
nickel plated / silver 2

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

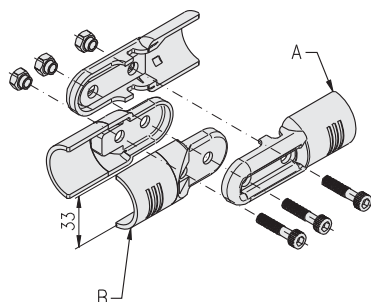
Description	Pcs.	Weight	Product No.
Double hinged connector, part A	2	59 g	21.121.24A.□
Hinged connector, part B	4	60 g	21.121.23B.□
Connector screw M6×25	4	7 g	0.63.0912.06025.□
Connector nut M6	4	2 g	21.99.61.A06.□

Alternative

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

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

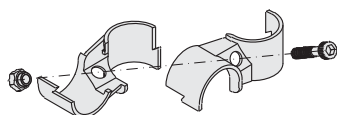
Description	Pcs.	Weight	Product No.
Hinged corner connector, part A	2	67 g	21.121.25A.□
Hinged connector, part B	2	60 g	21.121.23B.□
Connector screw M6×25	3	7 g	0.63.0912.06025.□
Connector nut M6	3	2 g	21.99.61.A06.□

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

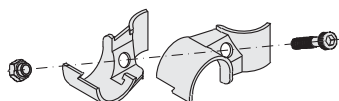
Description	Pcs.	Weight	Product No.
Crossover connector	2	50 g	21.121.31A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

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

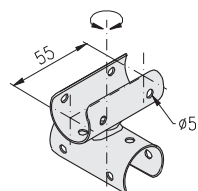
Description	Pcs.	Weight	Product No.
Tangential crossover connector	2	44 g	21.121.32A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

Alternative

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

Bolted crossover connector

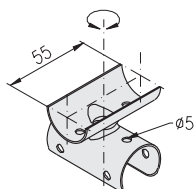


Description	Weight	Product No.
Bolted crossover connector, nickel plated	110 g	21.121.33A.2

Optional

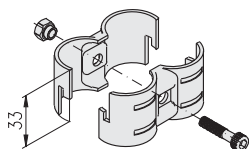
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132
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Bolted crossover connector, tangential



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

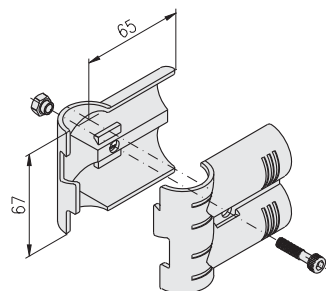
Description	Pcs.	Weight	Product No.
Parallel connector	2	56 g	21.121.41A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

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

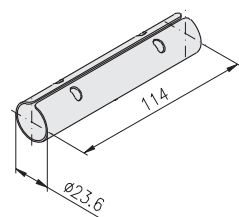
Description	Pcs.	Weight	Product No.
Double standard connector	2	140 g	21.121.42A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

Alternative

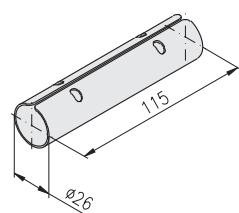
Connector nut M6, self-locking	2 g	21.99.61.A06S.□
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□
black 1
nickel plated / silver 2

Extensions for pipes

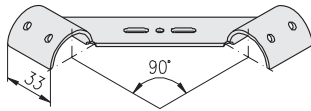
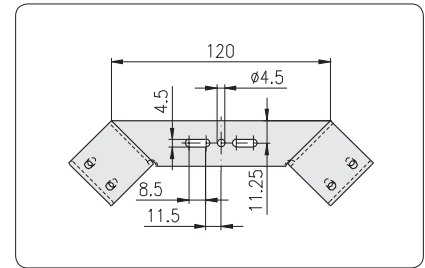


Description	Weight	Product No.
Extension for ABS coated pipes	46 g	21.121.51.2



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

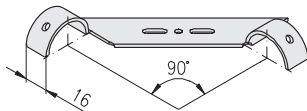
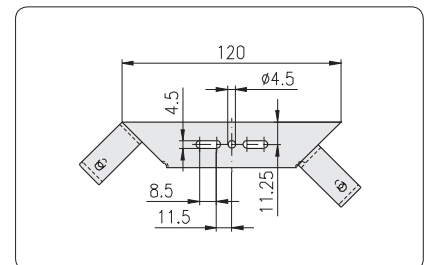
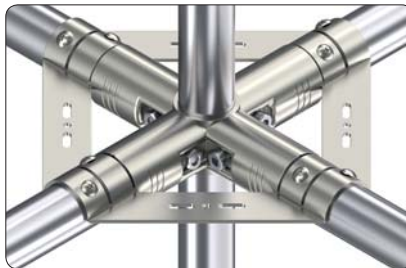
Optional

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

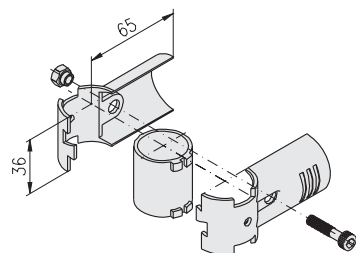
Optional

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

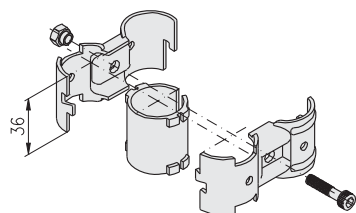
Alternative

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

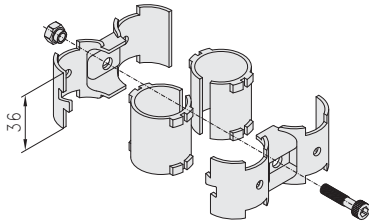
Alternative

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

Optional

Self cutting screw M4.2×13, galvanised white steel		2 g	0.63.7504.4,2x132
--	--	-----	-------------------

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
-----------------------------------	--	-----	-------------------

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

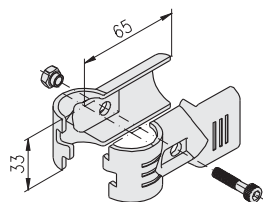
Alternative

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

Optional

Self cutting screw M4.2×13, galvanised white steel		2 g	0.63.7504.4,2x132
--	--	-----	-------------------

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

Single parts

Description	Pcs.	Weight	Product No.
Flat pipe connector	1	70 g	21.121.81A.□
Standard connector 90°	1	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.□

Alternative

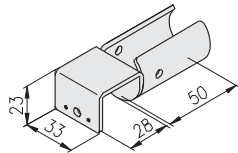
Connector nut M6, self-locking	2 g	21.99.61.A06S.□
--------------------------------	-----	-----------------

Optional

Self cutting screw M4.2×13	2 g	0.63.7504.4,2x13□
----------------------------	-----	-------------------

□
black 1
nickel plated / silver 2

Slide pipe joint



Technical data

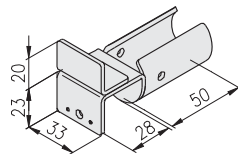
material: steel
surface: galvanised

Description	Weight	Product No.
Slide pipe joint	115 g	21.121.91.2

Optional

Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132
--	-----	-------------------

Slide pipe joint with stop



Technical data

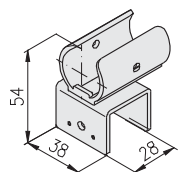
material: steel
surface: galvanised

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

Optional

Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132
--	-----	-------------------

Slide pipe joint union



Technical data

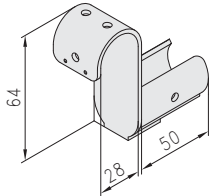
material: steel
surface: galvanised

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

Optional

Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132
--	-----	-------------------

Slide pipe joint with offset



Technical data

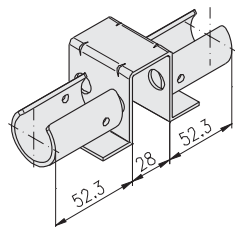
material: steel
surface: galvanised

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

Optional

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



Technical data

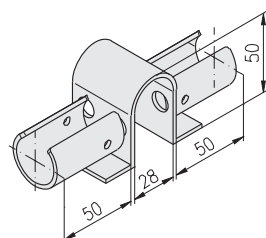
material: steel
surface: galvanised

Description	Weight	Product No.
Slide pipe bridge	235 g	21.121.95.2

Optional

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

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



End plugs

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

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



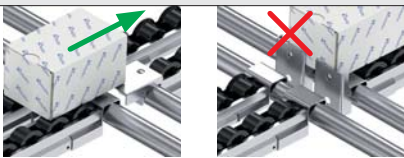
40 type B



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

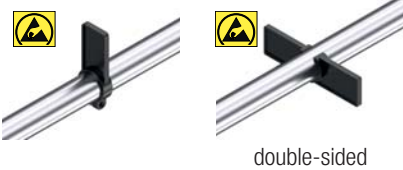
Label strip 32

Label strip 55

Sticker bar

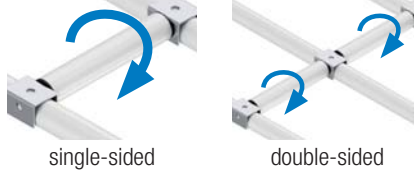
21.17 Accessories

Position retainer 88



double-sided

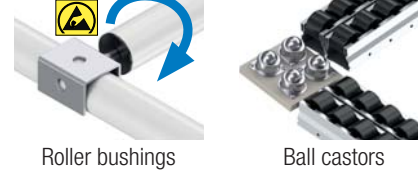
Roller fixture 89



single-sided

double-sided

Bushings 90



Roller bushings

Ball castors

Tool and device holder 92



Tool holder

Multiple tool holder



Device holder

Hooks 93



24



42



100

Hooks 94



Ring hook



Hang up hook



Sliding hook



Sliding hook, PA

Tilt rails 95



Profiles 96



L-profiles



T-profiles



U-profiles



Pipe cover



Cable duct

Conduit 99



new

(1.85) Panel elements

Panel elements 100



new

Corrugated plastic panels

21.99 Screws and nuts, tools

Screws and nuts 101



Tools 103



Pipe cutter for ABS-coated pipes



Pipe cutter for stainless steel pipes

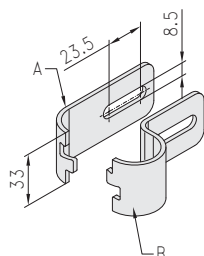


Pipe deburrer



Step drills for cross bushing

Screw-on pipe clamp flush



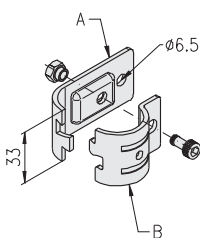
Description	Weight	Product No.
Screw-on pipe clamp, flush, black	117 g	21.13.00.1
Screw-on pipe clamp, flush, nickel plated	117 g	21.13.00.2

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

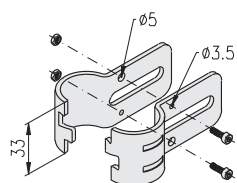
Description	Pcs.	Weight	Product No.
Screw-on pipe clamp, part A	1	43 g	21.13.01A.□
Screw-on pipe clamp, part B	1	43 g	21.13.01B.□
Connector screw M6×10	1	4 g	0.63.6912.06010.□
Connector nut	1	2 g	21.99.61.A06.□

□
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



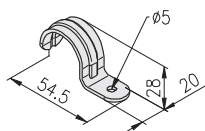
Description	Weight	Product No.
Screw-on pipe clamp, center, black	104 g	21.13.02.1
Screw-on pipe clamp, center, nickel plated	104 g	21.13.02.2

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.□

black 1 □
 nickel plated / silver 2

Single sided pipe clamp



Description

Single sided pipe clamp, nickel plated

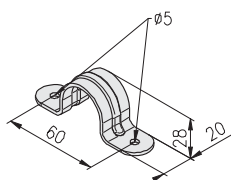
Weight

22 g

Product No.

21.13.03.2

Double sided pipe clamp



Description

Double sided pipe clamp, nickel plated

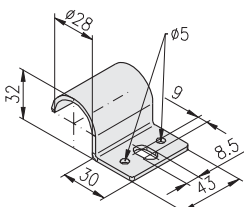
Weight

23 g

Product No.

21.13.04.2

Pipe clamp wide



Description

Pipe clamp, wide, nickel plated

Weight

77 g

Product No.

21.13.05.2

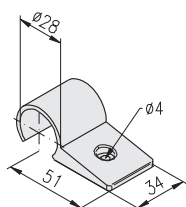
Optional

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

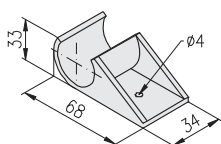
Pipe clamp PE, black, ESD

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

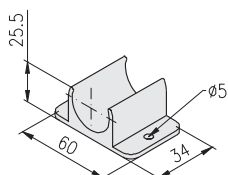
Pipe clamp PE, type B, black, ESD

16 g

21.13.07.01E



Pipe clips PE



Description

Pipe clip PE, black

Weight

13 g

Product No.

21.13.08.01

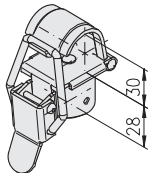
Pipe clip PE, black, ESD

13 g

21.13.08.01E

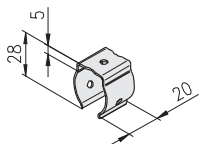


Pipe quick lock



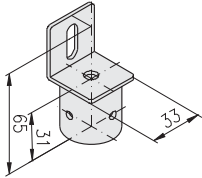
Description	Weight	Product No.
Pipe quick lock, nickel plated	125 g	21.13.09.2
Optional		
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

Pipe clip



Description	Weight	Product No.
Pipe clip, nickel plated	13 g	21.13.10.2
Optional		
Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132

Profile adaptor



Description

Profile adaptor, nickel plated

Weight

85 g

Product No.

21.13.13.2

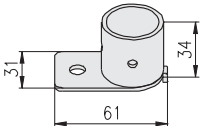
Optional

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

2 g

0.63.7504.4,2x132

Profile adaptor 90°



Description

Profile adaptor 90°, nickel plated

Weight

85 g

Product No.

21.13.14.2

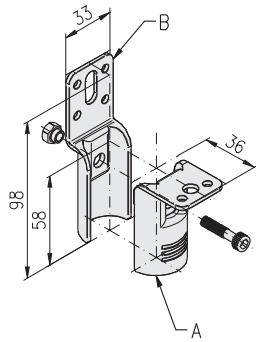
Optional

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

2 g

0.63.7504.4,2x132

Roller track link



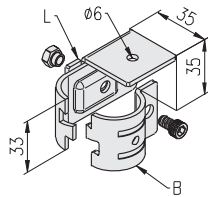
Description	Weight	Product No.
Roller track link, black	131 g	21.13.15.1
Roller track link, nickel plated	131 g	21.13.15.2

Single parts

Description	Pcs.	Weight	Product No.
Roller track link, part A	1	57 g	21.13.15A.□
Roller track link, part B	1	65 g	21.13.15B.□
Connector screw M6×25	3	7 g	0.63.0912.06025.□
Connector nut M6	3	2 g	21.99.61.A06.□

□
black 1
nickel plated / silver 2

Table top joint

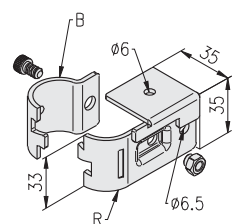


Description	Weight	Product No.
Table top joint, left, black	116 g	21.13.16L.1
Table top joint, left, nickel plated	116 g	21.13.16L.2

Single parts

Description	Pcs.	Weight	Product No.
Table top joint, clamp left	1	70 g	21.13.16A.□
Screw-on pipe clamp, part B	1	40 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



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

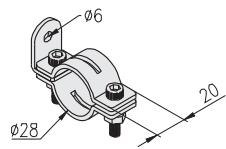
Description	Pcs.	Weight	Product No.
Table top joint, clamp right	1	70 g	21.13.16B.□
Screw-on pipe clamp, part B	1	40 g	21.13.01B.□
Connector screw M6×10	1	4 g	0.63.6912.06010.□
Connector nut	1	2 g	21.99.61.A06.□

□
black 1
nickel plated / silver 2

Shock absorber



Shock absorber clamp



Description

Shock absorber clamp, nickel plated

Weight

116 g

Product No.

21.13.17.2

Optional

Cylindric head screw, DIN 6912 - M6×12

5 g

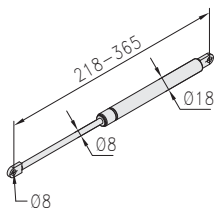
0.63.D06912.06012

Connector nut, silver

2 g

21.99.61.A06.2

Shock absorber



Description

Shock absorber

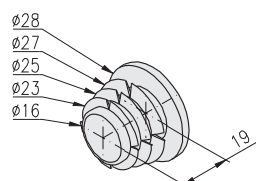
Weight

214 g

Product No.

21.13.18

End caps for all pipes

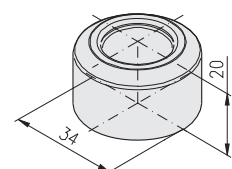


Description

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

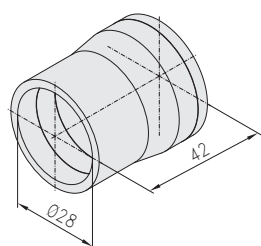


Description

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



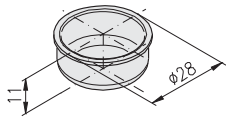
Description

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

End plugs for ABS coated pipes



Technical data
material: steel

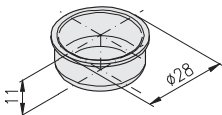


Description	wall thickness	Weight	Product No.
End plug for ABS coated pipes	0.7	7 g	21.14.03.07
End plug for ABS coated pipes	1.0	7 g	21.14.03.10

End plugs for stainless steel pipes

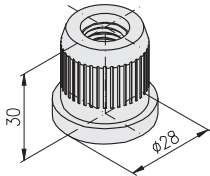
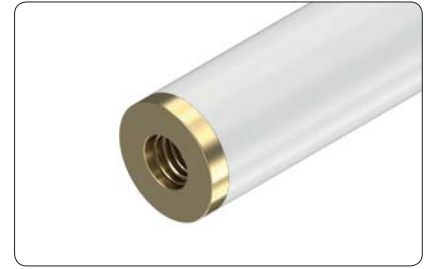


Technical data
material: steel



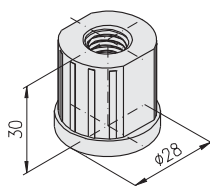
Description	wall thickness	Weight	Product No.
End plug for stainless steel pipes	0.7	7 g	21.14.04.07
End plug for stainless steel pipes	1.2	7 g	21.14.04.12

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

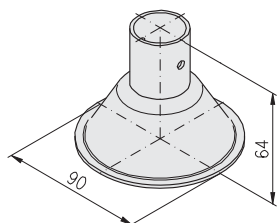
Threaded inserts for stainless steel pipes



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

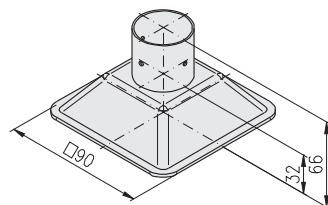


Description	Weight	Product No.
Slip on foot, round	250 g	21.15.01.2

Optional

Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132
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square

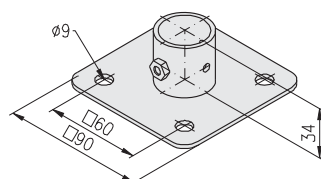


Description	Weight	Product No.
Slip on foot, square	295 g	21.15.02.2

Optional

Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132
--	-----	-------------------

flat

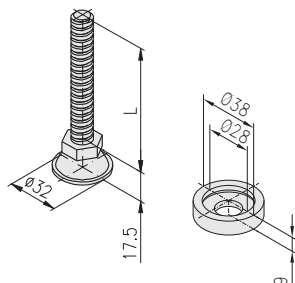


Description	Weight	Product No.
Slip on foot, flat	195 g	21.15.03.2

Optional

Self cutting screw M4.2×13, galvanised white steel	2 g	0.63.7504.4,2x132
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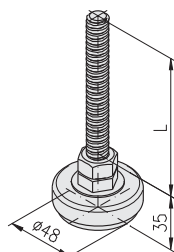
Threaded feet



Technical data

material: steel, galvanised

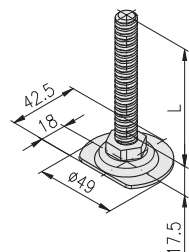
Description	G × L	Weight	Product No.
Threaded foot 32	M12 × 50	75 g	21.15.04.032050.1
Threaded foot 32	M12 × 82	95 g	21.15.04.032082.1
Rubber pad for threaded foot 32		8 g	21.15.04.032PAD



Technical data

material: stainless steel

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

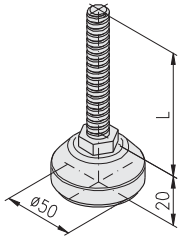


Technical data

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

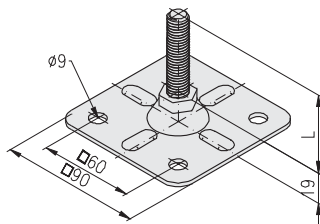


Technical data

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



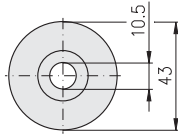
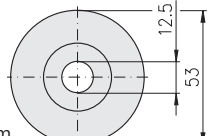
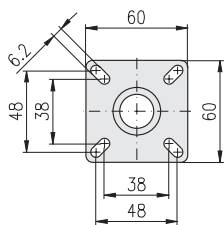
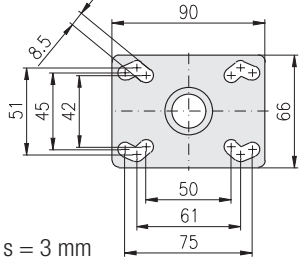
Fixed castor



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

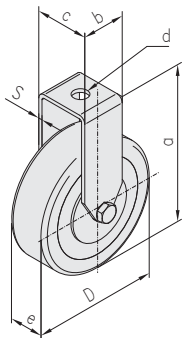


Technical data

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



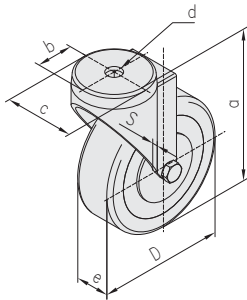
Technical data

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

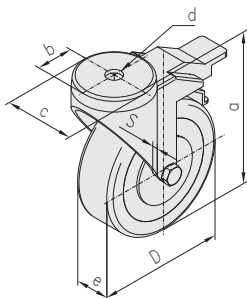
material:

- 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

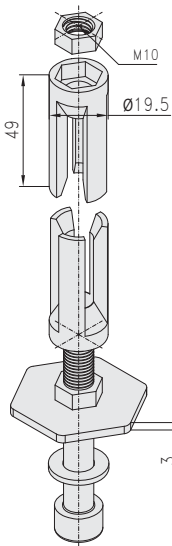
Clamping bush



Application
For mounting of castors



Plastic

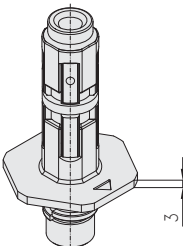


Technical data
material:
clamping bush, base: PA
screw, nut: steel, galvanised

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

new

Steel

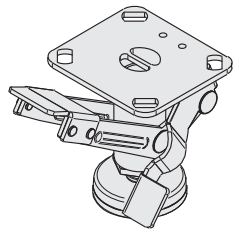


Technical data
material:
clamping bush, base: steel
screw, nut: steel, galvanised

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

new

Break
for use with castor



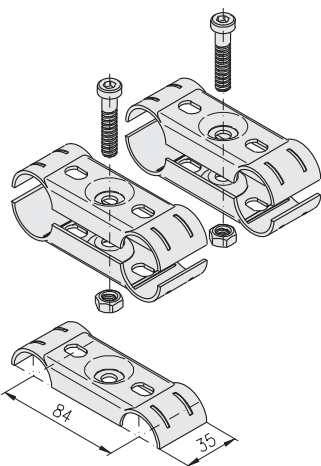
Description	D	Weight	Product No.
Break for castors	Ø100	1,150 g	21.15.18.100
Break for castors	Ø125	1,195 g	21.15.18.125
Break for castors	Ø150	2,455 g	21.15.18.150

Castor mounting sets for castors with mounting plates



Technical data

material: steel, galvanised



Description

Castor mounting set 84

Weight

486 g

Product No.

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

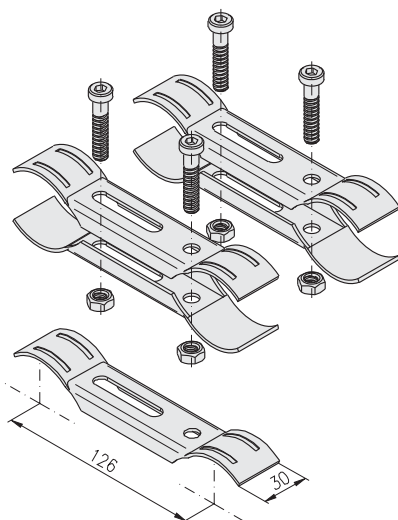
0.63.D06912.08040

Hexagonal nut DIN 934–M8

2

4 g

0.61.D00934.08



Description

Castor mounting set 126

Weight

548 g

Product No.

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

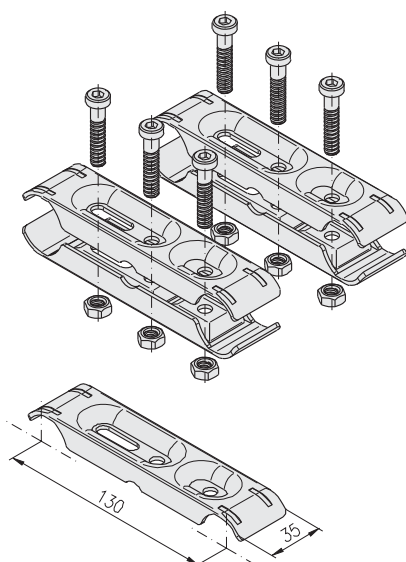
0.63.D06912.08040

Hexagonal nut DIN 934–M8

4

4 g

0.61.D00934.08



Description

Castor mounting set 130

Weight

726 g

Product No.

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

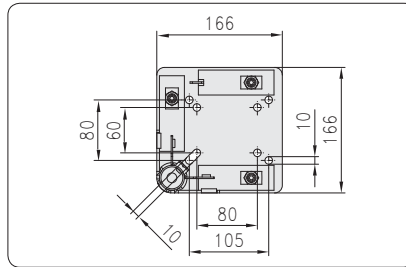
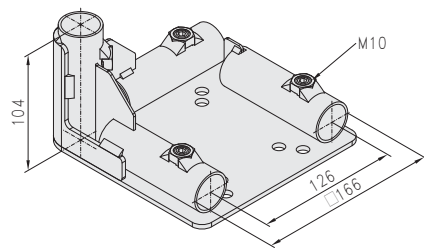
Hexagonal nut DIN 934–M8

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	4.0 g	0.63.0916.10012.1
4 pcs. per footplate required		

new

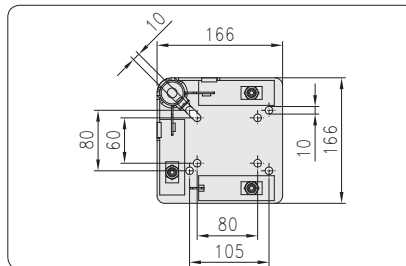
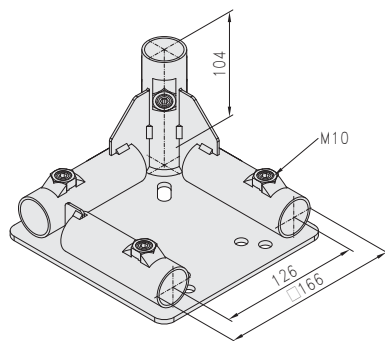
Description	Weight	Product No.
Mounting set for castors	16.8 g	30.15.S1
4 sets per castor required		

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	4.0 g	0.63.D06912.08020
4 pcs. per footplate required		

new

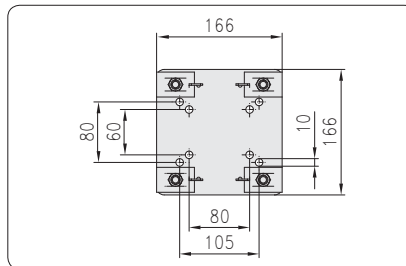
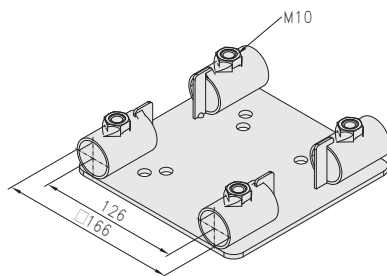
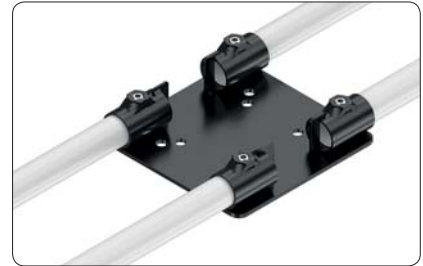
Description	Weight	Product No.
Mounting set for castors	16.8 g	30.15.S1
4 sets per castor required		

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

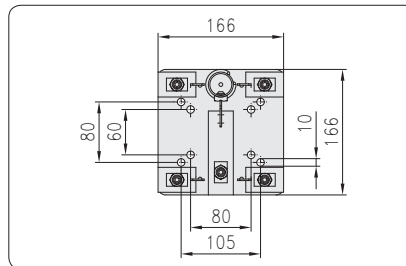
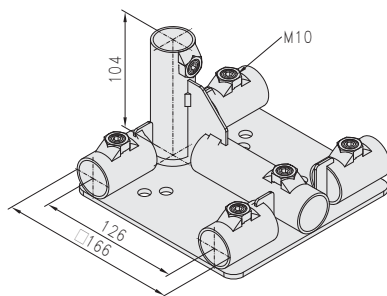
Description	Weight	Product No.
Mounting set for castors 4 sets per castor required	16.8 g	30.15.S1

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

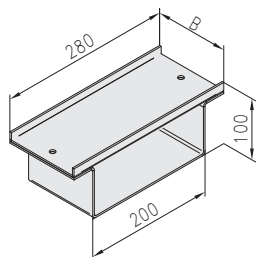
Description	Weight	Product No.
Mounting set for castors 4 sets per castor required	16.8 g	30.15.S1

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

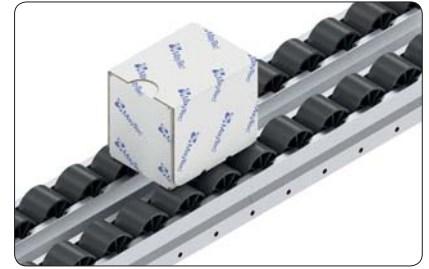


Technical data
material: steel

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

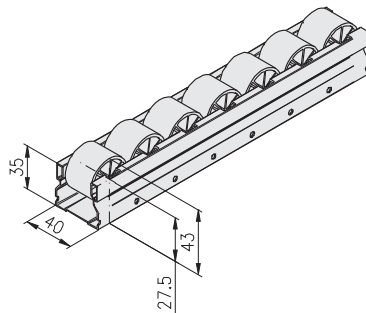
Roller type	Width			
	40	40 low noise	60	85
Standard	 62	 62	 65	 66
		 62		
ESD	 62	 62	 65	
Flat	 63		 65	
	 63		 65	
Edge roller	 64	 64		
	 64	 64		

Roller tracks 40



Technical data

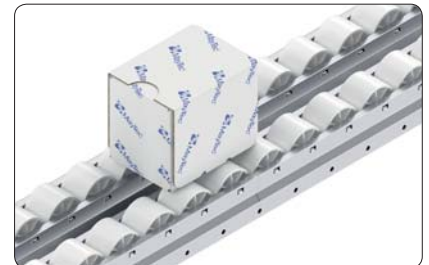
roller-Ø:	31 mm
shaft-Ø:	4 mm
roller distance:	36 mm
height:	43 mm
length:	4 m
load capacity:	150 kg
material:	steel galvanised / Polyethylen



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/...

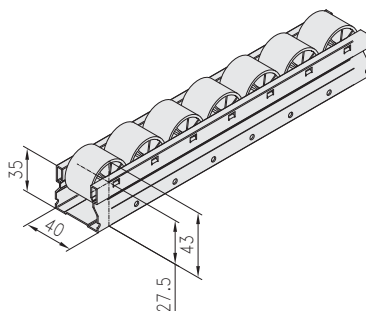
/... = length in mm

Roller tracks 40 low noise (ln)



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 ln	white	length 4 m	4.8 kg	21.16.1.040.12.2.40
Roller track 40 ln	white	cut to length	1.2 kg/m	21.16.1.040.12.2/...
Roller track 40 ln	grey	length 4 m	4.8 kg	21.16.1.040.12.5.40
Roller track 40 ln	grey	cut to length	1.2 kg/m	21.16.1.040.12.5/...
Roller track 40 ln, ESD	black	length 4 m	5.0 kg	21.16.1.040.12.1E.40
Roller track 40 ln, ESD	black	cut to length	1.25 kg/m	21.16.1.040.12.1E/...

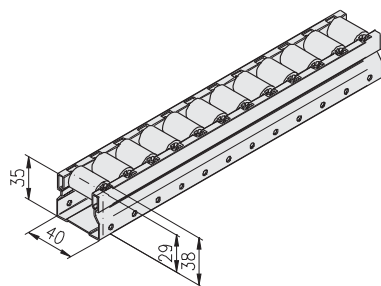
/... = length in mm

Roller tracks 40 flat



Technical data

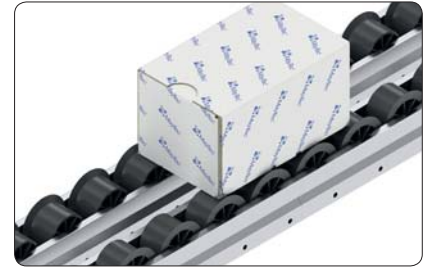
roller-Ø:	18 mm
shaft-Ø:	4 mm
roller distance:	22 mm
height:	38 mm
length:	4 m
load capacity:	150 kg
material:	steel galvanised / Polyethylen



Description	Colour of roller		Weight		Product No.
Roller track 40 flat	white	length 4 m	5.4 kg	21.16.1.040.21.2.40	
Roller track 40 flat	white	cut to length	1.35 kg/m	21.16.1.040.21.2/...	
Roller track 40 flat, ESD	black	length 4 m	5.4 kg	21.16.1.040.21.1E.40	
Roller track 40 flat, ESD	black	cut to length	1.35 kg/m	21.16.1.040.21.1E/...	

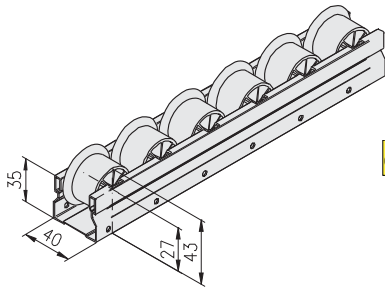
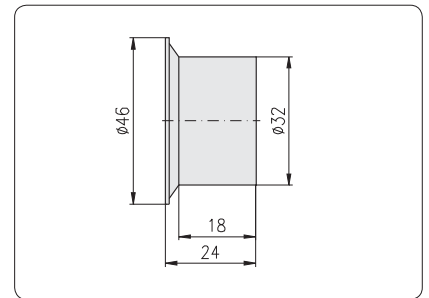
/... = length in mm

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/...

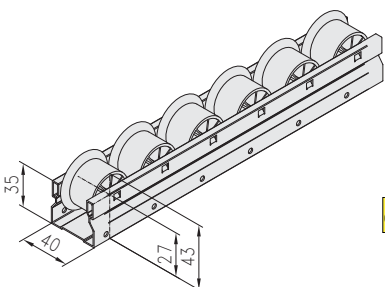
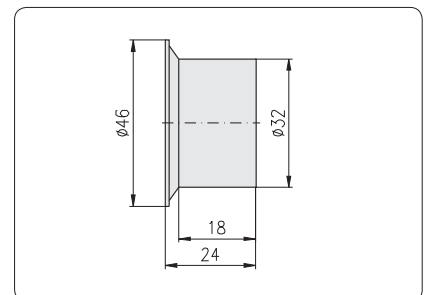
/... = length in mm

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/...

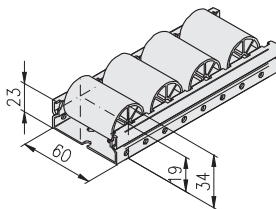
/... = length in mm

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	5.5 kg	21.16.1.060.11.2.40
Roller track 60	white	cut to length	1.375 kg/m	21.16.1.060.11.2/...
Roller track 60, ESD	black	length 4 m	5.5 kg	21.16.1.060.11.1E.40
Roller track 60, ESD	black	cut to length	1.375 kg/m	21.16.1.060.11.1E/...

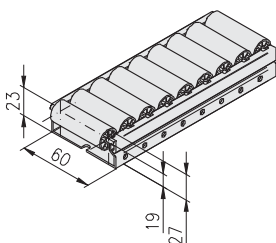
/... = length in mm

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	5.3 kg	21.16.1.060.21.2.40
Roller track 60 flat	white	cut to length	1.325 kg/m	21.16.1.060.21.2/...
Roller track 60 flat, ESD	black	length 4 m	5.3 kg	21.16.1.060.21.1E.40
Roller track 60 flat, ESD	black	cut to length	1.325 kg/m	21.16.1.060.21.1E/...

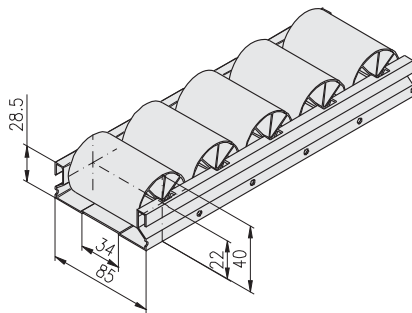
/... = length in mm

Roller track 85



Technical data

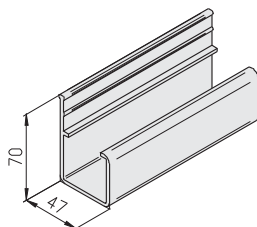
roller-Ø:	36 mm
shaft-Ø:	5 mm
roller distance:	40 mm
height:	40 mm
length:	4 m
load capacity:	300 kg
material:	steel galvanised / Polyethylen



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



Technical data

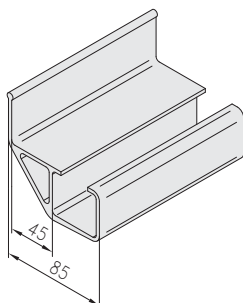
material: PE, ivory
bar length: 3 m

Description

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

/... = length in mm

Side guiding profile with offset



Technical data

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

Description

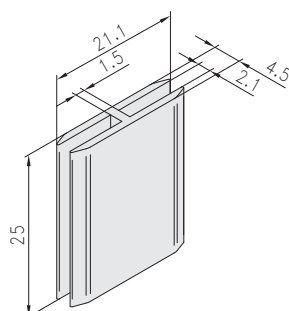
Description	Weight	Product No.
Side guiding profile with offset, white	length 2 m	21.16.2.111.02.20
Side guiding profile with offset, white	length 4 m	21.16.2.111.02.40
Side guiding profile with offset, white	cut to length	0.84 kg/m
Side guiding profile with offset, grey	length 2 m	21.16.2.111.05.20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

/... = length in mm

new

Extension clip

for side guiding profile with offset



Technical data

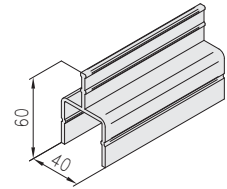
material: PVC, impact resistant
colour: white

Description

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

new

Center guiding profile



Technical data

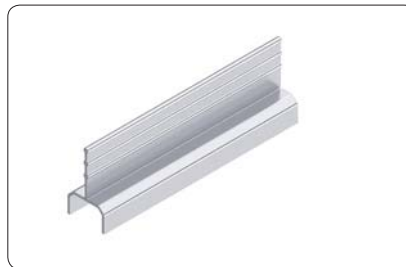
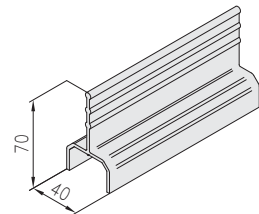
material: PE
bar length: 3 m

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



Technical data

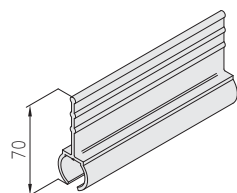
material: Aluminium
bar length: 2 m / 4 m

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



Technical data

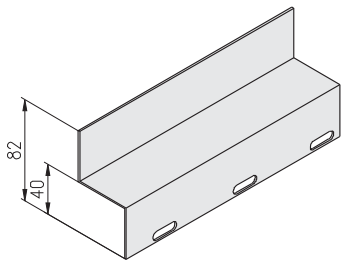
material: Aluminium
bar length: 2 m / 4 m

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

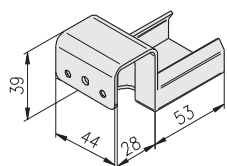
material: steel,
- ivory
- black powder-coated ESD
bar length: 1.5 m

Description		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



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

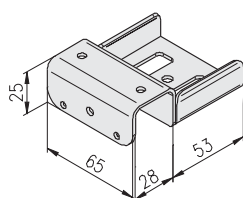
Weight

129 g

Product No.

21.16.3.10F.040

60



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

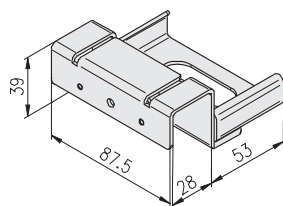
Weight

193 g

Product No.

21.16.3.10F.060

85



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

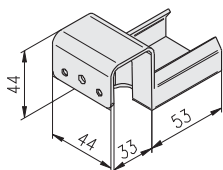
Weight

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

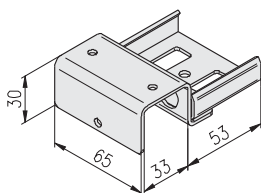
Weight

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

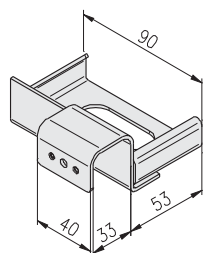
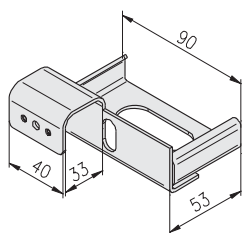
Weight

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

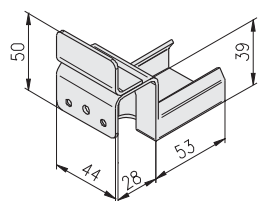
212 g

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

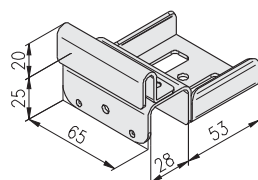
Weight

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

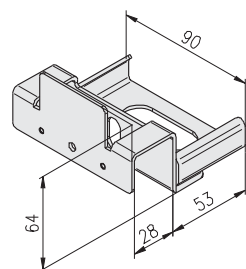
Weight

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

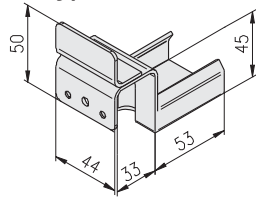
Weight

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

Roller track support 40 with stop, type B

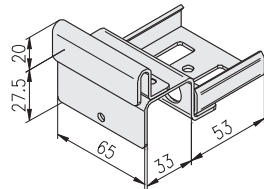
Weight

180 g

Product No.

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

Roller track support 60 with stop, type B

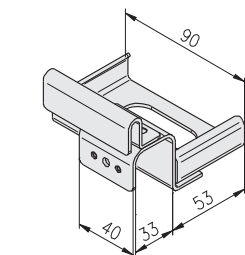
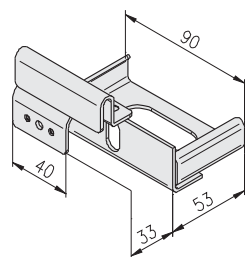
Weight

232 g

Product No.

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

Roller track support 85 with stop, type B, left

Weight

265 g

Product No.

21.16.3.21F.085L

Description

Roller track support 85 with stop, type B, right

Weight

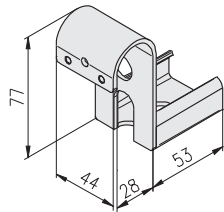
265 g

Product No.

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

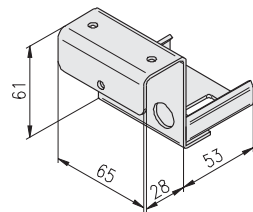
Weight

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

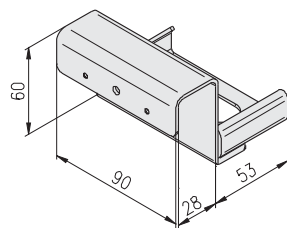
Weight

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

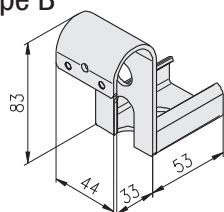
Weight

291 g

Product No.

21.16.3.30F.085

Roller track supports with offset overlapping joint 40 type B



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

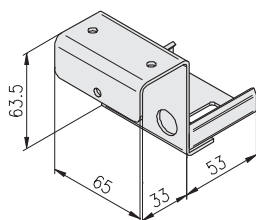
Weight

170 g

Product No.

21.16.3.31R.040

60 type B



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

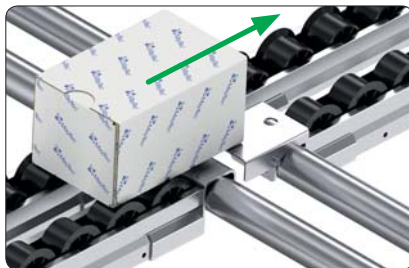
Weight

218 g

Product No.

21.16.3.31F.060

Roller track supports with return stop



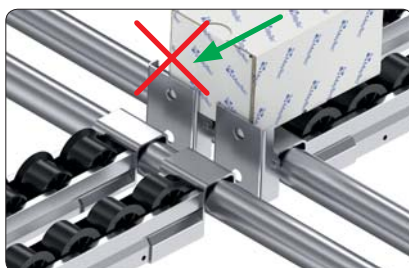
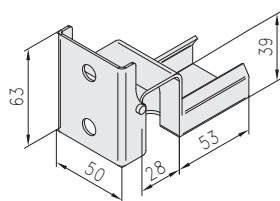
Technical data

material: steel galvanised

Optional

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

40



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

Description

Roller track support 40 with return stop

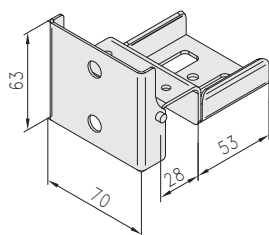
Weight

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

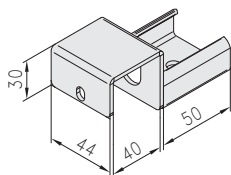
230 g

Product No.

21.16.3.32F.060

Roller track supports for profiles

40



Technical data

material: steel galvanised

Description

Roller track support 40 for profiles

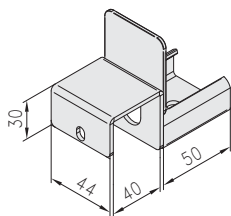
Weight

110 g

Product No.

21.16.3.P10.040

40 with stop



Technical data

material: steel galvanised

Description

Roller track support 40 for profiles with stop

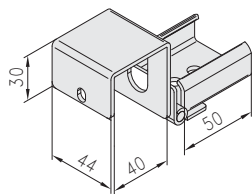
Weight

150 g

Product No.

21.16.3.P20.040

40 foldable



Technical data

material: steel galvanised

Description

Roller track support 40 for profiles, foldable

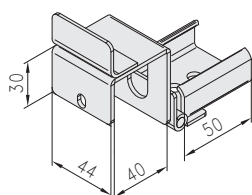
Weight

215 g

Product No.

21.16.3.P30.040

40 foldable, with stop



Technical data

material: steel galvanised

Description

Roller track support 40 for profiles, foldable, with stop

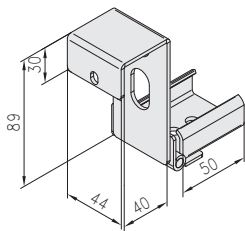
Weight

247 g

Product No.

21.16.3.P40.040

40 foldable, with offset



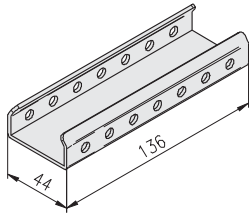
Technical data
material: steel galvanised

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

Description	Weight	Product No.
Roller track support 40 for profiles, foldable, with offset	234 g	21.16.3.P50.040

Roller track extensions

40


Technical data

material: steel galvanised

Optional

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

Description

Roller track extension 40

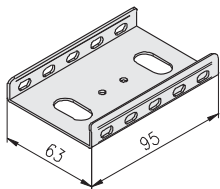
Weight

129 g

Product No.

21.16.3.4.040

60


Technical data

material: steel galvanised

Optional

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

Description

Roller track extension 60

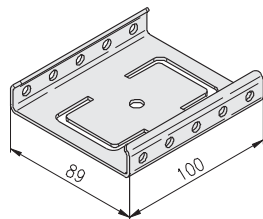
Weight

93 g

Product No.

21.16.3.4.060

85


Technical data

material: steel galvanised

Optional

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

Description

Roller track extension 85

Weight

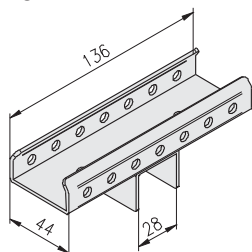
206 g

Product No.

21.16.3.4.085

Roller track supports

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

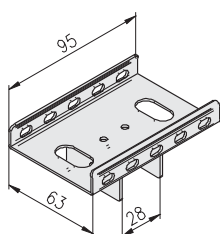
Weight

179 g

Product No.

21.16.3.50F.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

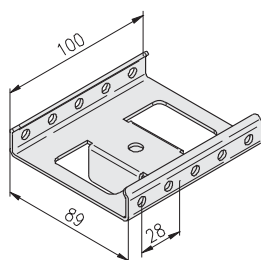
Weight

147 g

Product No.

21.16.3.50F.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

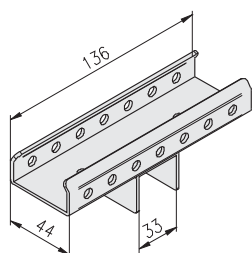
Weight

205 g

Product No.

21.16.3.50F.085

Roller track supports 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

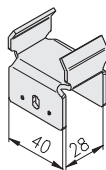
Weight

182 g

Product No.

21.16.3.51F.040

Roller track supports, short 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, short

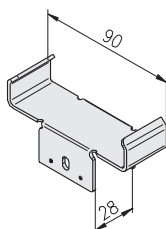
Weight

73 g

Product No.

21.16.3.60F.040

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, short

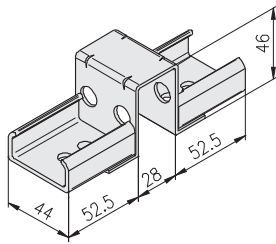
Weight

96 g

Product No.

21.16.3.60F.085

Roller track bridges 40



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

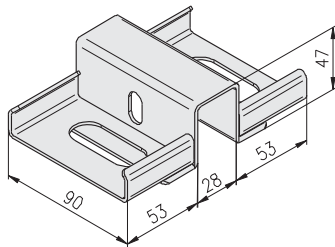
Weight

248 g

Product No.

21.16.3.70F.040

85



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

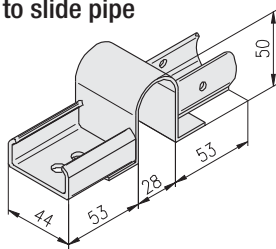
Weight

297 g

Product No.

21.16.3.70F.085

Adapter bridge 40 for conversion from roller track to slide pipe



Technical data

material: steel galvanised

Optional

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

Description

Adapter bridge 40

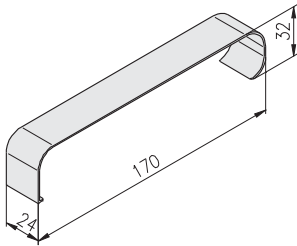
Weight

240 g

Product No.

21.16.3.80F.040

Roller track brakes



Technical data

material: steel galvanised

Description

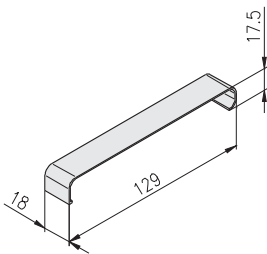
Roller track brake 40

Weight

40 g

Product No.

21.16.4.01



Technical data

material: steel galvanised

Description

Roller track brake 40 flat

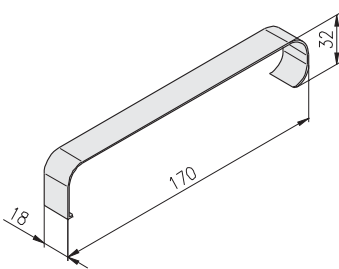
Weight

26 g

Product No.

21.16.4.02

Roller track brake for roller track 40 with edge rollers



Technical data

material: steel galvanised

Description

Roller track brake for roller track 40 with edge rollers

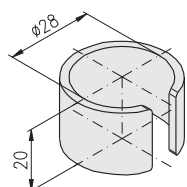
Weight

35 g

Product No.

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

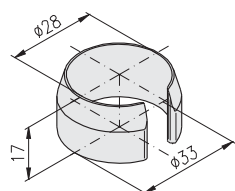
Plastic pipe collar, black, ESD

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

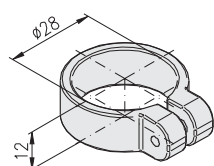
Sleeve, black, ESD

4 g

21.17.01.02.01E



Bolted pipe collars



Technical data

material: PE

Description

Bolted pipe collar, black

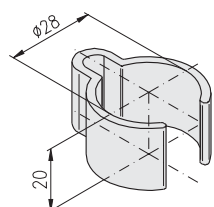
Weight

4 g

Product No.

21.17.01.03.01

Pipe hanger



Application

for label holder

Technical data

material: PE

Description

Pipe hanger, black

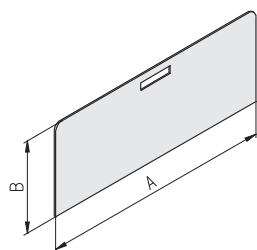
Weight

6 g

Product No.

21.17.01.04.01

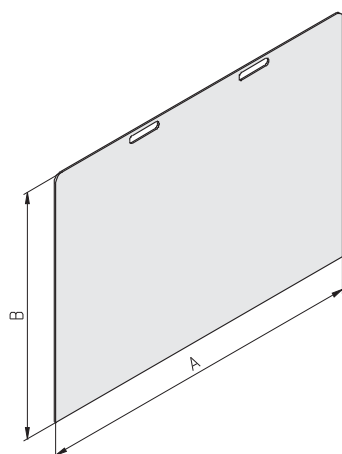
Label holder



Technical data

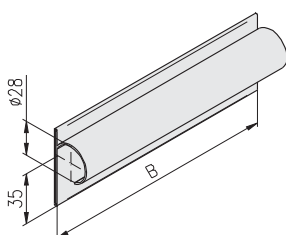
material: plastic, transparent

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

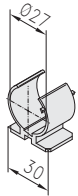


Technical data

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

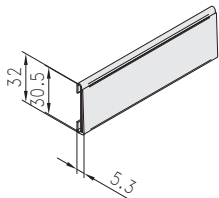


Technical data

material: PVC, transparent

Description	Weight	Product No.
Label clip	7 g	21.17.03.2.00

Label strip 32



Technical data

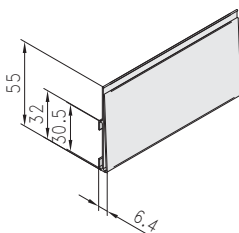
material: PVC, transparent

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

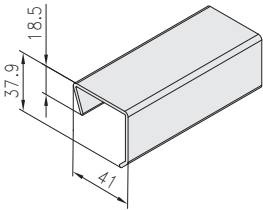
material: PVC, transparent

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/...

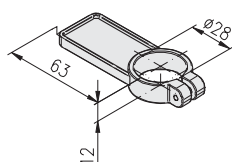
/... = length in mm

new

Position retainer



Technical data
material: PE



Description

Position retainer 63, black

Weight

11 g

Product No.

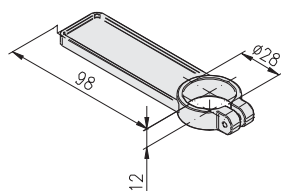
21.17.04.063.01



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

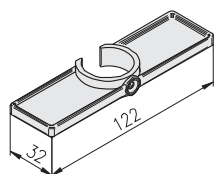
16 g

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

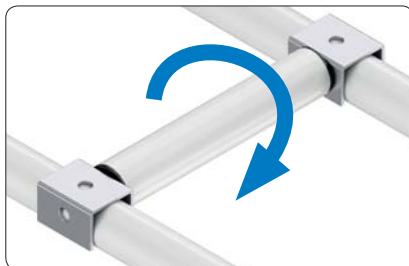
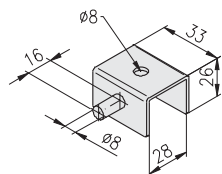


Double-sided position retainer, black, ESD

15 g

21.17.04.122.01E

Roller fixture single-sided



Technical data

material: steel, galvanised

Description

Roller fixture, single-sided

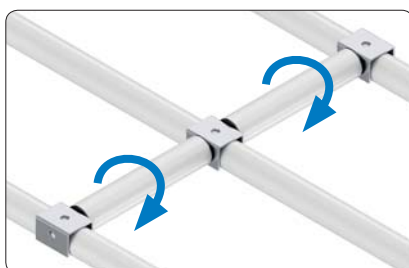
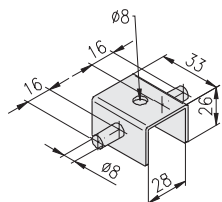
Weight

48 g

Product No.

21.17.05.01

double-sided



Description

Roller fixture, double-sided

Weight

59 g

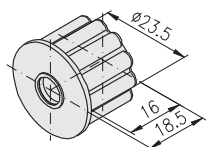
Product No.

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

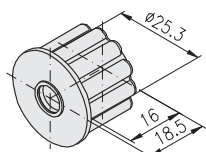


Roller bushing for ABS coated pipes, 1.0 mm, black, ESD

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



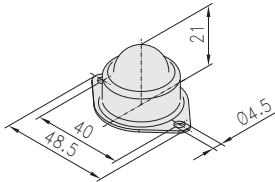
Roller bushing for stainless steel pipe, 1.2 mm, black, ESD

9 g

21.17.05.04.01E

Ball castors

21



Technical data

material: steel

Description

Ball castor 21

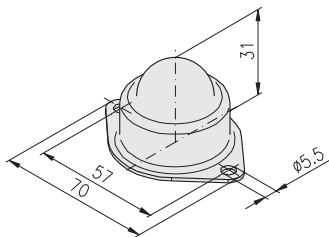
Weight

45 g

Product No.

21.17.06.021

31



Description

Ball castor 31

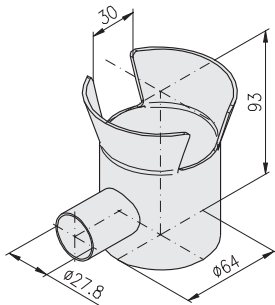
Weight

141 g

Product No.

21.17.06.031

Tool holder

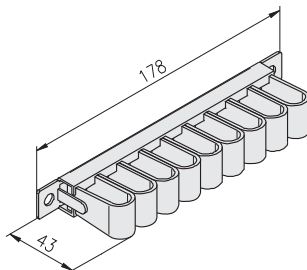


Technical data

material: steel, black

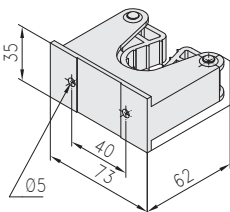
Description	Weight	Product No.
Tool holder	221 g	21.17.08.01

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

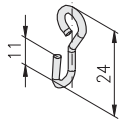
Hook

24



Technical data

material: steel, powder coated



Description

Hook 24

Weight

1 g

Product No.

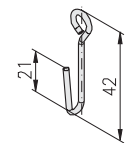
21.17.09.01

42



Technical data

material: steel, powder coated



Description

Hook 42

Weight

2 g

Product No.

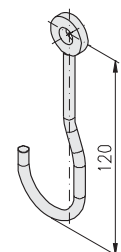
21.17.09.02

100



Technical data

material: steel, nickel plated



Description

Hook 100

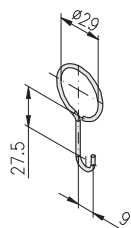
Weight

47 g

Product No.

21.17.09.03

Ring hook

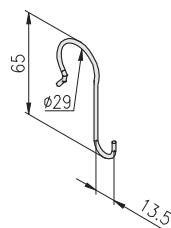


Technical data

material: steel, nickel plated

Description	Weight	Product No.
Ring hook	6 g	21.17.09.04

Hang up hook

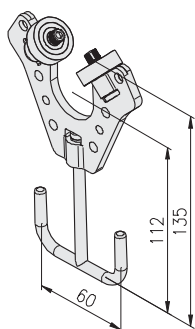


Technical data

material: steel, nickel plated

Description	Weight	Product No.
Hang up hook	5 g	21.17.09.05

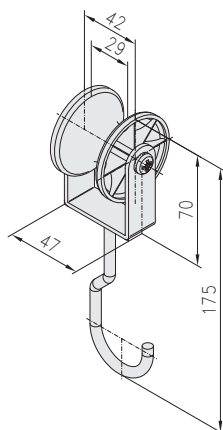
Sliding hooks



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

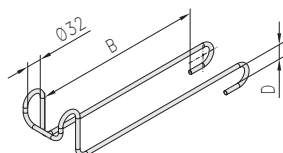
Description	Weight	Product No.
Sliding hook, PA	130 g	21.17.09.07

Tilt rails



Technical data

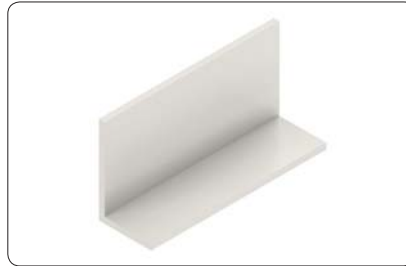
material: steel, nickel plated



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

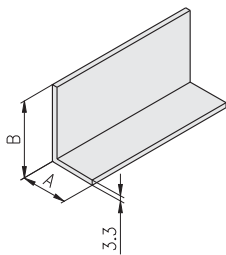
L-profiles

3.3



Technical data

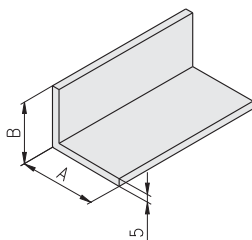
material: PE



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

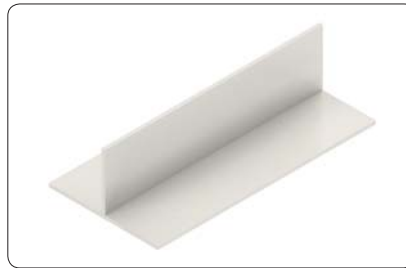
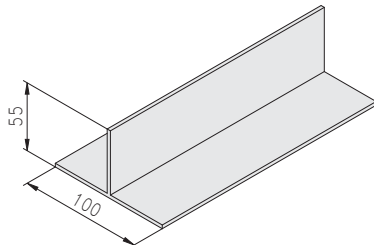
5



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



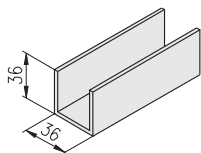
Technical data

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



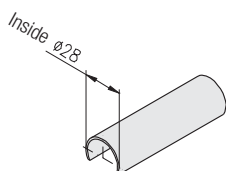
Technical data

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



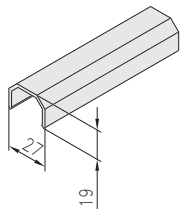
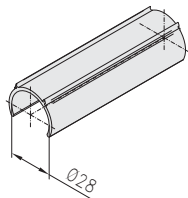
Technical data

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

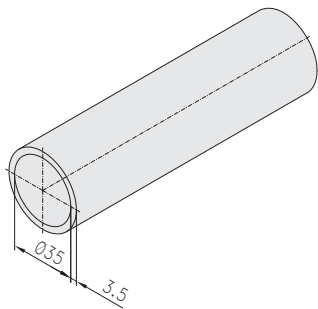
Description		Weight	Product No.
Cable duct cover	length 3 m	0.6 kg	21.17.16.02.30
Cable duct cover	cut to length	0.2 kg/m	21.17.16.02/...

/... = length in mm

Conduit



Technical data
material: PE
colour: grey

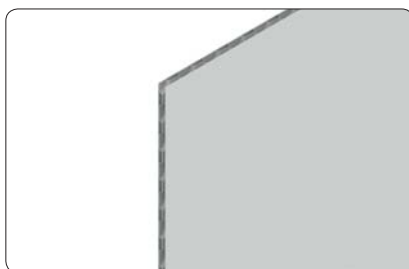
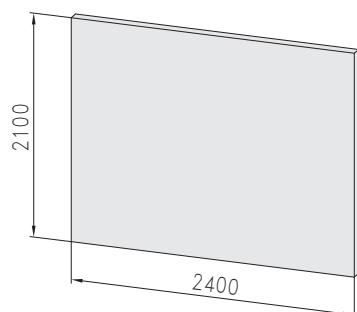


Description		Weight	Product No.
Conduit	length 2 m	0.76 kg	21.17.17.05.20
Conduit	cut to length	0.38 kg/m	21.17.17.05/...

/... = 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



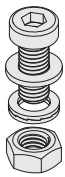
Description	Weight	Product No.
Socket head cap screw DIN 6912, M8×40, galvanised white steel	17 g	0.63.D06912.08040
Hexagonal nut DIN 934 - M8	4 g	0.61.D00934.08

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

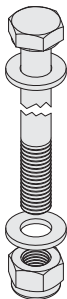


Description	Weight	Product No.
Mounting set for castors	16.8 g	30.15.S1

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

Pipe cutter for ABS coated pipes with Ø28-32 mm

Weight

335 g

Product-No.

21.99.01

new



Description

Pipe cutter for stainless steel pipes with Ø28-32 mm

Weight

1.100 g

Product-No.

21.99.02

new

Pipe deburrer



Description

Pipe deburrer for inner and outer diameter up to Ø32 mm

Weight

190 g

Product-No.

21.99.10

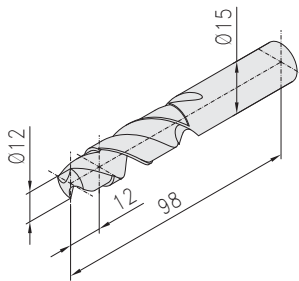
new

Step drills for cross bushing



Technical data

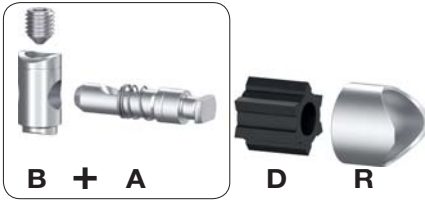
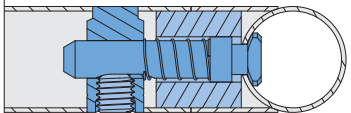
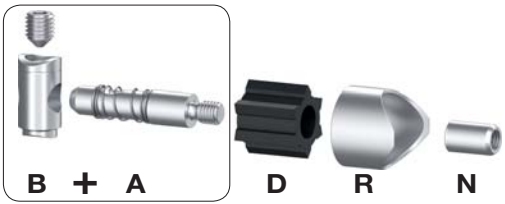
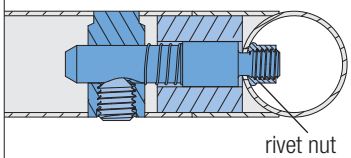
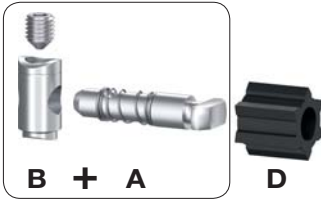
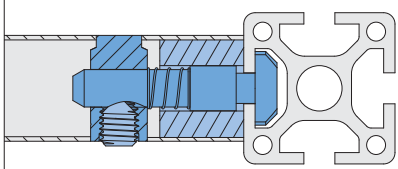
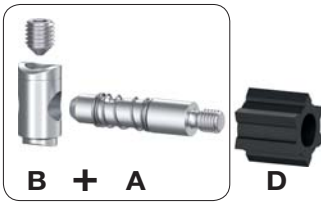
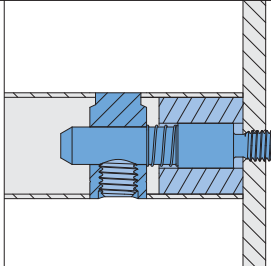
material: HSS or VHM
2 cutting edges
off-centre cutting edges



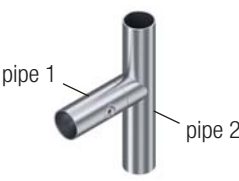
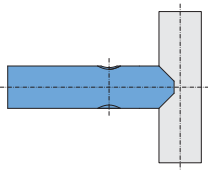
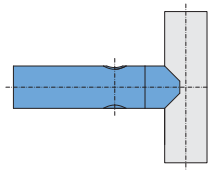
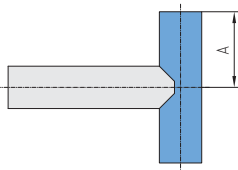
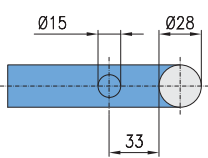
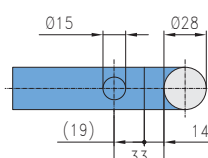
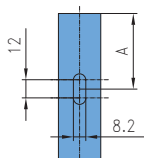
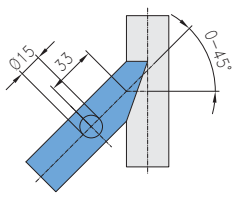
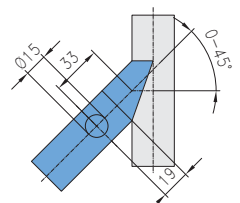
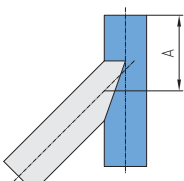
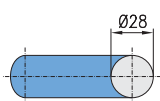
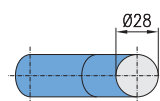
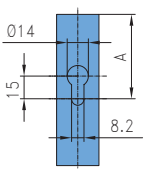
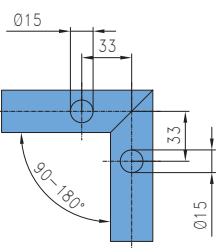
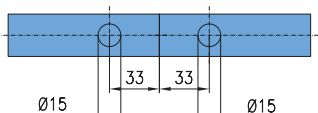
Description	Weight	Product-No.
Step drill, HSS	109 g	21.99.0321512HSS
Step drill, VHM	109 g	21.99.0321512VHM



Patent pending

Connection	Connector	
Ø28 Pipe ⇒ Ø28 Pipe 	 B + A D R	
Ø28 Pipe ⇒ Pipe profile Ø28 (with slot) 	 B + A D R N	 rivet nut
Ø28 Pipe ⇒ Profile (with slot) 	 B + A D	
Ø28 Pipe ⇒ Panel element 	 B + A D	

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

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

Connection w/o intermediary			Connector			Connector sleeve		
	Wall thickness Pipe 1			Product-No.			Product-No.	
				steel standard	VA E			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			Connector			Connector sleeve		
	Wall thickness Pipe 1			Product-No.			Product-No.	
				steel standard	E VA			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.M28S1028T11	V		21.MD28S10TP	•
		2.0		21.M28S2028T11	V		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.M28S1028T12	V		21.MD28S10TP	•
		2.0		21.M28S2028T12	V		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.M28S1028K11	V		21.MD28S10KA	•
		2.0		21.M28S2028K11	V		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.M28S1028K12	V		21.MD28S10KA	•
		2.0		21.M28S2028K12	V		21.MD28S20KA	•

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
 01 = black
 02 = white

03 = ivory
 04 = dark grey
 05 = light grey

06 = dark blue
 07 = light blue
 08 = green

09 = red
 10 = yellow

/□□ = Angle

Connection w/o intermediary			Connector						Connector sleeve		
			Product-No. for connector with						Product-No.		
			F-head			E-head					
Wall thickness Pipe 1			steel standard	E	VA	steel standard	E	VA			
Universal 	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	•
Standard 	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	•
90° 	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	•
Oblique -hinge l+r 	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	•
Oblique 90° -hinge 	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		Connector			Distanz-Buchse		
Standard	Wall thickness Pipe 1		Product-No.			Product-No.	
			steel	VA			
			standard	E			PA AL
	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		

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

Single parts	
Anchor	
Base with spring	
Cross bushing	
Base with setscrew	

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

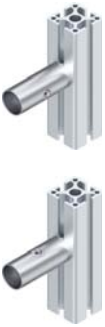
	Cross bushing, VA	21.MB1228V12V	21.MB1228A20V

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

Single parts	
Anchor	
Base with spring	
Cross bushing	
Base with setscrew	

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

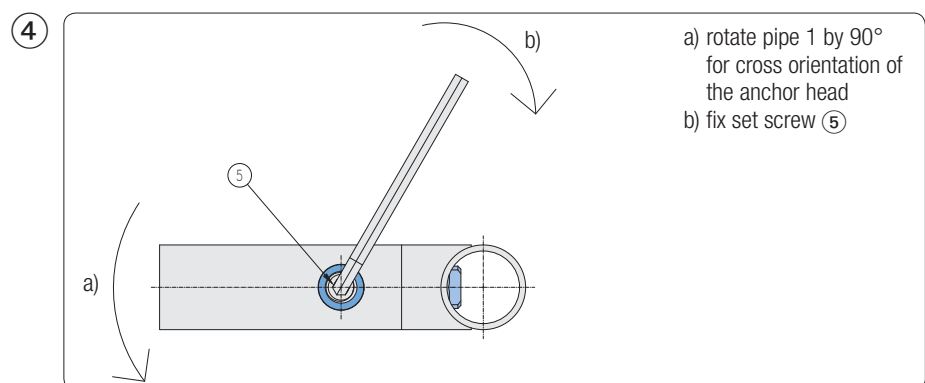
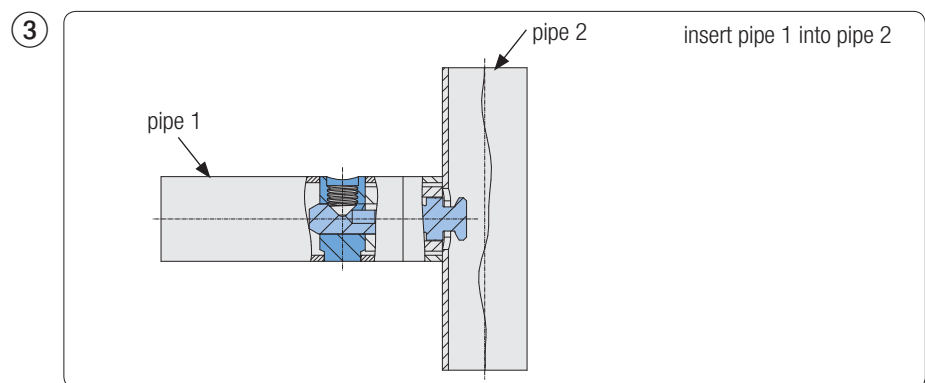
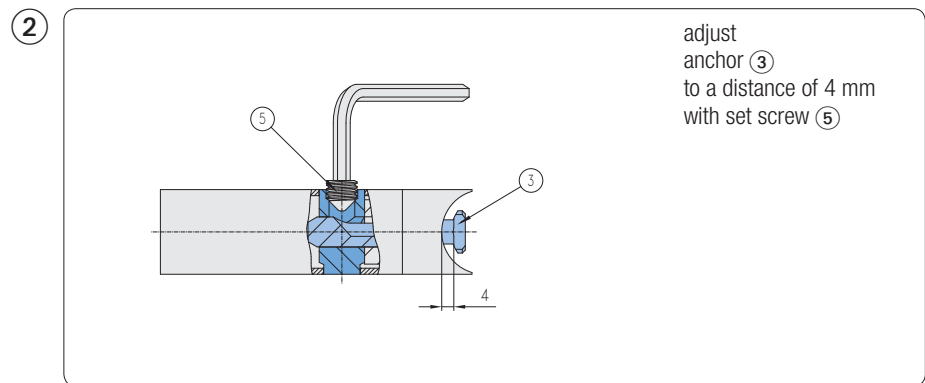
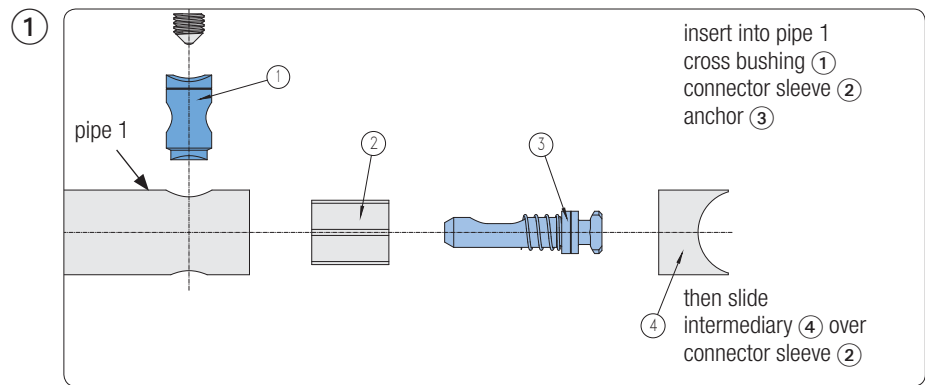
E = ground connector, VA = Stainless steel 1.4305

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

Single parts	
Anchor	
Base with spring	
Cross bushing	
Base with setscrew	

Pipe connector, Standard with intermediary



Material trolley, stainless steel



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to success

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