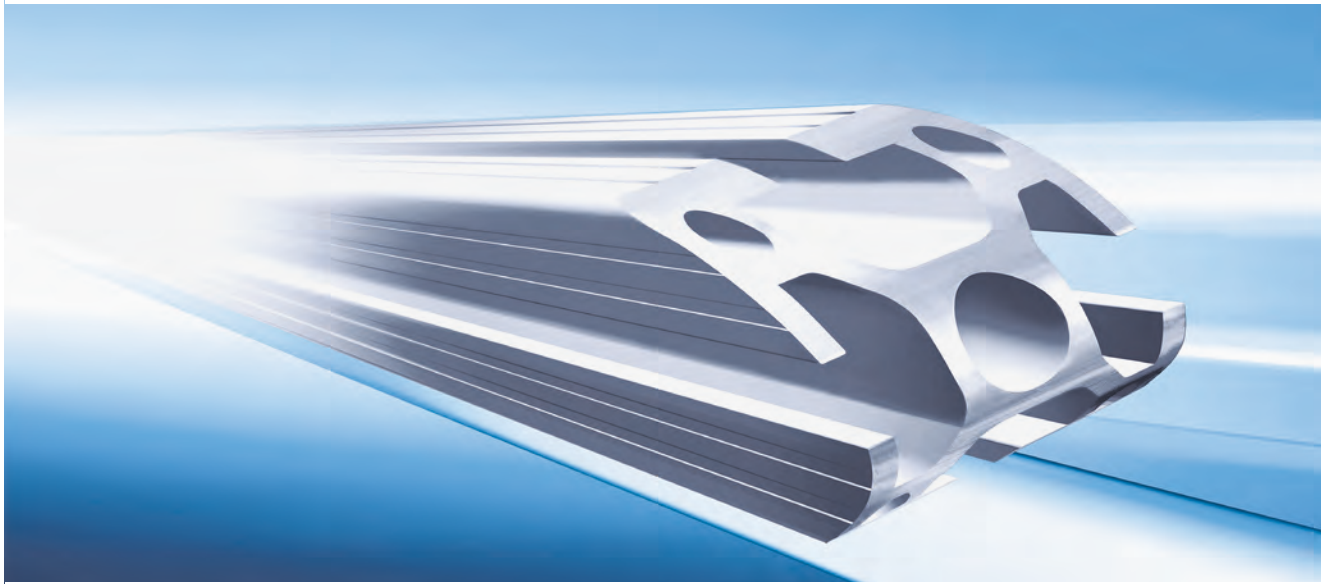


## » The Pipe & Joint System

GB  
1/2023

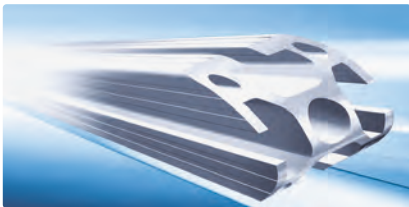
 **MayTec<sup>®</sup>**

## The key ...



## » The Profile System

powered by  
**MayCAD**  
Design Software



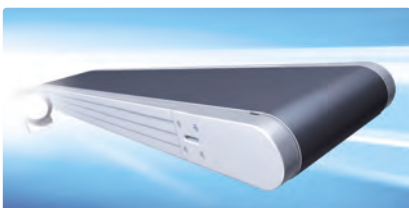
The Profile System



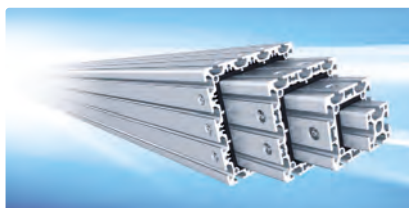
The Clean-Room System



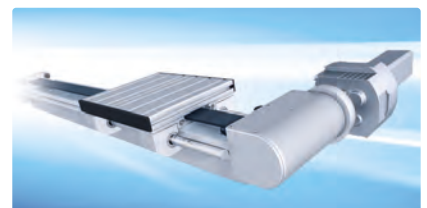
The Tube Clamping System



The Conveyor System



The Telescopic System



The Linear System



The Personnel Transfer System



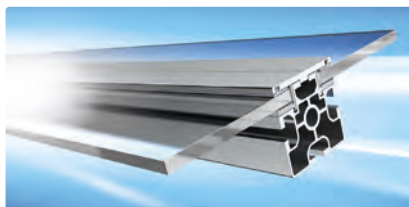
The Skid Transfer System



The Dust Protection System



Safety Barriers

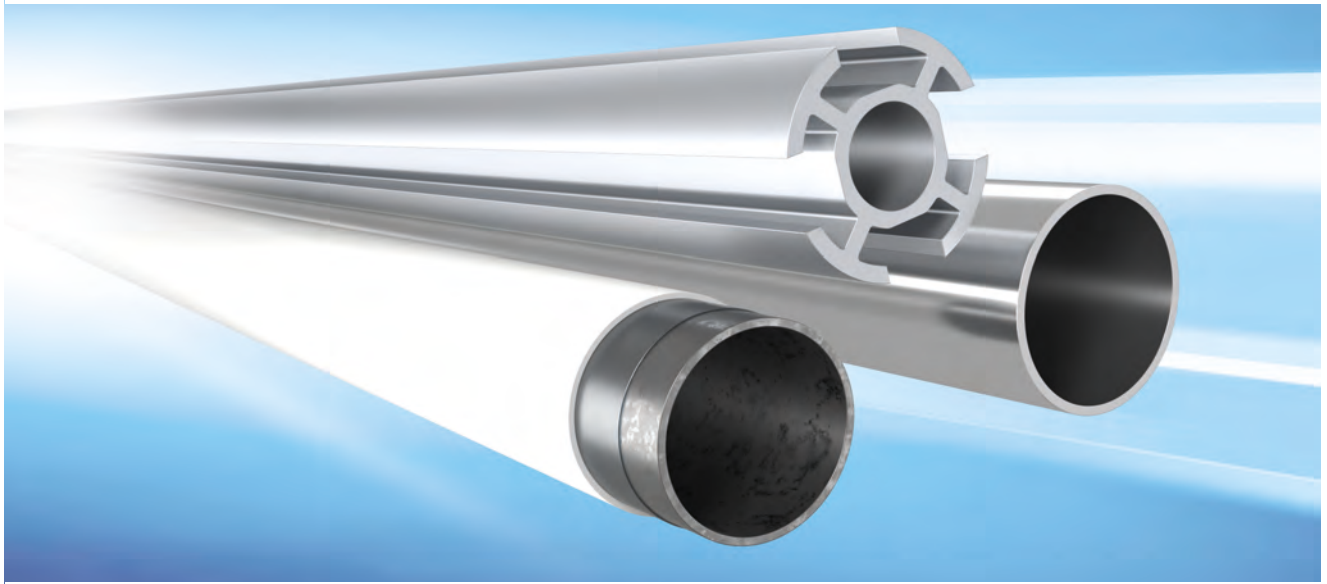


The Modular Wall System



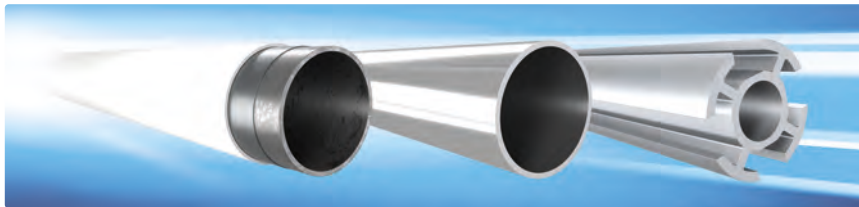
Noise Resist

... to success !



## » The Pipe & Joint System

powered by  
**MayTube**  
 Design Software



The Pipe & Joint System



The Trailer System

### The ideal modular system

MayTec offers a comprehensive, harmonised modular system. All modules 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 modular system.

You may choose:

- delivery of standard elements ex-factory
- delivery of profiles, pipes 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


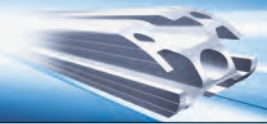
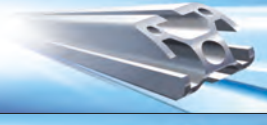



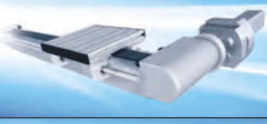
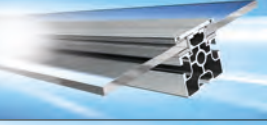


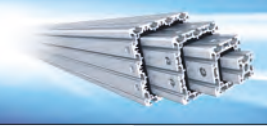

The MayTec modular system is easy to process and quick to assemble. Its flexible and modular construction means it can be easily modified and is reusable at any time.

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.

### Applications

- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li>• assembly and inspection stations</li> <li>• display systems</li> <li>• exhibition cabinets and stands</li> <li>• FiFo shelves</li> <li>• flow shelves</li> </ul> | <ul style="list-style-type: none"> <li>• machine bases</li> <li>• machine enclosures</li> <li>• machine guarding</li> <li>• partitions and protective walls</li> <li>• plant equipment</li> </ul> | <ul style="list-style-type: none"> <li>• protective and work cabinets</li> <li>• sequence trolleys</li> <li>• special shelves</li> <li>• transfer and supply trolleys</li> <li>• work stations</li> </ul> |
|---|---|---|



	Title	DE	GB	FR	ES	IT	CZ
	Product Summary	•	•	•	•	•	•
	The Profile System	•	•	•	•	•	
	The Inch System		•				
	The Pipe & Joint System	•	•		•	•	
	The Trailer System	•	•			•	
	The Conveyor System	•	•	•		•	
	The Linear System	•	•				
	The Modular Wall System	•	•			•	
	Safety Barriers	•	•				
	The Tube Clamping System	•					
	The Telescopic System	•	•			•	
	MayCAD / MayTube	•	•	•	•	•	

 Download at <http://maytec.com.de>



## Offline

<b>MayCAD</b> Design Software
3D CAD-Tool for The Profile System
3D configuration module for The Conveyor System

Free download at:

<http://maytec.com.de/index.php?id=21>

System requirements

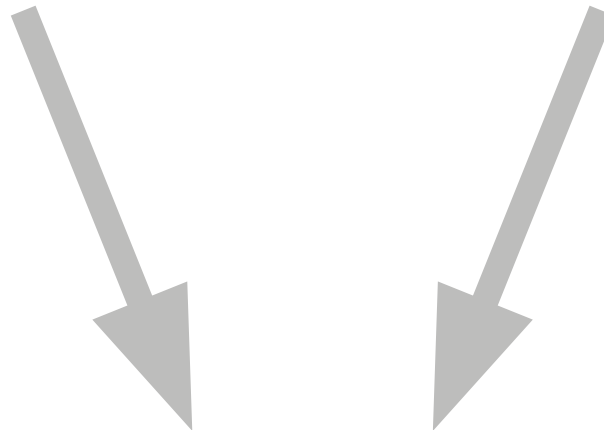
- Microsoft Windows
- Graphics card with OpenGL (from version 3.3)

## Online

<b>MayTube</b> Design Software
3D CAD-Tool for The Pipe & Joint System

Link:

<https://may-tube.com>



In preparation:

## Offline

<b>MayCAD</b> Design Software
3D CAD-Tool for The Profile System <b>and</b> The Pipe & Joint System
3D configuration module for The Conveyor System

# MayCAD

Design Software

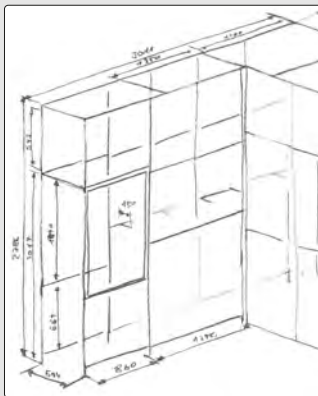
Offline 3D CAD-Tool

- Free to use
- Easy to install
- 80% faster
- Export function for 3D models and parts list

## Sample

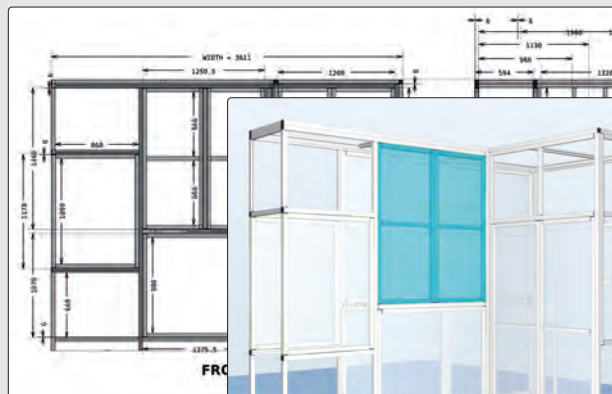
Machine enclosure

Complete in 20 min. ... Ready



Hand sketch

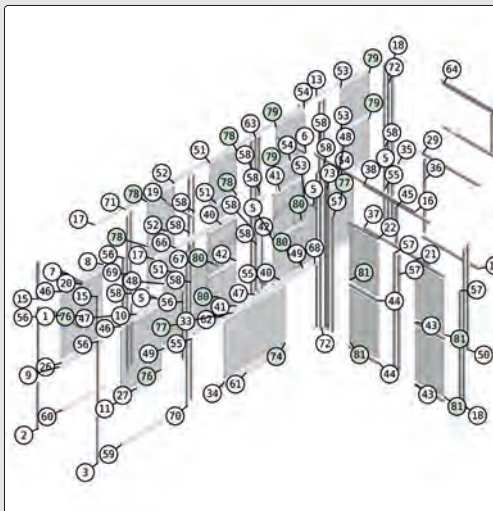
Input in  
MayCAD



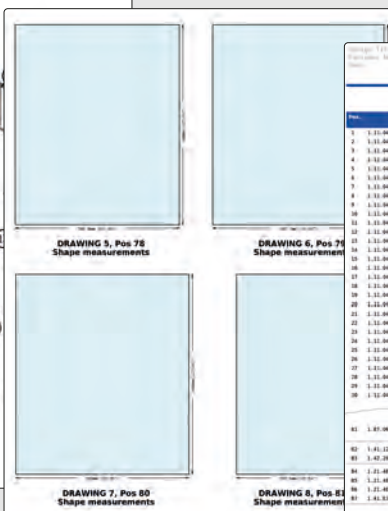
Dimensional  
drawing



3D view



Exploded view with part numbers



Detailed drawings for all  
panel elements

Bill of materials											
Pos.	Bezeichnung	Material	Menge	Einheit	Preis	Wert	Material	Menge	Einheit	Preis	Wert
1	1.11.00000.232P-AN00027000	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
2	1.11.00000.232P-AN00027100	Profil Aluminium, 16, Isolare, elox.	100	m	12.79	1279.00					
3	1.11.00000.232P-AN00027200	Profil Aluminium, 16, Isolare, elox.	100	m	12.79	1279.00					
4	1.11.00000.232P-AN00027300	Profil Aluminium, 16, Isolare, elox.	100	m	12.79	1279.00					
5	1.11.00000.232P-AN00027400	Profil Aluminium, 16, Isolare, elox.	100	m	12.79	1279.00					
6	1.11.00000.232P-AN00027500	Profil Aluminium, 16, Isolare, elox.	100	m	12.79	1279.00					
7	1.11.00000.232P-AN00027600	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
8	1.11.00000.232P-AN00027700	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
9	1.11.00000.232P-AN00027800	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
10	1.11.00000.232P-AN00027900	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
11	1.11.00000.232P-AN00028000	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
12	1.11.00000.232P-AN00028100	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
13	1.11.00000.232P-AN00028200	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
14	1.11.00000.232P-AN00028300	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
15	1.11.00000.232P-AN00028400	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
16	1.11.00000.232P-AN00028500	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
17	1.11.00000.232P-AN00028600	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
18	1.11.00000.232P-AN00028700	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
19	1.11.00000.232P-AN00028800	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
20	1.11.00000.232P-AN00028900	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
21	1.11.00000.232P-AN00029000	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
22	1.11.00000.232P-AN00029100	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
23	1.11.00000.232P-AN00029200	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
24	1.11.00000.232P-AN00029300	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
25	1.11.00000.232P-AN00029400	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
26	1.11.00000.232P-AN00029500	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
27	1.11.00000.232P-AN00029600	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
28	1.11.00000.232P-AN00029700	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
29	1.11.00000.232P-AN00029800	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
30	1.11.00000.232P-AN00029900	Profil Aluminium, 20, Isolare, elox.	100	m	12.79	1279.00					
31	1.01.00000.000-AN00011000	Abstreifen Aluminium, 1020x100, elox.	100	m	12.79	1279.00					
32	1.01.00000.000-AN00011100	Abstreifen Aluminium, 1020x100, elox.	100	m	12.79	1279.00					
33	1.01.00000.000-AN00011200	Abstreifen Aluminium, 1020x100, elox.	100	m	12.79	1279.00					
34	1.01.00000.000-AN00011300	Abstreifen Aluminium, 1020x100, elox.	100	m	12.79	1279.00					
35	1.01.00000.000-AN00011400	Abstreifen Aluminium, 1020x100, elox.	100	m	12.79	1279.00					
36	1.01.00000.000-AN00011500	Abstreifen Aluminium, 1020x100, elox.	100	m	12.79	1279.00					
37	1.01.00000.000-AN00011600	Abstreifen Aluminium, 1020x100, elox.	100	m	12.79	1279.00					
38	1.01.00000.000-AN00011700	Abstreifen Aluminium, 1020x100, elox.	100	m	12.79	1279.00					
39	1.01.00000.000-AN00011800	Abstreifen Aluminium, 1020x100, elox.	100	m	12.79	1279.00					
40	1.01.00000.000-AN00011900	Abstreifen Aluminium, 1020x100, elox.	100	m	12.79	1279.00					
Totalmenge: 320.00 kg (100.00 Stk)										Totalwert: 4100.00	

Parts list with calculations

## MayCAD

Download link:

[www.maytec.de/index.php?id=21](http://www.maytec.de/index.php?id=21)

# MayCAD

Design Software

Offline 3D configuration module  
for layout planning

- Free to use
- Easy to install
- Export function for 3D model

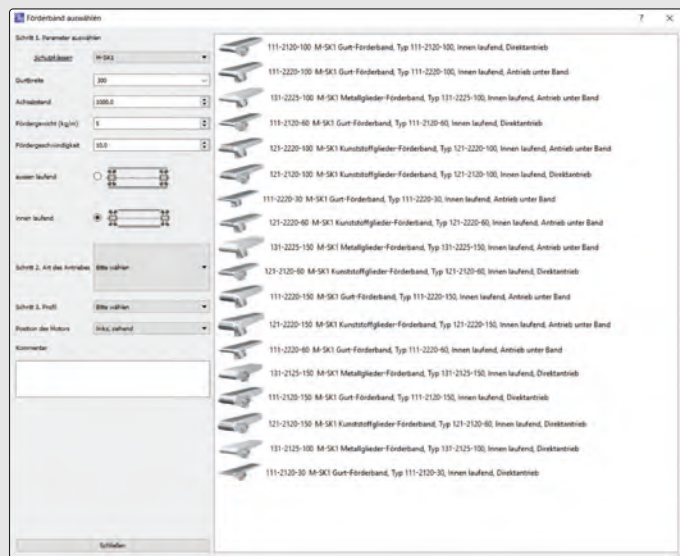
## Sample

M-SK1 Belt conveyor  
Type 111-2220-100

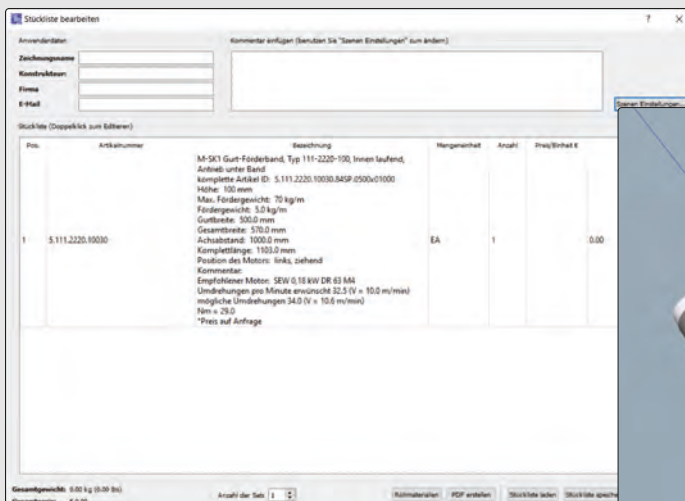
- running inside
- drive under belt

Complete in 2 min. ... Ready

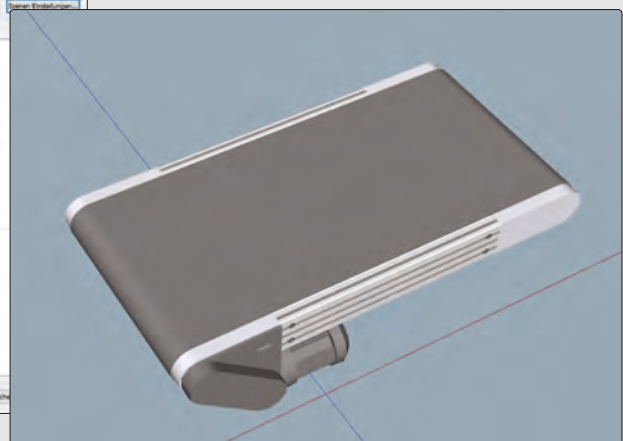
Configuration in  
MayCAD



Conveyor configuration



Article number with description



3D model for use in CAD systems

## MayCAD

Download link:

[www.maytec.com.de/index.php?id=21](http://www.maytec.com.de/index.php?id=21)



# MayTube

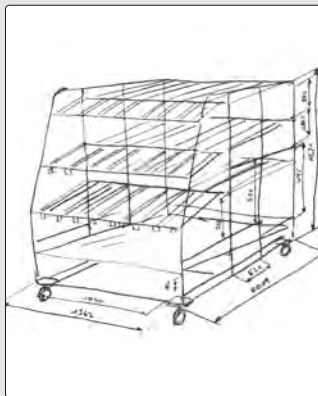
Design Software

Online 3D CAD-Tool

- Free to use
- No software installation required
- 80% faster
- Export function for 3D models and parts list

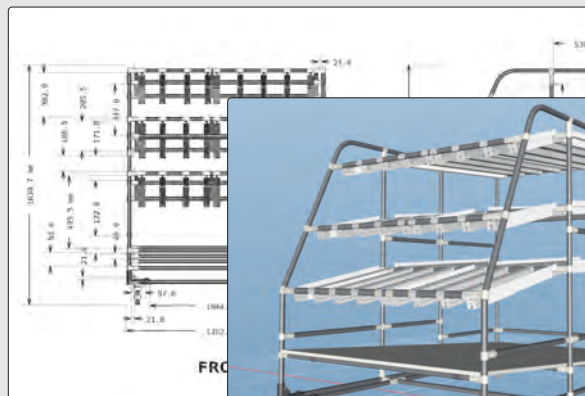
## Sample

Kanban material conveyancing **Complete in 90 min. ... Ready**

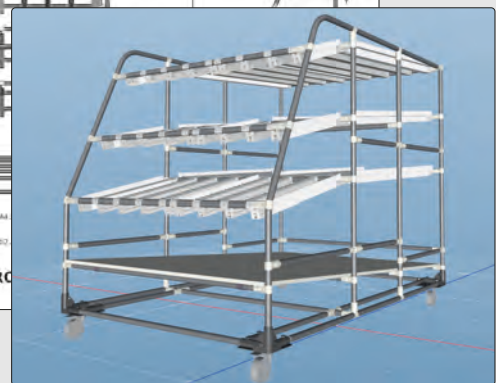


Hand sketch

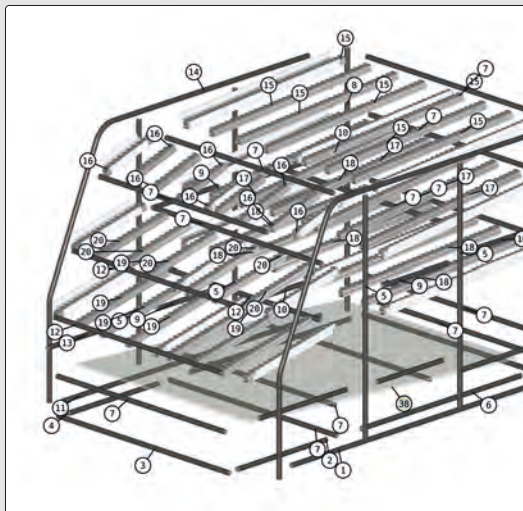
Input in  
MayCAD



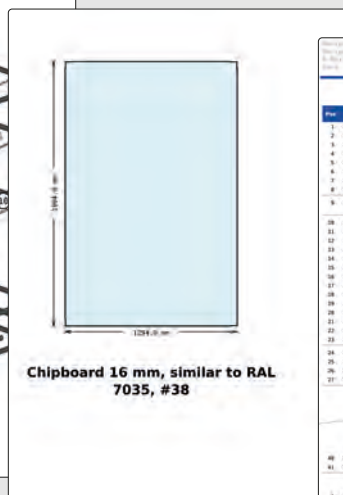
Dimensional  
drawing



3D view



Exploded view with position numbers



Chipboard 16 mm, similar to RAL 7035, #38

Single part drawing for all  
panel elements

Pos.	Article No.	Description	Unit	Qty	Each \$	Price \$
1	21.11.110.20.01	Steel pipe Ø20, 2.8, black, STD	m	15	28.84	432.60
2	21.11.110.20.01	Steel pipe Ø20, 2.8, black, STD	m	4	10.51	42.04
3	21.11.110.20.01	Steel pipe Ø20, 2.8, black, STD	m	4	11.27	45.07
4	21.11.110.20.01	Steel pipe Ø20, 2.8, black, STD	m	7	6.29	44.03
5	21.11.110.20.01	Steel pipe Ø20, 2.8, black, STD	m	2	5.86	11.72
6	21.11.110.20.01	Steel pipe Ø20, 2.8, black, STD	m	2	5.26	10.52
7	21.11.110.20.01	Steel pipe Ø20, 2.8, black, STD	m	2	11.82	23.64
8	21.11.110.20.01	Steel pipe Ø20, 2.8, black, STD	m	1	5.26	5.26
9	21.11.110.20.01	Steel pipe Ø20, 2.8, black, STD - Gable corner, quoted separately	m	7	8.88	62.16
10	21.20.2.02.01	Center guiding profile	m	1	16.25	16.25
11	21.20.2.02.01	Center guiding profile	m	12	15.21	182.52
12	21.20.2.02.01	Center guiding profile	m	1	6.52	6.52
13	21.20.2.02.01	Center guiding profile	m	60	11.11	666.60
14	21.20.2.02.01	Center guiding profile	m	2	22.80	45.60
15	21.20.2.02.01	Center guiding profile	m	2	20.29	40.58
16	21.20.2.02.01	Center guiding profile	m	4	14.20	56.79
17	21.20.2.02.01	Center guiding profile	m	12	26.76	321.12
18	21.20.2.02.01	Center guiding profile	m	2	14.17	28.34
19	21.20.2.02.01	Center guiding profile	m	50	10.75	537.50
20	21.20.2.02.01	Center guiding profile	m	60	20.29	1217.40
21	21.20.2.02.01	Center guiding profile	m	1	9.89	9.89
22	21.20.2.02.01	Center guiding profile	m	4	6.26	25.04
23	21.20.2.02.01	Center guiding profile	m	12	7.19	86.28
24	21.20.2.110.01	Side guiding profile with offset, 10mm	m	2	8.80	17.60
25	21.20.2.110.01	Side guiding profile with offset, 10mm	m	2	10.80	21.60
26	21.20.2.110.01	Side guiding profile with offset, 10mm	m	2	10.80	21.60
27	21.20.2.110.01	Side guiding profile with offset, 10mm	m	2	9.70	19.40
<b>Extra parts</b>						
1	21.20.2.100.00	Roller track support 40	EA	4	3.47	13.88
41	21.20.2.100.00	Roller track support 40 with stop	EA	4	3.50	14.00
<b>Total weight:</b>			105.26 kg	<b>Total amount:</b> 12472.08		



Parts list with calculations

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Accessories	21.17	7
Panel elements	21.18	8
Screws and nuts, tools	21.99	9
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<b>Subject index .....</b>			<b>A.01</b>
<b>Article number index.....</b>			<b>B.01</b>





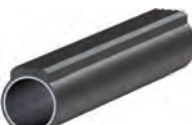



Product group


0

21.11 Pipes


Steel  11.04



	Version	s [mm]	wall thickness											Description	
	Standard	0.7	•	•	•	•	•	•	•	•	•	•	•	•	Standard pipe Ø28, ABS, 0.7, colour
		1.0	•	•	•	•	•	•	•	•	•	•	•	•	Standard pipe Ø28, ABS, 1.0, colour
		2.0	•	•	•	•	•	•	•	•	•	•	•	•	Standard pipe Ø28, ABS, 2.0, colour
	ESD 	0.7	•												Standard pipe Ø28, ABS, 0.7, black, ESD
		1.0	•												Standard pipe Ø28, ABS, 1.0, black, ESD
		2.0	•												Standard pipe Ø28, ABS, 2.0, black, ESD
	Standard	1.0	•	•	•									Slide pipe Ø28, ABS, 1.0, colour	
		2.0				•								Slide pipe Ø28, ABS, 2.0, light grey	
	ESD 	1.0	•												Slide pipe Ø28, ABS, 1.0, black, ESD
	Standard	1.0	•											Flat pipe Ø28, ABS, 1.0, black	
	ESD 	1.0	•											Flat pipe Ø28, ABS, 1.0, black, ESD	

Stainless steel  11.04



Aluminium  11.06



Aluminium pipe Ø28, 2.0



Aluminium pipe profile Ø28, 1.5, 1 F-slot



Aluminium pipe profile Ø28, 1.5, 2 F-slots, corner



Aluminium pipe profile Ø28, 1.5, 2 F-slots



Aluminium pipe profile Ø28, 1.5, 3 F-slots



Aluminium pipe profile Ø28, 1.5, 4 F-slots



Product group

<b>21.12 Joints</b>					
<b>Standard joints</b> ➔ 12.08					
					
E-J 1	E-J 1C	E-J 2	E-J 3	E-J 4	E-J 5
<b>Standard joints overlapping joint</b> ➔ 12.09					
					
E-J 1L	E-J 4L				
<b>Angle joints</b> ➔ 12.10					
					
E-J 090	E-J 110	E-J 160	E-J 13	E-J 45	
<b>Hinge joints</b> ➔ 12.11			<b>Crossover joints</b> ➔ 12.11		
					
E-J 7	E-J 7C	E-J 14	E-J 6	E-J 6C	
<b>Parallel joints</b> ➔ 12.12		<b>Pipe extension</b> ➔ 12.12		<b>Flat pipe joint</b> ➔ 12.12	
					
E-J 8	E-J 9	E-J 180	E-J 20		
<b>Sliding joints</b> ➔ 12.13					
					
E-J 12	E-J 17	E-J 18	E-J 24		

Product group

0

21.12 Connection elements


Cross connector  12.18



PS-A



PS-B

Pipe extensions  12.18




Panel holder  12.19



type A



type B

Slide pipe joints  12.19



with stop



union



with offset




Slide pipe bridge,  
square




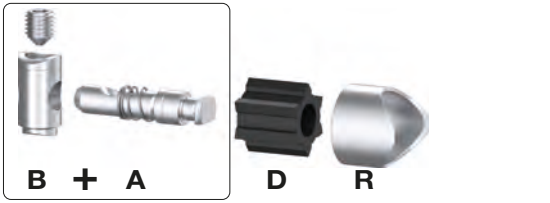
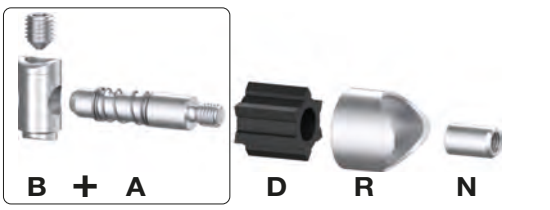
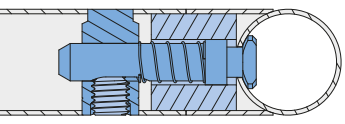
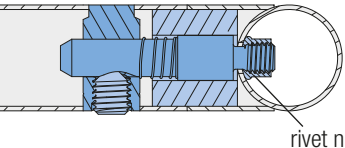

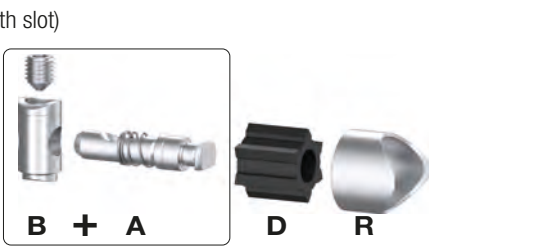
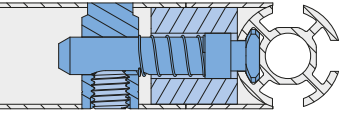

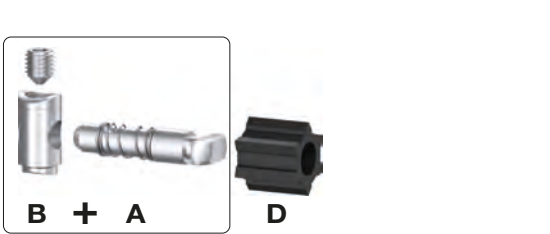
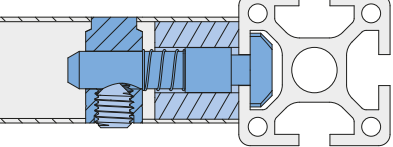

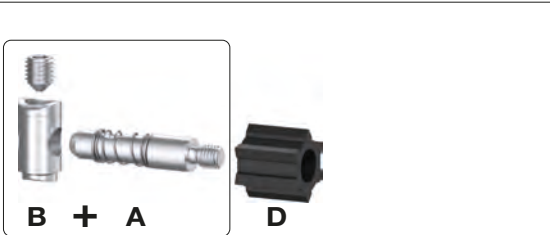
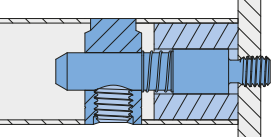
Slide pipe bridge,  
rounded

Product group

21.M MayConnect: Pipe connectors, inside  12.21



Patent pending






















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

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






Product group

0

<b>21.13 Mounting accessories</b>					
<b>Screw-on pipe clamps</b> ➔ 13.02				<b>Pipe clamps</b> ➔ 13.04	
					
flush		center	center, sliding	single sided	double sided
<b>Pipe clamps, pipe clips</b> ➔ 13.04					
					
wide	Pipe clamps PE	Pipe clamps PE, type B	Pipe clips PE	Pipe quick lock	Pipe clip
<b>Plate support</b> ➔ 13.07		<b>Adaptors</b> ➔ 13.07			
					
Plate support, corner		Profile adaptor	Profile adaptor 90°	Pipe holder one piece	Profile adaptor two piece
<b>Links, joints</b> ➔ 13.09		<b>Shock absorber</b> ➔ 13.10			
					
Roller track link	Table top joint	Shock absorber	Shock absorber clamp		

Product group

21.14 Caps, plugs and threaded inserts					
Caps, plugs → 14.02			Threaded inserts → 14.04		
					
End caps	Cover caps	Rubber cap	End plugs	for ABS coated pipes	for stainless steel pipes

Product group

0

**21.15 Feet, castors and footplates**

**Slip on feet 15.02**      **Threaded feet 15.03**



**Castors, Blickle 15.09**



**Castors, Tente 15.14**

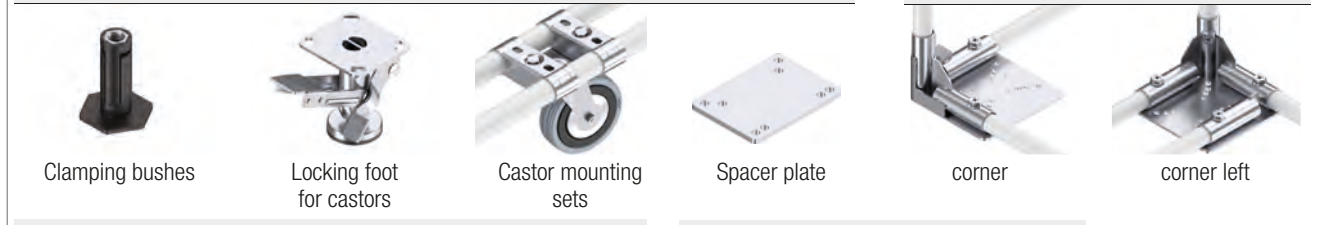
**Series 2A 15.15**      **Series 2B 15.15**



**Series 2C 15.15**      **Series 2D 15.15**



**Castors 15.21**      **Footplates for pipes 15.25**








**Footplates for pipes 15.27**      **Forklift guides 15.29**



**Product group**

21.16		Roller track	35	40	60	85
	<b>Summary</b> 		<i>16.05</i>	<i>16.06</i>	<i>16.08</i>	<i>16.09</i>
		Standard	<i>16.13</i>	<i>16.18</i>	<i>16.33</i>	<i>16.37</i>
		low noise (In)		<i>16.18</i>		
		flat	<i>16.19</i>	<i>16.33</i>		
		Edge roller		<i>16.20</i>		
	low noise (In)		<i>16.20</i>			
		with offset	<i>16.13</i>			
	<b>Side guiding profile</b>					
		PE	<i>16.14</i>	<i>16.21</i>		
		with offset	<i>16.14</i>	<i>16.22</i>		
	<b>Roller track</b>					
		- support	<i>16.15</i>	<i>16.24</i>	<i>16.34</i>	<i>16.38</i>
		with stop		<i>16.25</i>	<i>16.34</i>	<i>16.39</i>
		with offset	<i>16.16</i>	<i>16.26</i>	<i>16.35</i>	<i>16.39</i>
		with return stop		<i>16.27</i>	<i>16.35</i>	
		- extension	<i>16.17</i>	<i>16.30</i>	<i>16.36</i>	<i>16.40</i>
		- overlay		<i>16.30</i>	<i>16.36</i>	<i>16.40</i>
		- bridge	<i>16.17</i>	<i>16.31</i>		<i>16.40</i>
		Adapter bridge		<i>16.31</i>		
		Mounting clamp	<i>16.16</i>			
	<b>Roller track brake</b>					
		Standard		<i>16.32</i>		
		flat	<i>16.32</i>			
		Edge roller		<i>16.32</i>		




Center guiding profile - for all roller tracks		mounting on:		
		PE	Roller track support 35	16.41
			Roller track support 40	16.42
		Alu		16.42
			Slide pipe supports	12.19

**0**


















Product group

Roller track 35  16.13	
Type of roller	
Standard 	
with offset 	





Side guiding profile for roller track 35  16.14	
PE 	
with offset 	
























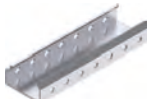






35  16.15	Ø28	profile 40
Roller track		
- support		
round		
with offset		
type B		
round		
Mounting clamp		
- extension		
- bridge		
Adapter for roller track support 40		

0






Product group













Roller track 40  16.18			Roller track brake 40  16.32	
Type of roller	low noise (In)			
Standard 			Standard	
flat 			flat	
Edge roller 			Edge roller	

Side guiding profile for roller track 40  16.21		
PE		
with offset		Extension clip for side guiding profile with offset 



40  16.24	Ø28		Ø33	profile 40		
Roller track				 hinged		
- support		bracket left 	bracket right 			
with stop		bracket left 	bracket right 			
rear						
front						
type B						
with offset						
with return stop						
- extension						
- overlay		short 				
- bridge		round 				
Adapter bridge						














Product group

Roller track 60  16.33	
Type of roller	
Standard 	
flat 	

60  16.34	Ø28	Ø33
Roller track		
- support		
with stop type B		
with offset		
with return stop		
- extension		
- overlay		

Product group











Roller track 85  16.37	
Type of roller	
Standard	

85  16.38	Ø28		
Roller track			
- support		bracket left 	bracket right 
with stop rear			
type B		bracket left 	bracket right 
with offset			
- extension			
- overlay		short 	
- bridge			

0



Product group

Center guiding profiles for all roller tracks		➡ 16.41
PE		 <p><b>Mounting:</b> on roller track support 35 ➡ 16.15</p> 
		 <p><b>Mounting:</b> on roller track support 40 ➡ 16.24</p> 
Alu		
		 <p><b>Mounting:</b> on slide pipe support ➡ 12.19</p> 


Product group







0

21.17 Accessories					
Pipe collars, sleeves  17.02			Labeling  17.02		
					
Plastic pipe collars	Sleeves	Bolted pipe collar	Pipe hanger	Label holder	Label holder
Labeling  17.03					
					
Label bar	Label clip	Label strip 32	Sticker bar	Label bag	
Position retainer  17.06			Stopper  17.07		Roller fixture  17.07
					
63	98	clip, double-sided	stop	single-sided	double-sided
Bushings  17.08			Tool and device holder  17.10		
					
Roller bushings	Ball castors	Tool holder	Multiple tool holder	Device holder	Tool holder for cordless screwdriver
Tool, device and bottle holder  17.11			Hooks  17.13		
					
Tool holder for cordless pistol nutrunner	Drink holder with mounting plate	Bottle holder	24	42	100
Hooks  17.14				Tilt rails  17.15	
					
Ring hook	Hang up hook	Sliding hook	Sliding hook, PA		
Profiles  17.16			Protective hose  17.17		
					
Pipe cover	Cable duct		with protective skin		






Product group

21.18 Panel elements

Panel elements  18.02

					
Chipboards	Solid plastic panels	Alu-plastic composite panels	Structured-core panels	Edge protection	Polycarbonat (Makrolon)

Product group

21.99 Screws and nuts, tools	
<b>Screws and nuts</b> ➔ 99.02	<b>Tools</b> ➔ 99.04
	   
	Pipe cutter for ABS coated pipes    Pipe cutter for stainless steel pipes    Pipe deburrer    Step drills for cross bushing

0



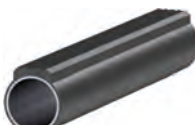





Product group

21.11 Pipes


Steel  11.04



	Version	s [mm]	wall thickness								Description
 Standard pipe	Standard	0.7	•	•	•	•	•	•	•	•	Standard pipe Ø28, ABS, 0.7, colour
		1.0	•	•	•	•	•	•	•	•	Standard pipe Ø28, ABS, 1.0, colour
		2.0	•	•	•	•	•	•	•	•	Standard pipe Ø28, ABS, 2.0, colour
	ESD 	0.7	•								Standard pipe Ø28, ABS, 0.7, black, ESD
		1.0	•								Standard pipe Ø28, ABS, 1.0, black, ESD
		2.0	•								Standard pipe Ø28, ABS, 2.0, black, ESD
 Slide pipe	Standard	1.0	•	•	•						Slide pipe Ø28, ABS, 1.0, colour
		2.0				•					Slide pipe Ø28, ABS, 2.0, light grey
	ESD 	1.0	•								Slide pipe Ø28, ABS, 1.0, black, ESD
 Flat pipe	Standard	1.0	•								Flat pipe Ø28, ABS, 1.0, black
	ESD 	1.0	•								Flat pipe Ø28, ABS, 1.0, black, ESD

Stainless steel  11.04



Aluminium  11.06



Aluminium pipe Ø28, 2.0



Aluminium pipe profile Ø28, 1.5, 1 F-slot



Aluminium pipe profile Ø28, 1.5, 2 F-slots, corner



Aluminium pipe profile Ø28, 1.5, 2 F-slots



Aluminium pipe profile Ø28, 1.5, 3 F-slots













Aluminium pipe profile Ø28, 1.5, 4 F-slots

1



Pipes

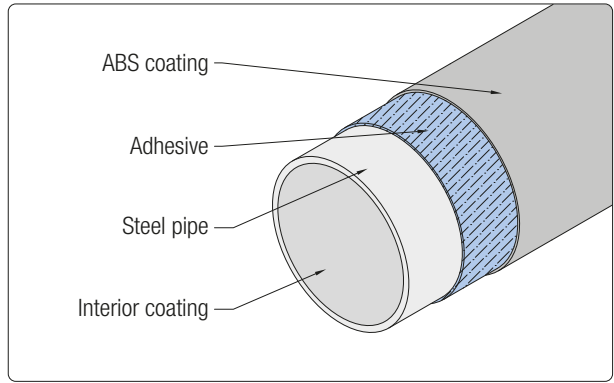
21.□□.□□□□.□□.□□.□□	<b>Key</b>	
21.□□.□□□□.□□.□□.□□	The Pipe & Joint System	
21.□□.□□□□.□□.□□.□□	Pipe outside-Ø:	
21.1□.□□□□.□□.□□.□□	28 mm	
21.□□.□□□□.□□.□□.□□	Product group:	
21.□1.□□□□.□□.□□.□□	Pipes	
21.□□.□□□□.□□.□□.□□	Material:	
21.□□.1□□□.□□.□□.□□	Steel, ABS coated	
21.□□.3□□□.□□.□□.□□	Stainless steel	
21.□□.4□□□.□□.□□.□□	Aluminium	
21.□□.□□□□.□□.□□.□□	Coating:	
21.□□.□0□□.□□.□□.□□	w/o	
21.□□.□1□□.□□.□□.□□	ABS	
21.□□.□2□□.□□.□□.□□	Powder	
21.□□.□3□□.□□.□□.□□	Paint	
21.□□.□8□□.□□.□□.□□	Anodized	
21.□□.□□□□.□□.□□.□□	Pipe model:	
21.□□.□□1□□.□□.□□.□□	Standard pipe	
21.□□.□□2□□.□□.□□.□□	Slide pipe	
21.□□.□□3□□.□□.□□.□□	Flat pipe	
21.□□.□□4□□.□□.□□.□□	Pipe profile	
21.□□.□□□□.□□.□□.□□	Conductivity:	
21.□□.□□□0□□.□□.□□.□□	Standard	
21.□□.□□□E□□.□□.□□.□□	ESD	
21.□□.□□□□.□□.□□.□□	Wall thickness:	
21.□□.□□□□.07□□.□□.□□	0.7 mm	
21.□□.□□□□.10□□.□□.□□	1.0 mm	
21.□□.□□□□.12□□.□□.□□	1.2 mm	
21.□□.□□□□.15□□.□□.□□	1.5 mm	
21.□□.□□□□.20□□.□□.□□	2.0 mm	
21.□□.□□□□.□□.□□.□□	Colour of coating:	
21.□□.□□□□.□□.00□□	w/o	
21.□□.□□□□.□□.01□□	black	
21.□□.□□□□.□□.02□□	white	
21.□□.□□□□.□□.03□□	ivory	
21.□□.□□□□.□□.04□□	dark grey	
21.□□.□□□□.□□.05□□	light grey	
21.□□.□□□□.□□.06□□	dark blue	
21.□□.□□□□.□□.07□□	light blue	
21.□□.□□□□.□□.08□□	green	
21.□□.□□□□.□□.09□□	red	
21.□□.□□□□.□□.10□□	yellow	
	<b>similar to RAL</b>	
	9004: signal black	
	9002: grey white	
	1014: ivory	
	7012: basalt grey	
	7038: agate grey	
	5005: signal blue	
	5012: light blue	
	6018: yellow green	
	3000: flame red	
	1018: zinc yellow	
21.□□.□□□□.□□.□□.□□	Length of pipe:	
21.□□.□□□□.□□.□□.4□	4 m	
21.□□.□□□□.□□.□□.□□	Packing unit:	
21.□□.□□□□.□□.□□.0□	1 Pipe	
21.□□.□□□□.□□.□□.1□	10 Pipes (PU 1)	
21.□□.□□□□.□□.□□.2□	100 Pipes (PU 2)	

Pipe / Cutting

Cut to length pipes

21.□□.□□□□.□□.□□/□□□□	<b>Key</b>
21.□□.□□□□.□□.□□/□□□□	cut length [mm]

Steel pipe, ABS coated



1

Symbols

 **ESD**  
ESD protection

Special characters

□ **Placeholder**  
in article No.

**Example**  
21.11.484.10.4□

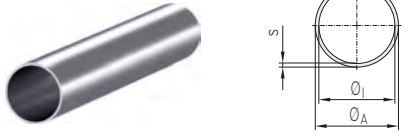

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21.11.484.10.41  
21.11.484.10.42


☞ **Reference**

**Example**  
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☞ 21.11  
☞ 21.11.484.10.4□


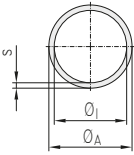

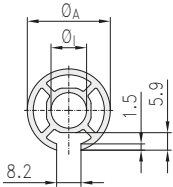

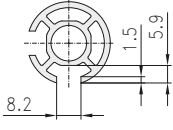

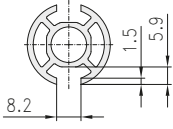

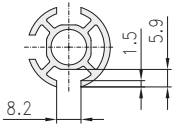

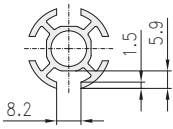
**reference to**  
*catalogue page 13.05*  
*article number group 21.11*  
*group of articles 21.11.484.10.4□*

Steel		Technical data									
		Material: Steel, ABS coated Pipe outside-Ø: 28 mm Length of pipe: 4 m									
Version	s [mm]	diameter		ABS thicken. k [mm]	moment of inertia		moment of resistance		weight G [kg/m]		
		outer Ø <sub>A</sub> [mm]	inner Ø <sub>I</sub> [mm]		I <sub>x</sub> [cm <sup>4</sup> ]	I <sub>y</sub> [cm <sup>4</sup> ]	W <sub>x</sub> [cm <sup>3</sup> ]	W <sub>y</sub> [cm <sup>3</sup> ]			
Standard pipe 	Standard		0.7	27.6	24.2	1.0	0.4	0.4	0.3	0.3	0.5
			1.0	27.6	23.6	1.0	0.6	0.6	0.4	0.4	0.7
			2.0	27.6	21.6	1.0	1.1	1.1	0.8	0.8	1.1
	ESD 		0.7	27.6	24.2	1.0	0.4	0.4	0.3	0.3	0.5
			1.0	27.6	23.6	1.0	0.6	0.6	0.4	0.4	0.7
			2.0	27.6	21.6	1.0	1.1	1.1	0.8	0.8	1.1
Slide pipe 	Standard		1.0	27.6	23.6	1.0	0.6	0.6	0.4	0.4	0.7
			2.0	27.6	21.6	1.0	1.1	1.1	0.8	0.8	1.1
	ESD 		1.0	27.6	23.6	1.0	0.6	0.6	0.4	0.4	0.7
Flat pipe 	Standard		1.0	27.6	23.6	1.0	0.6	0.6	0.4	0.4	0.7
	ESD 		1.0	27.6	23.6	1.0	0.6	0.6	0.4	0.4	0.7

Stainless steel		Technical data								
		Material: Stainless steel, V4A Pipe outside-Ø: 28 mm Length of pipe: 4 m								
Version	s [mm]	diameter		moment of inertia I <sub>x</sub> [cm <sup>4</sup> ]	moment of inertia I <sub>y</sub> [cm <sup>4</sup> ]	moment of resistance		weight G [kg/m]		
		outer Ø <sub>A</sub> [mm]	inner Ø <sub>I</sub> [mm]			W <sub>x</sub> [cm <sup>3</sup> ]	W <sub>y</sub> [cm <sup>3</sup> ]			
Stainless steel pipe 	ESD 		0.7	27.6	24.2	0.6	0.6	0.4	0.4	0.5
			1.2	27.6	23.6	0.9	0.9	0.6	0.6	0.8

<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px;"> <p>□□ = Colour</p> <table border="0"> <tr> <td>01</td><td>black</td> <td>06</td><td>dark blue</td> </tr> <tr> <td>02</td><td>white</td> <td>07</td><td>light blue</td> </tr> <tr> <td>03</td><td>ivory</td> <td>08</td><td>green</td> </tr> <tr> <td>04</td><td>dark grey</td> <td>09</td><td>red</td> </tr> <tr> <td>05</td><td>light grey</td> <td>10</td><td>yellow</td> </tr> </table> </div> <div style="border: 1px solid black; padding: 5px;"> <p>□ = Quantitiy</p> <p>0 = 1 Pipe 1 = 10 Pipes (PU 1) 2 = 100 Pipes (PU 2)</p> </div> </div>											01	black	06	dark blue	02	white	07	light blue	03	ivory	08	green	04	dark grey	09	red	05	light grey	10	yellow
01	black	06	dark blue																											
02	white	07	light blue																											
03	ivory	08	green																											
04	dark grey	09	red																											
05	light grey	10	yellow																											
<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px;"> <p>□□ = Colour</p> </div> </div>																														
wall thickness											Description	Article No.																		
s [mm]	01	02	03	04	05	06	07	08	09	10																				
0.7	•	•	•	•	•	•	•	•	•	•	Standard pipe Ø28, ABS, 0.7, <i>colour</i>	21.11.1110.07.□□.4□																		
1.0	•	•	•	•	•	•	•	•	•	•	Standard pipe Ø28, ABS, 1.0, <i>colour</i>	21.11.1110.10.□□.4□																		
2.0	•	•	•	•	•	•	•	•	•	•	Standard pipe Ø28, ABS, 2.0, <i>colour</i>	21.11.1110.20.□□.4□																		
0.7	•										Standard pipe Ø28, ABS, 0.7, black, ESD	21.11.111E.07. 0 1 .4□																		
1.0	•										Standard pipe Ø28, ABS, 1.0, black, ESD	21.11.111E.10. 0 1 .4□																		
2.0	•										Standard pipe Ø28, ABS, 2.0, black, ESD	21.11.111E.20. 0 1 .4□																		
1.0	•	•	•								Slide pipe Ø28, ABS, 1.0, <i>colour</i>	21.11.1120.10.□□.4□																		
2.0					•						Slide pipe Ø28, ABS, 2.0, light grey	21.11.1120.20. 0 5 .4□																		
1.0	•										Slide pipe Ø28, ABS, 1.0, black, ESD	21.11.112E.10. 0 1 .4□																		
1.0	•										Flat pipe Ø28, ABS, 1.0, black	21.11.1130.10. 0 1 .4□																		
1.0	•										Flat pipe Ø28, ABS, 1.0, black, ESD	21.11.113E.10. 0 1 .4□																		

<div style="border: 1px solid black; padding: 5px;"> <p>□ = Quantitiy</p> <p>0 = 1 Pipe 1 = 10 Pipes (PU 1) 2 = 100 Pipes (PU 2)</p> </div>			
wall thickness	w/o colour coating	Description	Article No.
s [mm]			
0.7	•	Stainless steel pipe Ø28, 0.7	21.11.301E.07.00.4□
1.2	•	Stainless steel pipe Ø28, 1.2	21.11.301E.12.00.4□

Aluminium		Technical data								
		Material: Aluminium, E6/EV1- matt stained and natural anodised								
		Pipe outside-Ø: 28 mm Length of pipe: 4 m								
		wall thickness	diameter		moment of inertia		moment of resistance		weight	
		s [mm]	Ø <sub>A</sub> [mm]	Ø <sub>I</sub> [mm]	I <sub>x</sub> [cm <sup>4</sup> ]	I <sub>y</sub> [cm <sup>4</sup> ]	W <sub>x</sub> [cm <sup>3</sup> ]	W <sub>y</sub> [cm <sup>3</sup> ]	G [kg/m]	
Aluminium pipe			2.0	28.0	24.0	1.4	1.4	1.0	1.0	0.4
Aluminium pipe profile			1.5	28.0	12.0	1.5	1.5	1.1	1.1	0.6
			1.5	28.0	12.0	1.3	1.3	0.9	0.9	0.6
			1.5	28.0	12.0	1.5	1.1	1.1	0.8	0.6
			1.5	28.0	12.0	1.3	1.1	0.9	0.8	0.6
			1.5	28.0	12.0	1.1	1.1	0.8	0.8	0.5

= Quantity

0 = 1 Pipe

1 = 10 Pipes (PU 1)

2 = 100 Pipes (PU 2)

1

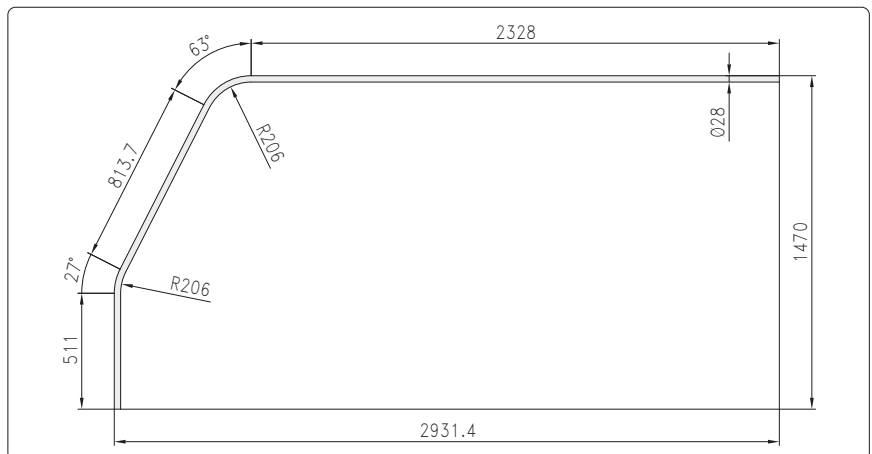
wall thickness	w/o colour coating	Description	Article No.
	s [mm]		
2.0	•	Aluminium pipe Ø28, 2.0	21.11.4810.20.00.4□
1.5	•	Aluminium pipe profile Ø28, 1.5, 1 F-slot	21.11.484.10.4□
1.5	•	Aluminium pipe profile Ø28, 1.5, 2 F-slots, corner	21.11.484.22.4□
1.5	•	Aluminium pipe profile Ø28, 1.5, 2 F-slots	21.11.484.20.4□
1.5	•	Aluminium pipe profile Ø28, 1.5, 3 F-slots	21.11.484.30.4□
1.5	•	Aluminium pipe profile Ø28, 1.5, 4 F-slots	21.11.484.40.4□



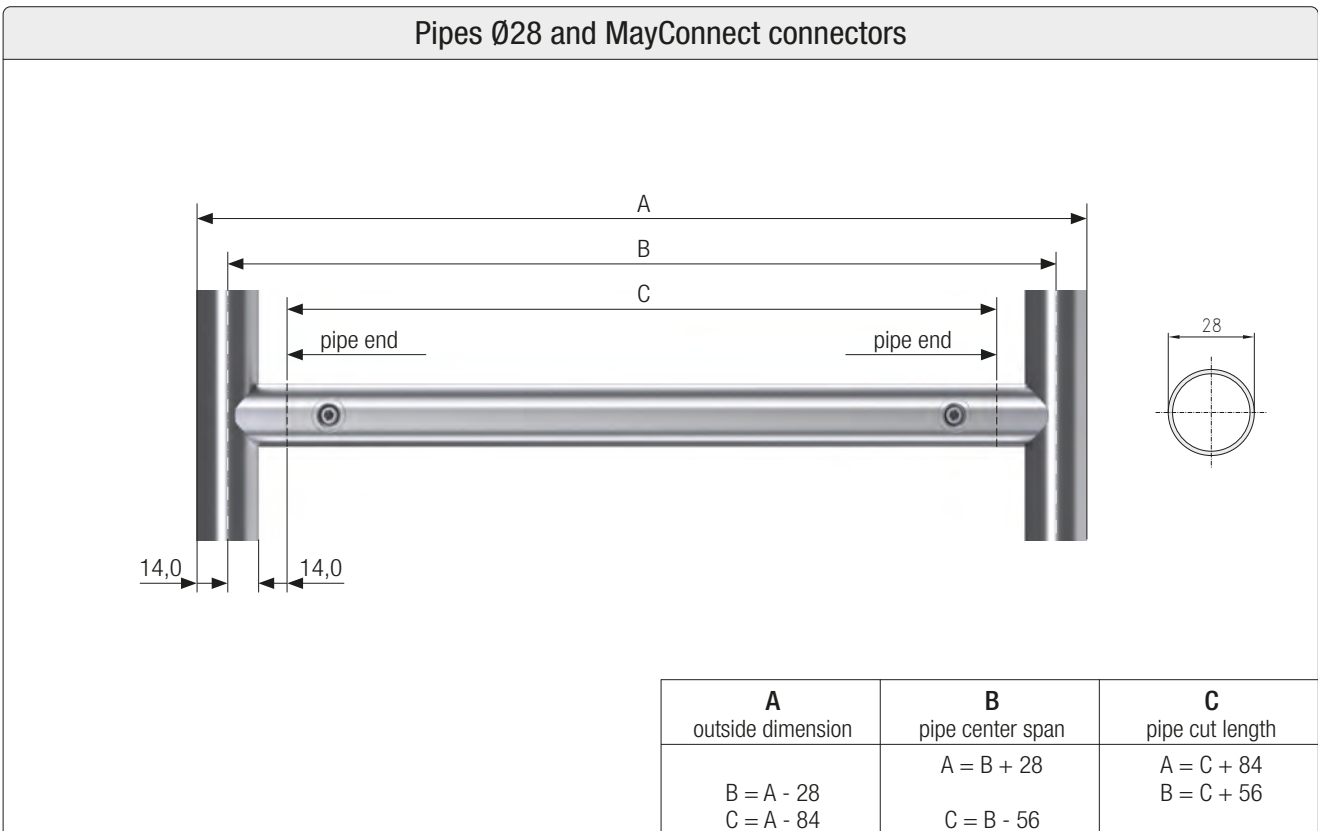
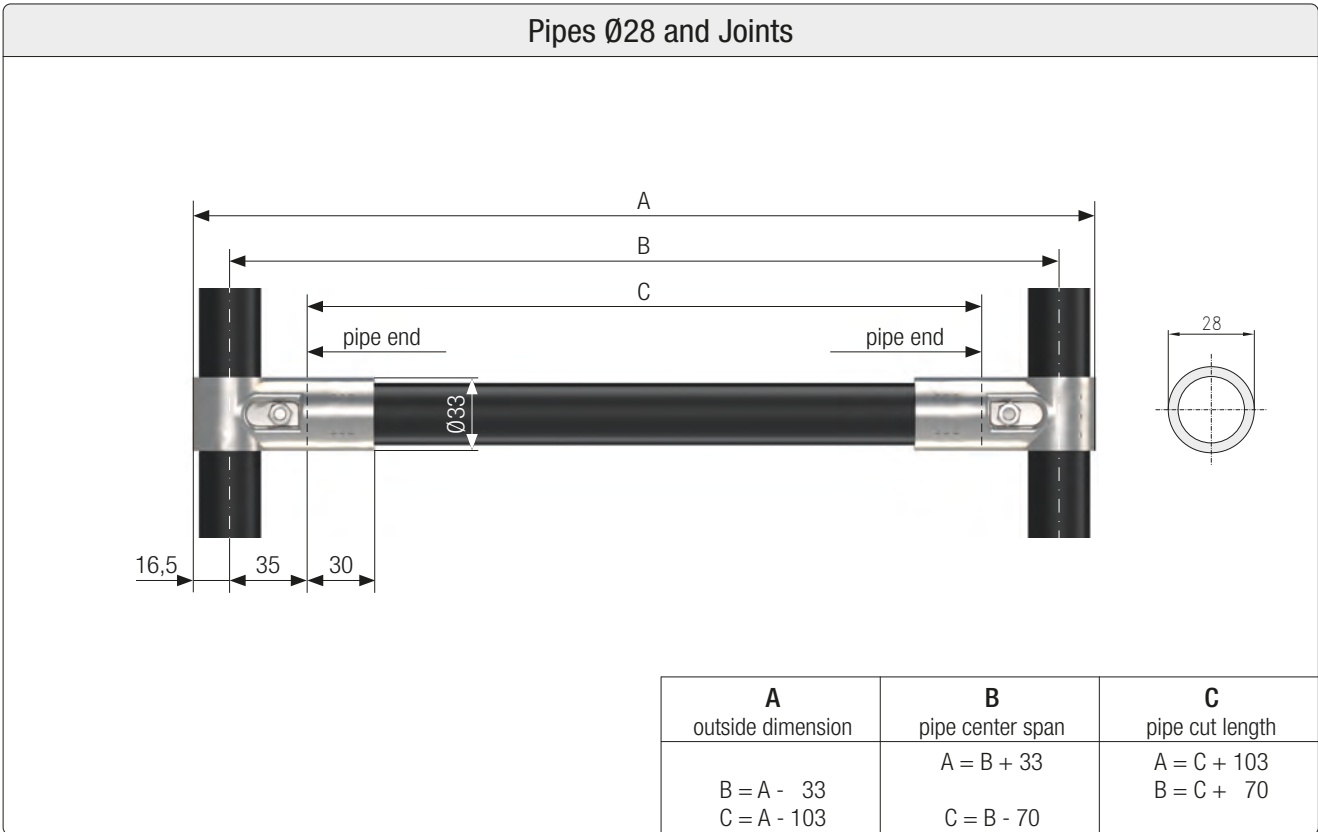
Curved pipes



Example



Manufacturing according to customer drawing



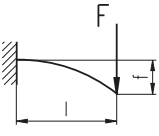
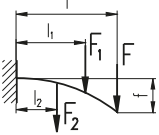
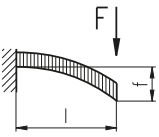
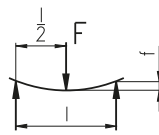
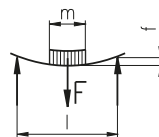
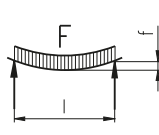
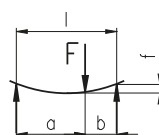
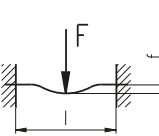
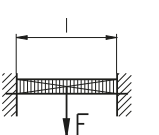
For the computation of deflection use formulas on this page.

For the computation of deflection by the profiles own weight, apply "Type of load" 3, 6 or 9.

- f = Deflection in mm
- F = Type of load in N
- l = Pipe length in mm
- J<sup>1)</sup> = Moment of inertia in mm<sup>4</sup>
- E = Module of elasticity in N/mm<sup>2</sup>
- E<sub>St</sub> = 210,000 N/mm<sup>2</sup>
- E<sub>V4A</sub> = 200,000 N/mm<sup>2</sup>
- E<sub>AL</sub> = 70,000 N/mm<sup>2</sup>

**1) Comments**

- Catalogue data in cm<sup>4</sup>  
(Note factor of conversion 10<sup>4</sup> !)
- The moments of inertia are given on pages 11.04 and 11.06 under the respective pipes.

Type of load		
1		$f = \frac{F \cdot l^3}{3E \cdot J}$
2		$f = \frac{F \cdot l^3 + F_1 \cdot l_1^2 \cdot l + F_2 \cdot l_2^2 \cdot l}{3E \cdot J}$
3		$f = \frac{F \cdot l^3}{8E \cdot J}$
4		$f = \frac{F \cdot l^3}{48E \cdot J}$
5		$f = \frac{F \cdot l^3}{\left(48 + \frac{29m}{l}\right) \cdot E \cdot J}$
6		$f = \frac{5F \cdot l^3}{384E \cdot J}$
7		$f = \frac{F \cdot a^2 \cdot b^2}{3E \cdot J \cdot l}$
8		$f = \frac{F \cdot l^3}{192E \cdot J}$ <sup>2)</sup>
9		$f = \frac{F \cdot l^3}{384E \cdot J}$

<sup>2)</sup> approximate value

Approximate determination of deflection

To determine the approximation of deflection, use the diagram on this page.

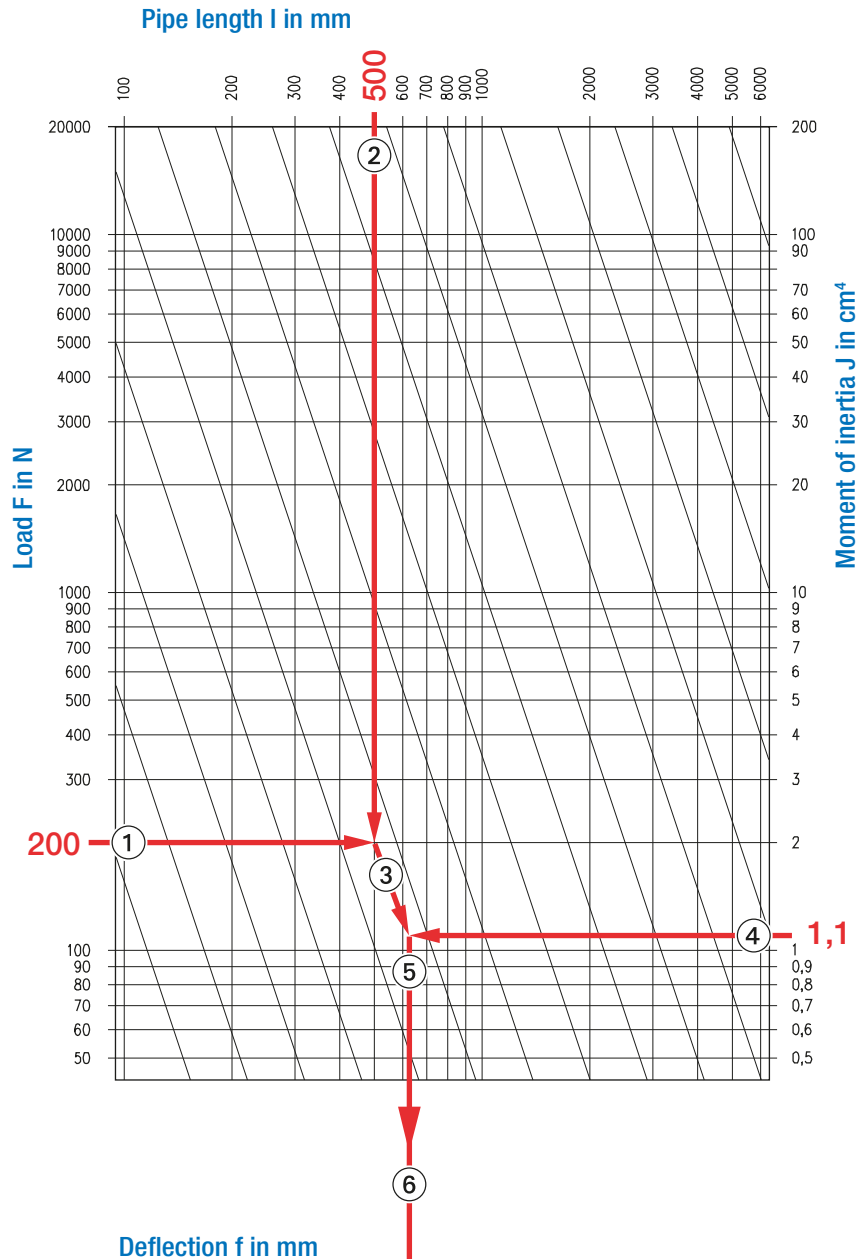
Determination of deflection

1. Type of load F in N
2. Pipe length l in mm
3. Move cross point on the diagonal
4. Moment of inertia of the selected pipe J in cm<sup>4</sup>
5. Cross point with the diagonal to be vertically extended to the bottom
6. Deflection f for the specific "Type of load" in mm

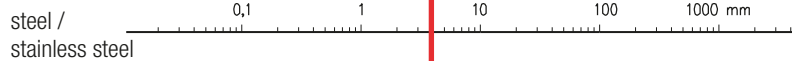
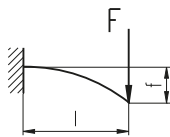
Example: Standard pipe Ø28, 2.0  
(Steel, ABS coated)

- ① F = 200 N
- ② l = 500 mm
- ③ Move cross point on the diagonal
- ④ J = 1.1 cm<sup>4</sup> for Standard pipe Ø28, 2.0
- ⑤ Cross point with the diagonal to be vertically extended to the bottom
- ⑥ Deflection for the specific "Type of load" in mm:

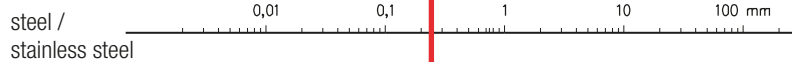
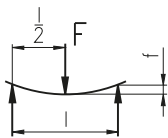
- Type of load 1: f = 3,6 mm
- Type of load 4: f = 0,22 mm
- Type of load 8: f = 0,56 mm



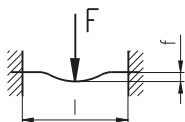
Type of load 1



Type of load 4



Type of load 8



1

Approximate determination of deflection

To determine the approximation of deflection, use the diagram on this page.

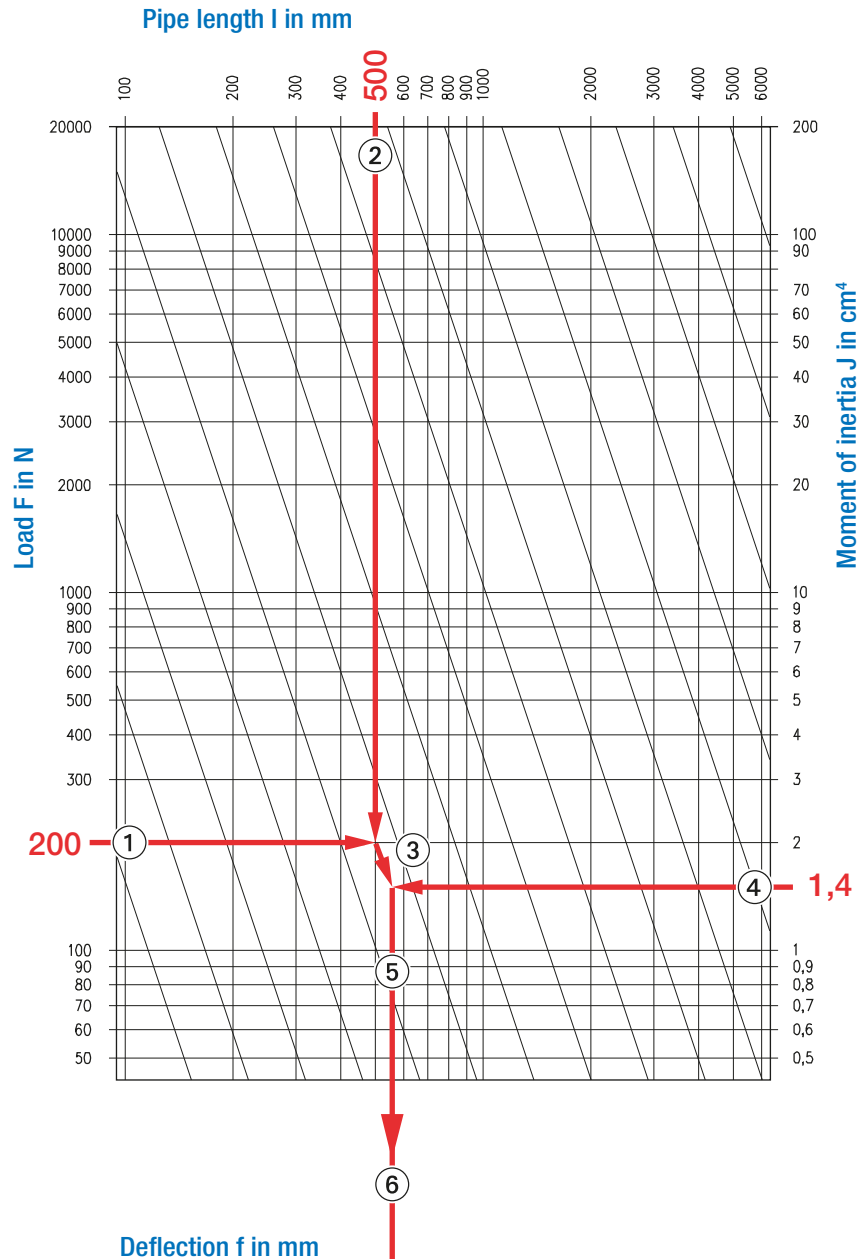
Determination of deflection

1. Type of load F in N
2. Pipe length l in mm
3. Move cross point on the diagonal
4. Moment of inertia of the selected pipe J in cm<sup>4</sup>
5. Cross point with the diagonal to be vertically extended to the bottom
6. Deflection f for the specific "Type of load" in mm

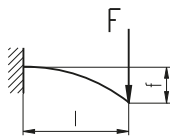
Example: Aluminium pipe Ø28, 2.0

- ① F = 200 N
- ② l = 500 mm
- ③ Move cross point on the diagonal
- ④ J = 1,4 cm<sup>4</sup> for Aluminium pipe Ø28, 2.0
- ⑤ Cross point with the diagonal to be vertically extended to the bottom
- ⑥ Deflection for the specific "Type of load" in mm:

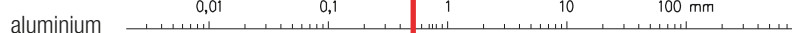
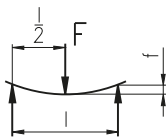
Type of load 1: f = 8,5 mm  
 Type of load 4: f = 0,53 mm  
 Type of load 8: f = 0,13 mm



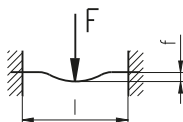
Type of load 1



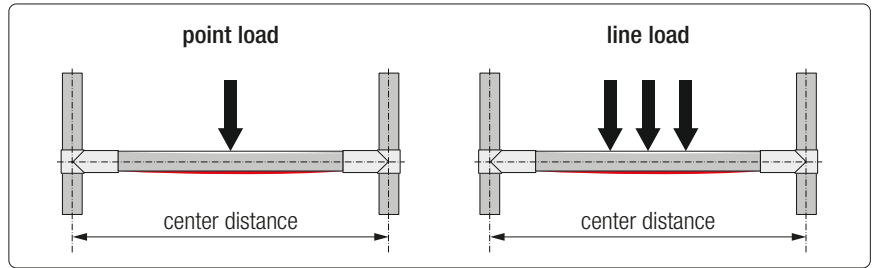
Type of load 4



Type of load 8



Load capacity



clamped pipe with 2 standard joints

1

Steel pipes, ABS coated

center distance [mm]	Steel pipe, ABS coated					
	Ø28×0.7		Ø28×1		Ø28×2	
	↓	↓↓↓	↓	↓↓↓	↓	↓↓↓
750	520	860	1,030	1,570	1,570	2,550
1,000	210	360	390	640	640	1,000
1,250	100	180	200	290	290	490
1,500	60	100	100	200	180	290

load data in N with a deflection of approx. 5 mm

Stainless steel pipes

center distance [mm]	Stainless steel pipe			
	Ø28×0.7		Ø28×1.2	
	↓	↓↓↓	↓	↓↓↓
750	980	1,470	1,370	2,160
1,000	390	590	540	880
1,250	200	270	270	440
1,500	100	180	150	250

load data in N with a deflection of approx. 5 mm

Aluminium pipe

center distance [mm]	Aluminium pipe			
	Ø28×2			
	↓	↓↓↓	↓	↓↓↓
750	600	1,000		
1,000	250	420		
1,250	120	210		
1,500	70	120		

load data in N with a deflection of approx. 5 mm

Aluminium pipe profiles

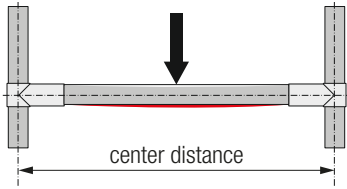
center distance [mm]	Aluminium pipe profile Ø28, 1.5									
	1 F-slot		2 F-slots, corn.		2 F-slots		3 F-slots		4 F-slots	
	↓	↓↓↓	↓	↓↓↓	↓	↓↓↓	↓	↓↓↓	↓	↓↓↓
750	640	1,070	560	930	470	780	470	780	470	780
1,000	270	450	230	390	190	330	190	330	190	330
1,250	130	230	120	200	100	170	100	170	100	170
1,500	70	130	60	110	50	90	50	90	50	90

load data in N with a deflection of approx. 5 mm



Example: Standard pipe  $\varnothing 28 \times 2$  mm, ABS coated

**Deflection under point load**

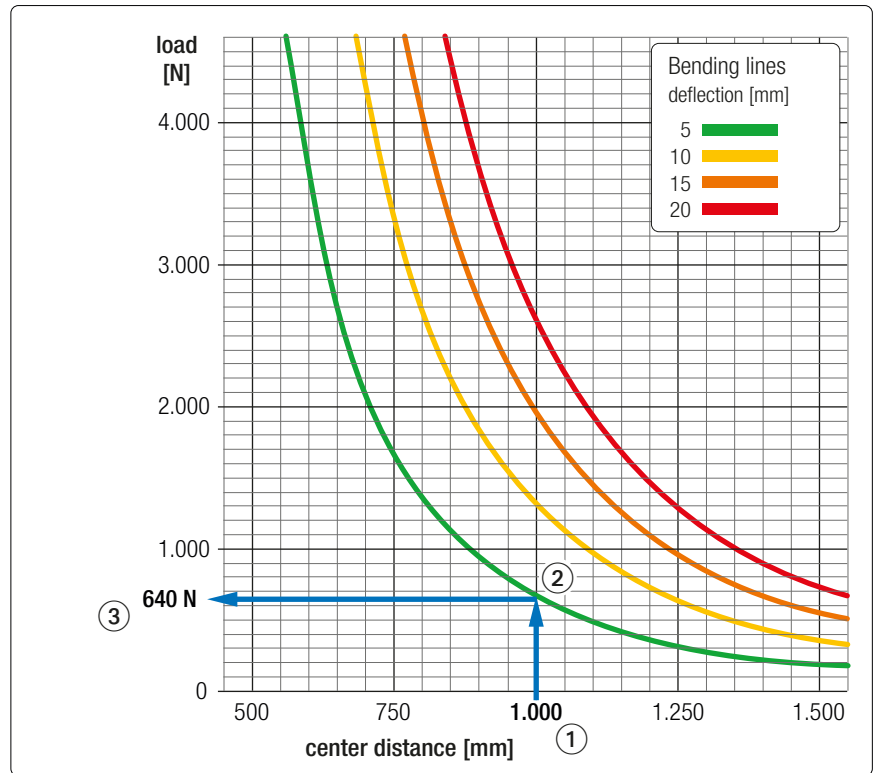


**Determination of deflection under point load**

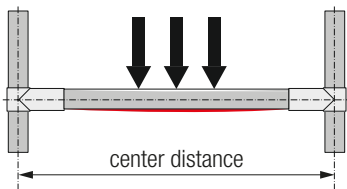
1. center distance  $l$  in mm
2. permissible deflection  $f$  in mm
3. permissible point load  $F$  in N

**Example**

- ①  $l = 1,000$  mm
- ②  $f = 5$  mm
- ③  $F = 640$  N



**Deflection under line load**

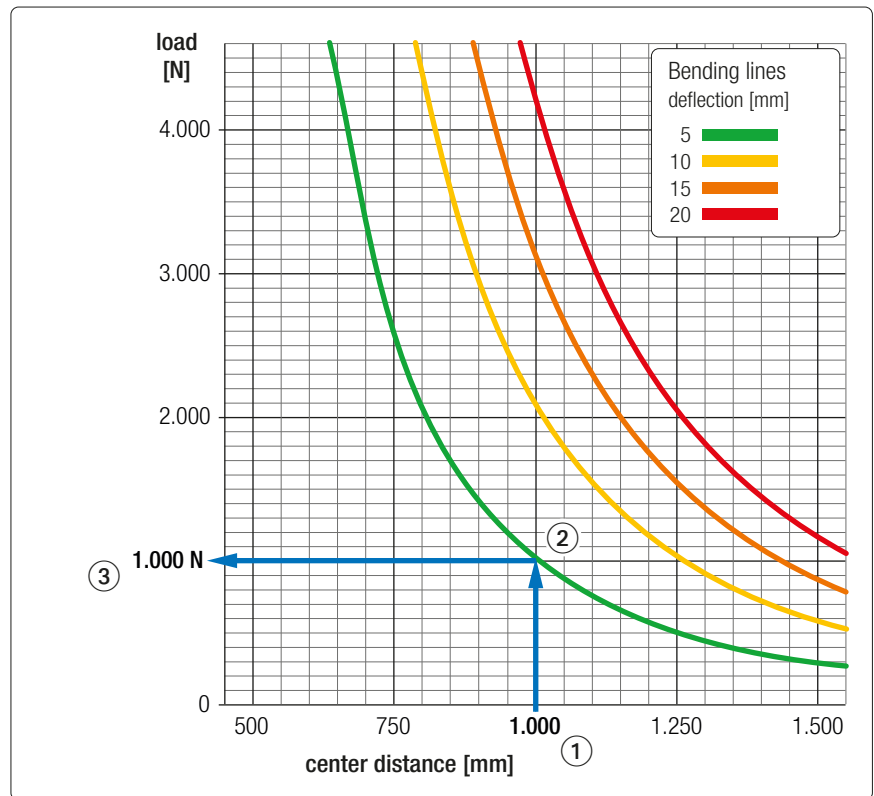


**Determination of deflection under line load**

1. center distance  $l$  in mm
2. permissible deflection  $f$  in mm
3. permissible line load  $F$  in N

**Example**

- ①  $l = 1,000$  mm
- ②  $f = 5$  mm
- ③  $F = 1,000$  N



System 1: Joints

12.03



2

System 2: MayConnect  
pipe connector, inside





























12.23


























Product group

<b>21.12 Joints</b>					
<b>Standard joints</b> ➔ 12.08					
					
E-J 1	E-J 1C	E-J 2	E-J 3	E-J 4	E-J 5
<b>Standard joints overlapping joint</b> ➔ 12.09					
					
E-J 1L	E-J 4L				
<b>Angle joints</b> ➔ 12.10					
					
E-J 090	E-J 110	E-J 160	E-J 13	E-J 45	
<b>Hinge joints</b> ➔ 12.11			<b>Crossover joints</b> ➔ 12.11		
					
E-J 7	E-J 7C	E-J 14	E-J 6	E-J 6C	
<b>Parallel joints</b> ➔ 12.12		<b>Pipe extension</b> ➔ 12.12		<b>Flat pipe joint</b> ➔ 12.12	
					
E-J 8	E-J 9	E-J 180	E-J 20		
<b>Sliding joints</b> ➔ 12.13					
					
E-J 12	E-J 17	E-J 18	E-J 24		

		E-1 	E-1C	E-2 	E-3 	E-4 	E-1L
★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13)		 12.15		 12.15	 12.15	 12.15	
Standard joints 	E-J 1 	2 ×					
	E-J 1C 		2 ×				
	E-J 2 			1 ×	1 ×		
	E-J 3 			2 ×		1 ×	
	E-J 4 					2 ×	
	E-J 5 			4 ×			
Standard joints overlapping joint 	E-J 1L 						2 ×
	E-J 4L 						
Angle joints 	E-J 090  90°						
	E-J 110  110°						
	E-J 160  160°						
	E-J 13  45°						
	E-J 45  45°						
Flat pipe joint 	E-J 20 	1 ×					

E-4L	E-090★	H-110	H-160	E-13A	E-13B	H-45	E-20	
	↖ 12.15							
								1 ×
								1 ×
								2 ×
								3 ×
								2 ×
								4 ×
								1 ×
2 ×								2 ×
	2 ×							2 ×
		2 ×						2 ×
			2 ×					2 ×
				1 ×	1 ×			1 ×
						2 ×		1 ×
							1 ×	1 ×

		E-7A	E-7B ★	E-7C	E-14	E-6	E-6C
★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13)							
☛ 12.15			☛ 12.15				
Hinge joints ☛ 12.11	E-J 7 	2 ×	2 ×				
	E-J 7C 		2 ×	2 ×			
	E-J 14 		4 ×		2 ×		
Crossover joints ☛ 12.11	E-J 6 					2 ×	
	E-J 6C 						2 ×
Parallel joints ☛ 12.12	E-J 8 						
	E-J 9 						
Pipe extension ☛ 12.12	E-J 180 						
Sliding joints ☛ 12.13	E-J 12 						
	E-J 17 						
	E-J 18 						
	E-J 24 						

E-8	E-9	H-180	E-12	E-17	E-18	H-24		
								2 ×
								2 ×
								2 ×
								1 ×
								1 ×
2 ×								1 ×
	2 ×							1 ×
		2 ×						1 ×
			2 ×				1 ×	1 ×
				2 ×			1 ×	1 ×
					2 ×		2 ×	1 ×
						2 ×	1 ×	2 ×

2



Standard joints

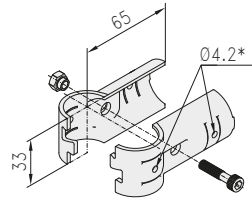
Technical data

material: steel

Comments

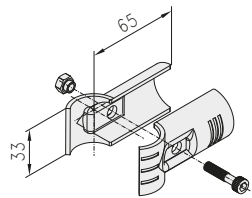
Connector screw and nut only with black or silver electroplated surface

Surface single parts		= □	= □
joint, complete, half shell		screw, nut	
black	= 1	black	= 1
nickel plated	= 2	silver electroplated	= 2
galvanised	= 3	silver electroplated	= 2



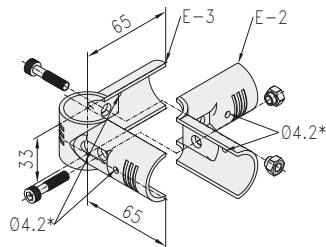
Description	Weight	Article No.
E-J 1 Joint, complete	149 g	21.121.01.□

Single parts	Pcs.		
★ Half shell E-1	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.□



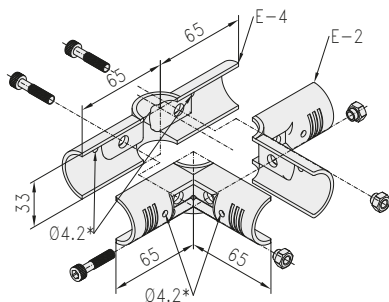
Description	Weight	Article No.
E-J 1C Joint, complete	129 g	21.121.02.□

Single parts	Pcs.		
Half shell E-1C	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.□



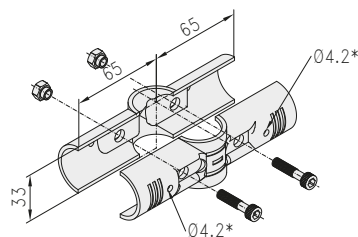
Description	Weight	Article No.
E-J 2 Joint, complete	239 g	21.121.03.□

Single parts	Pcs.		
★ Half shell E-2	1	96 g	21.121.03A.□
★ Half shell E-3	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.□



Description	Weight	Article No.
E-J 3 Joint, complete	329 g	21.121.05.□

Single parts	Pcs.		
★ Half shell E-2	2	96 g	21.121.03A.□
★ Half shell E-4	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.□



Description	Weight	Article No.
E-J 4 Joint, complete	238 g	21.121.04.□

Single parts	Pcs.		
★ Half shell E-4	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.□

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 12.15)

Standard joints

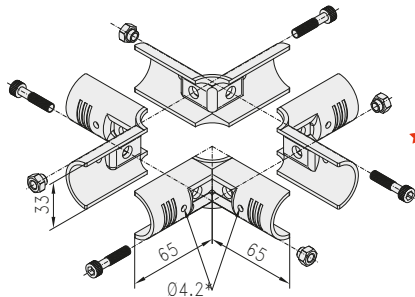
Technical data

material: steel

Comments

Connector screw and nut only with black or silver electroplated surface

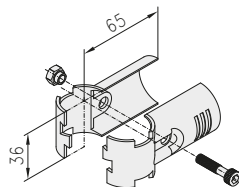
Surface single parts		= □	= □
joint, complete, half shell		screw, nut	
black	= 1	black	= 1
nickel plated	= 2	silver electroplated	= 2
galvanised	= 3	silver electroplated	= 2



Description	Weight	Article No.
E-J 5 Joint, complete	420 g	21.121.06.□

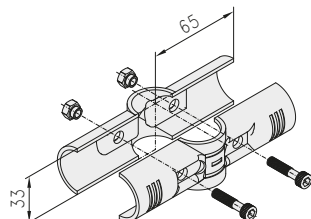
Single parts	Pcs.		
★ Half shell E-2	4	96 g	21.121.03A.□
Connector screw M6×25	4	7 g	0.63.0912.06025.□
Connector nut M6	4	2 g	21.99.61.A06.□

Standard joints overlapping joint



Description	Weight	Article No.
E-J 1L Joint, complete	141 g	21.121.11.□

Single parts	Pcs.		
Half shell E-1L	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.□



Description	Weight	Article No.
E-J 4L Joint, complete	238 g	21.121.14.□

Single parts	Pcs.		
Half shell E-4L	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.□

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 12.15)

Angle joints

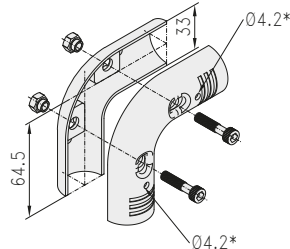
Technical data

material: steel

Comments

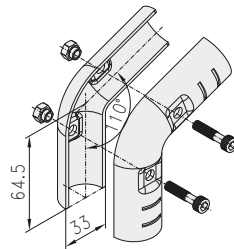
Connector screw and nut only with black or silver electroplated surface

Surface single parts		= □	= □
joint, complete, half shell		screw, nut	
black	= 1	black	= 1
⚠ nickel plated	= 2	⚠ silver electroplated	= 2
⚠ galvanised	= 3	⚠ silver electroplated	= 2



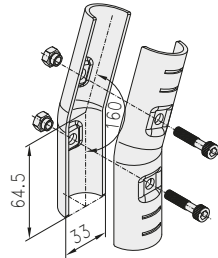
Description	Weight	Article No.
E-J 090 Joint, complete	232 g	21.121.21.090.□

Single parts	Pcs.			
★ Half shell E-090	2	107 g	21.121.21.090A.□	
Connector screw M6×25	2	7 g	0.63.0912.06025.□	
Connector nut M6	2	2 g	21.99.61.A06.□	



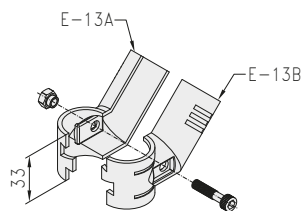
Description	Weight	Article No.
E-J 110 Joint, complete	232 g	21.121.21.110.□

Single parts	Pcs.			
Half shell E-110	2	107 g	21.121.21.110A.□	
Connector screw M6×25	2	7 g	0.63.0912.06025.□	
Connector nut M6	2	2 g	21.99.61.A06.□	



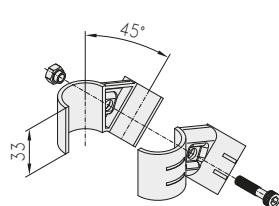
Description	Weight	Article No.
E-J 160 Joint, complete	232 g	21.121.21.160.□

Single parts	Pcs.			
Half shell E-160	2	107 g	21.121.21.160A.□	
Connector screw M6×25	2	7 g	0.63.0912.06025.□	
Connector nut M6	2	2 g	21.99.61.A06.□	



Description	Weight	Article No.
E-J 13 Joint, complete	155 g	21.121.22.□

Single parts	Pcs.			
Half shell E-13A	1	73 g	21.121.22A.□	
Half shell E-13B	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.□	



Description	Weight	Article No.
E-J 45 Joint, complete	232 g	21.121.22.045.□

Single parts	Pcs.			
Half shell H-45	2	107 g	21.121.22.045A.□	
Connector screw M6×25	1	7 g	0.63.0912.06025.□	
Connector nut M6	1	2 g	21.99.61.A06.□	

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 → 12.15)

Hinge joints

Technical data

material: steel

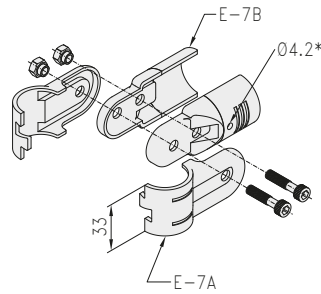
Comments

Connector screw and nut only with black or silver electroplated surface

Surface single parts		= □	= □
joint, complete, half shell		screw, nut	
black	= 1	black	= 1
nickel plated	= 2	silver electroplated	= 2
galvanised	= 3	silver electroplated	= 2



E-J 7

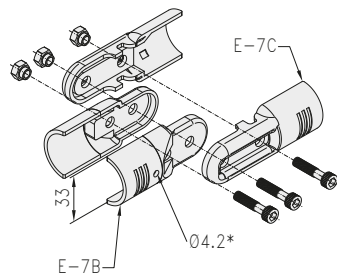


Description	Weight	Article No.
E-J 7 Joint, complete	234 g	21.121.23.□

Single parts	Pcs.		
Half shell E-7A	2	48 g	21.121.23A.□
★ Half shell E-7B	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.□



E-J 7C

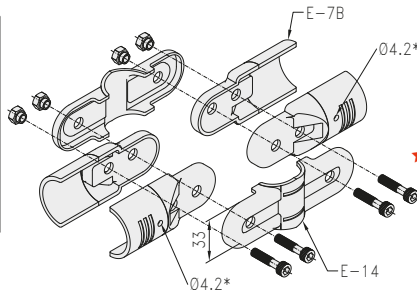


Description	Weight	Article No.
E-J 7C Joint, complete	281 g	21.121.25.□

Single parts	Pcs.		
Half shell E-7C	2	67 g	21.121.25A.□
★ Half shell E-7B	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.□



E-J 14



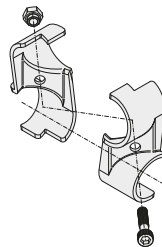
Description	Weight	Article No.
E-J 14 Joint, complete	394 g	21.121.24.□

Single parts	Pcs.		
Half shell E-14	2	59 g	21.121.24A.□
★ Half shell E-7B	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.□

Crossover joints



E-J 6

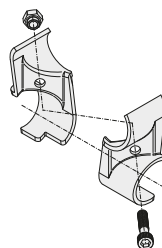


Description	Weight	Article No.
E-J 6 Joint, complete	109 g	21.121.31.□

Single parts	Pcs.		
Half shell E-6	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.□



E-J 6C



Description	Weight	Article No.
E-J 6C Joint, complete	97 g	21.121.32.□

Single parts	Pcs.		
Half shell E-6C	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.□

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 12.15)

Parallel joints

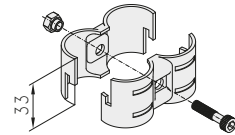
Technical data

material: steel

Comments

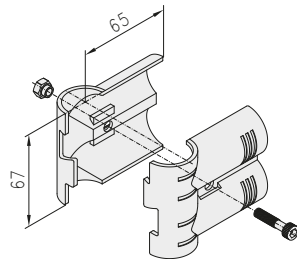
Connector screw and nut only with black or silver electroplated surface

Surface single parts		= □	= □
joint, complete, half shell			screw, nut
black	= 1		black = 1
nickel plated	= 2		silver electroplated = 2
galvanised	= 3		silver electroplated = 2



Description	Weight	Article No.
E-J 8 Joint, complete	121 g	21.121.41.□

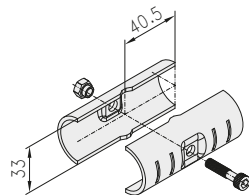
Single parts	Pcs.		
Half shell E-8	2	56 g	21.121.41A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□



Description	Weight	Article No.
E-J 9 Joint, complete	289 g	21.121.42.□

Single parts	Pcs.		
Half shell E-9	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.□

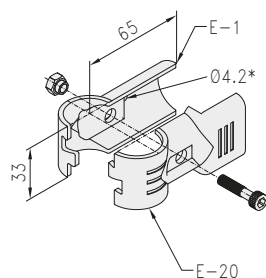
Pipe extension



Description	Weight	Article No.
E-J 180 Joint, complete	289 g	21.121.50.□

Single parts	Pcs.		
Half shell H-180	2	140 g	21.121.50A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

Flat pipe joint



Description	Weight	Article No.
E-J 20 Joint, complete	149 g	21.121.81.□

Single parts	Pcs.		
★ Half shell E-20	1	70 g	21.121.81A.□
Half shell E-1	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.□

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 ➡ 12.15)

Sliding joints

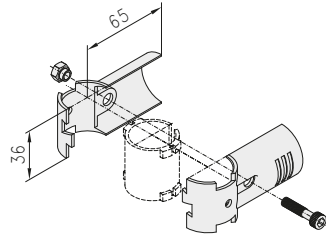
Technical data

material: steel

Comments

Connector screw and nut only with black or silver electroplated surface

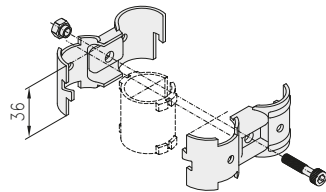
<b>Surface single parts</b> = <input type="checkbox"/>		= <input type="checkbox"/>	
joint, complete, half shell		screw, nut	
black	= 1	black	= 1
nickel plated	= 2	silver electroplated	= 2
galvanised	= 3	silver electroplated	= 2



Description	Weight	Article No.
E-J 12 Joint, complete	137 g	21.121.71.□

Single parts	Pcs.		
Half shell E-12	2	64 g	21.121.71A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

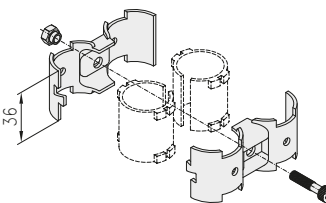
1 sliding sleeve is required. Please order separately (see below)



Description	Weight	Article No.
E-J 17 Joint, complete	135 g	21.121.72.□

Single parts	Pcs.		
Half shell E-17	2	63 g	21.121.72A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

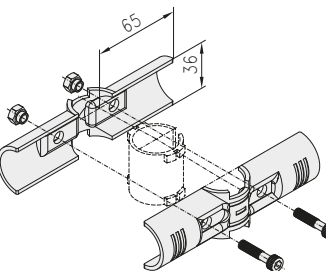
1 sliding sleeve is required. Please order separately (see below)



Description	Weight	Article No.
E-J 18 Joint, complete	123 g	21.121.73.□

Single parts	Pcs.		
Half shell E-18	2	57 g	21.121.73A.□
Connector screw M6×25	1	7 g	0.63.0912.06025.□
Connector nut M6	1	2 g	21.99.61.A06.□

2 sliding sleeves are required. Please order separately (see below)

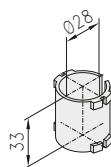


Description	Weight	Article No.
E-J 24 Joint, complete	224 g	21.121.74.□

Single parts	Pcs.		
Half shell H-24	2	103 g	21.121.74A.□
Connector screw M6×25	2	7 g	0.63.0912.06025.□
Connector nut M6	2	2 g	21.99.61.A06.□

1 sliding sleeve is required. Please order separately (see below)

Sliding sleeve

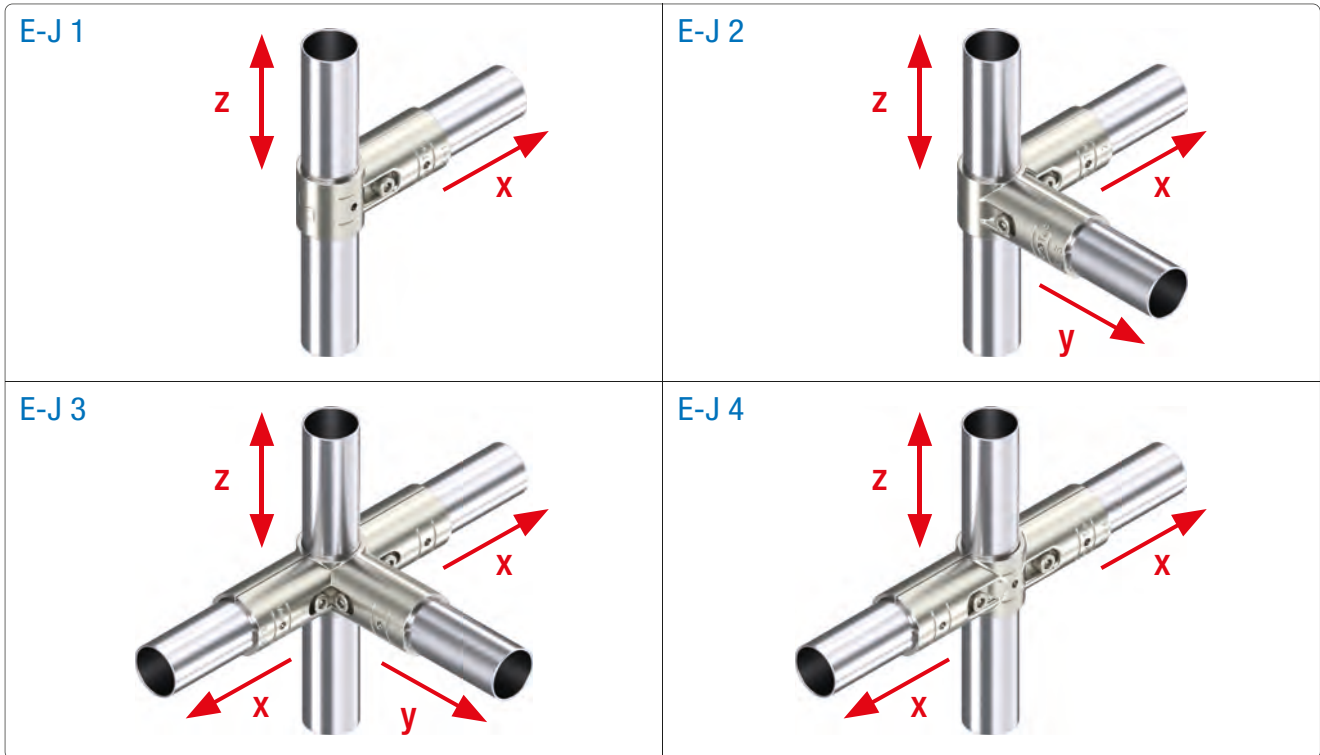


Technical data

material: PA

Description	Weight	Article No.
Sliding sleeve, black	6 g	21.121.70A.01
Sliding sleeve, black, ESD	6 g	21.121.70A.01E
Sliding sleeve, grey	6 g	21.121.70A.04





tightening torque



pull-out force

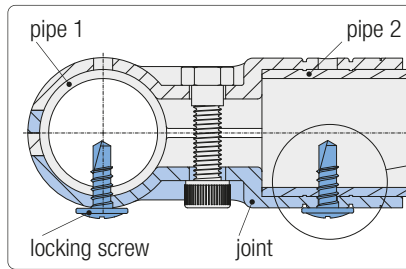
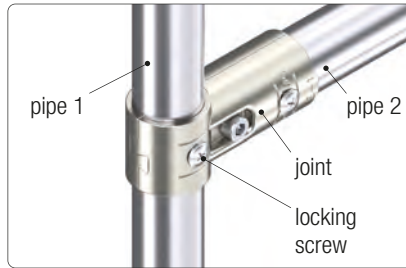


sliding force

wall thickness of pipe		tightening torque	max. load of joint				
steel, ABS coated	V4A		E-J 1		E-J 2, E-J 3, E-J 4		
[mm]	[mm]		x [kg]	z [kg]	x [kg]	y [kg]	z [kg]
0.7		14	120	180	60	60	180
1.0							
2.0							
	0.7	8	60	70	30	30	70
	1.2						

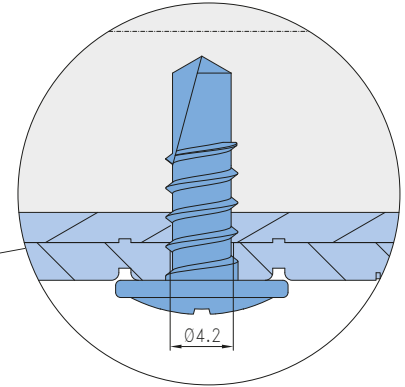
test results

**Locking screw  
drilling screw DIN 7504 4.2×13/19**



**Application**

- Increased load-bearing capacity against pull-out and sliding forces
- ESD connection



Description	Weight	Article No.
Drilling screw DIN 7504 M-H lens head PH with pressed washer		
M4.2×13, black	2 g	0.63.7504.4.2x131
M4.2×13, silver electroplated	2 g	0.63.7504.4.2x132
M4.2×19, black	3 g	0.63.7504.4.2x191
M4.2×19, silver electroplated	3 g	0.63.7504.4.2x192

<b>surface</b>	= <input type="checkbox"/>
black	= 1
nickel plated	= 2
galvanised	= 3

**Half shells with  
bore for locking screw**

Short description	Description	Article No.
E-1	Half shell E-1	21.121.01A. <input type="checkbox"/>
E-2	Half shell E-2	21.121.02A. <input type="checkbox"/>
E-3	Half shell E-3	21.121.03A. <input type="checkbox"/>
E-4	Half shell E-4	21.121.04A. <input type="checkbox"/>
E-090	Half shell E-090	21.121.21.090A. <input type="checkbox"/>
E-7B	Half shell E-7B	21.121.23B. <input type="checkbox"/>

**ESD connection**


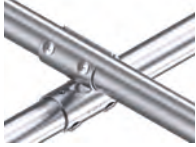













pipe 1, pipe 2	joint		
	black	nickel plated	galvanised
steel, ABS	-	-	-
steel, ABS, ESD	-		
stainless steel	-		
aluminium	-	-	-

ESD connections can be made by using steel, ABS, ESD or stainless steel pipes in combination with nickel-plated or galvanised joints.

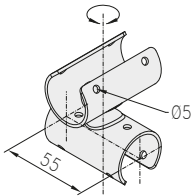




Product group

21.12 Connection elements						
Cross connector  12.18						
						
PS-A	PS-B					
Pipe extensions  12.18						
						
Panel holder  12.19						
						
type A	type B					
Slide pipe joints  12.19						
						
	with stop	union	with offset	Slide pipe bridge, square	Slide pipe bridge, rounded	

**Cross connector**



**Technical data**

material: steel

**Description**

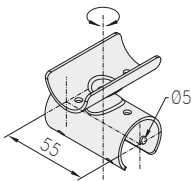
- ★ Cross connector PS-A, black
- ★ Cross connector PS-A, galvanised

**Weight**

110 g  
110 g

**Article No.**

21.121.33A.1  
21.121.33A.2



**Description**

- ★ Cross connector PS-B, black
- ★ Cross connector PS-B, galvanised

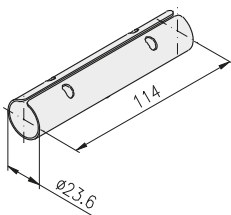
**Weight**

97 g  
97 g

**Article No.**

21.121.34A.1  
21.121.34A.2

**Pipe extensions**



**Technical data**

material: steel  
surface: galvanised

**Description**

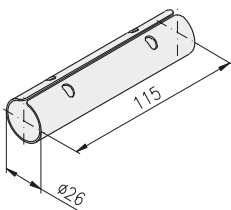
Pipe extension for ABS coated pipes

**Weight**

46 g

**Article No.**

21.121.51.2



**Application**

for simple connections  
for strong connections  
➡ 12.23, MayConnect

**Description**

Pipe extension for stainless steel pipes

**Weight**

50 g

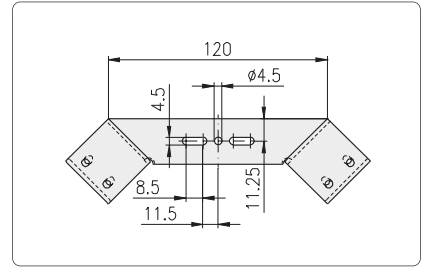
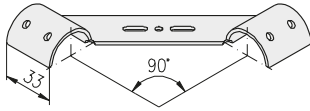
**Article No.**

21.121.52.2

- ★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 ➡ 12.15)

Panel holder

type A



Description

- ★ Panel holder, type A, black
- ★ Panel holder, type A, galvanised

Weight

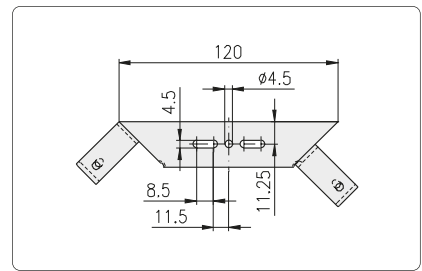
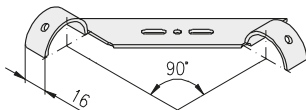
106 g  
106 g

Article No.

21.121.61.1  
21.121.61.2

2

type B



Description

- ★ Panel holder, type B, black
- ★ Panel holder, type B, galvanised

Weight

71 g  
71 g

Article No.

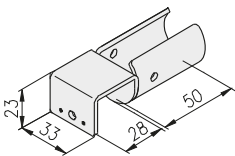
21.121.62.1  
21.121.62.2

Slide pipe joint



Technical data

material: steel  
surface: galvanised



Description

- ★ Slide pipe joint

Weight

115 g

Article No.

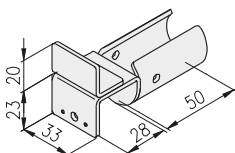
21.121.91.2

Slide pipe joint with stop



Technical data

material: steel  
surface: galvanised



Description

- ★ Slide pipe joint with stop

Weight

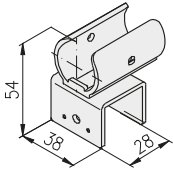
140 g

Article No.

21.121.92.2

- ★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 12.15)

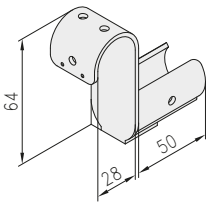
Slide pipe joint union



**Technical data**  
 material: steel  
 surface: galvanised

Description	Weight	Article No.
★ Slide pipe joint union	113 g	21.121.93.2

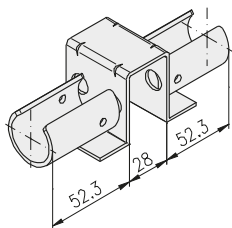
Slide pipe joint with offset



**Technical data**  
 material: steel  
 surface: galvanised

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

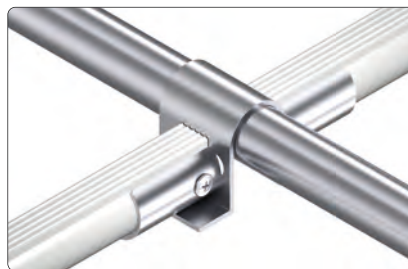
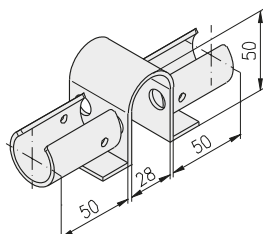
Slide pipe bridge square



**Technical data**  
 material: steel  
 surface: galvanised

Description	Weight	Article No.
★ Slide pipe bridge, square	235 g	21.121.95.2

Slide pipe bridge rounded



**Technical data**  
 material: steel  
 surface: galvanised

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

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 ➡ 12.15)

Product group

2

21.M MayConnect: Pipe connectors, inside



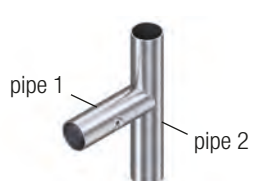

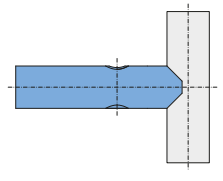
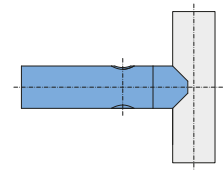
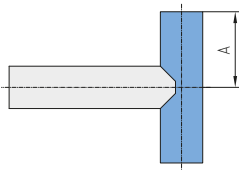
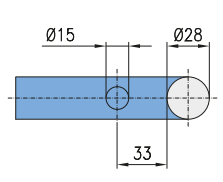
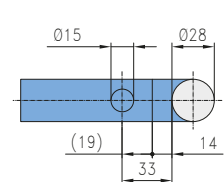
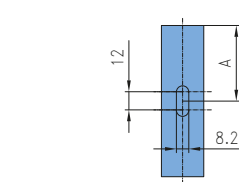


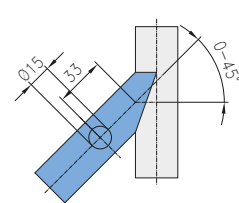
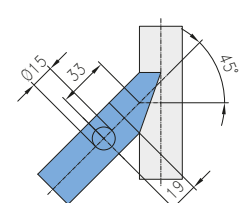
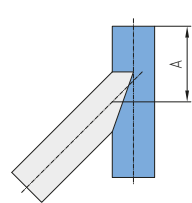
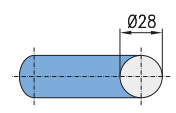
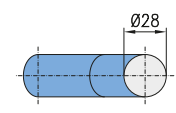
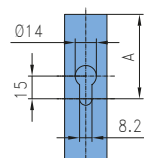


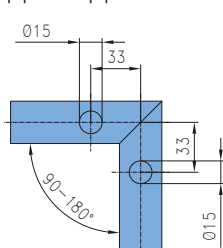
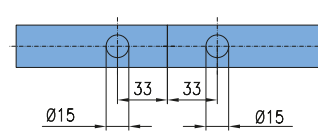

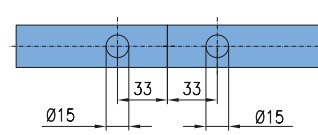
Patent pending

Connection	Connector	
<p>Ø28 Pipe ⇨ Ø28 Pipe</p>		
<p>Ø28 Pipe ⇨ Ø28 Pipe</p>		
<p>Ø28 Pipe ⇨ Pipe profile Ø28 (with slot)</p>		
<p>Ø28 Pipe ⇨ Profile (with slot)</p>		
<p>Ø28 Pipe ⇨ Panel element</p>		






















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












Connection	Pipe 1		Pipe 2
	w/o intermediary	with intermediary	
<b>Standard</b>  0°  pipe 1, pipe 2  90° 			
	<b>Machining</b>		
	 $\varnothing 15$ , $\varnothing 28$ , 33	 $\varnothing 15$ , $\varnothing 28$ , 33, 14, (19)	 12, A, 8.2
<b>Oblique</b>  0°   90° 	 $\varnothing 15$ , 33, 0-45°	 $\varnothing 15$ , 33, 15°, 14	 A
	<b>Machining</b>		
	 $\varnothing 28$	 $\varnothing 28$	 $\varnothing 14$ , A, 1.5, 8.2
<b>Miter</b>  0°   90° 	pipe 1 + pipe 2  $\varnothing 15$ , 33, 33, 33, 90-180°, $\varnothing 15$		
	pipe 1 + pipe 2  $\varnothing 15$ , 33, 33, $\varnothing 15$		
<b>Extension</b>  	pipe 1 + pipe 2  $\varnothing 15$ , 33, 33, $\varnothing 15$		













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

 E = Ground connector  
 VA = Stainless steel 1.4305

 PA = PA  
 AL = Aluminium

Connection with intermediary		Intermediary	
	Wall thickness Pipe 1		Article 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-45
	Aluminium 2.0		21.MR28A2028K-45
	ABS coated 1.0		21.MR28S10□□28K-45
	2.0		21.MR28S20□□28K-45
	Stainless steel 1.2		21.MR28V1228K-45
	Aluminium 2.0		21.MR28A2028K-45
	ABS coated 1.0		21.MR28S10□□28K-45
	2.0		21.MR28S20□□28K-45

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











Connection w/o intermediary	Wall thickness Pipe 1			Connector			Connector sleeve			
				Article No.		VA	Article No.		PA	AL
				steel standard	E					
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		Article 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-45
	Aluminium 2.0		21.MR28A2028K-45
	ABS coated 1.0		21.MR28S10□□28K-45
	2.0		21.MR28S20□□28K-45
	Stainless steel 1.2		21.MR28V1228K-45
	Aluminium 2.0		21.MR28A2028K-45
	ABS coated 1.0		21.MR28S10□□28K-45
	2.0		21.MR28S20□□28K-45

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














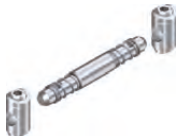

E = Ground connector  
VA = Stainless steel 1.4305

PA = PA  
AL = Aluminium



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



E = Ground connector  
VA = Stainless steel 1.4305

PA = PA  
AL = Aluminium

Pipe connector for Ø28 pipe ⇔ Ø28 pipe			Connectors, complete					
			Stainless steel 1.2			Aluminium 2.0		
			steel standard	E	VA	steel standard	E	VA
 	 	Standard	21.M28V1228T11		V	21.M28A2028T11	V	
		90°	21.M28V1228T12		V	21.M28A2028T12	V	
 	 	Oblique -hinge l+r	21.M28V1228K11		V	21.M28A2028K11	V	
		90° -hinge	21.M28V1228K12		V	21.M28A2028K12	V	
 	 	Miter-hinge l+r	21.M28V1228G11		V	21.M28A2028G11	V	
		90° -hinge l+r	21.M28V1228G12		V	21.M28A2028G12	V	
		Extension	21.M28V1228V11		V	21.M28A2028V11	V	
		Cross bushing, VA	21.MB1228V12V			21.MB1228A20V		

E = Ground connector, VA = Stainless steel 1.4305

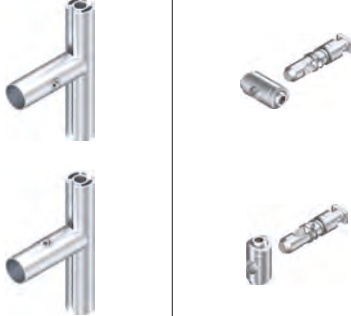


Steel, ABS coated						Single parts				
1.0			2.0			Anchor			Piece	
steel standard	E	VA	steel standard	E	VA	steel standard	E	VA		
21.M28S1028T21			21.M28S2028T21			21.MA1228T11		V	1	1
						21.MA1228T21			1	1
21.M28S1028T22			21.M28S2028T22			21.MA1228T12		V	1	1
						21.MA1228T22			1	1
21.M28S1028K21			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				

Single parts	
Anchor	
Base with spring	
Cross bushing	
Base with setscrew	



2

E = Ground connector, VA = Stainless steel 1.4305





Pipe connector for Ø28 pipe ⇨ pipe profile Ø28			Connectors, complete						
			Stainless steel 1.2			Aluminium 2.0			
			steel standard	E	VA	steel standard	E	VA	
	Standard			21.M28V1228T11		V	21.M28A2028T11		V
	90°			21.M28V1228T12		V	21.M28A2028T12		V
	Oblique -hinge l+r			21.M28V1228K11		V	21.M28A2028K11		V
	90° -hinge			21.M28V1228K12		V	21.M28A2028K12		V
		Cross bushing, VA			21.MB1228V12V		21.MB1228A20V		









E = Ground connector, VA = Stainless steel 1.4305


Steel, ABS coated						Single parts				
1.0			2.0			Anchor			Piece	
steel standard	E	VA	steel standard	E	VA	steel standard	E	VA		
21.M28S1028T11		V	21.M28S2028T11		V	21.MA1228T11		V	1	1
21.M28S1028T12		V	21.M28S2028T12		V	21.MA1228T12		V	1	1
21.M28S1028K11		V	21.M28S2028K11		V	21.MA1228K11		V	1	1
21.M28S1028K12		V	21.M28S2028K12		V	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	

2



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 21.M28V12EU11		V V	21.M28A20FU11 21.M28A20EU11		V V
		Standard	21.M28V12FT11 21.M28V12ET11		V V	21.M28A20FT11 21.M28A20ET11		V V
		90°	21.M28V12FT12 21.M28V12ET12		V V	21.M28A20FT12 21.M28A20ET12		V V
		Oblique -hinge l+r	21.M28V12FK11 21.M28V12EK11		V V	21.M28A20FK11 21.M28A20EK11		V V
		90° -hinge	21.M28V12FK12 21.M28V12EK12		V V	21.M28A20FK12 21.M28A20EK12		V V
		Screw-type -front sided	21.M28V12S11		V	21.M28A20S11		V

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

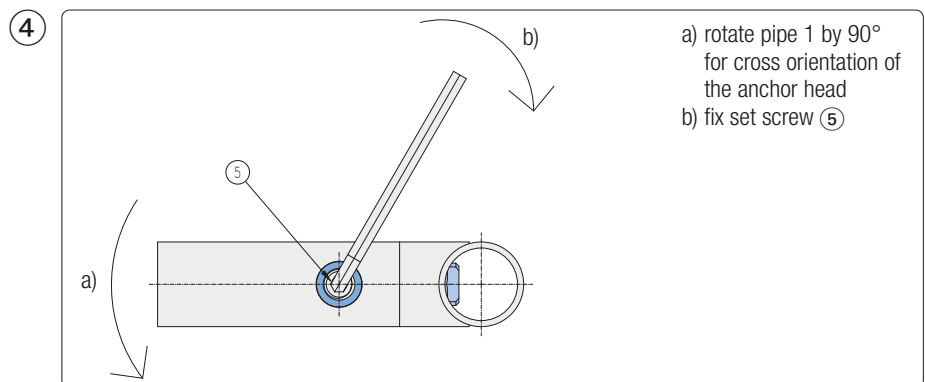
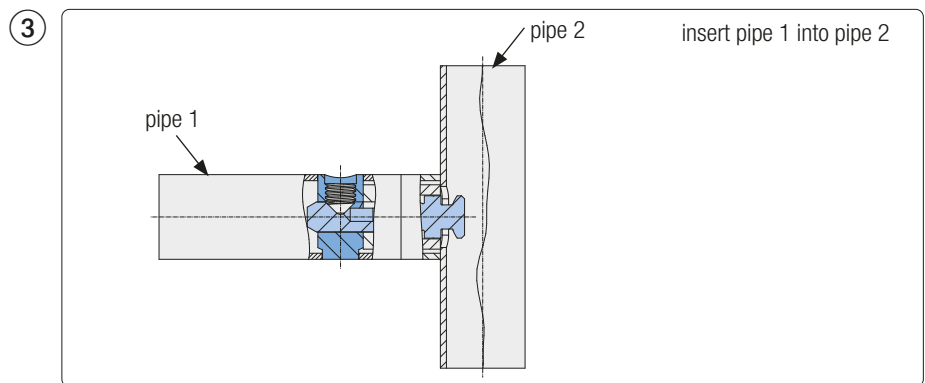
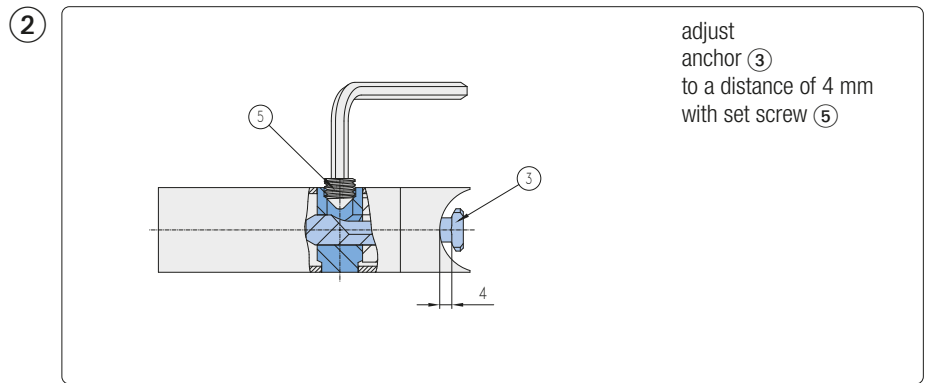
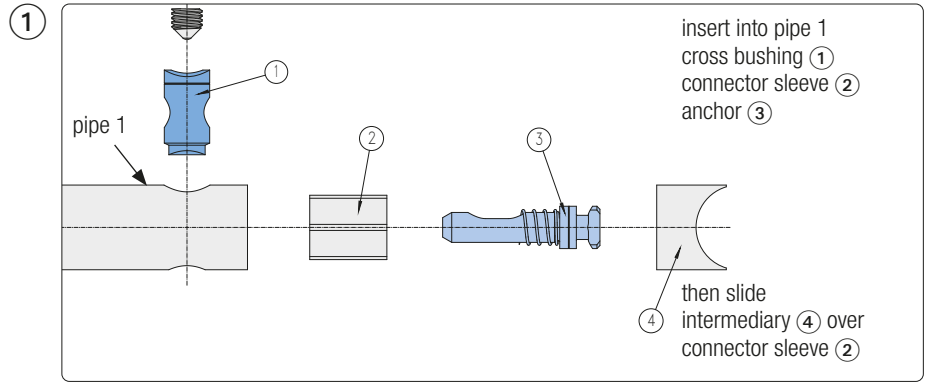
Steel, ABS coated						Single parts				
1.0			2.0			Anchor			Piece	
steel standard	E	VA	steel standard	E	VA	steel standard	E	VA		
21.M28S10FU11			21.M28S20FU11			1.21.A1F0		V	1	1
21.M28S10EU11			21.M28S20EU11			1.21.A1E0		V	1	1
21.M28S10FT11			21.M28S20FT11			1.21.A1F1		V	1	1
21.M28S10ET11			21.M28S20ET11			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	

2

Pipe connector, Standard with intermediary



Product group

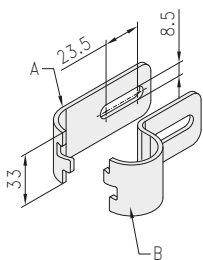
21.13 Mounting accessories					
Screw-on pipe clamps ➔ 13.02			Pipe clamps ➔ 13.04		
					
flush		center	center, sliding	single sided	double sided
Pipe clamps, pipe clips ➔ 13.04					
					
wide	Pipe clamps PE	Pipe clamps PE, type B	Pipe clips PE	Pipe quick lock	Pipe clip
Plate support ➔ 13.07		Adaptors ➔ 13.07			
					
Plate support, corner		Profile adaptor	Profile adaptor 90°	Pipe holder one piece	Profile adaptor two piece
Links, joints ➔ 13.09		Shock absorber ➔ 13.10			
					
Roller track link	Table top joint	Shock absorber	Shock absorber clamp		

Screw-on pipe clamp  
flush



**Technical data**  
material: steel

Surface single parts		= □
pipe clamp, complete / single part		
black	= 1	
nickel plated	= 2	
galvanised	= 3	



Description	Weight	Article No.
Screw-on pipe clamp, flush	117 g	21.13.00.□
<b>Single parts</b>		
	<b>Pcs.</b>	
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.□

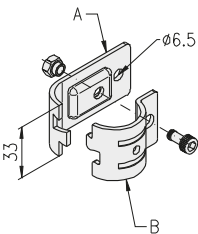
Screw-on pipe clamp



**Technical data**  
material: steel

**Comments**  
connector screw and nut only with black or silver electroplated surface

Surface single parts		= □	= □
pipe clamp, complete / single part		screw, nut	
black	= 1	black	= 1
nickel plated	= 2	silver electroplated	= 2
galvanised	= 3	silver electroplated	= 2



Description	Weight	Article No.
Screw-on pipe clamp	92 g	21.13.01.1
<b>Single parts</b>		
	<b>Pcs.</b>	
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.□

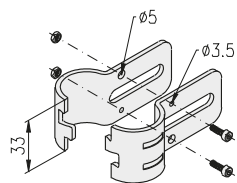
★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 12.15)

Screw-on pipe clamp center



**Technical data**  
material: steel

**Comments**  
screw and nut only with black or silver electroplated surface



Surface single parts		= □	= □
pipe clamp, complete / single part		screw, nut	
black	= 1	black	= 1
nickel plated	= 2	silver electroplated	= 2
galvanised	= 3	silver electroplated	= 2

Description	Weight	Article No.
Screw-on pipe clamp, center	104 g	21.13.02.□
<b>Single parts</b>		
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.□

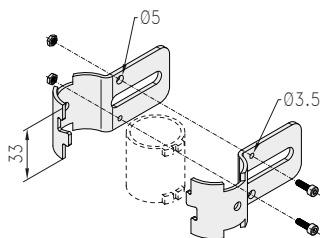
3

Screw-on pipe clamp center, sliding



**Technical data**  
material: steel

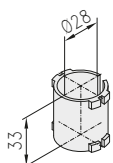
**Comments**  
screw and nut only with black or silver electroplated surface



Surface single parts		= □	= □
pipe clamp, complete / single part		screw, nut	
black	= 1	black	= 1
nickel plated	= 2	silver electroplated	= 2
galvanised	= 3	silver electroplated	= 2

Description	Weight	Article No.
Screw-on pipe clamp, center, sliding	122 g	21.13.02G.□
<b>Single parts</b>		
★ Screw-on pipe clamp, center, sliding, part A	2 59 g	21.13.02GA.□
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.□
1 sliding sleeve is required. Please order separately (see below).		

Sliding sleeve



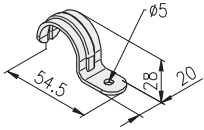
**Technical data**  
material: PA

Description	Weight	Article No.
Sliding sleeve, black	6 g	21.121.70A.01
Sliding sleeve, black, ESD	6 g	21.121.70A.01E
Sliding sleeve, grey	6 g	21.121.70A.04

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 12.15)

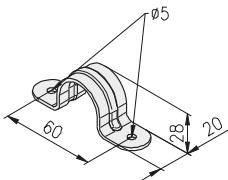


Single sided pipe clamp



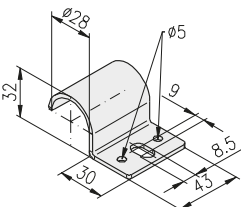
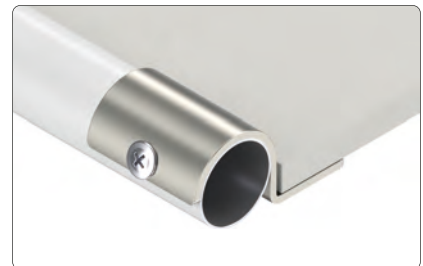
Description	Weight	Article No.
Single sided pipe clamp, nickel plated	22 g	21.13.03.2

Double sided pipe clamp



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

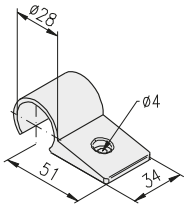
Pipe clamp wide



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

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 ➡ 12.15)

Pipe clamps PE



**Description**

Pipe clamp PE, black

**Weight**

14 g

**Article No.**

21.13.06.01



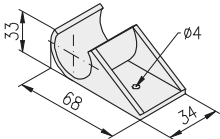
Pipe clamp PE, black, ESD

14 g

21.13.06.01E

3

Pipe clamps PE type B



**Description**

Pipe clamp PE, type B, black

**Weight**

16 g

**Article No.**

21.13.07.01

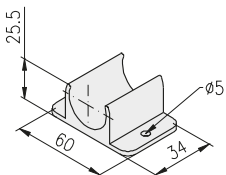


Pipe clamp PE, type B, black, ESD

16 g

21.13.07.01E

Pipe clips PE



**Description**

Pipe clip PE, black

**Weight**

13 g

**Article No.**

21.13.08.01

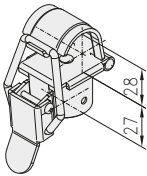


Pipe clip PE, black, ESD

13 g

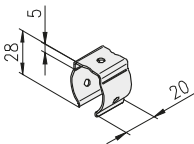
21.13.08.01E

Pipe quick lock



	Description	Weight	Article No.
★	Pipe quick lock, galvanised	125 g	21.13.09.2

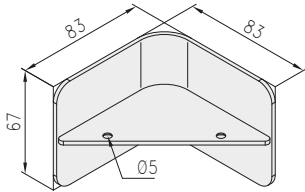
Pipe clip



	Description	Weight	Article No.
★	Pipe clip, galvanised	13 g	21.13.10.2

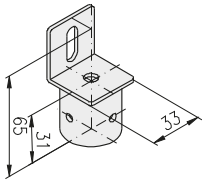
★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13  12.15)


Plate support, corner



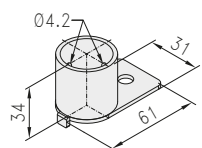
Description	Weight	Article No.
 Plate support, corner, galvanised	275 g	21.13.11.2

Profile adaptor



Description	Weight	Article No.
 Profile adaptor, galvanised	85 g	21.13.13.2

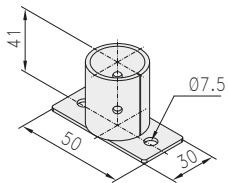
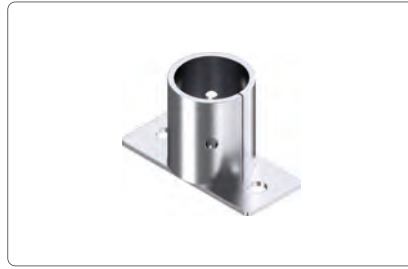
Profile adaptor 90°



Description	Weight	Article No.
 Profile adaptor 90°, galvanised	85 g	21.13.14.2

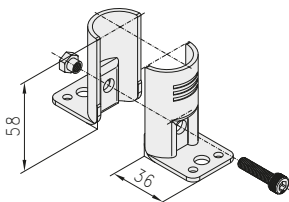
★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13  12.15)

**Pipe holder  
one piece**



Description	Weight	Article No.
 ★ Pipe holder, one piece, galvanised	110 g	21.13.142.2

**Profile adaptor  
two piece**



Description	Weight	Article No.
 Profile adaptor, two piece, black	123 g	21.13.150.1
Profile adaptor, two piece, nickel plated	123 g	21.13.150.2

**Single parts**

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

□  
black 1  
nickel plated / silver 2

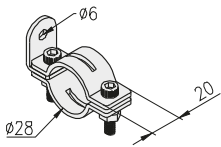
★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13  12.15)



Shock absorber



Shock absorber clamp



**Description**

Shock absorber clamp, nickel plated

**Weight**

116 g

**Article No.**

21.13.17.2

**Optional**

Cylindric head screw, DIN 6912 - M6×12

5 g

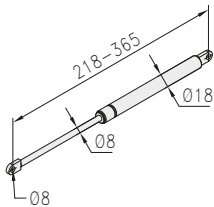
0.63.D06912.06012

Connector nut, silver

2 g

21.99.61.A06.2

Shock absorber



**Description**

Shock absorber

**Weight**







214 g

**Article No.**

21.13.18

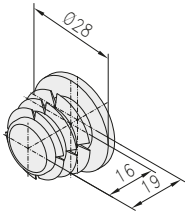
Product group


21.14 Caps, plugs and threaded inserts

Caps, plugs → 14.02				Threaded inserts → 14.04	
					
End caps	Cover caps	Rubber cap	End plugs	for ABS coated pipes	for stainless steel pipes

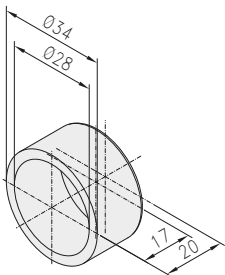
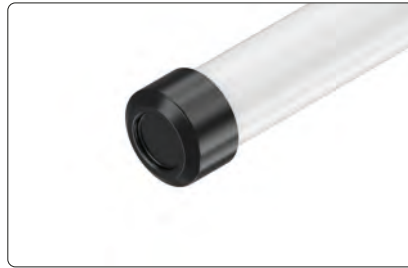



**End caps  
for all pipes**



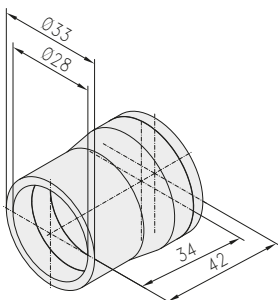
Description	Weight	Article No.
End cap, PE, black	3 g	21.14.01.01
 End cap, PE, black, ESD	3 g	21.14.01.01E
End cap, PE, ivory	3 g	21.14.01.03
End cap, PE, grey	3 g	21.14.01.04

**Cover caps**



Description	Weight	Article 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**

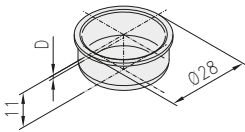


Description	Weight	Article No.
Rubber cap, black	25 g	21.14.02.RUB

**End plugs  
for ABS coated pipes**



**Technical data**  
material: steel



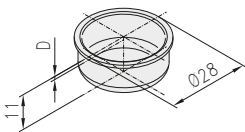
Description	D	wall thickness	Weight	Article No.
End plug for ABS coated pipes	0.7	0.7	7 g	21.14.03.07
End plug for ABS coated pipes	1.0	1.0	7 g	21.14.03.10

4

**End plugs  
for stainless steel pipes**

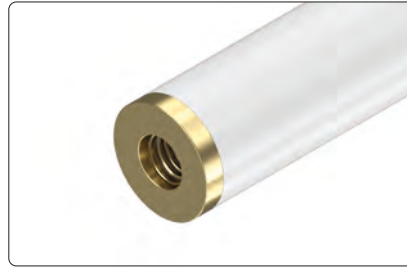


**Technical data**  
material: stainless steel



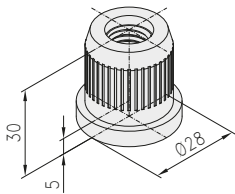
Description	D	wall thickness	Weight	Article No.
End plug for stainless steel pipes	0.7	0.7	7 g	21.14.04.07
End plug for stainless steel pipes	0.7	1.2	7 g	21.14.04.12

**Threaded inserts  
for ABS coated pipes**



**Technical data**

material: steel, yellow galvanised



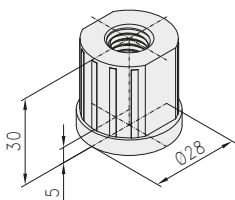
Description	wall thickness	Weight	Article No.
Threaded insert M12 for ABS coated pipes	0.7	83 g	21.14.05.07.1
Threaded insert 1/2" for ABS coated pipes	0.7	82 g	21.14.05.07.2
Threaded insert 5/8" for ABS coated pipes	0.7	68 g	21.14.05.07.3
Threaded insert M12 for ABS coated pipes	1.0	73 g	21.14.05.10.1
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**



**Technical data**

material: stainless steel



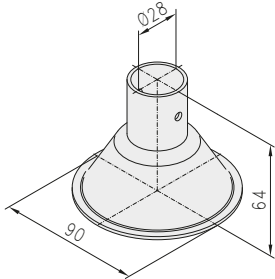
Description	wall thickness	Weight	Article No.
Threaded insert M12 for stainless steel pipes	0.7	99 g	21.14.06.07.1
Threaded insert 1/2" for stainless steel pipes	0.7	98 g	21.14.06.07.2
Threaded insert 5/8" for stainless steel pipes	0.7	75 g	21.14.06.07.3
Threaded insert M12 for stainless steel pipes	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

Product group

21.15 Feet, castors and footplates					
Slip on feet  15.02			Threaded feet  15.03		
round	square	flat	with rubber pad		flat
Castors, Blickle  15.09					
Fixed castors	Swivel castors	Swivel castors lockable			
Castors, Tente  15.14					
Series 2A  15.15		Series 2B  15.15			
Swivel castors	Swivel castors lockable	Fixed castors	Swivel castors	Swivel castors lockable	
Series 2C  15.15		Series 2D  15.15			
Swivel castors	Swivel castors lockable	Swivel castors	Swivel castors lockable		
Castors  15.21			Footplates for pipes  15.25		
Clamping bushes	Locking foot for castors	Castor mounting sets	Spacer plate	corner	corner left
Footplates for pipes  15.27			Forklift guides  15.29		
corner right	center with post	Screw-on element for castors with bolt hole	narrow		

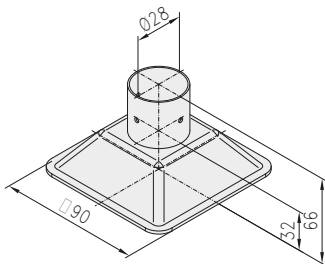
Slip on feet

round



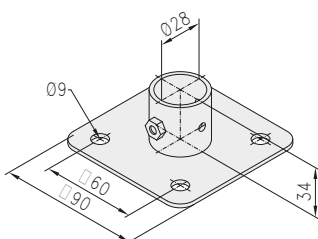
Description	Weight	Article No.
 ★ Slip on foot, round	250 g	21.15.01.2

square



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

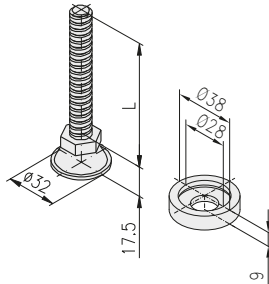
flat



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

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13  12.15)

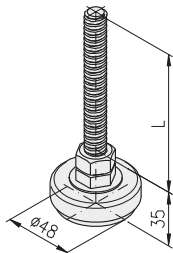
Threaded feet



Technical data

material: steel, galvanised

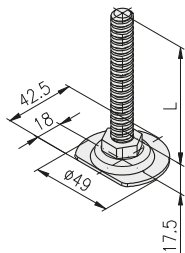
Description	G × L	Weight	Article No.
Threaded foot 32	M12 × 50	75 g	21.15.04.032050.1
Threaded foot 32	M12 × 82	95 g	21.15.04.032082.1
Rubber pad for threaded foot 32		8 g	21.15.04.032PAD



Technical data

material: stainless steel

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

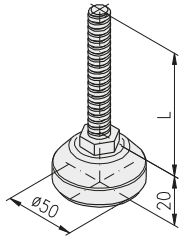


Technical data

material: steel, galvanised

Description	G × L	Weight	Article 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

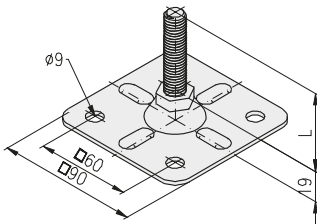
**Threaded feet with rubber pad**



**Technical data**  
material: steel, galvanised

Description	G × L	Weight	Article 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 flat**



**Technical data**  
material: steel, galvanised

Description	G × L	Weight	Article No.
Threaded foot, flat	M12 × 50	200 g	21.15.04.090050.1

	Article No.	Description	Load capacity [KN]	
			1 piece	4 pieces
	21.15.01.2	Slip on foot, round	15	20
	21.15.02.2	Slip on foot, square	15	20
	21.15.03.2	Slip on foot, flat	15	20
	21.15.04.032050.1	Threaded foot 32	7	11
	21.15.04.032082.1	Threaded foot 32	7	11
	21.15.04.048100.1	Threaded foot 48	8	13
	21.15.04.049050.1	Threaded foot 49	8	13
	21.15.04.049082.1	Threaded foot 49	8	13
	21.15.04.050050.1	Threaded foot 50 with rubber pad	8	13
	21.15.04.050082.1	Threaded foot 50 with rubber pad	8	13
	21.15.04.090050.1	Threaded foot, flat	8	12

**Fundamental - Requirements**

What requirements do you have for your application? It is important aspect to know what you require from your castors and wheels. Get to know the most important characteristics, define your requirements and find the right product for your needs.

**Load capacity**

The load capacity per roller is determined by the sum of the weight of the transport device and the maximum payload divided by 3:

$$\frac{\text{Total weight}}{3}$$

**Height**

The height of a castor is described as the total height when installed.



**Wheel diameter**

The larger the diameter, the easier obstacles are overcome.

**Temperature resistance**

Castors and wheels for applications from -40°C to +80°C are available.

**Electrically conductive**

To avoid electrostatic discharge, we offer castors and wheels in electrically conductive design.

**Corrosion resistance**

For castors and wheels used in humid environments or in contact with aggressive substances, TENTE offers versions with durable materials and surfaces.

**Mounting**

- Bolt hole
- Plate

Simple central screw connection  
Plate with multiple screw connection

**Brake**

- Wheel lock
- Directional lock
- Total lock
- Central braking

Prevents the rotation of the wheel  
Fixes the running direction of the movement  
Fixes the rotation and pivotal movement of the wheel  
Simultaneously fixes multiple castors

**Bearing**

- Bearings
- Roller bearing
- Precision ball bearing

Standard bearings, robust, moisture-resistant  
Standard bearings, robust, smooth running  
High performance bearings, for all areas

**Floor contact**

- Soft floors
- Hard floors

Harder wheels recommended  
Softer wheels recommended

**Tread**

- Soft materials
- Hard materials

Lower driving noise, stronger damping, higher protection of the cargo  
Increased driving noise, lower damping, less protection of the cargo






**Wear resistance**

- Flat ground
- Uneven ground

Lower rolling resistance, abrasion and wear  
Higher rolling resistance, abrasion and wear



**Abbreviations / Descriptions  
for components used**

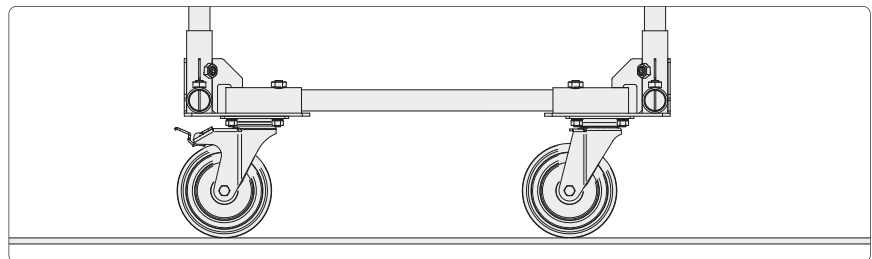
- DP = Spacer plate  15.24  
 FL = Foot plate por pipes, corner left  15.26  
 FM = Foot plate por pipes, center with post  15.29  
 FR = Foot plate por pipes, corner right  15.27  
 RB = Castor mounting set 126  15.23

**Rack with 2 castor sets**

**Withdrawal side** steerable  
**Loading side** steerable, brakeable

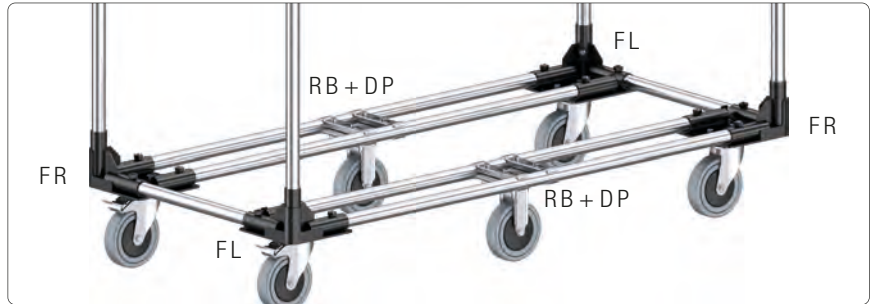


2 × FL  
 2 × FR

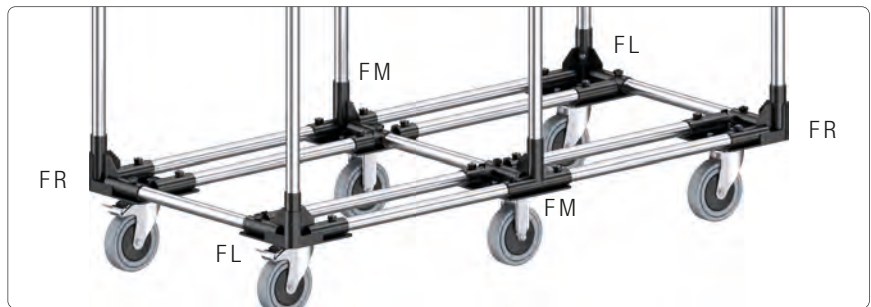
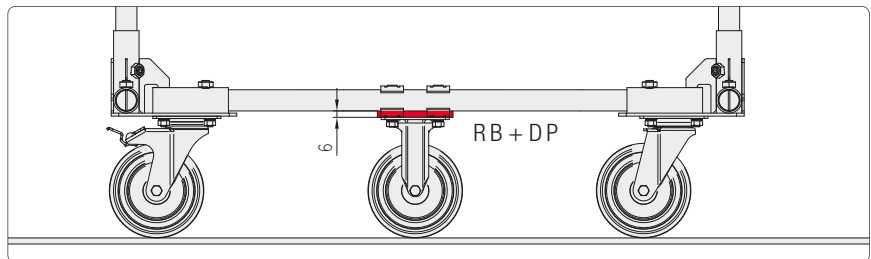


**Rack with 3 castor sets**

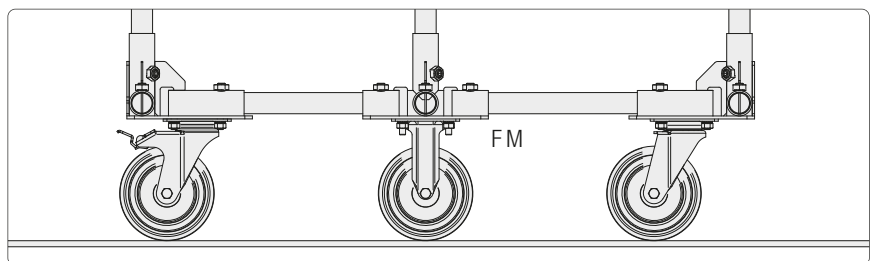
**Withdrawal side** steerable  
**Middle castors** fixed  
**Loading side** steerable, brakeable



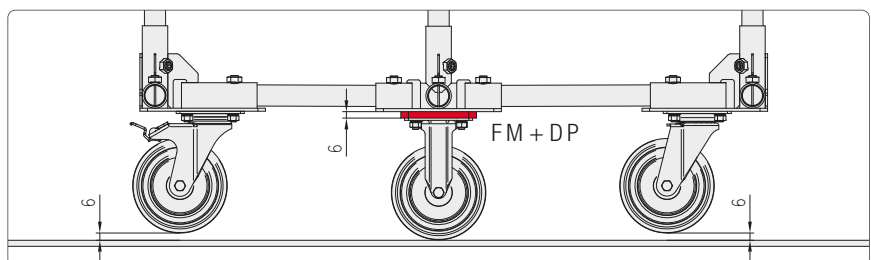
- 2 x FL
- 2 x FR
- 2 x RB
- 2 x DP - suitable for castors with plate:
  - Series 1A: Ø100, 125
  - Series 2B: Ø100, 125
  - Series 2C: Ø100, 125, 150
  - Series 2D: Ø100, 125




- 2 x FL
- 2 x FR
- 2 x FM












- 2 x FL
- 2 x FR
- 2 x FM
- 2 x DP - suitable for castors with plate:
  - Series 1A: Ø100, 125
  - Series 2B: Ø100, 125
  - Series 2C: Ø100, 125, 150
  - Series 2D: Ø100, 125

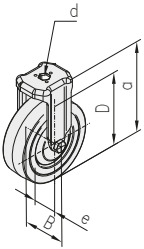
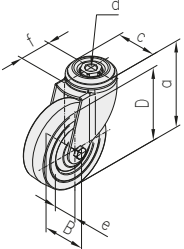
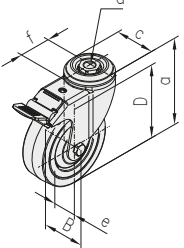
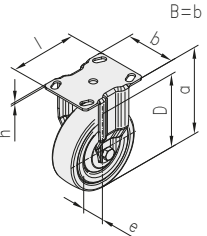
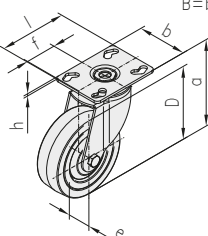
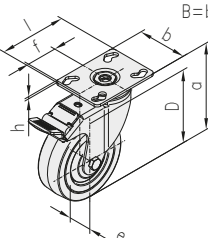




1.□□.□□□□□□	<b>Key</b>
1.□□.□□□□□□	The Profile System
1.45.□□□□□□	Castors
1.□□.□□□□□□	Type of castor:
1.□□.1□□□□□	Fixed castor
1.□□.2□□□□□	Swivel castor
1.□□.3□□□□□	Swivel castor, lockable
1.□□.□□□□□□	Fastening: Dimensions  15.12
1.□□.□1□□□□	Bolt hole
1.□□.□2□□□□	Fitting plate
1.□□.□□□□□□	Wheel diameter [mm]:
1.□□.□□050□	Ø50
1.□□.□□075□	Ø75
1.□□.□□100□	Ø100
1.□□.□□125□	Ø125
1.□□.□□□□□□	Conductivity:
1.□□.□□□□□E	ESD

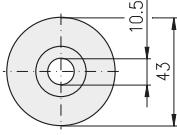
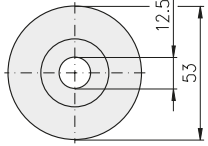
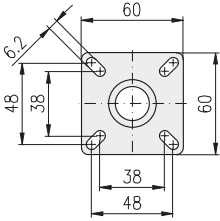
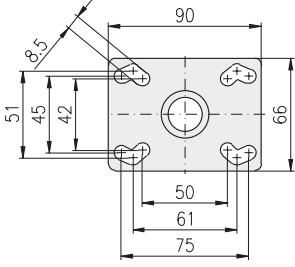
	
<b>Series</b>	<b>1A</b>
<b>Application</b>	High-quality steel castor for light transport equipment
<b>Type</b>	
Fixed castor	●
Swivel castor	●
Swivel castor lockable	●
<b>Fastening</b>	
Bolt hole	●
Fitting plate	●
<b>Housing</b>	Sheet steel, bright zinc plated, blue passivated
<b>Bearing</b>	Ball bearing
<b>Thread guard</b>	from wheel Ø75 mm
<b>Wheel</b>	
Wheel body	Polyamide
Tread	high-quality solid rubber, grey, non-marking
<b>Wheel (ESD)</b> 	
Wheel body	Polypropylene
Tread	high-quality solid rubber, black
<b>Advantages</b>	
Roll performance	●●●○○
Movement noise	●●●●○
Attrition	●●●●○
Corrosion resistance	●●●○○

Blicke	Description	Series	Wheel- Ø D [mm]	Overall height a [mm]	Load capacity [N]	Weight [g]	Article No.
	Fixed castor with bolt hole	1A	50	69	400	130	1.45.11050
	Fixed castor with bolt hole	1A	75	98	550	240	1.45.11075
	Fixed castor with bolt hole, ESD	1A	75	98	550	240	1.45.11075E
	Fixed castor with bolt hole	1A	100	133	800	500	1.45.11100
	Fixed castor with bolt hole, ESD	1A	100	133	800	500	1.45.11100E
	Fixed castor with bolt hole	1A	125	158	1,000	900	1.45.11125
	Swivel castor with bolt hole	1A	50	69	400	180	1.45.21050
	Swivel castor with bolt hole	1A	75	98	550	310	1.45.21075
	Swivel castor with bolt hole, ESD	1A	75	98	550	310	1.45.21075E
	Swivel castor with bolt hole	1A	100	133	800	680	1.45.21100
	Swivel castor with bolt hole, ESD	1A	100	133	800	680	1.45.21100E
	Swivel castor with bolt hole	1a	125	158	1,000	890	1.45.21125
	Swivel castor, lockable with bolt hole	1A	50	69	400	220	1.45.31050
	Swivel castor, lockable with bolt hole	1A	75	98	550	450	1.45.31075
	Swivel castor, lockable with bolt hole, ESD	1A	75	98	550	450	1.45.31075E
	Swivel castor, lockable with bolt hole	1A	100	133	800	840	1.45.31100
	Swivel castor, lockable with bolt hole, ESD	1A	100	133	800	840	1.45.31100E
	Swivel castor, lockable with bolt hole	1A	125	158	1,000	990	1.45.31125
	Fixed castor with fitting plate	1A	50	71	400	190	1.45.12050
	Fixed castor with fitting plate	1A	75	100	550	300	1.45.12075
	Fixed castor with fitting plate, ESD	1A	75	100	550	300	1.45.12075E
	Fixed castor with fitting plate	1A	100	136	800	610	1.45.12100
	Fixed castor with fitting plate, ESD	1A	100	136	800	610	1.45.12100E
	Fixed castor with fitting plate	1A	125	161	1,000	1,010	1.45.12125
	Swivel castor with fitting plate	1A	50	71	400	230	1.45.22050
	Swivel castor with fitting plate	1A	75	100	550	360	1.45.22075
	Swivel castor with fitting plate, ESD	1A	75	100	550	360	1.45.22075E
	Swivel castor with fitting plate	1A	100	136	800	780	1.45.22100
	Swivel castor with fitting plate, ESD	1A	100	136	800	780	1.45.22100E
	Swivel castor with fitting plate	1A	125	161	1,000	990	1.45.22125
	Swivel castor, lockable with fitting plate	1A	50	71	400	270	1.45.32050
	Swivel castor, lockable with fitting plate	1A	75	100	550	500	1.45.32075
	Swivel castor, lockable with fitting plate, ESD	1A	75	100	550	500	1.45.32075E
	Swivel castor, lockable with fitting plate	1A	100	136	800	940	1.45.32100
	Swivel castor, lockable with fitting plate, ESD	1A	100	136	800	940	1.45.32100E
	Swivel castor, lockable with fitting plate	1A	125	161	1,000	1,090	1.45.32125

		Castor width B [mm]	Dome- Ø c [mm]	Bolt hole-Ø d [mm]	Wheel width e [mm]	Offset f [mm]	Swivel interfer- ence-Ø [mm]	Size of plate l × b × h [mm]	Plate hole spacing [mm]	Plate hole-Ø [mm]
		36		11	18					
		44		11	25					
		44		11	25					
		55		13	32					
		55		13	32					
		55		13	32					
		43	43	11	18	23	96			
		44	43	11	25	29	133			
		44	43	11	25	29	133			
		57	57	13	32	40	182			
		57	57	13	32	40	182			
		57	57	13	32	40	205			
		43	43	11	18	24	140			
		44	43	11	25	28	147			
		44	43	11	25	28	147			
		57	57	13	32	40	212			
		57	57	13	32	40	212			
		57	57	13	32	40	211			
		60			18			60 × 60 × 2	48/38 × 48/38	6.2
		60			25			60 × 60 × 2	48/38 × 48/38	6.2
		60			25			60 × 60 × 2	48/38 × 48/38	6.2
		66			32			90 × 66 × 3	75/61/50 × 45/51/42	8.5
		66			32			90 × 66 × 3	75/61/50 × 45/51/42	8.5
		66			32			90 × 66 × 3	75/61/50 × 45/51/42	8.5
		66			32			90 × 66 × 3	75/61/50 × 45/51/42	8.5
		60			18	23	96	60 × 60 × 2	48/38 × 48/38	6.2
		60			25	29	133	60 × 60 × 2	48/38 × 48/38	6.2
		60			25	29	133	60 × 60 × 2	48/38 × 48/38	6.2
		66			32	40	180	90 × 66 × 3	75/61/50 × 45/51/42	8.5
		66			32	40	180	90 × 66 × 3	75/61/50 × 45/51/42	8.5
		66			32	40	205	90 × 66 × 3	75/61/50 × 45/51/42	8.5
		66			32	40	205	90 × 66 × 3	75/61/50 × 45/51/42	8.5
		60			18	24	140	60 × 60 × 2	48/38 × 48/38	6.2
		60			25	28	147	60 × 60 × 2	48/38 × 48/38	6.2
		60			25	28	147	60 × 60 × 2	48/38 × 48/38	6.2
		66			32	40	212	90 × 66 × 3	75/61/50 × 45/51/42	8.5
		66			32	40	212	90 × 66 × 3	75/61/50 × 45/51/42	8.5
		66			32	40	211	90 × 66 × 3	75/61/50 × 45/51/42	8.5
		66			32	40	211	90 × 66 × 3	75/61/50 × 45/51/42	8.5


Castor fastening  
Blicke







Series 1A

Castor-Ø [mm]	50 / 75	100 / 125
Bolt hole type		
Fitting plate type		

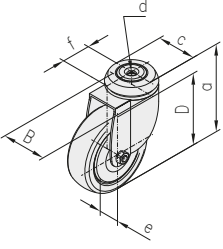
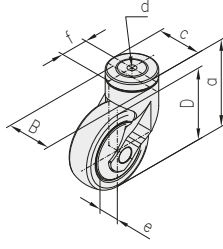
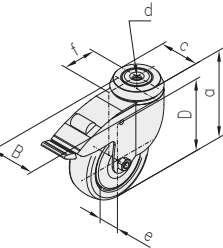
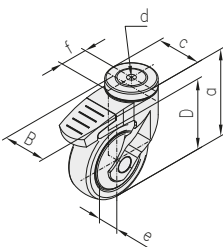
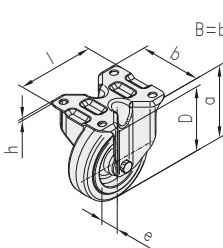




1.□□.□□□□□□□□.□□□□	<b>Key</b>
1.□□.□□□□□□□□.□□□□	The Profile System
1.45.□□□□□□□□.□□□□	Castors
1.□□.□□□□□□□□.□□□□	Manufacturer:
1.□□.2□□□□□□□.□□□□	Tente
1.□□.□□□□□□□□.□□□□	Series / letter
1.□□.□□□□□□□□.□□□□	Type of castor:
1.□□.□□1□□□□□.□□□□	Fixed castor
1.□□.□□2□□□□□.□□□□	Swivel castor
1.□□.□□3□□□□□.□□□□	Swivel castor, lockable
1.□□.□□□□□□□□.□□□□	Fastening: Dimensions  15.20
1.□□.□□□1□□□□.□□□□	Bolt hole
1.□□.□□□2□□□□.□□□□	Fitting plate
1.□□.□□□□□□□□.□□□□	Wheel diameter [mm]:
1.□□.□□□□050□□□□	Ø50
1.□□.□□□□075□□□□	Ø75
1.□□.□□□□100□□□□	Ø100
1.□□.□□□□125□□□□	Ø125
1.□□.□□□□150□□□□	Ø150
1.□□.□□□□160□□□□	Ø160
1.□□.□□□□200□□□□	Ø200
1.□□.□□□□□□□□.□□□□	Load capacity [N]
1.□□.□□□□□□□□.□□□□	ESD:
1.□□.□□□□□□□□.□□□1	w/o
1.□□.□□□□□□□□.□□□2	Electrically conductive
1.□□.□□□□□□□□.□□□3	Antistatic

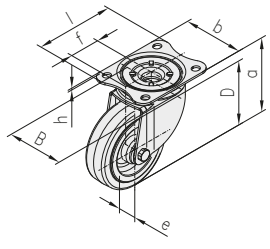
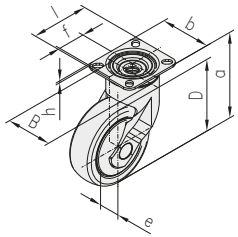
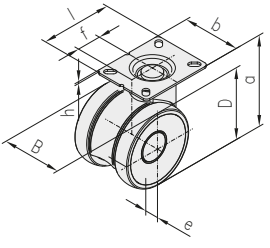
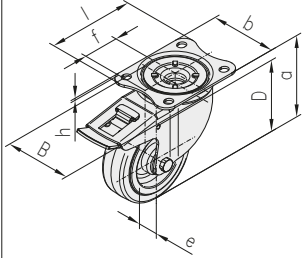
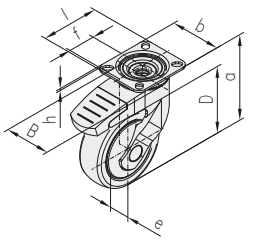
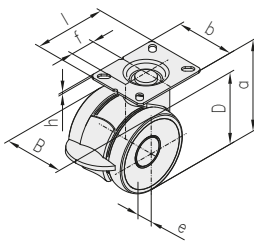
				
Series	2A	2B	2C	2D
Application	High-quality steel castor for light transport equipment	Solid steel castor for the transport of shock-sensitive goods	Design castor with with damping properties	Design castor with excellent running properties for all indoor floors
Type				
Fixed castor		●		
Swivel castor	●	●	●	●
Swivel castor lockable	●	●	●	●
Fastening				
Bolt hole	●		●	
Fitting plate		●	●	●
Housing	Sheet steel, bright zinc plated, blue passivated, swivel bearing with double ball race	Sheet steel, bright zinc plated, blue passivated, swivel bearing with double ball race, swivel bearing protection, wheel axle bolted	High-quality plastic, swivel bearing with double ball race	Load-bearing housing made of high-quality plastic, precision ball bearing as swivel bearing
Bearing	Precision ball bearing	Roller bearing	Precision ball bearing	Precision ball bearing
Thread guard	●		●	●
Wheel				
Wheel body	Polypropylene	Polyamide	Polypropylene	Polyamide
Tread	Thermoplastic rubber, non-marking	non-marking elastic tyre	Thermoplastic rubber, non-marking	Polyurethan
Wheel (ESD) 				
Wheel body	Polyamide, electrically conductive	Stainless steel	Polyamide, electrically conductive	Polyamide, electrically conductive
Tread	Injected polyurethane	Solid rubber, black	Injected polyurethane	Injected polyurethane
Advantages				
Roll performance	●●●○○	●●●○○	●●●○○	●●●●●
Movement noise	●●●○○	●●●●●	●●●○○	●●●○○
Attrition	●●●●○	●●●○○	●●●○○	●●●●○
Corrosion resistance	●●●○○	●●●○○	●●●○○	●●●○○

Tente	Description	Series	Wheel- Ø D [mm]	Overall height a [mm]	Load capacity [N]	Weight [g]	Article No.
	Swivel castor with bolt hole	2A	50	69	400	142	1.45.2A21050.0401
	Swivel castor with bolt hole	2A	75	100	750	252	1.45.2A21075.0751
	Swivel castor with bolt hole	2A	100	135	1,000	584	1.45.2A21100.1001
	 Swivel castor with bolt hole, ESD	2A	100	135	1,000	584	1.45.2A21100.1002
	Swivel castor with bolt hole	2A	125	160	1,000	661	1.45.2A21125.1001
	 Swivel castor with bolt hole, ESD	2A	125	160	1,000	661	1.45.2A21125.1002
	Swivel castor with bolt hole	2A	150	185	1,000	833	1.45.2A21150.1001
	 Swivel castor with bolt hole, ESD	2A	150	185	1,000	833	1.45.2A21150.1002
	Swivel castor with bolt hole	2C	100	137	1,000	429	1.45.2C21100.1001
	 Swivel castor with bolt hole, ESD	2C	100	137	1,000	468	1.45.2C21100.1002
	Swivel castor with bolt hole	2C	125	161	1,000	533	1.45.2C21125.1001
	 Swivel castor with bolt hole, ESD	2C	125	161	1,000	602	1.45.2C21125.1002
	Swivel castor with bolt hole	2C	150	190	1,000	626	1.45.2C21150.1001
	Swivel castor, lockable with bolt hole	2A	50	69	400	184	1.45.2A31050.0401
	Swivel castor, lockable with bolt hole	2A	75	100	750	297	1.45.2A31075.0751
	Swivel castor, lockable with bolt hole	2A	100	135	1,000	760	1.45.2A31100.1001
	 Swivel castor, lockable with bolt hole, ESD	2A	100	135	1,000	760	1.45.2A31100.1002
	Swivel castor, lockable with bolt hole	2A	125	160	1,000	833	1.45.2A31125.1001
	 Swivel castor, lockable with bolt hole, ESD	2A	125	160	1,000	833	1.45.2A31125.1002
	Swivel castor, lockable with bolt hole	2A	150	185	1,000	981	1.45.2A31150.1001
	 Swivel castor, lockable with bolt hole, ESD	2A	150	185	1,000	981	1.45.2A31150.1002
	Swivel castor, lockable with bolt hole	2C	100	137	1,000	474	1.45.2C31100.1001
	 Swivel castor, lockable with bolt hole, ESD	2C	100	137	1,000	503	1.45.2C31100.1002
	Swivel castor, lockable with bolt hole	2C	125	161	1,000	577	1.45.2C31125.1001
	 Swivel castor, lockable with bolt hole, ESD	2C	125	161	1,000	648	1.45.2C31125.1002
	Swivel castor, lockable with bolt hole	2C	150	190	1,000	688	1.45.2C31150.1001
	Fixed castor with fitting plate	2B	100	128	1,600	494	1.45.2B12100.1601
	 Fixed castor with fitting plate, ESD	2B	100	128	700	511	1.45.2B12100.0702
	Fixed castor with fitting plate	2B	125	155	2,500	814	1.45.2B12125.2501
	 Fixed castor with fitting plate, ESD	2B	125	155	1,000	918	1.45.2B12125.1002
	Fixed castor with fitting plate	2B	160	200	3,000	1,741	1.45.2B12160.3001
	 Fixed castor with fitting plate, ESD	2B	160	200	1,350	1,772	1.45.2B12160.1352
	Fixed castor with fitting plate	2B	200	240	4,000	2,251	1.45.2B12200.4001
	 Fixed castor with fitting plate, ESD	2B	200	240	2,050	2,795	1.45.2B12200.2051

		Castor width B [mm]	Dome- Ø c [mm]	Bolt hole-Ø d [mm]	Wheel width e [mm]	Offset f [mm]	Swivel interfer- ence-Ø [mm]	Size of plate l × b × h [mm]	Plate hole spacing [mm]	Plate hole-Ø [mm]
	43	41	11	18	24	98				
	43	43	11	25	24	123				
	60	60	11	32	38	176				
	60	60	11	32	38	176				
	60	60	11	32	41	207				
	60	60	11	32	41	207				
	60	60	11	32	45	240				
	60	60	11	32	45	240				
	59	59	11	32	36	172				
	59	59	11	32	36	172				
	59	59	11	32	38	201				
	59	59	11	32	38	201				
	59	59	11	32	38	226				
	43	41	11	18	24	164				
	43	43	11	25	24	160				
	60	60	11	32	38	262				
	60	60	11	32	38	262				
	60	60	11	32	41	262				
	60	60	11	32	41	262				
	60	60	11	32	45	262				
	60	60	11	32	45	262				
	59	59	11	32	36	196				
	59	59	11	32	32	196				
	59	59	11	32	38	201				
	59	59	11	32	38	201				
	59	59	11	32	38	240				
	85			34			103 × 85 × 2	80/77 × 60	9.0	
	85			30			103 × 85 × 2	80/77 × 60	9.0	
	85			40			103 × 85 × 2	80/77 × 60	9.0	
	85			37			103 × 85 × 2	80/77 × 60	9.0	
	115			46			137 × 115 × 3	105 × 80/75	11.0	
	115			40			137 × 115 × 3	105 × 80/75	11.0	
	115			46			137 × 115 × 3	105 × 80/75	11.0	
	115			50			137 × 115 × 3	105 × 80/75	11.0	

Castor fastening: Dimensions ➔ 15.20

Tente	Description	Series	Wheel- Ø D [mm]	Overall height a [mm]	Load capacity [N]	Weight [g]	Article No.
	Swivel castor with fitting plate	2B	100	128	1,600	810	1.45.2B22100.1601
	 Swivel castor with fitting plate, ESD	2B	100	128	700	875	1.45.2B22100.0702
	Swivel castor with fitting plate	2B	125	155	2,500	1,030	1.45.2B22125.2501
	 Swivel castor with fitting plate, ESD	2B	125	155	1,000	1,150	1.45.2B22125.1002
	Swivel castor with fitting plate	2B	160	200	3,000	2,187	1.45.2B22160.3001
	 Swivel castor with fitting plate, ESD	2B	160	200	1,350	2,376	1.45.2B22160.1352
	Swivel castor with fitting plate	2B	200	240	4,000	2,669	1.45.2B22200.4001
 Swivel castor with fitting plate, ESD	2B	200	240	2,050	2,904	1.45.2B22200.2051	
	Swivel castor with fitting plate	2C	100	137	1,000	471	1.45.2C22100.1001
	 Swivel castor with fitting plate, ESD	2C	100	137	1,000	499	1.45.2C22100.1002
	Swivel castor with fitting plate	2C	125	161	1,000	562	1.45.2C22125.1001
	 Swivel castor with fitting plate, ESD	2C	125	161	1,000	633	1.45.2C22125.1002
	Swivel castor with fitting plate	2C	150	190	1,000	669	1.45.2C22150.1001
	Swivel castor with fitting plate	2D	100	125	1,200	916	1.45.2D22100.1201
	 Swivel castor with fitting plate, ESD	2D	100	125	1,200	917	1.45.2D22100.1202
	Swivel castor with fitting plate	2D	125	150	1,300	1,141	1.45.2D22125.1301
	 Swivel castor with fitting plate, ESD	2D	125	150	1,300	1,148	1.45.2D22125.1302
	Swivel castor with fitting plate	2D	150	176	1,500	1,723	1.45.2D22150.1501
	 Swivel castor with fitting plate, ESD	2D	150	176	1,500	1,735	1.45.2D22150.1502
	Swivel castor, lockable with fitting plate	2B	100	128	1,600	990	1.45.2B32100.1601
	 Swivel castor, lockable with fitting plate, ESD	2B	100	128	700	1,054	1.45.2B32100.0702
	Swivel castor, lockable with fitting plate	2B	125	155	2,500	1,146	1.45.2B32125.2501
	 Swivel castor, lockable with fitting plate, ESD	2B	125	155	1,000	1,311	1.45.2B32125.1002
	Swivel castor, lockable with fitting plate	2B	160	200	3,000	2,548	1.45.2B32160.3001
	 Swivel castor, lockable with fitting plate, ESD	2B	160	200	1,350	2,579	1.45.2B32160.1352
	Swivel castor, lockable with fitting plate	2B	200	240	4,000	2,987	1.45.2B32200.4001
 Swivel castor, lockable with fitting plate, ESD	2B	200	240	2,050	3,555	1.45.2B32200.2051	
	Swivel castor, lockable with fitting plate	2C	100	137	1,000	516	1.45.2C32100.1001
	 Swivel castor, lockable with fitting plate, ESD	2C	100	137	1,000	537	1.45.2C32100.1002
	Swivel castor, lockable with fitting plate	2C	125	161	1,000	617	1.45.2C32125.1001
	 Swivel castor, lockable with fitting plate, ESD	2C	125	161	1,000	682	1.45.2C32125.1002
	Swivel castor, lockable with fitting plate	2C	150	190	1,000	713	1.45.2C32150.1001
	Swivel castor, lockable with fitting plate	2D	100	125	1,200	985	1.45.2D32100.1201
	 Swivel castor, lockable with fitting plate, ESD	2D	100	125	1,200	986	1.45.2D32100.1202
	Swivel castor, lockable with fitting plate	2D	125	150	1,300	1,209	1.45.2D32125.1301
	 Swivel castor, lockable with fitting plate, ESD	2D	125	150	1,300	1,216	1.45.2D32125.1302
	Swivel castor, lockable with fitting plate	2D	150	176	1,500	1,993	1.45.2D32150.1501
	 Swivel castor, lockable with fitting plate, ESD	2D	150	176	1,500	2,008	1.45.2D32150.1502

		Castor width B [mm]	Dome-Ø c [mm]	Bolt hole-Ø d [mm]	Wheel width e [mm]	Offset f [mm]	Swivel interference-Ø [mm]	Size of plate l × b × h [mm]	Plate hole spacing [mm]	Plate hole-Ø [mm]
	75	75		34	40	180	105 × 80 × 2.5	80/77 × 60	9.0	
	75	75		30	40	180	105 × 80 × 2.5	80/77 × 60	9.0	
	75	75		40	40	205	105 × 80 × 2.5	80/77 × 60	9.0	
	75	75		37	40	205	105 × 80 × 2.5	80/77 × 60	9.0	
	96	96		46	55	270	137 × 105 × 3.5	105 × 80/75	11.0	
	96	96		40	55	270	137 × 105 × 3.5	105 × 80/75	11.0	
	96	96		46	55	310	137 × 105 × 3.5	105 × 80/75	11.0	
	96	96		50	55	310	137 × 105 × 3.5	105 × 80/75	11.0	
	59	59		32	36	172	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	36	172	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	38	201	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	38	201	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	38	226	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	82	52		20	32	180	96 × 78 × 2.5	80/77 × 60	9.0	
	82	52		20	32	180	96 × 78 × 2.5	80/77 × 60	9.0	
	82	52		20	40	218	96 × 78 × 2.5	80/77 × 60	9.0	
	82	52		20	40	218	96 × 78 × 2.5	80/77 × 60	9.0	
	89	56		22	52	218	137 × 105 × 3.5	105 × 80/75	11.0	
	89	56		22	52	218	137 × 105 × 3.5	105 × 80/75	11.0	
	75	75		34	41	246	105 × 80 × 2.5	80/77 × 60	9.0	
	75	75		30	41	246	105 × 80 × 2.5	80/77 × 60	9.0	
	75	75		40	40	246	105 × 80 × 2.5	80/77 × 60	9.0	
	75	75		37	40	246	105 × 80 × 2.5	80/77 × 60	9.0	
	96	96		46	60	334	137 × 105 × 3.5	105 × 80/75	11.0	
	96	96		40	60	334	137 × 105 × 3.5	105 × 80/75	11.0	
	96	96		46	55	334	137 × 105 × 3.5	105 × 80/75	11.0	
	96	96		50	55	334	137 × 105 × 3.5	105 × 80/75	11.0	
	59	59		32	36	196	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	36	196	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	38	201	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	39	201	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	38	240	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	82	52		20	32	216	96 × 78 × 2.5	80/77 × 60	9.0	
	82	52		20	32	216	96 × 78 × 2.5	80/77 × 60	9.0	
	82	52		20	40	258	96 × 78 × 2.5	80/77 × 60	9.0	
	82	52		20	40	258	96 × 78 × 2.5	80/77 × 60	9.0	
	89	56		22	52	312	137 × 105 × 3.5	105 × 80/75	11.0	
	89	56		22	52	312	137 × 105 × 3.5	105 × 80/75	11.0	

Castor fastening  
Tente

Series 2A

Castor-Ø [mm]	50 / 75 / 100 / 125 / 150
Bolt hole type	

Series 2B

Castor-Ø [mm]	100 / 125	160 / 200
Fitting plate type		

Series 2C

Castor-Ø [mm]	100 / 125 / 150
Bolt hole type	
Fitting plate type	

Series 2D

Castor-Ø [mm]	100 / 125	150
Fitting plate type		

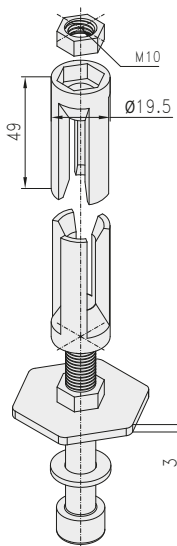
**Clamping bush**



**Application**  
For mounting of castors



**Plastic**

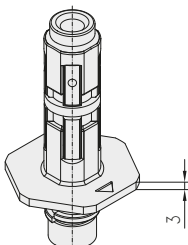


**Technical data**

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

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

**Steel**



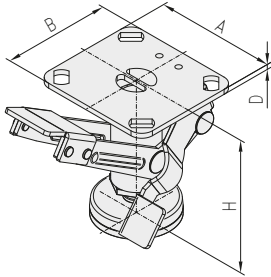
**Technical data**

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

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



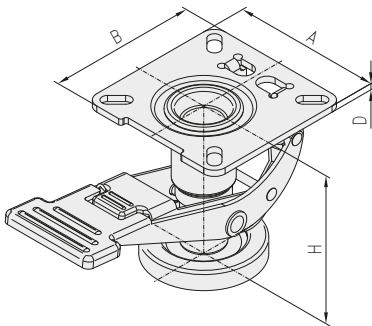
**Locking foot for castors**



**Technical data**

material: steel, galvanised  
max. static load: 500 N

Description	Ø	A	B	D	H	Weight	Article No.
Locking foot for castors	100	97	87	4	120 - 147	1,150 g	21.15.18.100
Locking foot for castors	150	120	120	5	153 - 200	2,455 g	21.15.18.150



**Technical data**

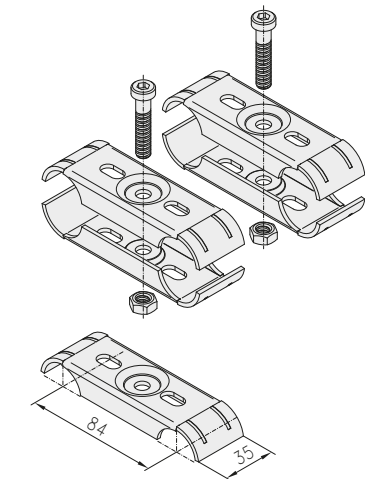
material: steel, galvanised  
max. static load: 500 N

Description	Ø	A	B	D	H	Weight	Article No.
Locking foot for castors	125	120	120	4	125 - 152	1,470 g	21.15.18.125

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



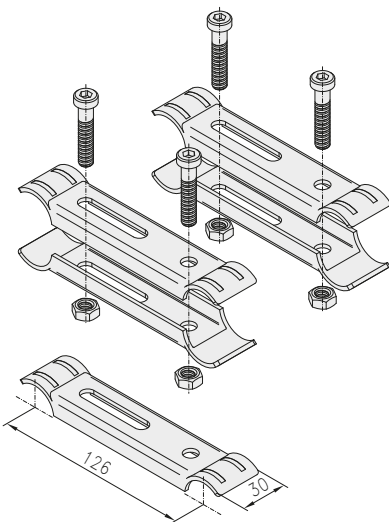
**Technical data**  
material: steel, galvanised



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

**Single parts**

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

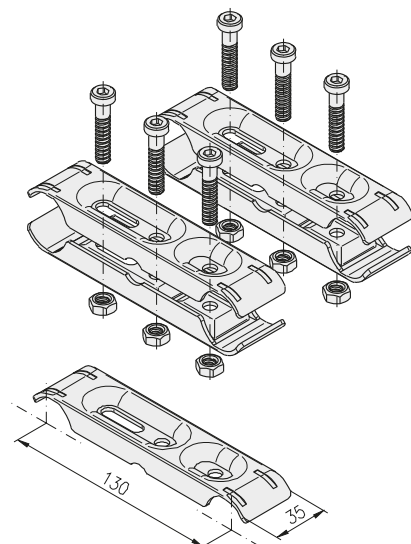


Description	Weight	Article No.
Castor mounting set 126	548 g	21.15.19.02

**Single parts**

Description	Pcs.	Weight	Article 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

Height compensation ➡ *spacer plate 15.24*



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

**Single parts**

Description	Pcs.	Weight	Article 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

Spacer plate

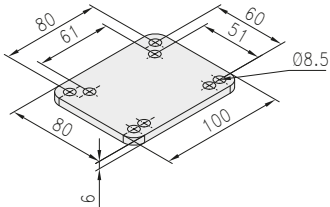


**Application**

For height compensation when using the castor mounting set 126 (➔ 15.23)

**Technical data**

material: steel  
surface: galvanised



Description	Weight	Article No.
Spacer plate, galvanised	250 g	21.15.19.10.2

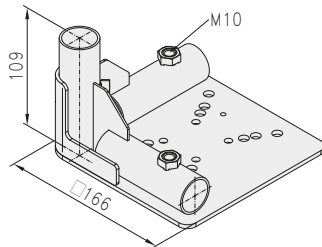
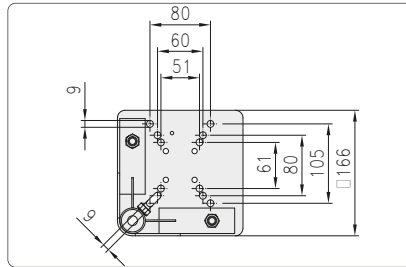
**Footplates for pipes corner**

**Technical data**

material: steel

**Delivery unit**

incl. 4 × set screw (black or galvanised)



Description	Surface	Weight	Article No.
Footplate, corner	black	1,610 g	21.15.20.EHV.1
Footplate, corner	galvanised	1,610 g	21.15.20.EHV.2


**Fastening elements**

Description	Weight	Article No.
Set screw M10×12, with cupped gripping point, black	4.0 g	0.63.0916.10012.1
Set screw M10×12, with cupped gripping point, galvanised	4.0 g	0.63.0916.10012.2

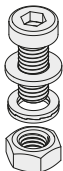
4 pcs. per footplate required

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

4 sets per castor required

**Single parts of the mounting set**

Description	Pcs.	Weight	Article 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 left

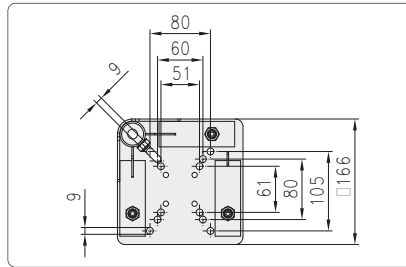
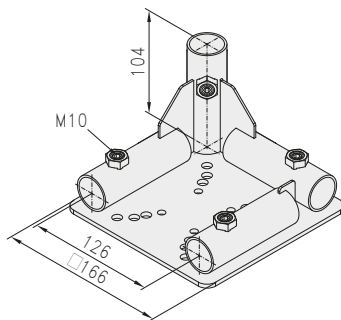


Technical data

material: steel

Delivery unit

incl. 4 × set screw (black or galvanised)



Description	Surface	Weight	Article No.
Footplate, corner left	black	1,873 g	21.15.20.L.1
Footplate, corner left	galvanised	1,873 g	21.15.20.L.2



Fastening elements

Description	Weight	Article No.
Set screw M10×12, with cupped gripping point, black	4.0 g	0.63.0916.10012.1
Set screw M10×12, with cupped gripping point, galvanised	4.0 g	0.63.0916.10012.2

4 pcs. per footplate required

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

4 sets per castor required

Single parts of the mounting set

Description	Pcs.	Weight	Article 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

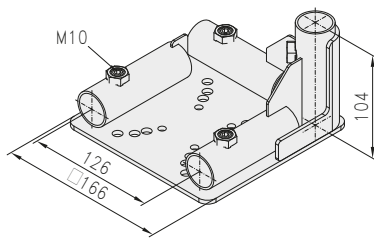
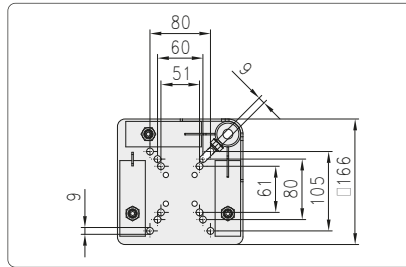


Footplates for pipes  
corner right



**Technical data**  
material: steel

**Delivery unit**  
incl. 4 × set screw (black or galvanised)



Description	Surface	Weight	Article No.
Footplate, corner right	black	1,873 g	21.15.20.R.1
Footplate, corner right	galvanised	1,873 g	21.15.20.R.2

5



**Fastening elements**

Description	Weight	Article No.
Set screw M10×12, with cupped gripping point, black	4.0 g	0.63.0916.10012.1
Set screw M10×12, with cupped gripping point, galvanised	4.0 g	0.63.0916.10012.2

4 pcs. per footplate required

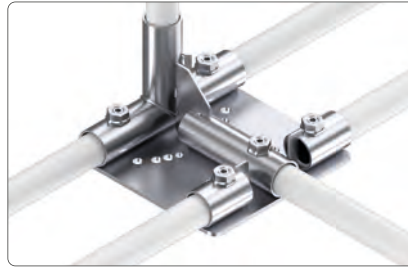
Description	Weight	Article No.
Mounting set for castors	16.8 g	30.15.S1

4 sets per castor required

**Single parts of the mounting set**

Description	Pcs.	Weight	Article 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

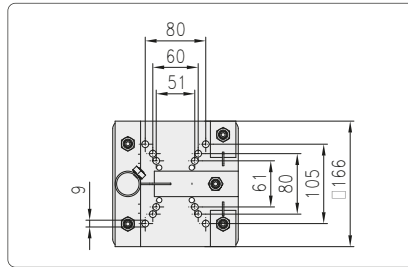
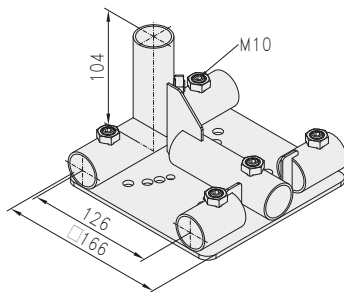


**Footplates for pipes  
center with post**

**Technical data**

material: steel

**Delivery unit**

incl. 6 × set screw (black or galvanised)



Description	Surface	Weight	Article No.
Footplate, center with post	black	1,766 g	21.15.20.MHV.1
Footplate, center with post	galvanised	1,766 g	21.15.20.MHV.2


**Fastening elements**

Description	Weight	Article No.
Set screw M10×12, with cupped gripping point, black	4.0 g	0.63.0916.10012.1
Set screw M10×12, with cupped gripping point, galvanised	4.0 g	0.63.0916.10012.2

6 pcs. per footplate required

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

4 sets per castor required

**Single parts of the mounting set**

Description	Pcs.	Weight	Article 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



**Screw-on element for bolt hole castors and adjustable feet**

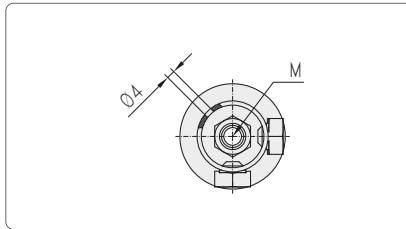
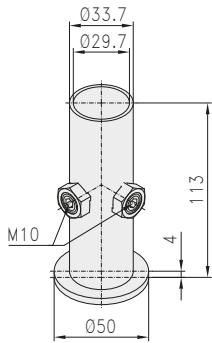


**Technical data**

material: steel

**Delivery unit**

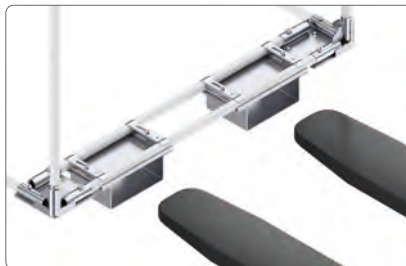
incl. 2 × set screw (black or galvanised)



Description	M	Surface	Weight	Article No.
Screw-on element M10		black	283 g	21.15.21.10.1
Screw-on element M10		galvanised	283 g	21.15.21.10.2
Screw-on element M12		black	283 g	21.15.21.12.1
Screw-on element M12		galvanised	283 g	21.15.21.12.2

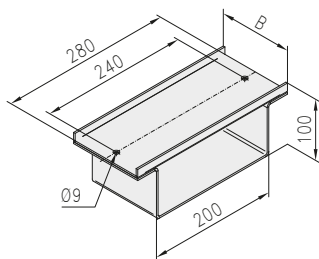
5

**Forklift guides**



**Technical data**

material: steel



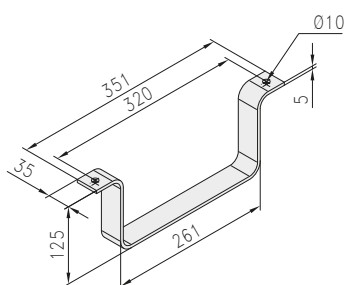
Description	B	Surface	Weight	Article No.
Forklift guide	120	black	1,900 g	21.15.30.01.1
Forklift guide	120	galvanised	1,900 g	21.15.30.01.2
Forklift guide	160	black	2,500 g	21.15.30.02.1
Forklift guide	160	galvanised	2,500 g	21.15.30.02.2

**Forklift guide narrow**



**Technical data**

material: steel



Description	Surface	Weight	Article No.
Forklift guide, narrow 35	black	817 g	21.15.30.03.1
Forklift guide, narrow 35	galvanised	817 g	21.15.30.03.2

















## Product group

21.16	Roller track		35	40	60	85
	Summary 		16.05	16.06	16.08	16.09
		Standard	16.13	16.18	16.33	16.37
		low noise (In)		16.18		
		flat	16.19	16.33		
		Edge roller		16.20		
		low noise (In)		16.20		
		with offset	16.13			
	Side guiding profile					
		PE	16.14	16.21		
		with offset	16.14	16.22		
	Roller track					
		- support	16.15	16.24	16.34	16.38
		with stop		16.25	16.34	16.39
		with offset	16.16	16.26	16.35	16.39
		with return stop		16.27	16.35	
		- extension	16.17	16.30	16.36	16.40
		- overlay		16.30	16.36	16.40
		- bridge	16.17	16.31		16.40
		Adapter bridge		16.31		
		Mounting clamp	16.16			
	Roller track brake					
		Standard		16.32		
		flat	16.32			
		Edge roller		16.32		














Center guiding profile - for all roller tracks		mounting on:		
		PE	Roller track support 35	16.41
			Roller track support 40	16.42
		Alu		16.42
			Slide pipe supports	12.19



Product group





Roller track 35  16.13	
Type of roller	
Standard 	
with offset 	
























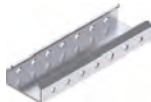





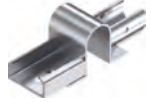
Side guiding profile for roller track 35  16.14	
PE 	
with offset 	

35  16.15	Ø28	profile 40
Roller track		
- support		
round		
with offset		
type B		
round		
Mounting clamp		
- extension		
- bridge		
Adapter for roller track support 40		

Product group


Roller track 40  16.18			Roller track brake 40  16.32	
Type of roller	low noise (In)			
Standard 			Standard 	
flat 			flat 	
Edge roller 			Edge roller 	













Side guiding profile for roller track 40  16.21		
PE		
with offset		Extension clip for side guiding profile with offset 

40  16.24	Ø28		Ø33	profile 40		
Roller track				 hinged		
- support		bracket left 	bracket right 			
with stop		bracket left 	bracket right 			
rear						
front						
type B						
with offset						
with return stop						
- extension						
- overlay		short 				
- bridge		round 				
Adapter bridge						







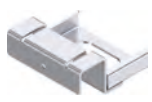










Product group

Roller track 60  16.33	
Type of roller	
Standard 	
flat 	










60  16.34	Ø28	Ø33
Roller track		
- support		
with stop type B		
with offset		
with return stop		
- extension		
- overlay		

Product group

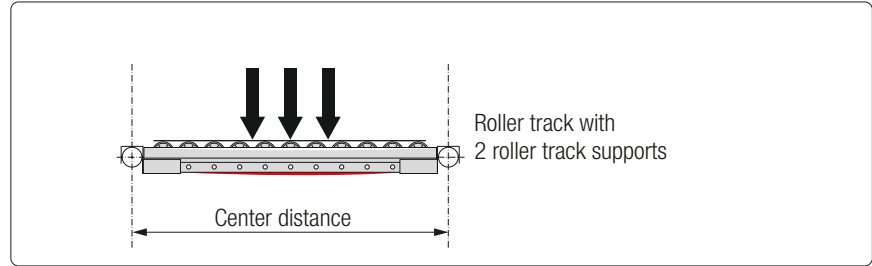
Roller track 85  16.37	
Type of roller	
Standard	

85  16.38	Ø28		
Roller track			
- support		bracket left 	bracket right 
with stop rear			
type B		bracket left 	bracket right 
with offset			
- extension			
- overlay		short 	
- bridge			

Product group

Center guiding profiles for all roller tracks		➡ 16.41
PE		 <p><b>Mounting:</b> on roller track support 35 ➡ 16.15</p> 
		 <p><b>Mounting:</b> on roller track support 40 ➡ 16.24</p> 
Alu		
		 <p><b>Mounting:</b> on slide pipe support ➡ 12.19</p> 

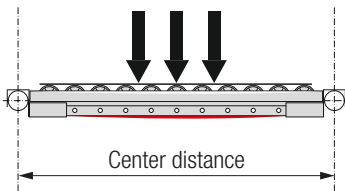
Load capacity of the roller tracks



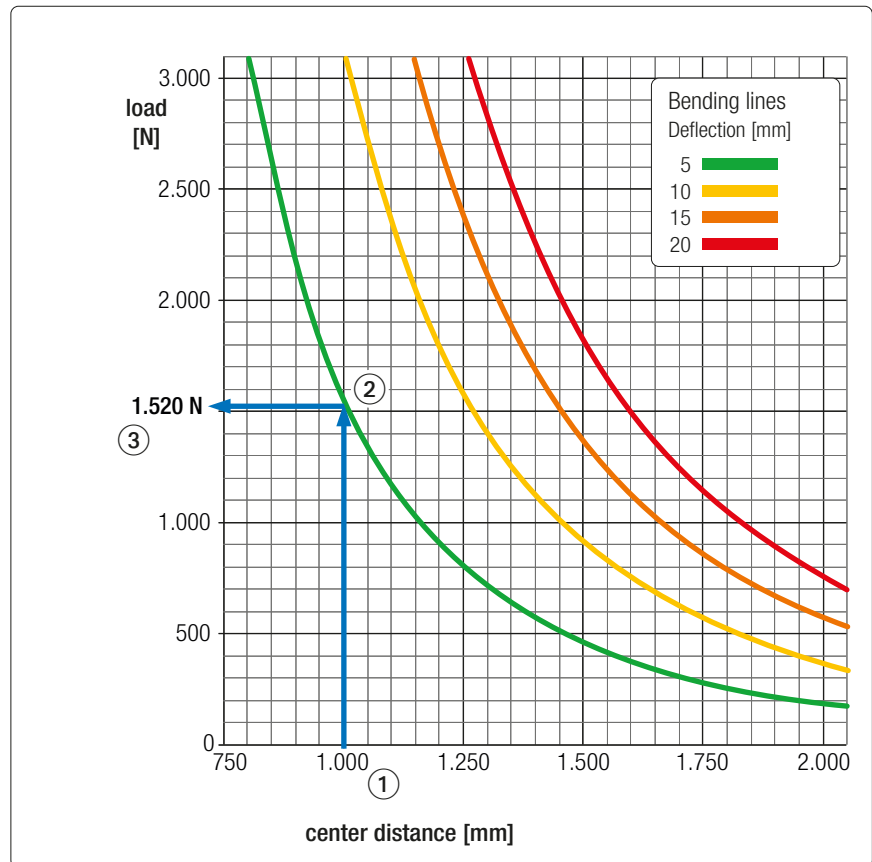
Center distance [mm]	Roller track		
	40	60	85
1,000	1,520	740	2,060
1,250	740	390	1,080
1,500	440	200	610
2,000	200	100	270

Load data in N at a deflection of approx. 5 mm

Deflection under line load



Example: Roller track 40



Determination of the load capacity

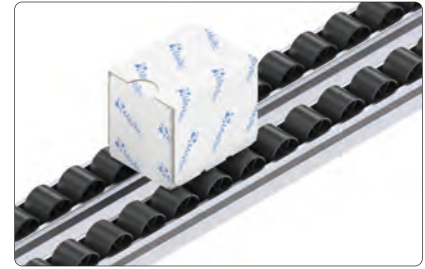
1. Center distance  $l$  in mm
2. Permitted deflection  $f$  in mm
3. Permitted line load  $F$  in N

Example

- ①  $l = 1,000$  mm
- ②  $f = 5$  mm
- ③  $F = 1,520$  N

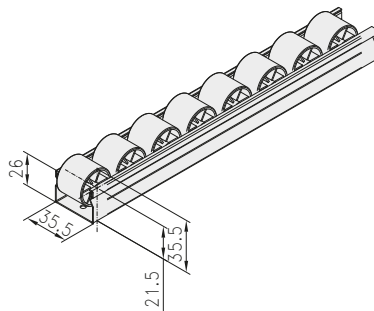



Roller track 35



**Technical data**

roller-Ø:	28 mm
shaft-Ø:	4 mm
roller distance:	33 mm
height:	35.5 mm
length:	4 m
load capacity:	150 kg
material:	steel galvanised / Polyethylen

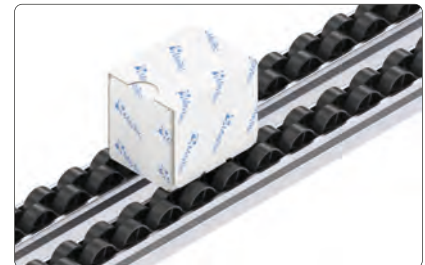


Description	Colour of roller	Weight	Article No.
 Roller track 35, ESD	black	length 4 m	22.16.1.035.11.1E.40
Roller track 35, ESD	black	cut to length	22.16.1.035.11.1E/...
Roller track 35	white	length 4 m	22.16.1.035.11.2.40
Roller track 35	white	cut to length	22.16.1.035.11.2/...
Roller track 35	grey	length 4 m	22.16.1.035.11.5.40
Roller track 35	grey	cut to length	22.16.1.035.11.5/...

/... = length in mm

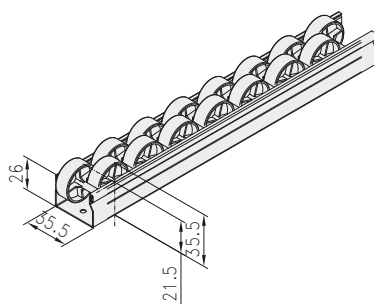
6


Roller track 35 with offset



**Technical data**

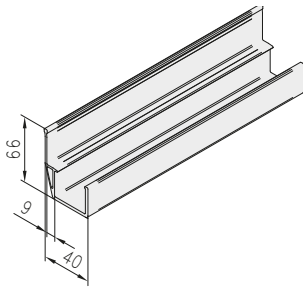
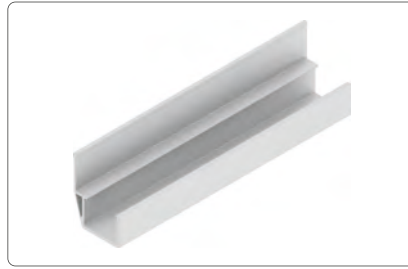
roller-Ø:	27 mm
shaft-Ø:	4 mm
roller distance:	33 mm
height:	35 mm
length:	4 m
load capacity:	150 kg
material:	steel galvanised / Polyethylen



Description	Colour of roller	Weight	Article No.
 Roller track 35 with offset, ESD	black	length 4 m	22.16.1.035.41.1E.40
Roller track 35 with offset, ESD	black	cut to length	22.16.1.035.41.1E/...
Roller track 35 with offset	grey	length 4 m	22.16.1.035.41.5.40
Roller track 35 with offset	grey	cut to length	22.16.1.035.41.5/...

/... = length in mm

Side guiding profile 35  
PE



- 35
- 40
- 60
- 85

**Technical data**

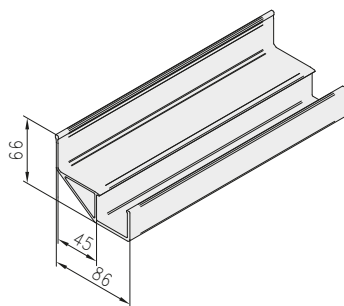
material: PE  
bar length: 4 m



Description	Colour	Weight	Article No.	
Side guiding profile 35, ESD	black	length 4 m	2.4 kg	22.16.2.100.01E.40
Side guiding profile 35, ESD	black	cut to length	0.6 kg/m	22.16.2.100.01E/...
Side guiding profile 35	white	length 4 m	2.4 kg	22.16.2.100.02.40
Side guiding profile 35	white	cut to length	0.6 kg/m	22.16.2.100.02/...
Side guiding profile 35	grey	length 4 m	2.4 kg	22.16.2.100.05.40
Side guiding profile 35	grey	Zuschnitt	0.6 kg/m	22.16.2.100.05/...

/... = length in mm

with offset, PE



- 35
- 40
- 60
- 85

**Technical data**

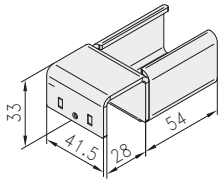
material: PE  
bar length: 4 m



Description	Colour	Weight	Article No.	
Side guiding profile 35, with offset, ESD	black	length 4 m	2.4 kg	22.16.2.111.01E.40
Side guiding profile 35, with offset, ESD	black	cut to length	0.6 kg/m	22.16.2.111.01E/...
Side guiding profile 35, with offset	white	length 4 m	2.4 kg	22.16.2.111.02.40
Side guiding profile 35, with offset	white	cut to length	0.6 kg/m	22.16.2.111.02/...
Side guiding profile 35, with offset	grey	length 4 m	2.4 kg	22.16.2.111.05.40
Side guiding profile 35, with offset	grey	cut to length	0.6 kg/m	22.16.2.111.05/...

/... = length in mm

Roller track support 35



Technical data

material: steel galvanised

Description

Roller track support 35

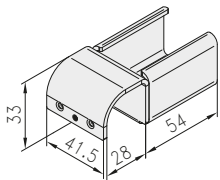
Weight

164 g

Article No.

22.16.3.10F.035

type B



Technical data

material: steel galvanised

Description

Roller track support 35, type B

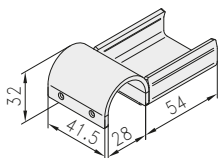
Weight

120 g

Article No.

22.16.3.10F.035B

round



Technical data

material: steel galvanised

Description

Roller track support 35, round

Weight

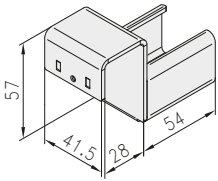
127 g

Article No.

22.16.3.10R.035



**Roller track support 35 with offset**



**Technical data**

material: steel galvanised

**Description**

Roller track support 35, with offset

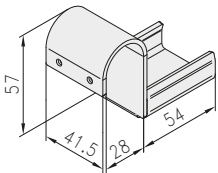
**Weight**

185 g

**Article No.**

22.16.3.30F.035

**round**



**Technical data**

material: steel galvanised

**Description**

Roller track support 35, with offset, round

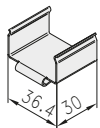
**Weight**

146 g

**Article No.**

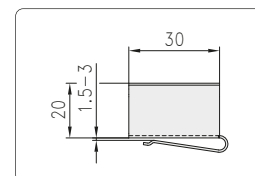
22.16.3.30R.035

**Mounting clamp**



**Technical data**

material: Steel hardened, not oiled



**Description**

Mounting clamp

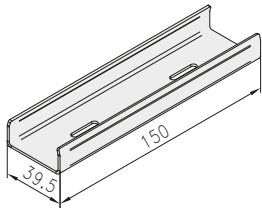
**Weight**

14 g

**Article No.**

22.16.3.35X.CLIP

**Roller track extension 35**



- 35
- 40
- 60
- 85



**Technical data**

material: steel galvanised

**Description**

Roller track extension 35

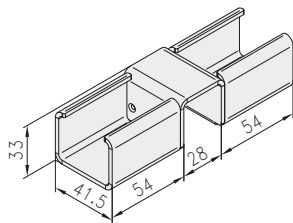
**Weight**

121 g

**Article No.**

22.16.3.4.035

**Roller track bridge 35**



- 35
- 40
- 60
- 85



**Technical data**

material: steel galvanised

**Description**

Roller track bridge 35

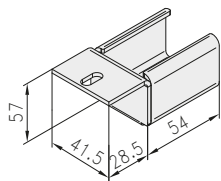
**Weight**

210 g

**Article No.**

22.16.3.70F.035

**Roller track support 35 for profiles**



- 35
- 40
- 60
- 85



**Technical data**

material: steel galvanised

**Description**

Roller track support 35 for profiles

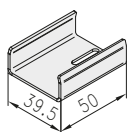
**Weight**

141 g

**Article No.**

22.16.3.P10.035

**Adapter for Roller track support 40**



- 35
- 40
- 60
- 85



**Application**

Adapter for roller tracks 35 for mounting in roller track supports 40

**Technical data**

material: steel galvanised

**Description**

Adapter for roller track support 40

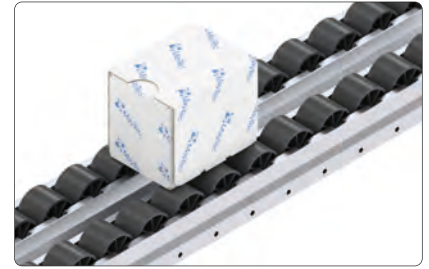
**Weight**

40 g

**Article No.**

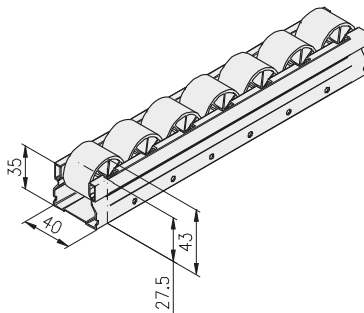
22.16.3.X50.035

Roller tracks 40



Technical data

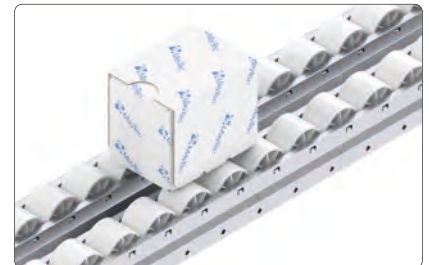
roller-Ø:	31 mm
shaft-Ø:	4 mm
roller distance:	36 mm
height:	43 mm
length:	4 m
load capacity:	150 kg
material:	steel galvanised / Polyethylen



Description	Colour of roller	Weight	Article No.
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/...
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/...

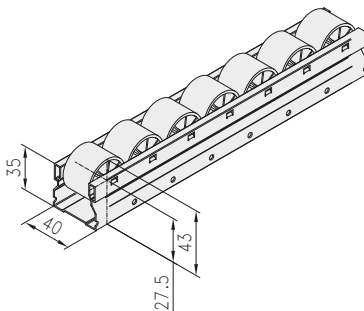
/... = length in mm

Roller tracks 40  
low noise (In)



Technical data

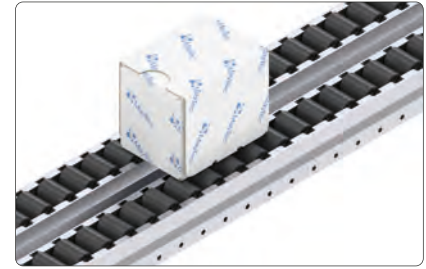
roller-Ø:	31 mm
shaft-Ø:	4 mm
roller distance:	36 mm
height:	43 mm
length:	4 m
load capacity:	150 kg
material:	steel galvanised / Polyethylen



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

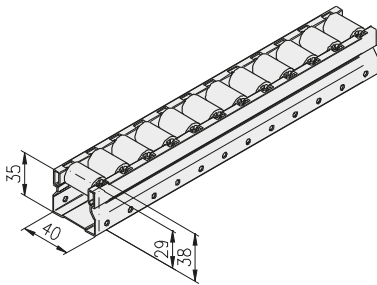
/... = length in mm

Roller tracks 40  
flat



**Technical data**

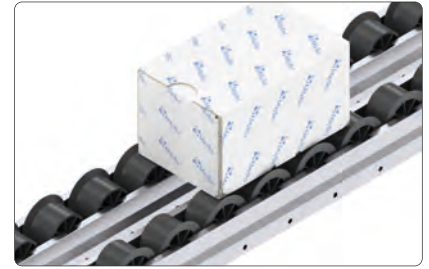
roller-Ø:	18 mm
shaft-Ø:	4 mm
roller distance:	22 mm
height:	38 mm
length:	4 m
load capacity:	150 kg
material:	steel galvanised / Polyethylen



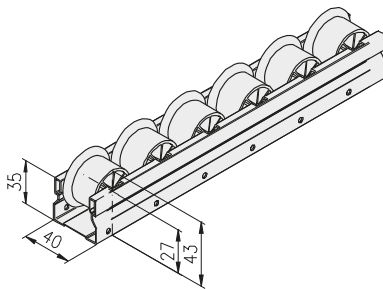
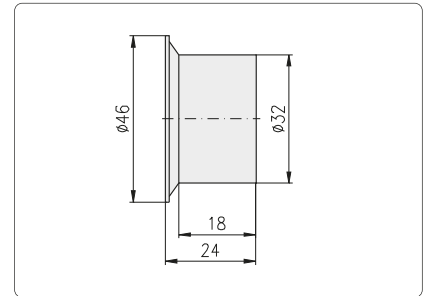
Description	Colour of roller	Weight	Article No.
Roller track 40 flat, ESD	black	length 4 m	21.16.1.040.21.1E.40
Roller track 40 flat, ESD	black	cut to length	21.16.1.040.21.1E/...
Roller track 40 flat	white	length 4 m	21.16.1.040.21.2.40
Roller track 40 flat	white	cut to length	21.16.1.040.21.2/...

/... = 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



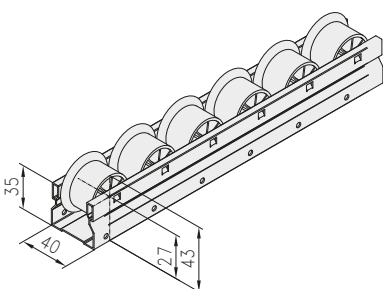
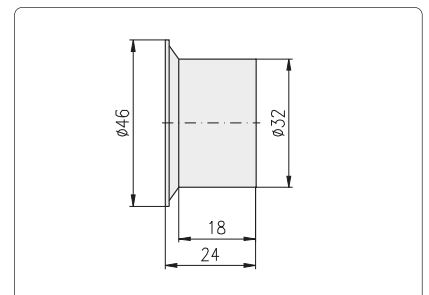
Description	Colour	Weight	Article No.
Roller track 40 with edge rollers, ESD	black	length 4 m	4.6 kg 21.16.1.040.31.1E.40
Roller track 40 with edge rollers, ESD	black	cut to length	1.15 kg/m 21.16.1.040.31.1E/...
Roller track 40 with edge rollers	white	length 4 m	4.5 kg 21.16.1.040.31.2.40
Roller track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

/... = length in mm

Roller tracks 40 with edge rollers low noise (In)



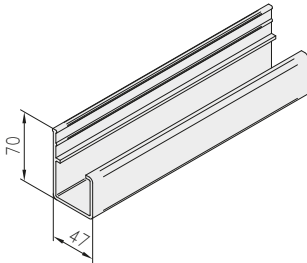
Technical data	
roller-Ø:	32 mm
shaft-Ø:	4 mm
roller distance:	48.5 mm
height:	43 mm
length:	4 m
load capacity:	150 kg
material:	steel galvanised / Polyethylen



Description	Colour	Weight	Article No.
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/...
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/...

/... = length in mm

Side guiding profile



- 35
- 40
- 60
- 85

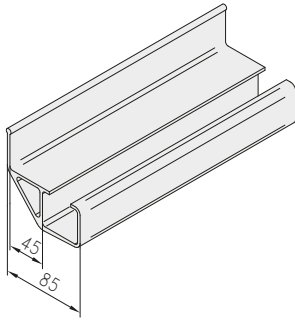
**Technical data**

material: PE, ivory  
bar length: 3 m

**Description**

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

Side guiding profile with offset



**Technical data**

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

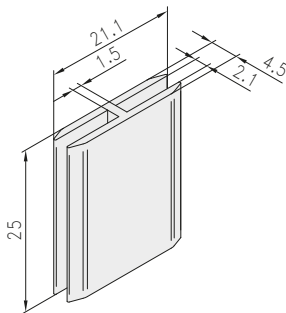
**Description**

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

/... = length in mm

**Extension clip**

for side guiding profile with offset



**Technical data**

material: PVC, impact resistant  
 colour: white

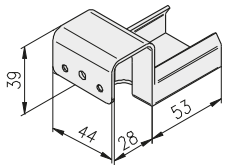
**Description**

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





**Roller track support 40**

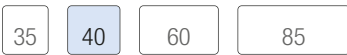
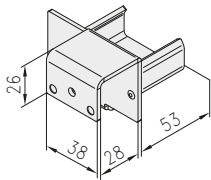


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 40	129 g	21.16.3.10F.040

**bracket left**

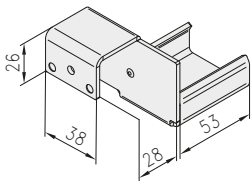


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 40, bracket left	179 g	21.16.3.10F.040L

**bracket right**

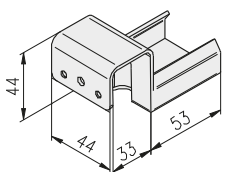


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 40, bracket right	179 g	21.16.3.10F.040R

**for mounting over joint**



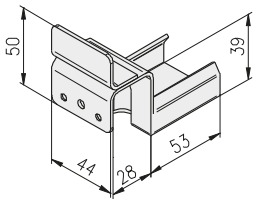
**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 40, Ø33	150 g	21.16.3.11F.040

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 12.15)

**Roller track support 40 with stop**

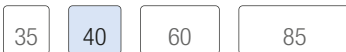
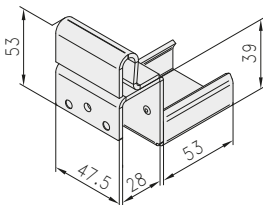


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 40 with stop	160 g	21.16.3.20F.040

**type B**

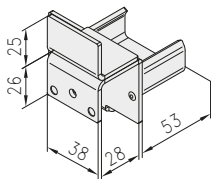


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 40 with stop, type B	193 g	21.16.3.20F.040B

**bracket left**

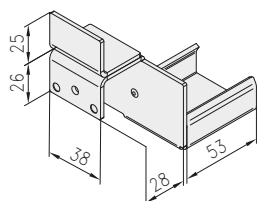


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 40 with stop, bracket left	211 g	21.16.3.20F.040L

**bracket right**



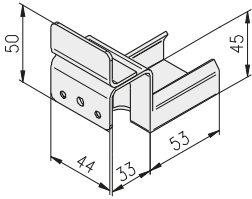
**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 40 with stop, bracket right	211 g	21.16.3.20F.040R

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 ➡ 12.15)

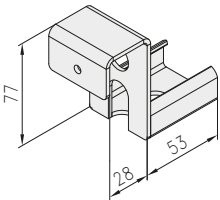
**Roller track support 40 with stop for mountig over joint**



**Technical data**  
material: steel galvanised

Description	Weight	Article No.
★ Roller track support 40 with stop, Ø33	180 g	21.16.3.21F.040

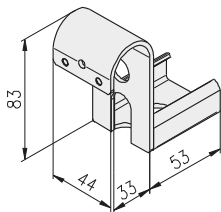
**Roller track support 40 with offset**



**Technical data**  
material: steel galvanised

Description	Weight	Article No.
★ Roller track support 40 round, with offset	148 g	21.16.3.30F.040

**for mountig over joint**

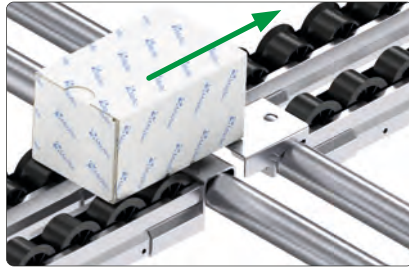


**Technical data**  
material: steel galvanised

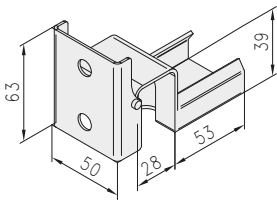
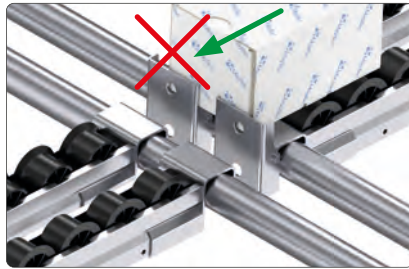
Description	Weight	Article No.
★ Roller track support 40 round, with offset, Ø33	170 g	21.16.3.31R.040

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 12.15)

Roller track support 40 with return stop



**Technical data**  
material: steel galvanised

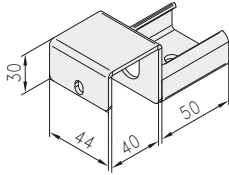


- 35
- 40
- 60
- 85

★ Description	Weight	Article No.
Roller track support 40 with return stop	193 g	21.16.3.32F.040

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 12.15)

**Roller track support 40 for profiles 40**



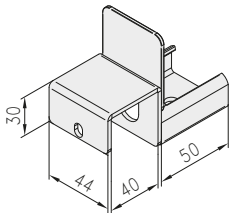
- 35
- 40
- 60
- 85



**Technical data**  
material: steel galvanised

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

**with front stop**



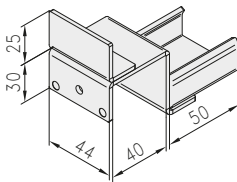
- 35
- 40
- 60
- 85



**Technical data**  
material: steel galvanised

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

**with rear stop**



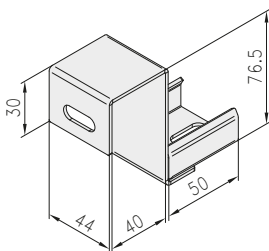
- 35
- 40
- 60
- 85



**Technical data**  
material: steel galvanised

Description	Weight	Article No.
Roller track support 40 for profiles, with rear stop	245 g	21.16.3.P25.040

**with offset**



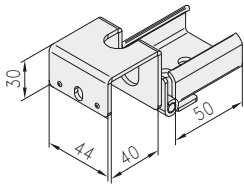
- 35
- 40
- 60
- 85



**Technical data**  
material: steel galvanised

Description	Weight	Article No.
Roller track support 40 for profiles, with offset	185 g	21.16.3.P28.040

**Roller track support 40 for profiles 40, hinged**



**Technical data**

material: steel galvanised

**Description**

Roller track support 40 for profiles, hinged

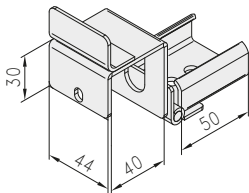
**Weight**

215 g

**Article No.**

21.16.3.P30.040

**with rear stop**



**Technical data**

material: steel galvanised

**Description**

Roller track support 40 for profiles, hinged, with rear stop

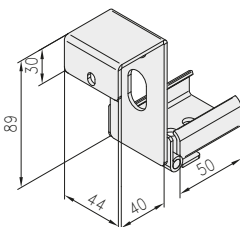
**Weight**

247 g

**Article No.**

21.16.3.P40.040

**with offset**



**Technical data**

material: steel galvanised

**Description**

Roller track support 40 for profiles, hinged, with offset

**Weight**

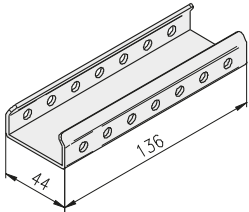
234 g

**Article No.**

21.16.3.P50.040



Roller track extension 40

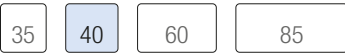
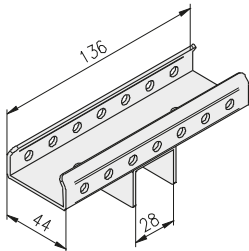


Technical data

material: steel galvanised

Description	Weight	Article No.
★ Roller track extension 40	129 g	21.16.3.4.040

Roller track overlay 40

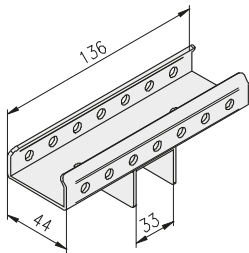


Technical data

material: steel galvanised

Description	Weight	Article No.
★ Roller track overlay 40	179 g	21.16.3.50F.040

type B

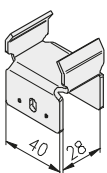


Technical data

material: steel galvanised

Description	Weight	Article No.
★ Roller track overlay 40, type B	182 g	21.16.3.51F.040

short



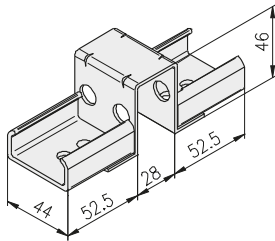
Technical data

material: steel galvanised

Description	Weight	Article No.
★ Roller track overlay 40, short	73 g	21.16.3.60F.040

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13  12.15)

**Roller track bridge 40 angular**



- 35
- 40
- 60
- 85

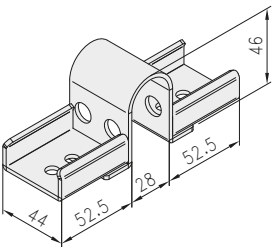


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track bridge 40, angular	248 g	21.16.3.70F.040

**round**



- 35
- 40
- 60
- 85

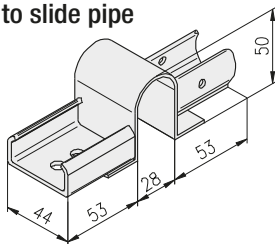


**Technical data**

material: steel galvanised

Description	Weight	Article No.
Roller track bridge 40, round	249 g	21.16.3.70R.040

**Adapter bridge 40, round for connection of roller track to slide pipe**



- 35
- 40
- 60
- 85



**Technical data**

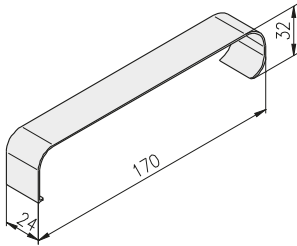
material: steel galvanised

Description	Weight	Article No.
★ Adapter bridge 40, round	240 g	21.16.3.80F.040

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 12.15)



**Roller track brake 40**



**Technical data**

material: steel galvanised

**Description**

Roller track brake 40

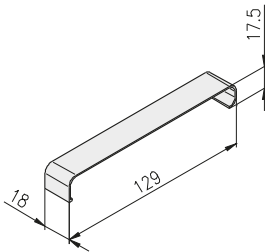
**Weight**

40 g

**Article No.**

21.16.4.01

**flat**



**Technical data**

material: steel galvanised

**Description**

Roller track brake 40, flat

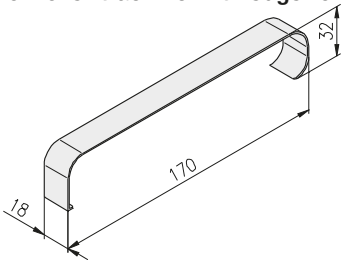
**Weight**

26 g

**Article 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

**Article No.**

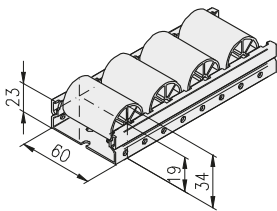
21.16.4.03

Roller track 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	Article No.
Roller track 60, ESD	black	length 4 m	21.16.1.060.11.1E.40
Roller track 60, ESD	black	cut to length	21.16.1.060.11.1E/...
Roller track 60	white	length 4 m	21.16.1.060.11.2.40
Roller track 60	white	cut to length	21.16.1.060.11.2/...

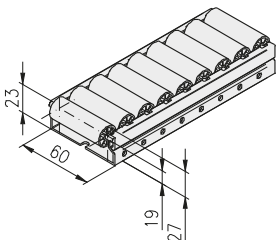
/... = length in mm

flat



**Technical data**

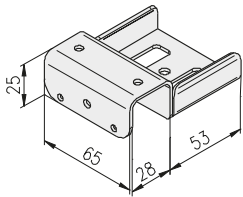
roller-Ø:	16 mm
shaft-Ø:	4 mm
roller distance:	18.5 mm
height:	27 mm
length:	4 m
load capacity:	kg
material:	steel galvanised / Polyethylen



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

/... = length in mm

Roller track support 60

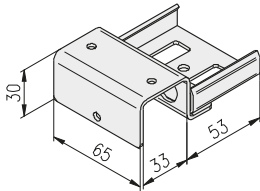


Technical data

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 60	193 g	21.16.3.10F.060

for mountig over joint

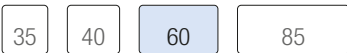
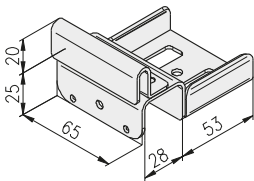


Technical data

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 60, Ø33	178 g	21.16.3.11F.060

with stop, type B

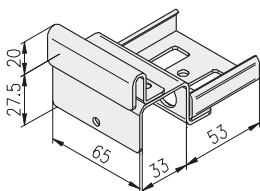


Technical data

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 60 with stop, type B	205 g	21.16.3.20F.060

with stop, type B,  
for mountig over joint



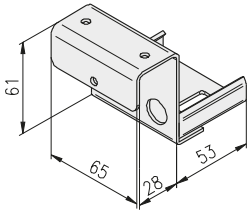
Technical data

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 60 with stop, type B, Ø33	232 g	21.16.3.21F.060

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13  12.15)

**Roller track support 60 with offset**

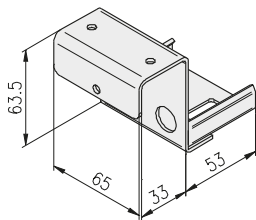


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 60 with offset	209 g	21.16.3.30F.060

**for mountig over joint**

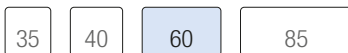
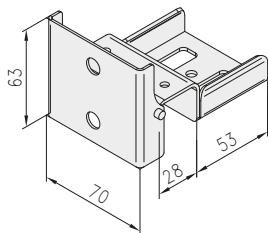


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 60 with offset, Ø33	218 g	21.16.3.31F.060

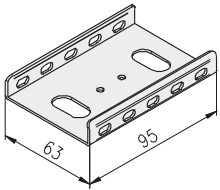
**Roller track support 60 with return stop**



Description	Weight	Article No.
★ Roller track support 60 with return stop	230 g	21.16.3.32F.060

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 12.15)

Roller track extension 60

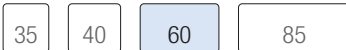
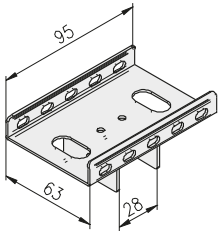


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track extension 60	93 g	21.16.3.4.060

Roller track overlay 60



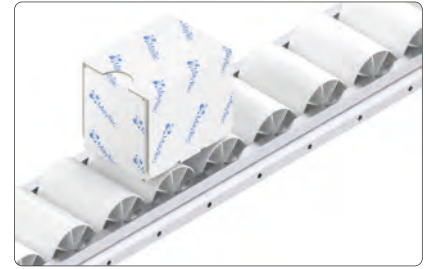
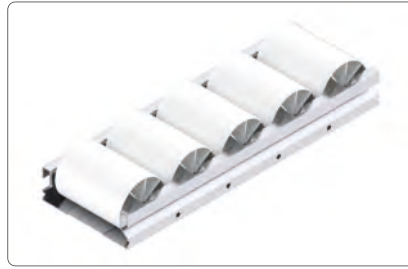
**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track overlay 60	147 g	21.16.3.50F.060

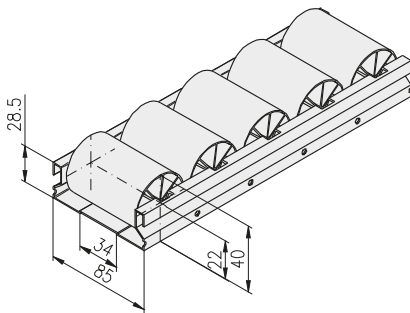
★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13  12.15)

Roller track 85



**Technical data**

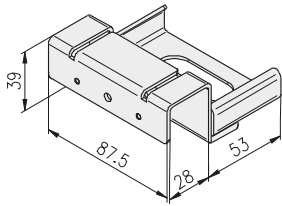
roller-Ø:	36 mm
shaft-Ø:	5 mm
roller distance:	40 mm
height:	40 mm
length:	4 m
load capacity:	300 kg
material:	steel galvanised / Polyethylen



Description	Colour of roller	Weight	Article 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

**Roller track support 85**

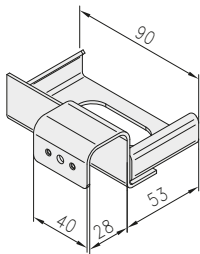


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 85	250 g	21.16.3.10F.085

**bracket left**

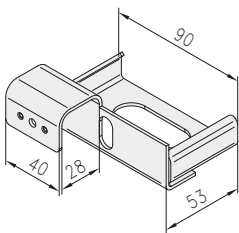


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 85, bracket left	212 g	21.16.3.11F.085L

**bracket right**



**Technical data**

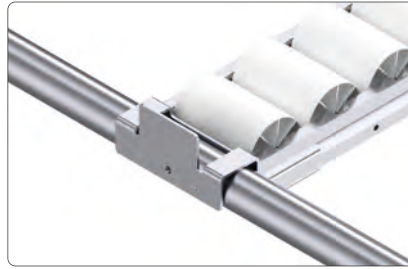
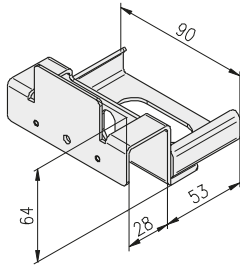
material: steel galvanised

Description	Weight	Article No.
★ Roller track support 85, bracket right	212 g	21.16.3.11F.085R

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 12.15)



**Roller track support 85 with stop**

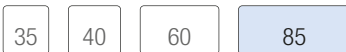
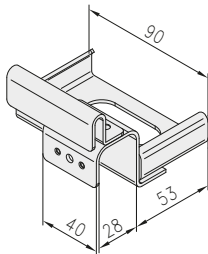


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track support 85 with stop	249 g	21.16.3.20F.085

**type B, bracket left**

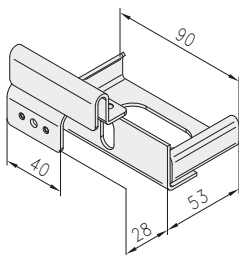


**Technical data**

material: steel galvanised

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

**type B, bracket right**

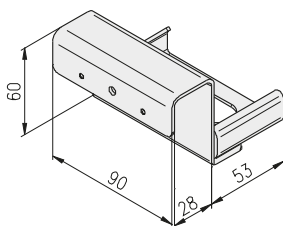


**Technical data**

material: steel galvanised

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

**Roller track support 85 with offset**



**Technical data**

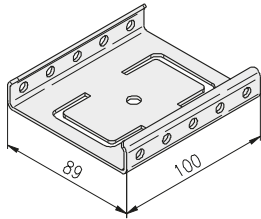
material: steel galvanised

Description	Weight	Article No.
★ Roller track support 85 with offset	291 g	21.16.3.30F.085

★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 12.15)



**Roller track extension 85**

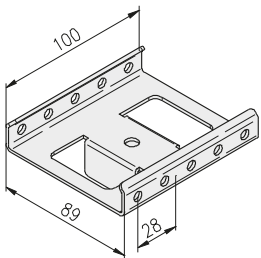


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track extension 85	206 g	21.16.3.4.085

**Roller track overlay 85**

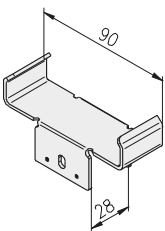


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track overlay 85	205 g	21.16.3.50F.085

**short**

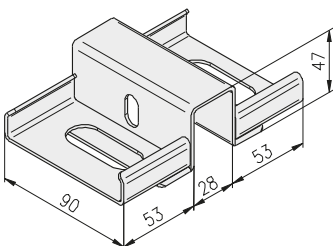


**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track overlay 85, short	96 g	21.16.3.60F.085

**Roller track bridge 85 angular**



**Technical data**

material: steel galvanised

Description	Weight	Article No.
★ Roller track bridge 85, angular	297 g	21.16.3.70F.085

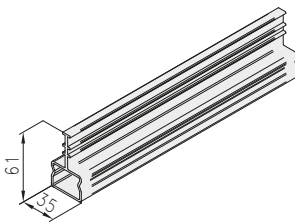
★ with bore Ø4.2 for locking screw (drilling screw DIN 7504 4.2×13 12.15)

Center guiding profiles



**Technical data**

material: PE  
bar length: 4 m



**Description**



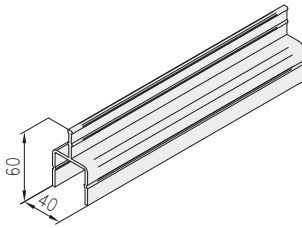
			<b>Weight</b>	<b>Article No.</b>
Center guiding profile, ESD	black	length 4 m	1.80 kg	22.16.2.02.01E.40
Center guiding profile, ESD	black	cut to length	0.45 kg/m	22.16.2.02.01E/...
Center guiding profile	white	length 4 m	2.0 kg	22.16.2.02.02.40
Center guiding profile	white	cut to length	0.5 kg/m	22.16.2.02.02/...
Center guiding profile	grey	length 4 m	2.0 kg	22.16.2.02.05.40
Center guiding profile	grey	cut to length	0.5 kg/m	22.16.2.02.05/...

/... = length in mm

**Center guiding profile  
PE, for roller track support**

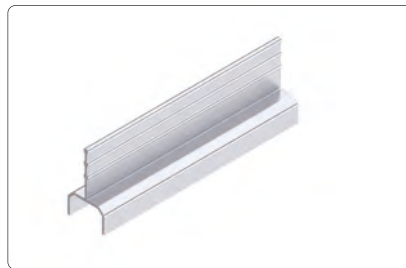
**Technical data**

material: PE  
bar length: 3 m

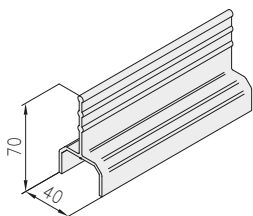



Description	Colour		Weight	Article No.
Center guiding profile 40, PE	ivory	length 3 m	2.1 kg	21.16.2.200.03.30
Center guiding profile 40, PE	ivory	cut to length	0.7 kg/m	21.16.2.200.03/...
Center guiding profile 40, PE	grey	length 3 m	2.1 kg	21.16.2.200.04.30
Center guiding profile 40, PE	grey	cut to length	0.7 kg/m	21.16.2.200.04/...

/... = length in mm

**Center guiding profile  
Alu, for roller track support**

**Technical data**

material: Aluminium  
bar length: 2 m / 4 m



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

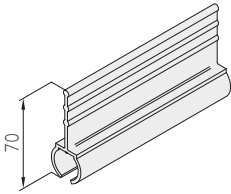
/... = length in mm

Center guiding profile  
Alu, for slide pipe support



**Technical data**

material: Aluminium  
bar length: 2 m / 4 m



**Description**



		<b>Weight</b>	<b>Article No.</b>
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/...

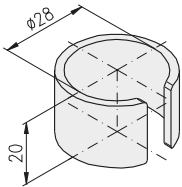
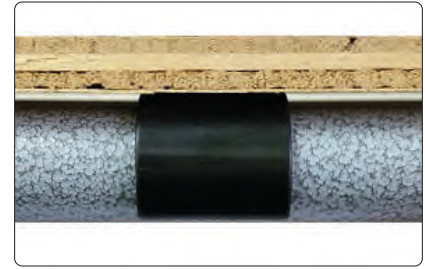
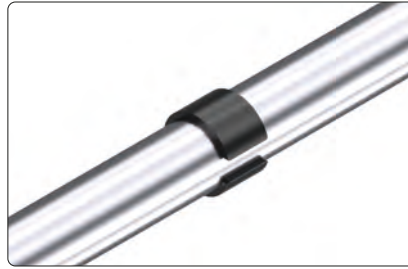
/... = length in mm



Product group

21.17 Accessories					
<b>Pipe collars, sleeves</b> ➔ 17.02  <p>Plastic pipe collars      Sleeves      Bolted pipe collar</p>			<b>Labeling</b> ➔ 17.02  <p>Pipe hanger      Label holder      Label holder</p>		
<b>Labeling</b> ➔ 17.03  <p>Label bar      Label clip      Label strip 32      Sticker bar      Label bag</p>					
<b>Position retainer</b> ➔ 17.06  <p>63      98      clip, double-sided</p>			<b>Stopper</b> ➔ 17.07  <p>stop</p>		<b>Roller fixture</b> ➔ 17.07  <p>single-sided      double-sided</p>
<b>Bushings</b> ➔ 17.08  <p>Roller bushings      Ball castors</p>			<b>Tool and device holder</b> ➔ 17.10  <p>Tool holder      Multiple tool holder      Device holder      Tool holder for cordless screwdriver</p>		
<b>Tool, device and bottle holder</b> ➔ 17.11  <p>Tool holder for cordless pistol nutrunner      Drink holder with mounting plate      Bottle holder</p>			<b>Hooks</b> ➔ 17.13  <p>24      42      100</p>		
<b>Hooks</b> ➔ 17.14  <p>Ring hook      Hang up hook      Sliding hook      Sliding hook, PA</p>				<b>Tilt rails</b> ➔ 17.15 	
<b>Profiles</b> ➔ 17.16  <p>Pipe cover      Cable duct</p>		<b>Protective hose</b> ➔ 17.17  <p>with protective skin</p>			

Plastic pipe collars



**Technical data**

material: PE

**Description**

Plastic pipe collar, black

**Weight**

5 g

**Article No.**

21.17.01.01.01



Plastic pipe collar, black, ESD

5 g

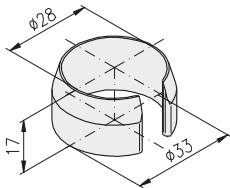
21.17.01.01.01E

Sleeves



**Technical data**

material: PE



**Description**

Sleeve, black

**Weight**

4 g

**Article No.**

21.17.01.02.01



Sleeve, black, ESD

4 g

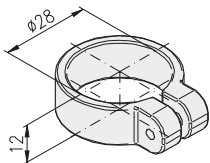
21.17.01.02.01E

Bolted pipe collars



**Technical data**

material: PE



**Description**

Bolted pipe collar, black

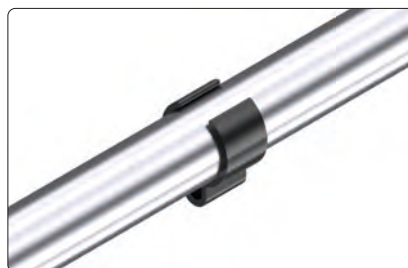
**Weight**

4 g

**Article No.**

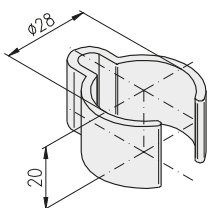
21.17.01.03.01

Pipe hanger



**Application**

for label holder



**Technical data**

material: PE

**Description**

Pipe hanger, black

**Weight**

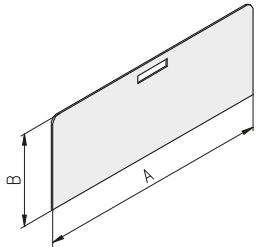
6 g

**Article No.**

21.17.01.04.01



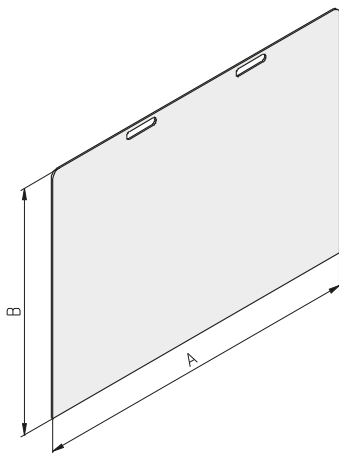
**Label holder**



**Technical data**

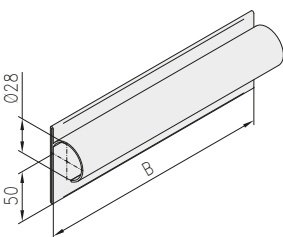
material: plastic, transparent

Description	A × B	Weight	Article 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	Article 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**



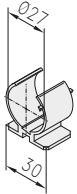
**Technical data**

material: plastic, transparent

Description	B	Weight	Article 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



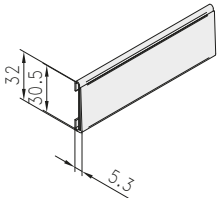
Label clip



**Technical data**  
material: POM, white

Description	Weight	Article No.
Label clip for pipe-Ø28-30	7 g	21.17.03.2.00

Label strip 32

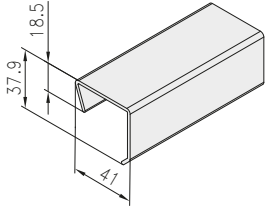


**Technical data**  
material: PVC, transparent  
length: 2 m

Description	Weight	Article 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

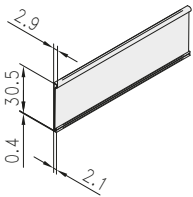
**Sticker bar**



**Technical data**  
 material: PVC, grey  
 length: 4 m

Description		Weight	Article 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

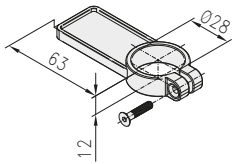
**Label bag**



**Technical data**  
 material: PVC, transparent  
 length: 2 m

Description		Weight	Article No.
Label bag, self-adhesive	length 2 m	620 g	21.17.03.4.00.20
Label bag, self-adhesive	cut to length	310 g/m	21.17.03.4.00/... /... = length in mm

Position retainer



Technical data

material: PE

Description

Position retainer 63, black, with screw M4×20

Weight

12 g

Article No.

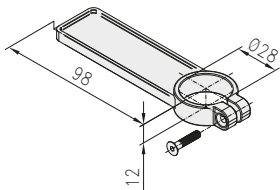
21.17.04.063.01



Position retainer 63, black, ESD, with screw M4×20

12 g

21.17.04.063.01E



Description

Position retainer 98, black, with screw M4×20

Weight

17 g

Article No.

21.17.04.098.01

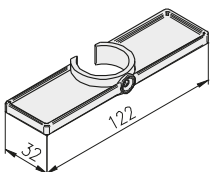


Position retainer 98, black, ESD, with screw M4×20

17 g

21.17.04.098.01E

Double-sided position retainer



Technical data

material: PE

Description

Double-sided position retainer, black

Weight

15 g

Article No.

21.17.04.122.01



Double-sided position retainer, black, ESD

15 g

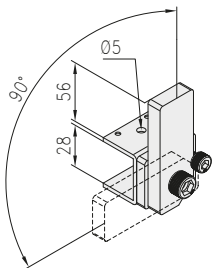
21.17.04.122.01E

Stopper stop



Technical data

material: steel, galvanised



Description

Stopper stop for pipes Ø 28

Weight

234 g

Article No.

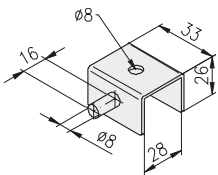
21.17.04.228.2

Roller fixture  
single-sided



Technical data

material: steel, galvanised



Description

Roller fixture, single-sided

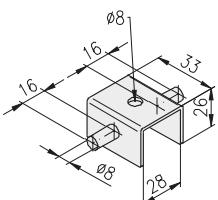
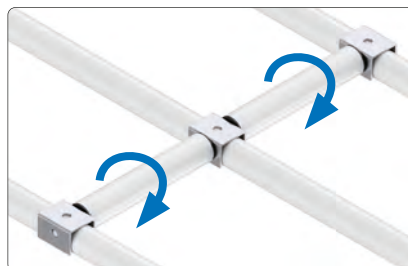
Weight

48 g

Article No.

21.17.05.01

double-sided



Description

Roller fixture, double-sided

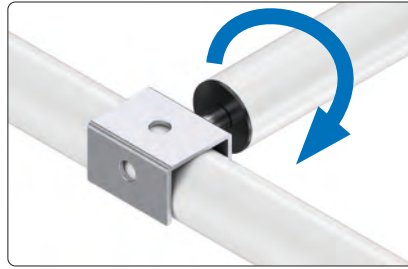
Weight

59 g

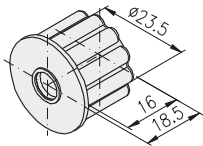
Article No.


21.17.05.02

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

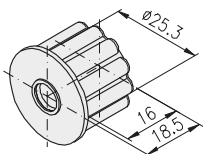



**Technical data**  
 material: PE



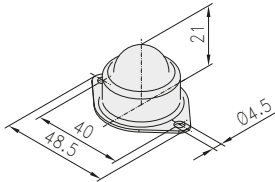
Description	Weight	Article No.
Roller bushing for ABS coated pipes, 1.0 mm, black	9 g	21.17.05.03.01
 Roller bushing for ABS coated pipes, 1.0 mm, black, ESD	9 g	21.17.05.03.01E

**for stainless steel pipe**  
 with a wall thickness of 1.2 mm



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

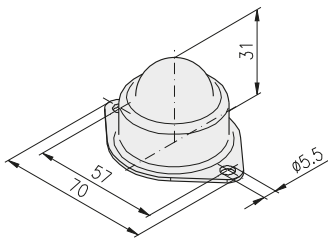
Ball castors  
21



Technical data  
material: steel

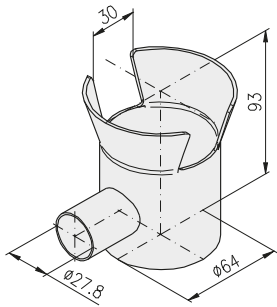
Description	Weight	Article No.
Ball castor 21	45 g	21.17.06.021

31



Description	Weight	Article No.
Ball castor 31	141 g	21.17.06.031

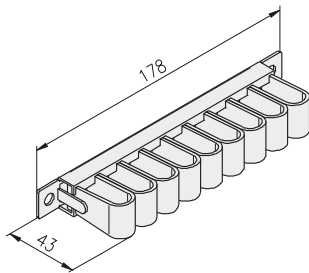
**Tool holder**



**Technical data**  
material: steel, black

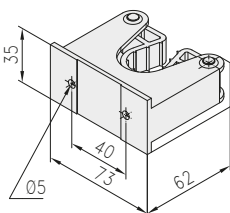
Description	Weight	Article No.
Tool holder	221 g	21.17.08.01

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



Description	Weight	Article No.
Multiple tool holder	115 g	21.17.08.02

**Device holder**

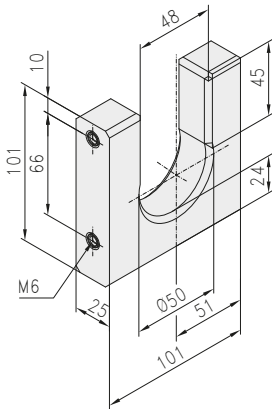


**Application**  
Device and tool holder for stick Ø20-30 mm

**Technical data**  
material:  
case: PE  
rubber band: EPDM

Description	Weight	Article No.
Device holder	37 g	21.17.08.03

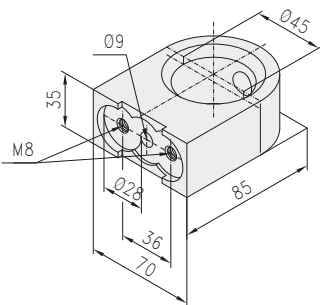
**Tool holder  
for cordless screwdriver**



**Technical data**  
material: PA  
colour: green

Description	Weight	Article No.
Tool holder for cordless screwdriver	160 g	21.17.08.10

**Tool holder  
for cordless pistol nutrunner**



**Technical data**  
material: POM  
colour: white

Description	Weight	Article No.
Tool holder for cordless pistol nutrunner	184 g	21.17.08.11

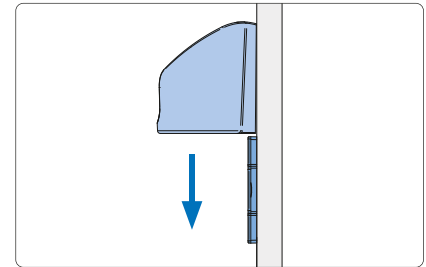
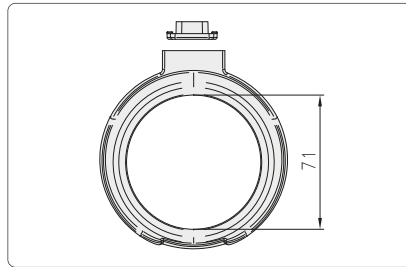
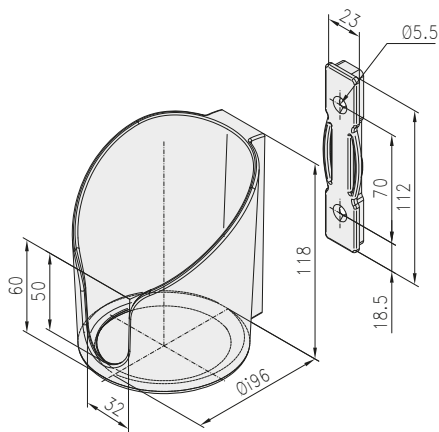


**Drink holder with mounting plate**



**Technical data**

material: PA, fiberglass reinforced  
 colour: black



**Description**

Drink holder with mounting plate, bore hole 2 × M5

**Weight**

146 g

**Article No.**

21.17.08.12

**Bottle holder**

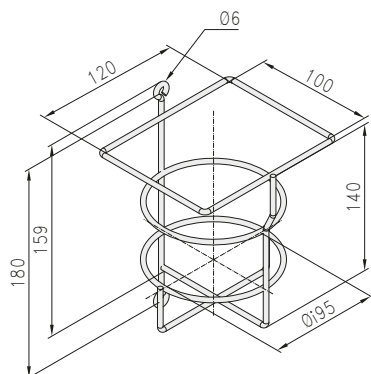


**Technical data**

Material: steel wire  
 colour: light gray

**Mounting**

2 × M6 with hole distance 180 mm



**Description**

Bottle holder

**Weight**

400 g

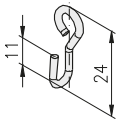
**Article No.**

21.17.08.13

**Hook  
24**



**Technical data**  
material: steel, powder coated

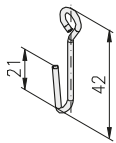


Description	Weight	Article No.
Hook 24	1 g	21.17.09.01

**42**



**Technical data**  
material: steel, powder coated

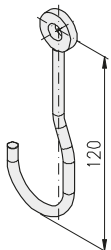


Description	Weight	Article No.
Hook 42	2 g	21.17.09.02

**100**

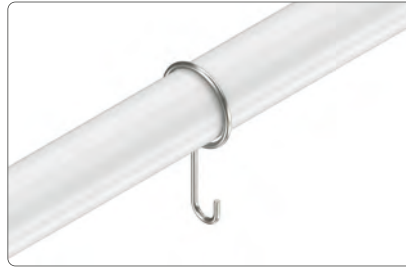
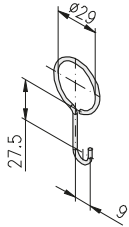


**Technical data**  
material: steel, nickel plated



Description	Weight	Article No.
Hook 100	47 g	21.17.09.03

**Ring hook**

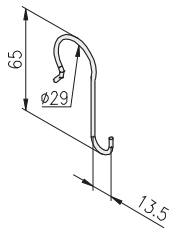


**Technical data**

material: steel, nickel plated

Description	Weight	Article No.
Ring hook	6 g	21.17.09.04

**Hang up hook**

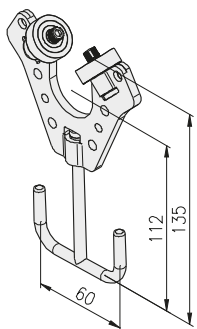


**Technical data**

material: steel, nickel plated

Description	Weight	Article No.
Hang up hook	5 g	21.17.09.05

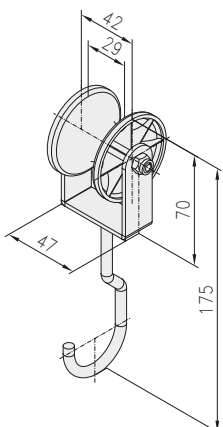
**Sliding hooks**



**Technical data**

material: steel, nickel plated

Description	Weight	Article No.
Sliding hook	210 g	21.17.09.06

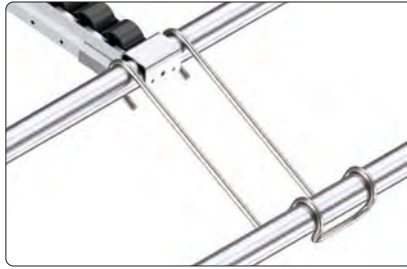


**Technical data**

material:  
roller: PA  
hook: steel, nickel plated

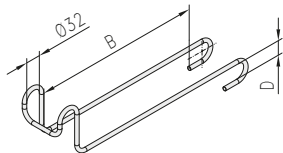
Description	Weight	Article No.
Sliding hook, PA	130 g	21.17.09.07

Tilt rails



**Technical data**

material: steel, nickel plated



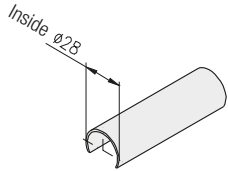
Description	B	D	Weight	Article No.
Tilt rail	200	32	186 g	21.17.10.200
Tilt rail	250	32	209 g	21.17.10.250
Tilt rail	300	32	231 g	21.17.10.300
Tilt rail	400	30	278 g	21.17.10.400

Pipe cover



Technical data

material: PE



Description	Colour	Weight	Article No.
Pipe cover	ivory	length 3 m	21.17.15.036036.30
Pipe cover	ivory	cut to length	21.17.15.036036/...

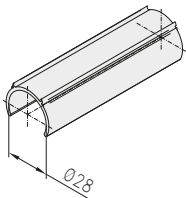
/... = length in mm

Cable duct



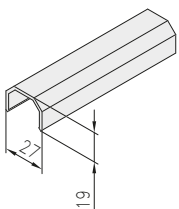
Technical data

material: PE



Description	Weight	Article No.
Cable duct base	length 3 m	21.17.16.01.30
Cable duct base	cut to length	21.17.16.01/...

/... = length in mm



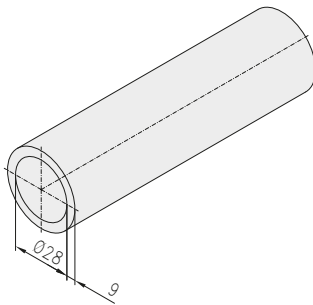
Description	Weight	Article No.
Cable duct cover	length 3 m	21.17.16.02.30
Cable duct cover	cut to length	21.17.16.02/...

/... = length in mm

Protective hose



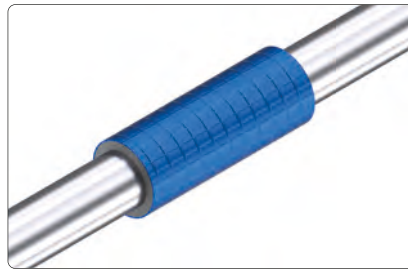
**Technical data**  
 material: PE  
 colour: grey



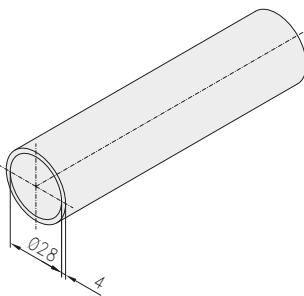
Description	Weight	Article No.
Protective hose length 2 m	0.76 kg	21.17.17.05.20
Protective hose cut to length	0.38 kg/m	21.17.17.05/...

/... = length in mm

Protective hose with protective skin



**Technical data**  
 material: PE  
 colour: blue  
 roll: 10 m










Description	Weight	Article No.
Protective hose with protective skin roll 10 m	280 g	21.17.17.06.10



Product group

21.18 Panel elements

Panel elements  18.02

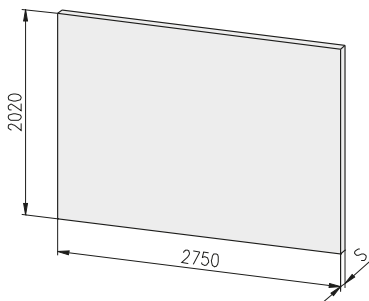
					
Chipboards	Solid plastic panels	Alu-plastic composite panels	Structured-core panels	Edge protection	Polycarbonat (Makrolon)



**Chipboards**  
both sides coated with melamine



Technical data	
surface:	both sides coated with melamine
structure:	mini pearl
RAL 7035:	light grey
formaldehydmission:	complies to safety standards §9 paragraph 3
light-fastness:	point 6 as per DIN 53799
temperature resistance:	- 25°C to 130°C
chemical resistance:	resistant against organic food, light acid contents and alkaline solution, gasoline, oil, tested as per DIN 53799
chipboard:	high frequency glued laminated chipboard
Technical values on DIN 68765 and 53799	
bulk density:	approx. 700 kg/m <sup>3</sup>
thickness tolerance:	+0.5 -0.3 mm
weight:	S = 8 mm    5.6 kg/m <sup>2</sup> S = 19 mm   13.3 kg/m <sup>2</sup>
cut to length:	1.82.□□□-99/□□□□×□□□□    type 1.82.□□□-99/□□□□×□□□□    length×width in mm 1.82.□□□-99/□□□□×□□□□

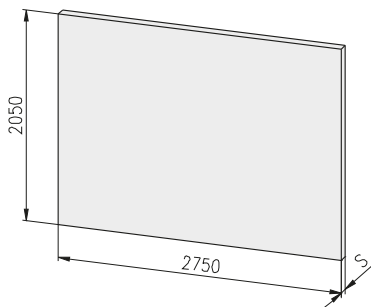


Description	S	RAL	Weight	Article No.
Chipboard	8	7035	32 kg	1.82.083.00
Chipboard	19	7035	75 kg	1.82.193.00

Solid plastic panels coated with melamine

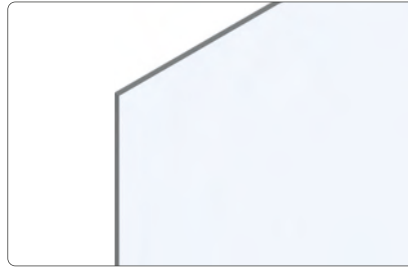


Technical data	
surface:	both sides coated with melamine
structure:	mini pearl
RAL 7035:	light grey
solid plastic panel:	made of Phenolplastic high pressure plate (HPL) of laminated material with all generally known merits of this substance.
Technical values on DIN 19926 and 53799	
bulk density:	approx. 1,500 kg/m <sup>3</sup>
thickness tolerance:	-0.6 mm
weight:	S = 4 mm    6 kg/m <sup>2</sup> S = 8 mm    12 kg/m <sup>2</sup>
cut to length:	1.83.□□□-99/□□□□×□□□□ 1.83.□□□-99/□□□□×□□□□    type 1.83.□□□-99/□□□□×□□□□    length×width in mm

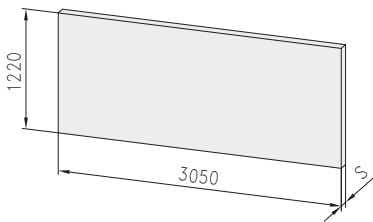


Description	S	RAL	Weight	Article No.
Solid plastic panel	4	7035	33 kg	1.83.043.00
Solid plastic panel	8	7035	66 kg	1.83.083.00

Alu-plastic composite panels

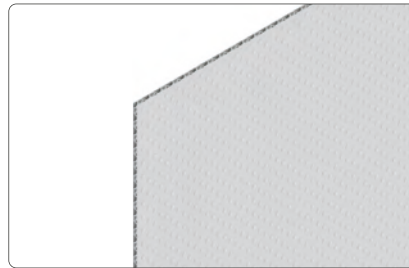


Technical data	
alu-plastic composite panel:	PE with alu coating on both sides
surface:	natural anodised, E6/EV1
temperature resistance:	- 50°C to 80°C
chemical resistance:	resistant against organic food, light acid contents and alkaline solutions, gasoline, oil
thickness tolerance:	-0.6 mm
weight:	S = 4 mm 5.5 kg/m <sup>2</sup> S = 6 mm 7.3 kg/m <sup>2</sup>
cut to length:	1.85.□□□-99/□□□□×□□□□ 1.85.□□□-99/□□□□×□□□□ type 1.85.□□□-99/□□□□×□□□□ length×width in mm



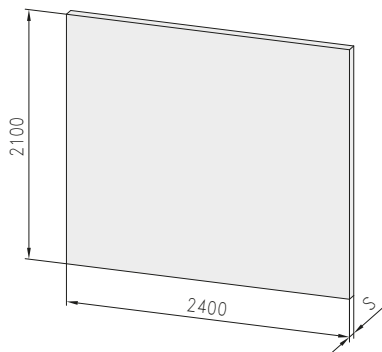
Description	S	Weight	Article No.
Alu-plastic composite panel	4	20.5 kg	1.85.040.00
Alu-plastic composite panel	6	27.2 kg	1.85.060.00

Structured-core panels

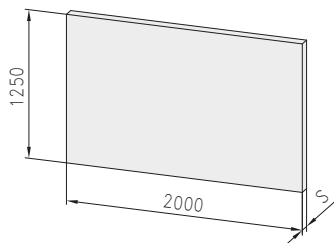


Technical data

material: PP  
 colour: black, grey, blue

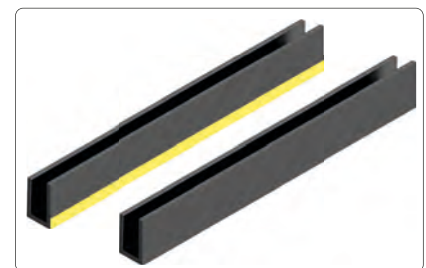


Description	S	Colour	similar to RAL	Weight	Article No.
Structured-core panel, ESD	5	black		5.1 kg	1.85.1.050.01E.00
Structured-core panel	5	grey	7001	5.1 kg	1.85.1.050.05.00
Structured-core panel	10	grey	7001	12.6 kg	1.85.1.100.05.00



Description	S	Colour	similar to RAL	Weight	Article No.
Structured-core panel	5	blue	5017	2.8 kg	1.85.1.050.07.00

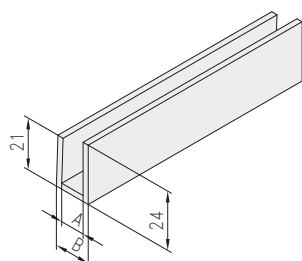
Edge protection



The ESD version is marked with a yellow stripe

Technical data

material: PP  
 colour: black  
 length: 2 m



Description	A	B	Weight	Article No.
Edge protection	5	9.8	226 g	1.85.1.K05.01.20
Edge protection, ESD	5	9.8	226 g	1.85.1.K05.01E.20
Edge protection	10	14.8	263 g	1.85.1.K10.01.20
Edge protection, ESD	10	14.8	263 g	1.85.1.K10.01E.20

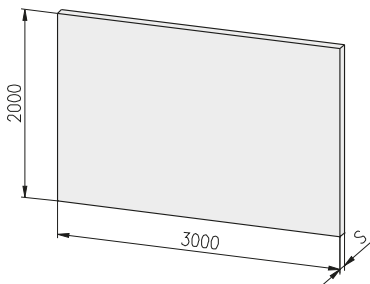


**Polycarbonate (Makrolon)**

**Application**





Doors, panels and guards with stringent security requirements as polycarbonate offers high impact resistance and strength against breakage

<b>Technical data</b>		
thickness tolerance:	+0.8 mm	
weight:	S = 4 mm 4.8 kg/m <sup>2</sup>	
	S = 5 mm 6.0 kg/m <sup>2</sup>	
	S = 6 mm 7.2 kg/m <sup>2</sup>	
	S = 8 mm 9.6 kg/m <sup>2</sup>	
cut to length:	1.87.□□□-99/□□□□×□□□□	
	1.87 □□□-99/□□□□×□□□□	type
	1.87.□□□-99/□□□□×□□□□	length×width in mm
<b>Mechanical properties at 20 °C</b>		
maximum extent of flex	68.7 MN/m <sup>2</sup>	
break / shear point	> 110.0 %	
compression	78.5 MN/m <sup>2</sup>	
elasticity	2,256.0 MN/m <sup>2</sup>	
marring resistance	392.4 J/m <sup>2</sup>	
impact resistance (kJ/m <sup>2</sup> )	no break	
tensile strength	68.7 MN/m <sup>2</sup>	
<b>Thermal properties</b>		
temperature distortion according to 'Vicat'	170 °C	
melting point	170 °C	
temperature range under static load	-100 °C to 130 °C	



Description	S	Colour	Weight	Article No.
Polycarbonate	4	transparent	28.8 kg	1.87.041.00
Polycarbonate	4	UV bronze 2850	28.8 kg	1.87.042.00
Polycarbonate	5	transparent	36.0 kg	1.87.051.00
Polycarbonate	5	UV bronze 2850	36.0 kg	1.87.052.00
Polycarbonate	6	transparent	43.2 kg	1.87.061.00
Polycarbonate	6	UV bronze 2850	43.2 kg	1.87.062.00
Polycarbonate	8	transparent	57.6 kg	1.87.081.00
Polycarbonate	8	UV bronze 2850	57.6 kg	1.87.082.00

Product group

21.99 Screws and nuts, tools				
Screws and nuts → 99.02		Tools → 99.04		
				
		Pipe cutter for ABS coated pipes	Pipe cutter for stainless steel pipes	Pipe deburrer
				Step drills for cross bushing

**Screws and nuts**

**for joints**


Description	Weight	Article No.
Connector screw M6×10, black	4 g	0.63.0912.06010.1
Connector screw M6×10, silver electroplated	4 g	0.63.0912.06010.2
Connector screw M6×25, black	7 g	0.63.0912.06025.1
Connector screw M6×25, silver electroplated	7 g	0.63.0912.06025.2
Connector nut M6, black	2 g	21.99.61.A06.1
Connector nut M6, silver electroplated	2 g	21.99.61.A06.2
Connector nut M6, black, self-locking	2 g	21.99.61.A06S.1
Connector nut M6, silver electroplated, self-locking	2 g	21.99.61.A06S.2

**for pipe clamps**


Description	Weight	Article 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, silver electropl.	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, silver electroplated	1 g	0.61.D00934.03.2

**Locking screws**

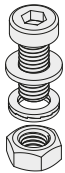

Description	Weight	Article No.
Drilling screw DIN 7504 M-H lens head PH with pressed-on washer		
M4.2×13, black	2 g	0.63.7504.4.2x131
M4.2×13, silver electroplated	2 g	0.63.7504.4.2x132
M4.2×19, black	3 g	0.63.7504.4.2x191
M4.2×19, silver electroplated	3 g	0.63.7504.4.2x192

**for castor mounting sets**


Description	Weight	Article No.
Socket head cap screw DIN 6912, M8×40, silver electroplated	17 g	0.63.D06912.08040
Hexagonal nut DIN 934 - M8	4 g	0.61.D00934.08

**Screws and nuts  
for foot plates**

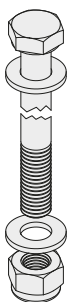

Description	Weight	Article No.
Set screw M10×12, with cupped gripping point, black	4.0 g	0.63.0916.10012.1
Set screw M10×12, with cupped gripping point, silver electropl.	4.0 g	0.63.0916.10012.2



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

**Single parts of the mounting set**

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

**Single parts of the mounting set**

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



Pipe cutter



Description	Weight	Article No.
Pipe cutter for ABS coated pipes with Ø28-32 mm	335 g	21.99.01



Description	Weight	Article No.
Pipe cutter for stainless steel pipes with Ø28-32 mm	1.100 g	21.99.02

Pipe deburrer



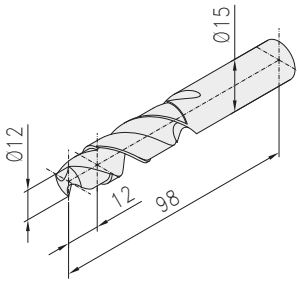
Description	Weight	Article No.
Pipe deburrer for inner and outer diameter up to Ø32 mm	190 g	21.99.10

Step drills  
for cross bushing



**Technical data**

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



Description	Weight	Article No.
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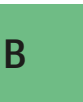








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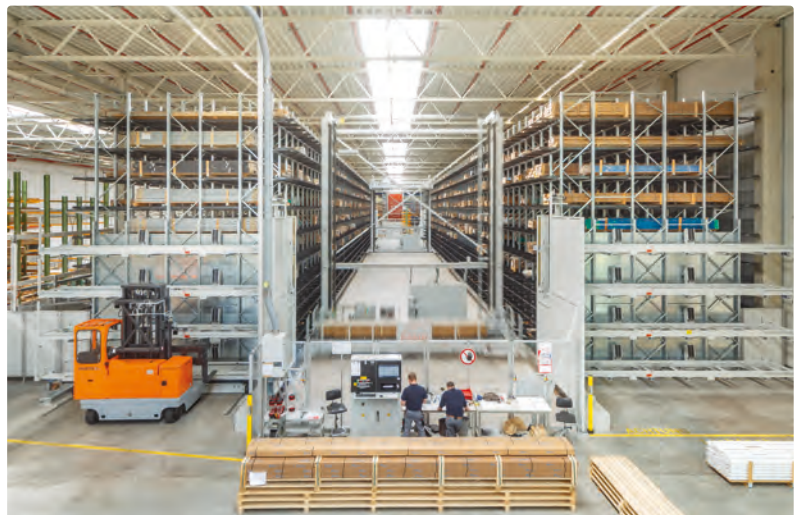




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