



## » The Pipe & Joint System

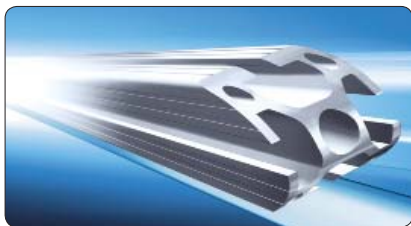
English  
3/2017

 MayTec®

# The key to success!



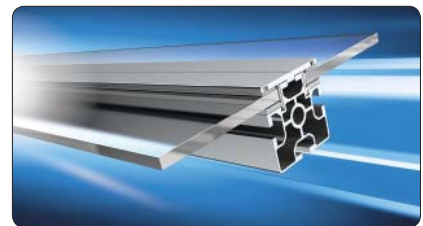
## Solutions with Innovative Profile



The Profile System



The Clean-Room System



The Modular Wall System



The Tube Clamping System



The Telescopic System



The Linear System



The Conveyor System



The People Mover System



The Skid Transfer System



Safety Barriers



The Dust Protection System



The Pipe & Joint System

### The ideal profile system

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

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

### Service

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

You may choose:

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

### Implementation

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

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

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**Pipes**

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







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

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

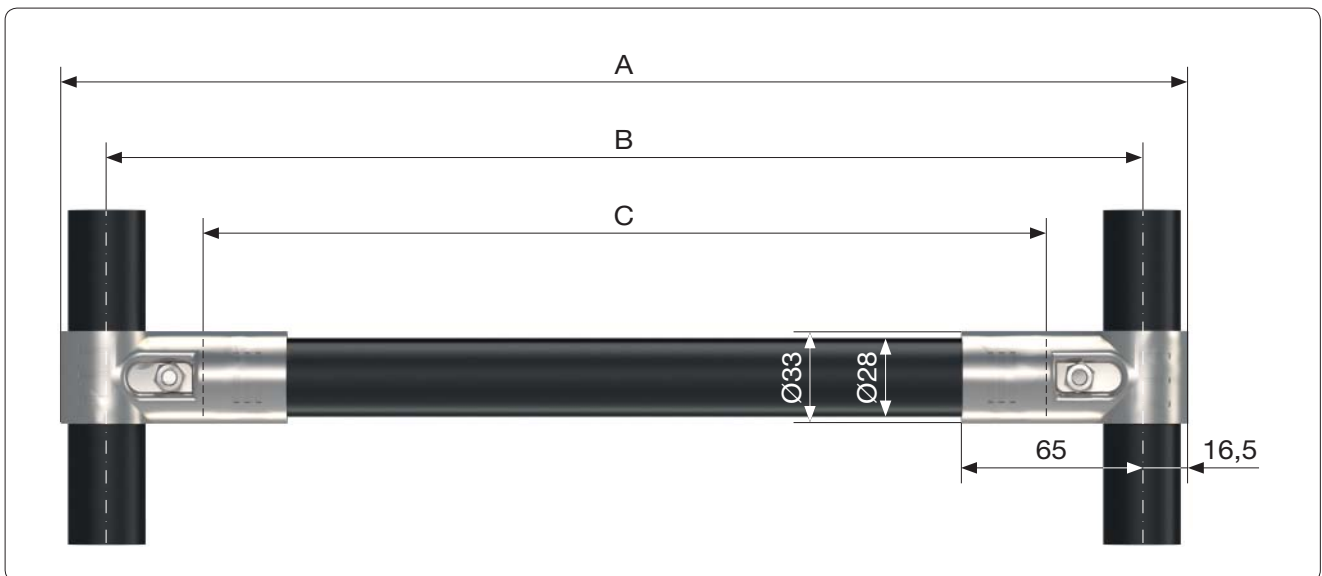
**Cut to length pipes**

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

**Colours**

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











Calculation of cut length



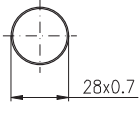




**Definitions**

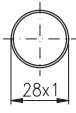




A = outside dimension  
 B = pipe center span  
 C = pipe cut length

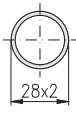




| A                 | B                | C               |
|-------------------|------------------|-----------------|
| outside dimension | pipe center span | pipe cut length |
| $B = A - 33$      | $A = B + 33$     | $A = C + 103$   |
| $C = A - 103$     | $C = B - 70$     | $B = C + 70$    |

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



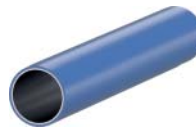


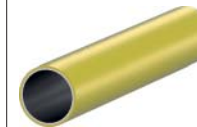
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|-----------|---|---|-----|--|--|--|--|--|--|--|--|--|--|---|
| Aluminium |  | ESD  | 1.5 |  |  |  |  |  |  |  |  |  |  | • |
|-----------|---|---|-----|--|--|--|--|--|--|--|--|--|--|---|



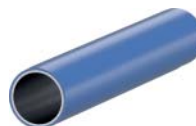



| wall thickness 0.7 mm  |                             |                            |                            |                                |
|--|-----------------------------|----------------------------|----------------------------|--------------------------------|
|   |                     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



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


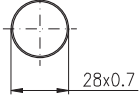

| wall thickness 2.0 mm  |                             |                            |                            |                                |
|--|-----------------------------|----------------------------|----------------------------|--------------------------------|
|   |                     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




Cut specifications ↔ Numerical key for products 21.02


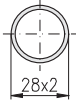

|   |   |   |   |   |   |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| Steel pipe Ø28,<br>0.7, light grey  | Steel pipe Ø28,<br>0.7, dark blue   | Steel pipe Ø28,<br>0.7, light blue  | Steel pipe Ø28,<br>0.7, green   | Steel pipe Ø28,<br>0.7, red   | Steel pipe Ø28,<br>0.7, yellow  |
| 21.11.110.07.05.40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

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

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

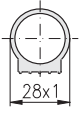



|   |                 |   |             |  |  |
|---|-----------------|---|-------------|--|--|
| wall thickness 0.7 mm<br><br> |                 |  |             |  |  |
| Description   |                 | Steel pipe Ø28, 0.7 black, ESD  |             |  |  |
| pipe, 4 m   |                 | 21.11.11E.07.01.40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


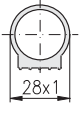

|  |                 |  |             |  |  |
|--|-----------------|--|-------------|--|--|
| wall thickness 1.0 mm<br><br> |                 |  |             |  |  |
| Description  |                 | Steel pipe Ø28, 1.0 black, ESD   |             |  |  |
| pipe, 4 m  |                 | 21.11.11E.10.01.40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

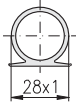

|   |                 |   |             |  |  |
|---|-----------------|---|-------------|--|--|
| wall thickness 2.0 mm<br><br> |                 |  |             |  |  |
| Description   |                 | Steel pipe Ø28, 2.0 black, ESD  |             |  |  |
| pipe, 4 m   |                 | 21.11.11E.20.01.40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


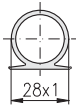

Cut specifications ⇄ Numerical key for products 21.02


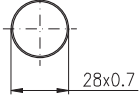




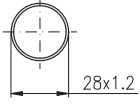

|  |   |   |  |  |
|--|---|---|--|--|
| wall thickness 1.0 mm<br> |   |   |  |  |
|  |  |  |  |  |
| Description  | Slide pipe Ø28, 1.0 black   | Slide pipe Ø28, 1.0 white   | Slide pipe Ø28, 1.0 ivory  |  |
| pipe, 4 m  | 21.11.120.10.01.40  | 21.11.120.10.02.40  | 21.11.120.10.03.40   |  |
| packing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

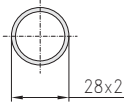

|  |  |  |  |  |
|--|--|--|--|--|
| wall thickness 1.0 mm<br><br> |  |  |  |  |
|  |  |  |  |  |
| Description  | Slide pipe Ø28, 1.0 black, ESD   |  |  |  |
| pipe, 4 m  | 21.11.12E.10.01.40   |  |  |  |
| packing unit 1 (10 Pcs)  | 21.11.12E.10.01.41   |  |  |  |
| packing unit 2 (100 Pcs)   | 21.11.12E.10.01.42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

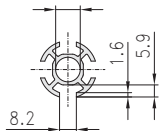




|  |                          |   |  |  |
|--|--------------------------|---|--|--|
| wall thickness 1.0 mm<br> |                          |  |  |  |
| Description  | Flat pipe Ø28, 1.0 black |   |  |  |
| Pipe, 4 m  | 21.11.130.10.01.40       |   |  |  |
| packing unit 1 (10 Pcs)  | 21.11.130.10.01.41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

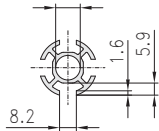

|   |                               |  |  |  |
|---|-------------------------------|--|--|--|
| wall thickness 1.0 mm<br>  |                               |  |  |  |
| Description   | Flat pipe Ø28, 1.0 black, ESD |  |  |  |
| Pipe, 4 m   | 21.11.13E.10.01.40            |  |  |  |
| packing unit 1 (10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

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

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

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

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

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

Cut specifications ↔ Numerical key for products 21.02

Standard joints



Standard joint 90°  
↗ 14



Tangential joint  
↗ 14



90° angle joint  
↗ 15



180° joint  
↗ 15



T-joint  
↗ 16



Star joint  
↗ 16

Standard joints overlapping joint



Standard joint 90°  
↗ 17



180° joint  
↗ 17

Angle joints



Corner joint  
↗ 18



45° angle joint  
↗ 18



Hinged joint  
↗ 19



Double hinged joint  
↗ 19



Hinged corner joint  
↗ 20

Crossover joints



Crossover joint  
↗ 20



Tangential crossover joint  
↗ 21



Bolted crossover joint  
↗ 21



Tangential bolted crossover joint  
↗ 22

Parallel joints



Parallel joint  
↗ ↘ 22



Double standard joint  
↗ ↘ 23

Extensions



Extension for ABS coated pipes  
↗ ↘ 23

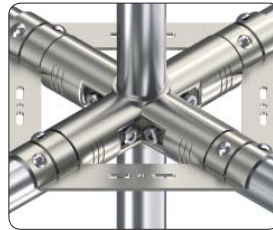


Extension for stainless steel pipes  
↗ ↘ 23

Joint bracing



Corner support  
↗ ↘ 24



Corner support type B  
↗ ↘ 24

Sliding joints



90° sliding joint  
↗ ↘ 25



Parallel sliding joint  
↗ ↘ 26



Double sided parallel sliding joint  
↗ ↘ 27

Flat pipe joints



Flat pipe joint  
➔ 28

Slide pipe joints



Slide pipe joint  
➔ 29



Slide pipe joint with stop  
➔ 29



Slide pipe joint union  
➔ 29



Slide pipe joint with offset  
➔ 30

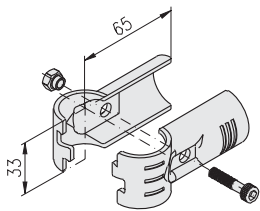


Slide pipe bridge  
➔ 30



Slide pipe bridge, rounded  
➔ 30

Standard joint 90°



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

Single parts

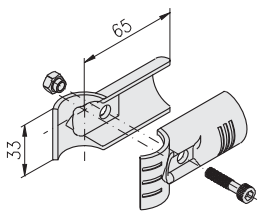
| Description            | Pcs. | Weight | Product No.                               |
|------------------------|------|--------|---|
| Standard connector 90° | 2    | 70 g   | 21.121.01A. <input type="checkbox"/>      |
| Connector screw M6×25  | 1    | 7 g    | 0.63.6912.06025. <input type="checkbox"/> |
| Connector nut M6       | 1    | 2 g    | 21.99.61.A06. <input type="checkbox"/>    |

black 1  
 nickel plated / silver 2

Alternative

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

Tangential joint



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

Single parts

| Description           | Pcs. | Weight | Product No.                               |
|-----------------------|------|--------|---|
| Tangential connector  | 2    | 60 g   | 21.121.02A. <input type="checkbox"/>      |
| Connector screw M6×25 | 1    | 7 g    | 0.63.6912.06025. <input type="checkbox"/> |
| Connector nut M6      | 1    | 2 g    | 21.99.61.A06. <input type="checkbox"/>    |

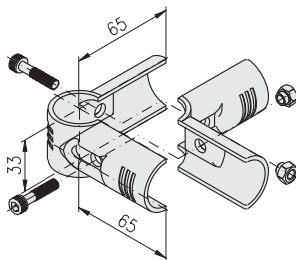
black 1  
 nickel plated / silver 2

Alternative

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



90° angle joint



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

Single parts

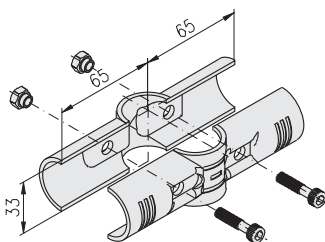
| Description                 | Pcs. | Weight | Product No.                               |
|-----------------------------|------|--------|---|
| 90° angle connector inside  | 1    | 96 g   | 21.121.03A. <input type="checkbox"/>      |
| 90° angle connector outside | 1    | 125 g  | 21.121.03B. <input type="checkbox"/>      |
| Connector screw M6×25       | 2    | 7 g    | 0.63.6912.06025. <input type="checkbox"/> |
| Connector nut M6            | 2    | 2 g    | 21.99.61.A06. <input type="checkbox"/>    |

Alternative

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

black 1  
 nickel plated / silver 2

180° joint



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

Single parts

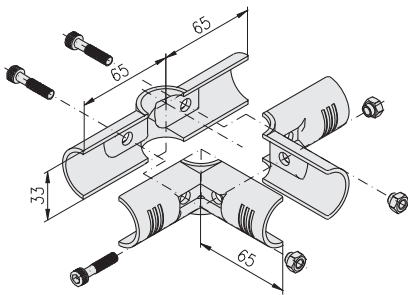
| Description           | Pcs. | Weight | Product No.                               |
|-----------------------|------|--------|---|
| 180° connector        | 2    | 110 g  | 21.121.04A. <input type="checkbox"/>      |
| Connector screw M6×25 | 2    | 7 g    | 0.63.6912.06025. <input type="checkbox"/> |
| Connector nut M6      | 2    | 2 g    | 21.99.61.A06. <input type="checkbox"/>    |

Alternative

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

black 1  
 nickel plated / silver 2

T-joint



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

Single parts

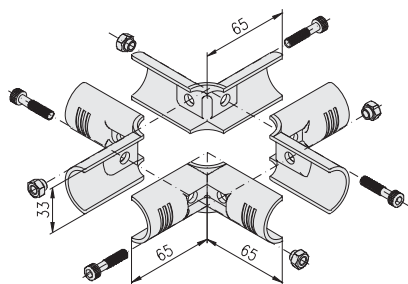
| Description                | Pcs. | Weight | Product No.                               |
|----------------------------|------|--------|---|
| 90° angle connector inside | 2    | 96 g   | 21.121.03A. <input type="checkbox"/>      |
| 180° connector             | 1    | 110 g  | 21.121.04A. <input type="checkbox"/>      |
| Connector screw M6×25      | 3    | 7 g    | 0.63.6912.06025. <input type="checkbox"/> |
| Connector nut M6           | 3    | 2 g    | 21.99.61.A06. <input type="checkbox"/>    |

Alternative

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

black 1  
 nickel plated / silver 2

Star joint



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

Single parts

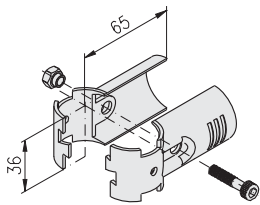
| Description                | Pcs. | Weight | Product No.                               |
|----------------------------|------|--------|---|
| 90° angle connector inside | 4    | 96 g   | 21.121.03A. <input type="checkbox"/>      |
| Connector screw M6×25      | 4    | 7 g    | 0.63.6912.06025. <input type="checkbox"/> |
| Connector nut M6           | 4    | 2 g    | 21.99.61.A06. <input type="checkbox"/>    |

Alternative

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

black 1  
 nickel plated / silver 2

**Standard joint 90°  
overlapping joint**



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

**Single parts**

| Description                               | Pcs. | Weight | Product No.       |
|---|------|--------|-------------------|
| Standard connector 90°, overlapping joint | 2    | 66 g   | 21.121.11A.□      |
| Connector screw M6×25                     | 1    | 7 g    | 0.63.6912.06025.□ |
| Connector nut M6                          | 1    | 2 g    | 21.99.61.A06.□    |

□  
black 1  
nickel plated / silver 2

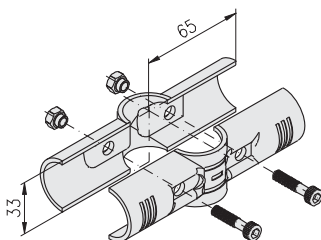
**Alternative**

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

**Optional**

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

**180° joint  
overlapping joint**



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

**Single parts**

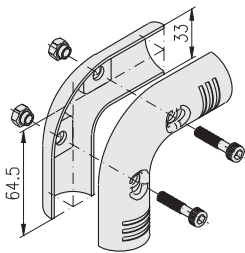
| Description                       | Pcs. | Weight | Product No.       |
|-----------------------------------|------|--------|-------------------|
| 180° connector, overlapping joint | 2    | 110 g  | 21.121.14A.□      |
| Connector screw M6×25             | 2    | 7 g    | 0.63.6912.06025.□ |
| Connector nut M6                  | 2    | 2 g    | 21.99.61.A06.□    |

□  
black 1  
nickel plated / silver 2

**Alternative**

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

Corner joint



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

Single parts

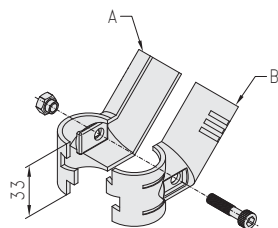
| Description           | Pcs. | Weight | Product No.       |
|-----------------------|------|--------|-------------------|
| Corner connector      | 2    | 107 g  | 21.121.21A.□      |
| Connector screw M6×25 | 2    | 7 g    | 0.63.6912.06025.□ |
| Connector nut M6      | 2    | 2 g    | 21.99.61.A06.□    |

Alternative

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

□  
black 1  
nickel plated / silver 2

45° angle joint



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

Single parts

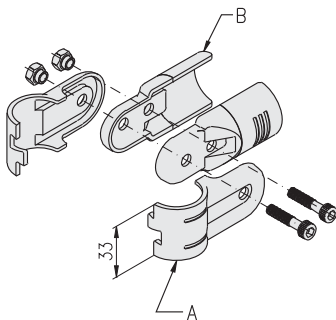
| Description                 | Pcs. | Weight | Product No.       |
|-----------------------------|------|--------|-------------------|
| 45° angle connector, part A | 1    | 73 g   | 21.121.22A.□      |
| 45° angle connector, part B | 1    | 73 g   | 21.121.22B.□      |
| Connector screw M6×25       | 1    | 7 g    | 0.63.6912.06025.□ |
| Connector nut M6            | 1    | 2 g    | 21.99.61.A06.□    |

Alternative

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

□  
black 1  
nickel plated / silver 2

Hinged joint



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

Single parts

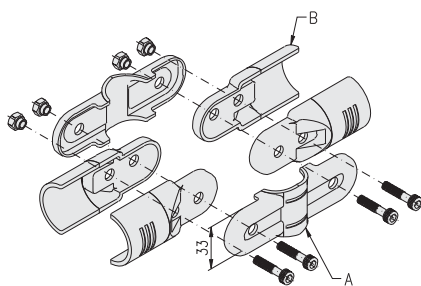
| Description              | Pcs. | Weight | Product No.                               |
|--------------------------|------|--------|---|
| Hinged connector, part A | 2    | 48 g   | 21.121.23A. <input type="checkbox"/>      |
| Hinged connector, part B | 2    | 60 g   | 21.121.23B. <input type="checkbox"/>      |
| Connector screw M6×25    | 2    | 7 g    | 0.63.6912.06025. <input type="checkbox"/> |
| Connector nut M6         | 2    | 2 g    | 21.99.61.A06. <input type="checkbox"/>    |

Alternative

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

black 1  
 nickel plated / silver 2

Double hinged joint



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

Single parts

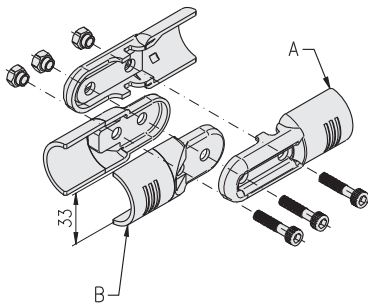
| Description                     | Pcs. | Weight | Product No.                               |
|---------------------------------|------|--------|---|
| Double hinged connector, part A | 2    | 59 g   | 21.121.24A. <input type="checkbox"/>      |
| Hinged connector, part B        | 4    | 60 g   | 21.121.23B. <input type="checkbox"/>      |
| Connector screw M6×25           | 4    | 7 g    | 0.63.6912.06025. <input type="checkbox"/> |
| Connector nut M6                | 4    | 2 g    | 21.99.61.A06. <input type="checkbox"/>    |

Alternative

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

black 1  
 nickel plated / silver 2

Hinged corner joint



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

Single parts

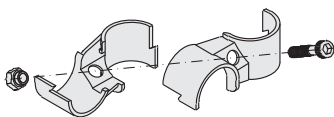
| Description                     | Pcs. | Weight | Product No.                               |
|---------------------------------|------|--------|---|
| Hinged corner connector, part A | 2    | 67 g   | 21.121.25A. <input type="checkbox"/>      |
| Hinged connector, part B        | 2    | 60 g   | 21.121.23B. <input type="checkbox"/>      |
| Connector screw M6×25           | 3    | 7 g    | 0.63.6912.06025. <input type="checkbox"/> |
| Connector nut M6                | 3    | 2 g    | 21.99.61.A06. <input type="checkbox"/>    |

black 1  
 nickel plated / silver 2

Alternative

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

Crossover joint



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

Single parts

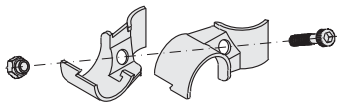
| Description           | Pcs. | Weight | Product No.                               |
|-----------------------|------|--------|---|
| Crossover connector   | 2    | 50 g   | 21.121.31A. <input type="checkbox"/>      |
| Connector screw M6×25 | 1    | 7 g    | 0.63.6912.06025. <input type="checkbox"/> |
| Connector nut M6      | 1    | 2 g    | 21.99.61.A06. <input type="checkbox"/>    |

black 1  
 nickel plated / silver 2

Alternative

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

Tangential crossover joint



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

Single parts

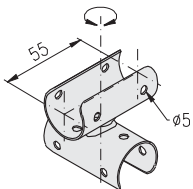
| Description                    | Pcs. | Weight | Product No.                               |
|--------------------------------|------|--------|---|
| Tangential crossover connector | 2    | 44 g   | 21.121.32A. <input type="checkbox"/>      |
| Connector screw M6×25          | 1    | 7 g    | 0.63.6912.06025. <input type="checkbox"/> |
| Connector nut M6               | 1    | 2 g    | 21.99.61.A06. <input type="checkbox"/>    |

black 1  
nickel plated / silver 2

Alternative

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

Bolted crossover connector

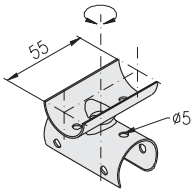


| Description                               | Weight | Product No.  |
|---|--------|--------------|
| Bolted crossover connector, nickel plated | 110 g  | 21.121.33A.2 |

Optional

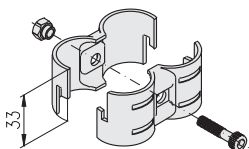
|  |     |                   |
|--|-----|-------------------|
| Self cutting screw M4.2×13, galvanised white steel | 2 g | 0.63.7504.4,2x132 |
|--|-----|-------------------|

**Bolted crossover connector, tangential**



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

**Parallel joint**



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

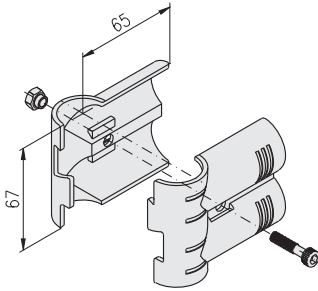
**Single parts**

| Description                    | Pcs. | Weight | Product No.       |
|--------------------------------|------|--------|-------------------|
| Parallel connector             | 2    | 56 g   | 21.121.41A.□      |
| Connector screw M6×25          | 1    | 7 g    | 0.63.6912.06025.□ |
| Connector nut M6               | 1    | 2 g    | 21.99.61.A06.□    |
| <b>Alternative</b>             |      |        |                   |
| Connector nut M6, self-locking |      | 2 g    | 21.99.61.A06S.□   |

□  
 black 1  
 nickel plated / silver 2



Double standard joint



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

Single parts

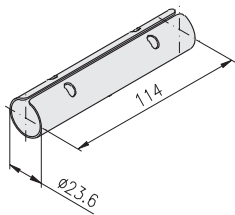
| Description               | Pcs. | Weight | Product No.       |
|---------------------------|------|--------|-------------------|
| Double standard connector | 2    | 140 g  | 21.121.42A.□      |
| Connector screw M6×25     | 1    | 7 g    | 0.63.6912.06025.□ |
| Connector nut M6          | 1    | 2 g    | 21.99.61.A06.□    |

□  
 black 1  
 nickel plated / silver 2

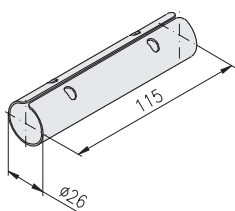
Alternative

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

Extensions for pipes

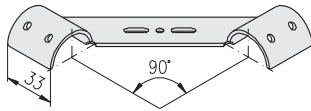
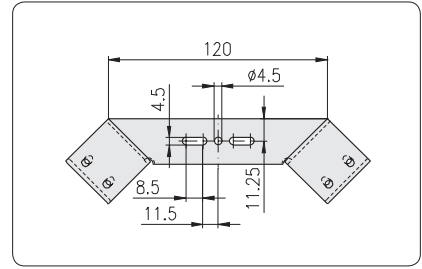


| Description                    | Weight | Product No. |
|--------------------------------|--------|-------------|
| Extension for ABS coated pipes | 46 g   | 21.121.51.2 |



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

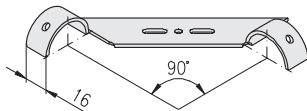
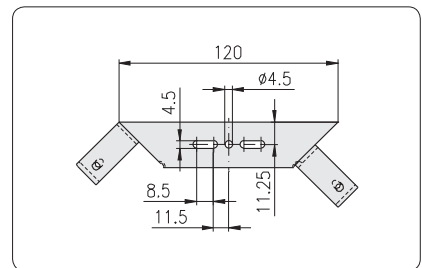
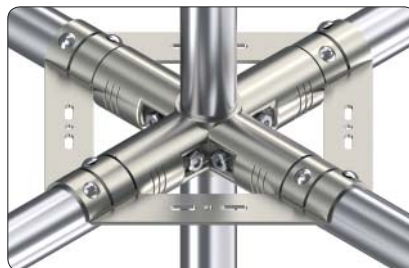
Corner support



| Description                   | Weight | Product No. |
|-------------------------------|--------|-------------|
| Corner support, nickel plated | 106 g  | 21.121.61.2 |

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

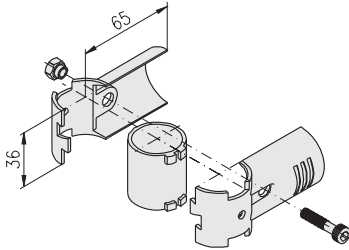
type B



| Description                           | Weight | Product No. |
|---------------------------------------|--------|-------------|
| Corner support, type B, nickel plated | 71 g   | 21.121.62.2 |

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

90° sliding joint



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

**Single parts**

|                              |   |      |                   |
|------------------------------|---|------|-------------------|
| 90° sliding connector, black | 2 | 64 g | 21.121.71A.1      |
| Sliding sleeve, black        | 1 | 6 g  | 21.121.70A.01     |
| Connector screw M6×25        | 1 | 7 g  | 0.63.6912.06025.1 |
| Connector nut M6             | 1 | 2 g  | 21.99.61.A06.1    |

**Alternative**

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

**Optional**

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

| Description                      | Pcs. | Weight | Product No. |
|----------------------------------|------|--------|-------------|
| 90° sliding joint, nickel plated | 1    | 143 g  | 21.121.71.2 |

**Single parts**

|                                      |   |      |                   |
|--------------------------------------|---|------|-------------------|
| 90° sliding connector, nickel plated | 2 | 64 g | 21.121.71A.2      |
| Sliding sleeve, grey                 | 1 | 6 g  | 21.121.70A.04     |
| Connector screw M6×25                | 1 | 7 g  | 0.63.6912.06025.2 |
| Connector nut M6                     | 1 | 2 g  | 21.99.61.A06.2    |

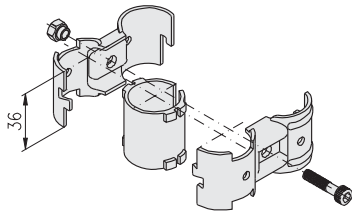
**Alternative**

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

**Optional**

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

Parallel sliding joint  
single sided



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

**Single parts**

|   |   |      |                   |
|---|---|------|-------------------|
| Parallel sliding connector, single sided, black | 2 | 63 g | 21.121.72A.1      |
| Sliding sleeve, black                           | 1 | 6 g  | 21.121.70A.01     |
| Connector screw M6×25                           | 1 | 7 g  | 0.63.6912.06025.1 |
| Connector nut M6                                | 1 | 2 g  | 21.99.61.A06.1    |

**Alternative**

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

**Optional**

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

| Description   | Pcs. | Weight | Product No. |
|---|------|--------|-------------|
| Parallel sliding joint, single sided, nickel plated | 1    | 141 g  | 21.121.72.2 |

**Single parts**

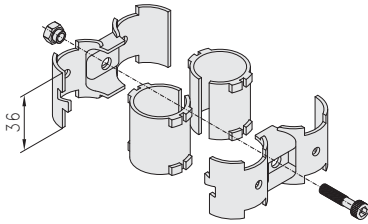
|   |   |      |                   |
|---|---|------|-------------------|
| Parallel sliding connector, single sided, nickel plated | 2 | 63 g | 21.121.72A.2      |
| Sliding sleeve, grey                                    | 1 | 6 g  | 21.121.70A.04     |
| Connector screw M6×25                                   | 1 | 7 g  | 0.63.6912.06025.2 |
| Connector nut M6  | 1 | 2 g  | 21.99.61.A06.2    |

**Alternative**

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

**Optional**

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

**Parallel sliding joint  
double sided**


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

**Single parts**

|   |   |      |                   |
|---|---|------|-------------------|
| Parallel sliding connector, double sided, black | 2 | 57 g | 21.121.73A.1      |
| Sliding sleeve, black                           | 2 | 6 g  | 21.121.70A.01     |
| Connector screw M6×25                           | 1 | 7 g  | 0.63.6912.06025.1 |
| Connector nut M6                                | 1 | 2 g  | 21.99.61.A06.1    |

**Alternative**

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

**Optional**

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

| Description   | Pcs. | Weight | Product No. |
|---|------|--------|-------------|
| Parallel sliding joint, double sided, nickel plated | 1    | 135 g  | 21.121.73.2 |

**Single parts**

|   |   |      |                   |
|---|---|------|-------------------|
| Parallel sliding connector, double sided, nickel plated | 2 | 57 g | 21.121.73A.2      |
| Sliding sleeve, grey                                    | 2 | 6 g  | 21.121.70A.04     |
| Connector screw M6×25                                   | 1 | 7 g  | 0.63.6912.06025.2 |
| Connector nut M6  | 1 | 2 g  | 21.99.61.A06.2    |

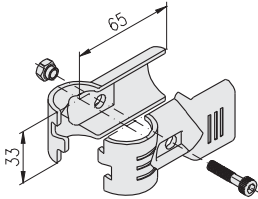
**Alternative**

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

**Optional**

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

Flat pipe joint



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

Single parts

| Description            | Pcs. | Weight | Product No.       |
|------------------------|------|--------|-------------------|
| Flat pipe connector    | 1    | 70 g   | 21.121.81A.□      |
| Standard connector 90° | 1    | 70 g   | 21.121.01A.□      |
| Connector screw M6×25  | 1    | 7 g    | 0.63.6912.06025.□ |
| Connector nut M6       | 1    | 2 g    | 21.99.61.A06.□    |

□  
 black 1  
 nickel plated / silver 2

Alternative

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

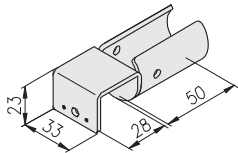
Optional

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

Slide pipe joint



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



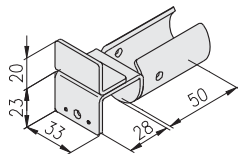
| Description      | Weight | Product No. |
|------------------|--------|-------------|
| Slide pipe joint | 115 g  | 21.121.91.2 |

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

Slide pipe joint with stop



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



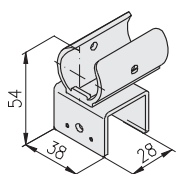
| Description                | Weight | Product No. |
|----------------------------|--------|-------------|
| Slide pipe joint with stop | 140 g  | 21.121.92.2 |

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

Slide pipe joint union



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



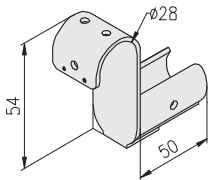
| Description            | Weight | Product No. |
|------------------------|--------|-------------|
| Slide pipe joint union | 113 g  | 21.121.93.2 |

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

Slide pipe joint with offset



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



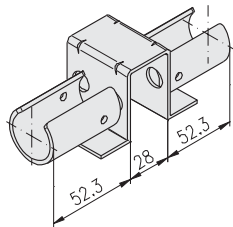
| Description                  | Weight | Product No. |
|------------------------------|--------|-------------|
| Slide pipe joint with offset | 126 g  | 21.121.94.2 |

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

Slide pipe bridge



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



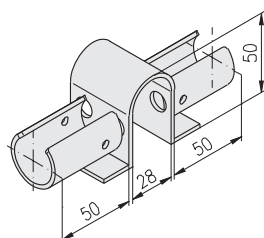
| Description       | Weight | Product No. |
|-------------------|--------|-------------|
| Slide pipe bridge | 235 g  | 21.121.95.2 |

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

Slide pipe bridge rounded



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

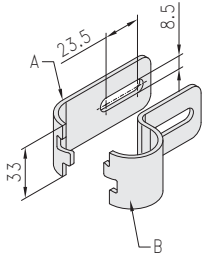


| Description                | Weight | Product No. |
|----------------------------|--------|-------------|
| Slide pipe bridge, rounded | 235 g  | 21.121.96.2 |

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



**Screw-on pipe clamp flush**



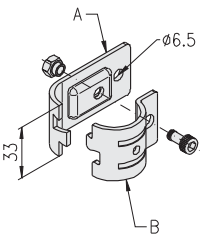
| Description                               | Weight | Product No. |
|---|--------|-------------|
| Screw-on pipe clamp, flush, black         | 117 g  | 21.13.00.1  |
| Screw-on pipe clamp, flush, nickel plated | 117 g  | 21.13.00.2  |

**Single parts**

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

- black 1
- nickel plated / silver 2

**Screw-on pipe clamp**



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

**Single parts**

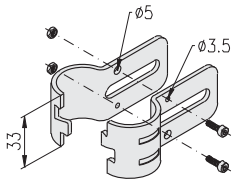
| Description                 | Pcs. | Weight | Product No.       |
|-----------------------------|------|--------|-------------------|
| Screw-on pipe clamp, part A | 1    | 43 g   | 21.13.01A.□       |
| Screw-on pipe clamp, part B | 1    | 43 g   | 21.13.01B.□       |
| Connector screw M6×10     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

- black 1
- nickel plated / silver 2

**Optional**

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

Screw-on pipe clamp  
center



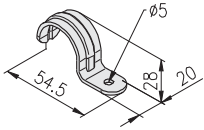
| Description                                | Weight | Product No. |
|--|--------|-------------|
| Screw-on pipe clamp, center, black         | 104 g  | 21.13.02.1  |
| Screw-on pipe clamp, center, nickel plated | 104 g  | 21.13.02.2  |

□  
black 1  
nickel plated / silver 2

Single parts

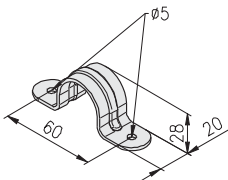
| Description                                 | Pcs. | Weight | Product No.       |
|---|------|--------|-------------------|
| Screw-on pipe clamp, center, part A         | 2    | 50 g   | 21.13.02A.□       |
| Cylindric head screw DIN EN ISO 4762, M3×10 | 2    | 1 g    | 0.63.4762.03010.□ |
| Hexagonal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

Single sided pipe clamp



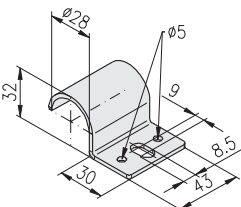
| Description                            | Weight | Product No. |
|--|--------|-------------|
| Single sided pipe clamp, nickel plated | 22 g   | 21.13.03.2  |

Double sided pipe clamp



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

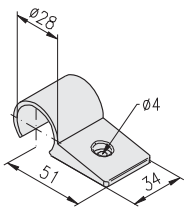
Pipe clamp wide



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

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

Pipe clamps PE



**Description**

Pipe clamp PE, black

**Weight**

14 g

**Product No.**

21.13.06.01

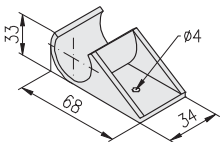


Pipe clamp PE, black, ESD

14 g

21.13.06.01E

Pipe clamps PE type B



**Description**

Pipe clamp PE, type B, black

**Weight**

16 g

**Product No.**

21.13.07.01

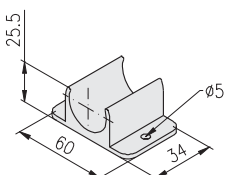


Pipe clamp PE, type B, black, ESD

16 g

21.13.07.01E

Pipe clips PE



**Description**

Pipe clip PE, black

**Weight**

13 g

**Product No.**

21.13.08.01

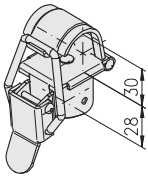


Pipe clip PE, black, ESD

13 g

21.13.08.01E

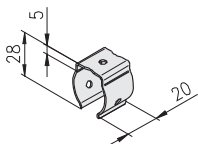
Pipe quick lock



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

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

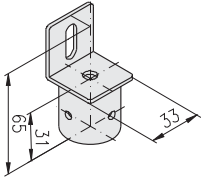
Pipe clip



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

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

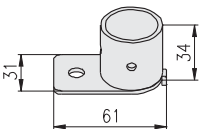
Profile adaptor



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

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

Profile adaptor 90°



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

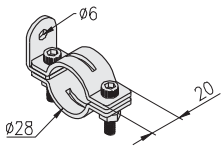
| Optional   | Weight | Product No.       |
|--|--------|-------------------|
| Self cutting screw M4.2×13, galvanised white steel | 2 g    | 0.63.7504.4,2x132 |



**Shock absorber**

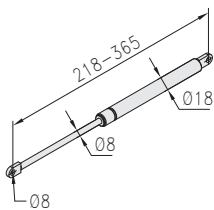


**Shock absorber clamp**



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

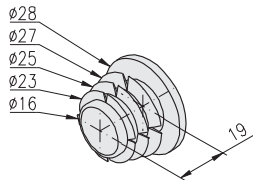
**Shock absorber**




| Description    | Weight | Product No. |
|----------------|--------|-------------|
| Shock absorber | 214 g  | 21.13.18    |



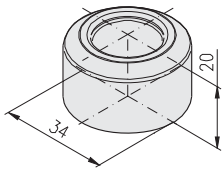
**End caps  
for all pipes**




**Description**

|   | <b>Weight</b> | <b>Product No.</b> |
|---|---------------|--------------------|
| End cap, PE, black  | 3 g           | 21.14.01.01        |
|  End cap, PE, black, ESD | 3 g           | 21.14.01.01E       |
| End cap, PE, ivory  | 3 g           | 21.14.01.03        |
| End cap, PE, grey   | 3 g           | 21.14.01.04        |
| End cap, chromed  | 3 g           | 21.14.01.CR        |

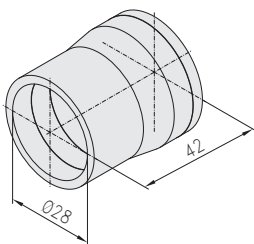
**Cover cap**



**Description**

|   | <b>Weight</b> | <b>Product No.</b> |
|---|---------------|--------------------|
| 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**



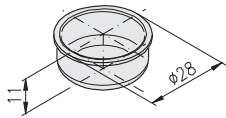
**Description**

|                   | <b>Weight</b> | <b>Product No.</b> |
|-------------------|---------------|--------------------|
| Rubber cap, black | 25 g          | 21.14.02.RUB       |

**End plugs  
for ABS coated pipes**



**Technical data**  
material: steel

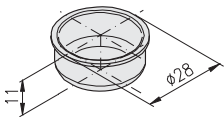


| Description                   | wall thickness | Weight | Product No. |
|-------------------------------|----------------|--------|-------------|
| End plug for ABS coated pipes | 0.7            | 7 g    | 21.14.03.07 |
| End plug for ABS coated pipes | 1.0            | 7 g    | 21.14.03.10 |

**End plugs  
for stainless steel pipes**

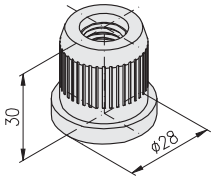


**Technical data**  
material: steel



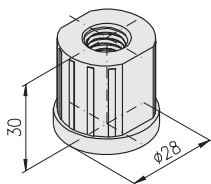
| Description                        | wall thickness | Weight | Product No. |
|------------------------------------|----------------|--------|-------------|
| End plug for stainless steel pipes | 0.7            | 7 g    | 21.14.04.07 |
| End plug for stainless steel pipes | 1.2            | 7 g    |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

**Threaded inserts  
for ABS coated pipes**



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

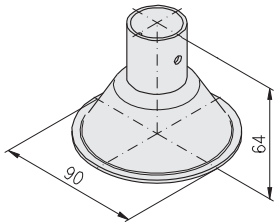
**Threaded inserts  
for stainless steel pipes**



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

Slip on feet

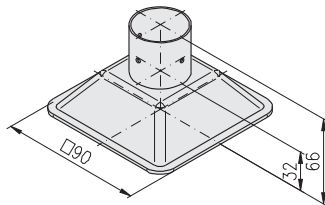
round



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

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

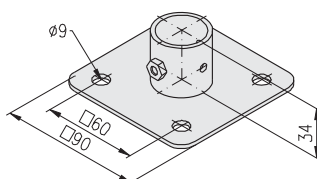
square



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

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

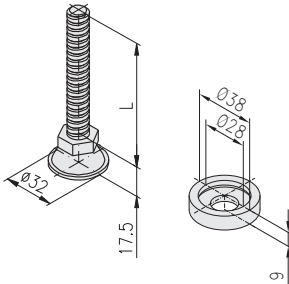
flat



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

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

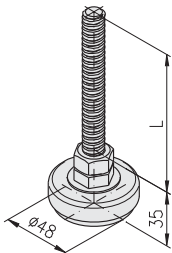
Threaded feet



**Technical data**

material: steel, galvanised

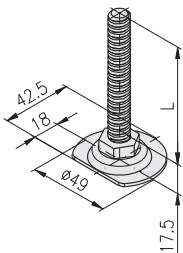
| Description                     | G × L    | Weight | Product No.       |
|---------------------------------|----------|--------|-------------------|
| Threaded foot 32                | M12 × 50 | 75 g   | 21.15.04.032050.1 |
| Threaded foot 32                | M12 × 82 | 95 g   | 21.15.04.032082.1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



**Technical data**

material: stainless steel

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

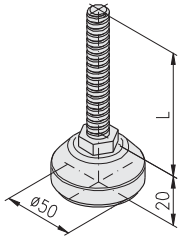


**Technical data**

material: steel, galvanised

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

**Threaded feet with rubber pad**

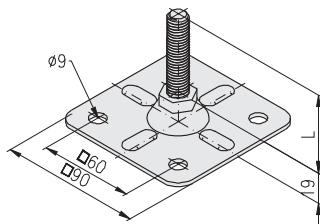


**Technical data**

material: steel, galvanised

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

**Threaded foot square**

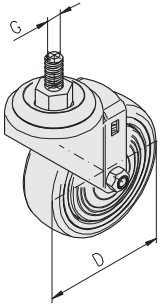


**Technical data**

material: steel, galvanised

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

Swivel castors with thread



Technical data

material:



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

colour of tyre:

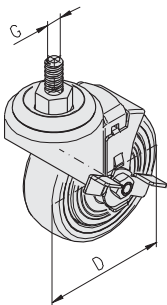
- standard: red
- ESD: black

Ø75/100 incl. thread protection

load capacity: F

| Description  | G    | D    | F      | Weight | Product No.   |
|--|------|------|--------|--------|---------------|
| Swivel castor with thread  | M12  | Ø75  | 130 kg | 620 g  | 21.15.09.075  |
| Swivel castor with thread  | M12  | Ø100 | 160 kg | 735 g  | 21.15.09.100  |
|  Swivel castor with thread, ESD | 5/8" | Ø75  | 80 kg  | 770 g  | 21.15.11.075E |
|  Swivel castor with thread, ESD | 5/8" | Ø100 | 100 kg | 965 g  | 21.15.11.100E |

Swivel castors with break with thread



Technical data

material:



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

colour of tyre:

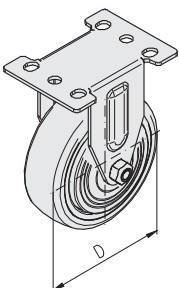
- standard: red
- ESD: black

Ø75/100 incl. thread protection

load capacity: F

| Description   | G    | D    | F      | Weight  | Product No.   |
|---|------|------|--------|---------|---------------|
| Swivel castor with break  | M12  | Ø75  | 130 kg | 680 g   | 21.15.12.075  |
| Swivel castor with break  | M12  | Ø100 | 160 kg | 800 g   | 21.15.12.100  |
|  Swivel castor with break, ESD | 5/8" | Ø75  | 80 kg  | 830 g   | 21.15.14.075E |
|  Swivel castor with break, ESD | 5/8" | Ø100 | 100 kg | 1,050 g | 21.15.14.100E |

Fixed castors with mounting plate



Technical data

material:





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

colour of tyre:

- standard: red
- ESD: black

Ø75/100/125/150 incl. thread protection

load capacity: F

| Description   | D    | F      | Weight  | Product No.   |
|---|------|--------|---------|---------------|
| Fixed castor with mounting plate  | Ø75  | 130 kg | 425 g   | 21.15.15.075  |
|  Fixed castor with mounting plate, ESD | Ø75  | 130 kg | 580 g   | 21.15.15.075E |
| Fixed castor with mounting plate  | Ø100 | 160 kg | 545 g   | 21.15.15.100  |
|  Fixed castor with mounting plate, ESD | Ø100 | 160 kg | 760 g   | 21.15.15.100E |
| Fixed castor with mounting plate  | Ø125 | 200 kg | 680 g   | 21.15.15.125  |
|  Fixed castor with mounting plate, ESD | Ø125 | 200 kg | 960 g   | 21.15.15.125E |
| Fixed castor with mounting plate  | Ø150 | 200 kg | 2,790 g | 21.15.15.150  |
|  Fixed castor with mounting plate, ESD | Ø150 | 200 kg | 3,275 g | 21.15.15.150E |

Swivel castors with mounting plate



Technical data

material:

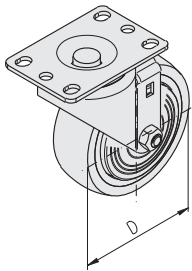
- capsule: sheet steel, galvanised
- wheels: solid rubber tyres





colour of tyre:

- standard: red
- ESD: black

Ø75/100/125/150 incl. thread protection

load capacity: F



| Description  | D    | F      | Weight  | Product No.   |
|--|------|--------|---------|---------------|
| Swivel castor with mounting plate  | Ø75  | 130 kg | 705 g   | 21.15.16.075  |
|  Swivel castor with mounting plate, ESD | Ø75  | 130 kg | 875 g   | 21.15.16.075E |
| Swivel castor with mounting plate  | Ø100 | 160 kg | 815 g   | 21.15.16.100  |
|  Swivel castor with mounting plate, ESD | Ø100 | 160 kg | 1,070 g | 21.15.16.100E |
| Swivel castor with mounting plate  | Ø125 | 200 kg | 950 g   | 21.15.16.125  |
|  Swivel castor with mounting plate, ESD | Ø125 | 200 kg | 1,265 g | 21.15.16.125E |
| Swivel castor with mounting plate  | Ø150 | 200 kg | 3,180 g | 21.15.16.150  |
|  Swivel castor with mounting plate, ESD | Ø150 | 200 kg | 3,640 g | 21.15.16.150E |

Swivel castors with break and mounting plate



Technical data

material:

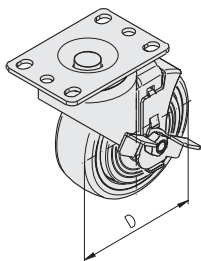
- capsule: sheet steel, galvanised
- wheels: solid rubber tyres





colour of tyre:

- standard: red
- ESD: black

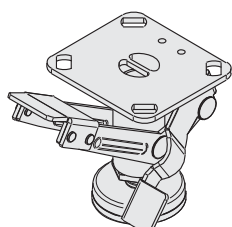
Ø75/100/125/150 incl. thread protection

load capacity: F



| Description   | D    | F      | Weight  | Product No.   |
|---|------|--------|---------|---------------|
| Swivel castor with break  | Ø75  | 130 kg | 770 g   | 21.15.17.075  |
|  Swivel castor with break, ESD | Ø75  | 130 kg | 930 g   | 21.15.17.075E |
| Swivel castor with break  | Ø100 | 160 kg | 885 g   | 21.15.17.100  |
|  Swivel castor with break, ESD | Ø100 | 160 kg | 1,150 g | 21.15.17.100E |
| Swivel castor with break  | Ø125 | 200 kg | 1,025 g | 21.15.17.125  |
|  Swivel castor with break, ESD | Ø125 | 200 kg | 1,355 g | 21.15.17.125E |
| Swivel castor with break  | Ø150 | 200 kg | 3,435 g | 21.15.17.150  |
|  Swivel castor with break, ESD | Ø150 | 200 kg | 3,880 g | 21.15.17.150E |

Break for use with castor



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

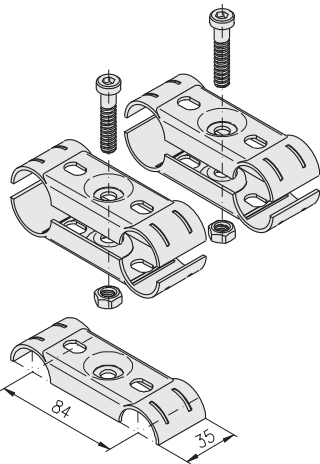


Castor mounting sets  
for castors with mounting plates



Technical data

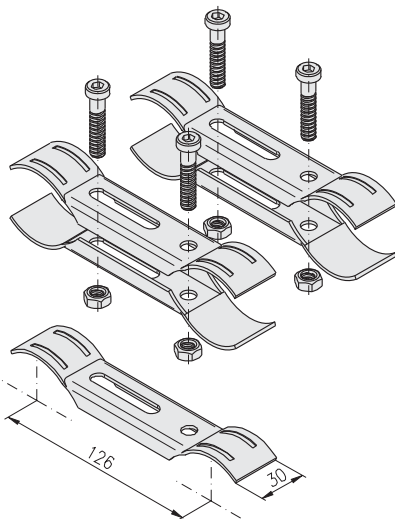
material: steel, galvanised



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

Single parts

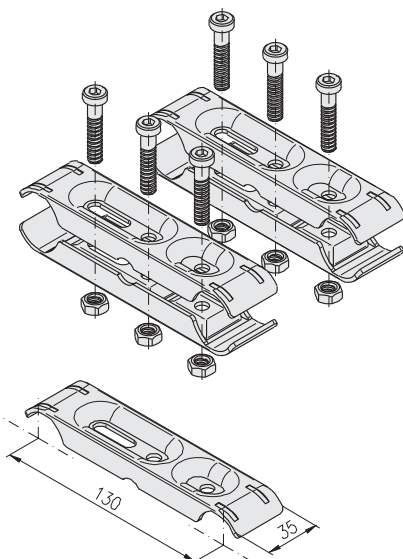
| Description                          | Pcs. | Weight | Product No.       |
|--------------------------------------|------|--------|-------------------|
| Castor mounting 84                   | 4    | 111 g  | 21.15.19.01A      |
| Cylindric head screw DIN 6912, M8×40 | 2    | 17 g   | 0.63.D06912.08040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



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

Single parts

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



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

Single parts

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

Castors



Fixed castor



Swivel castor



Swivel castor lockable

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

Fixed castors



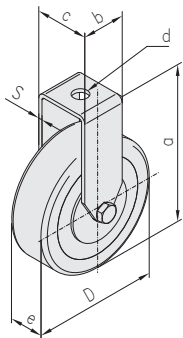
Technical data

material:

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

Ø75/100/125 incl. thread protection

max. static load:  $F_{max}$



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

Dimensions see table on the right

Swivel castors



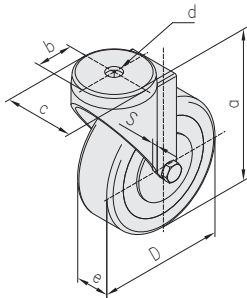
Technical data





material:

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

Ø75/100/125 incl. thread protection

max. static load:  $F_{max}$



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

Dimensions see table below

Swivel castors lockable



Technical data

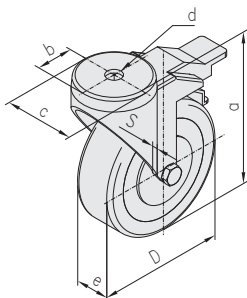
material:





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

stop fix: - wheel break  
- swivel break

Ø75/100/125 incl. thread protection

max. static load:  $F_{max}$



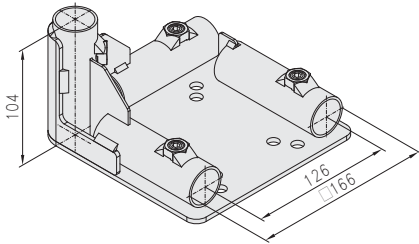
| Description   | D    | a   | Weight  | Article-No. |
|---|------|-----|---------|-------------|
| Swivel castor, lockable with bolt hole  | Ø50  | 69  | 220 g   | 1.45.31050  |
| Swivel castor, lockable with bolt hole  | Ø75  | 98  | 450 g   | 1.45.31075  |
|  Swivel castor, lockable with bolt hole,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

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

**Footplates  
corner left**



**Technical data**  
material: steel, black



**Description**

Footplate, corner left

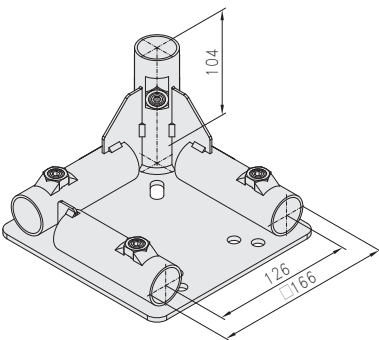
**Weight**

1,873 g

**Product No.**

21.15.20.L

**corner right**



**Description**

Footplate, corner right

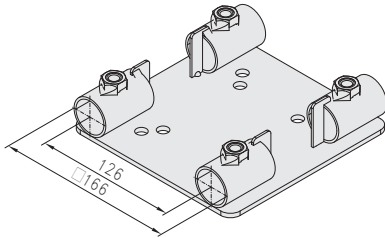
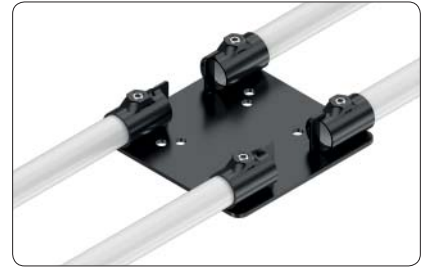
**Weight**

1,873 g

**Product No.**

21.15.20.R

Footplates  
center



**Technical data**  
material: steel, black

**Description**

Footplate, center

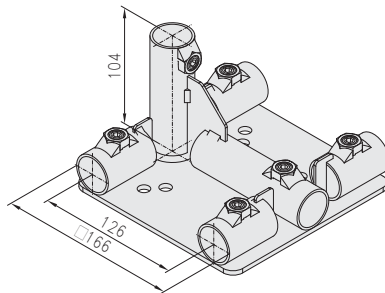
**Weight**

1,305 g

**Product No.**

21.15.20.MH

center with post



**Description**

Footplate, center with post

**Weight**

1,766 g

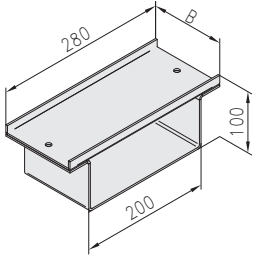
**Product No.**

21.15.20.MHV

Forklift guides



**Technical data**  
material: steel



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

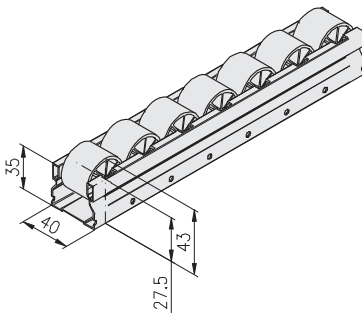
| Roller type | Width   |   |  |   |
|-------------|---|---|--|---|
|             | 40  | 40<br>low noise   | 60   | 85  |
| Standard    | <br>↪ 54   | <br>↪ 54   | <br>↪ 57   | <br>↪ 58 |
|             |   | <br>↪ 54   |  |   |
| ESD         | <br>↪ 54  | <br>↪ 54  | <br>↪ 57  |   |
| Flat        | <br>↪ 55 |   | <br>↪ 57 |   |
|             | <br>↪ 55 |   | <br>↪ 57 |   |
| Edge roller | <br>↪ 56 | <br>↪ 56 |  |   |
|             | <br>↪ 56 | <br>↪ 56 |  |   |

Roller tracks 40



Technical data

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



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

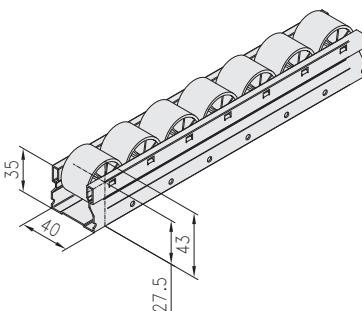
/... = length in mm

Roller tracks 40  
low noise (ln)



Technical data

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

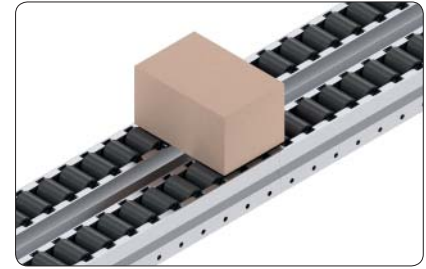


| Description             | Colour of roller |               | Weight    | Product No.           |
|-------------------------|------------------|---------------|-----------|-----------------------|
| Roller track 40 ln      | white            | length 4 m    | 4.8 kg    | 21.16.1.040.12.2.40   |
| Roller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

/... = length in mm

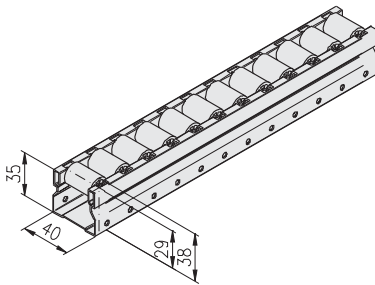


Roller tracks 40  
flat



**Technical data**

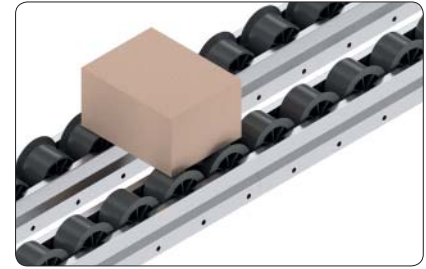
|                  |                                   |
|------------------|-----------------------------------|
| roller-Ø:        | 18 mm                             |
| shaft-Ø:         | 4 mm                              |
| roller distance: | 22 mm                             |
| height:      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



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

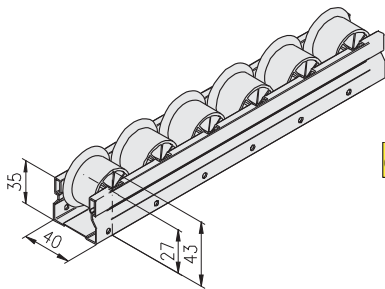
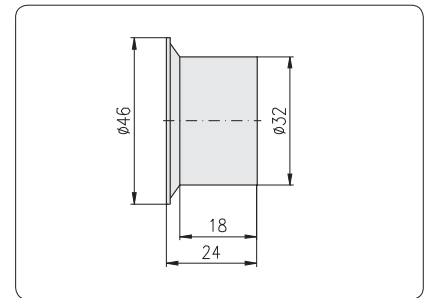
/... = length in mm

Roller tracks 40 with edge rollers



Technical data

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

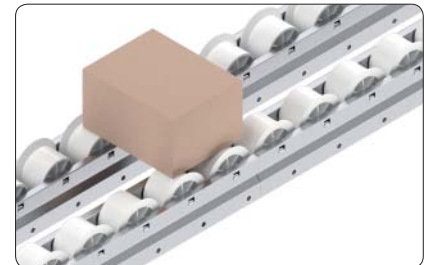


| Description                            | Colour              | Weight     | Product No.           |
|--|---------------------|------------|-----------------------|
| Roller track 40 with edge rollers      | white length 4 m    | 4.5 kg     | 21.16.1.040.31.2.40   |
| Roller track 40 with edge rollers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



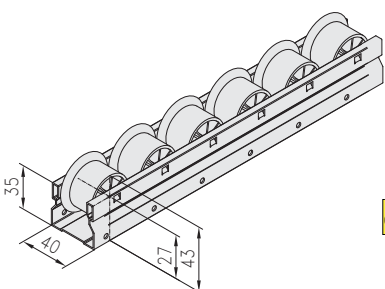
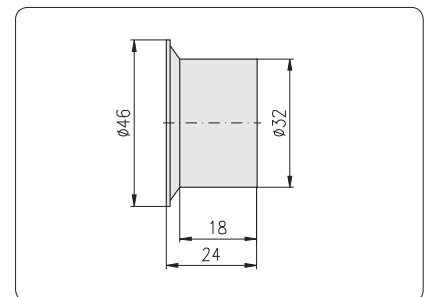
/... = length in mm

Roller tracks 40 with edge rollers low noise (In)



Technical data

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

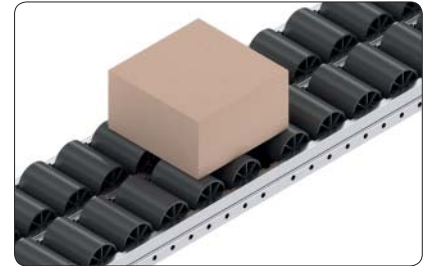


| Description                               | Colour              | Weight     | Product No.           |
|---|---------------------|------------|-----------------------|
| Roller track 40 with edge rollers In      | white length 4 m    | 4.5 kg     | 21.16.1.040.32.2.40   |
| Roller track 40 with edge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



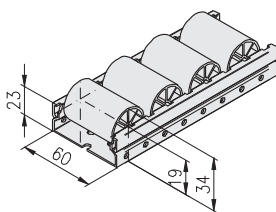
/... = length in mm

Roller tracks 60



**Technical data**

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



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



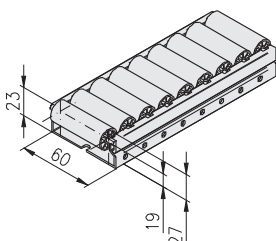
/... = length in mm

Roller tracks 60 flat



**Technical data**

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

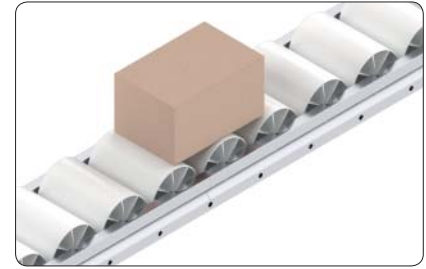


| Description               | Colour of roller | Weight        | Product No.           |
|---------------------------|------------------|---------------|-----------------------|
| Roller track 60 flat      | white            | length 4 m    | 21.16.1.060.21.2.40   |
| Roller track 60 flat      | white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



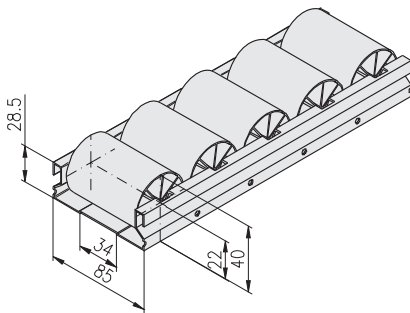
/... = length in mm

Roller track 85



**Technical data**

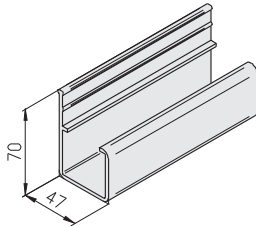
|                  |                                   |
|------------------|-----------------------------------|
| roller-Ø:        | 36 mm                             |
| shaft-Ø:         | 5 mm                              |
| roller distance: | 40 mm                             |
| height:      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



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

/... = length in mm

Side guiding profile



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



**Technical data**

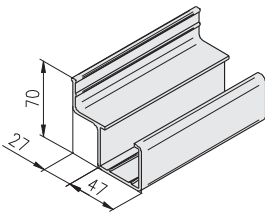
material: PE, ivory  
bar length: 3 m

**Description**

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

/... = length in mm

Side guiding profile with offset



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



**Technical data**

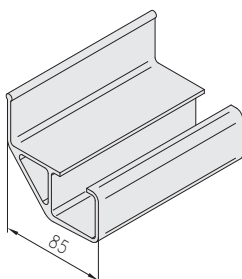
material: PE, ivory  
bar length: 3 m

**Description**

| Description   | Weight    | Product No.        |
|---|-----------|--------------------|
| Side guiding profile with offset, ivory length 3 m    | 2.6 kg    | 21.16.2.110.03.30  |
| Side guiding profile with offset, ivory cut to length | 0.87 kg/m | 21.16.2.110.03/... |

/... = length in mm

Side guiding profile with offset strong



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



**Technical data**

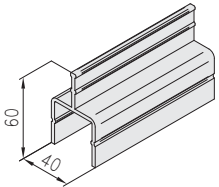
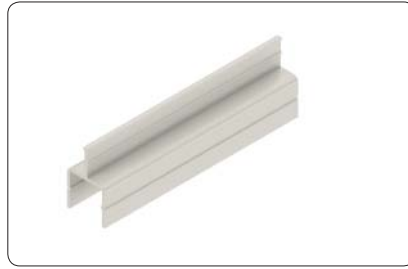
material: PE, white  
bar length: 2 m / 4 m

**Description**

| Description   | Weight | Product No.        |
|---|--------|--------------------|
| Side guiding profile with offset, strong, white length 2 m    | kg     | 21.16.2.111.02.20  |
| Side guiding profile with offset, strong, white cut to length | kg/m   | 21.16.2.111.02/... |
| Side guiding profile with offset, strong, white length 4 m    | kg     | 21.16.2.111.02.40  |
| Side guiding profile with offset, strong, white cut to length | kg/m   | 21.16.2.111.02/... |

/... = length in mm

Center guiding profile



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

**Technical data**

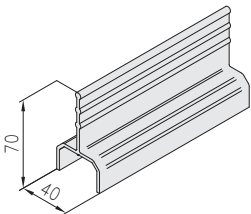
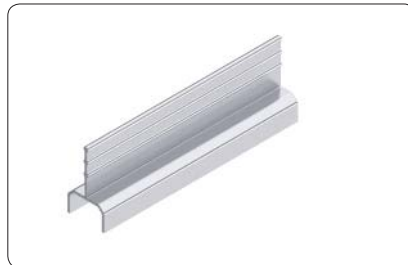
material: PE  
bar length: 3 m

**Description**

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

/... = length in mm

Center guiding profile  
Alu, for roller track supports



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

**Technical data**

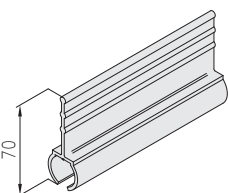
material: Aluminium  
bar length: 2 m / 4 m

**Description**

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

/... = length in mm

Center guiding profile  
Alu, for slide pipe support



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

**Technical data**

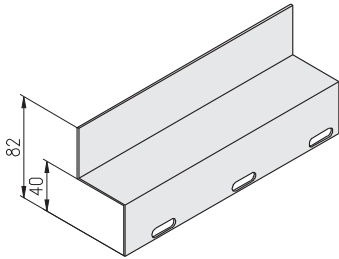
material: Aluminium  
bar length: 2 m / 4 m

**Description**

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

/... = length in mm

Single side guiding profiles  
for all roller tracks



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

**Technical data**

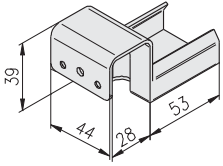
material: steel,  
- ivory  
- black powder-coated ESD  
bar length: 1.5 m

**Description**

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

/... = length in mm

**Roller track supports**  
**40**



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

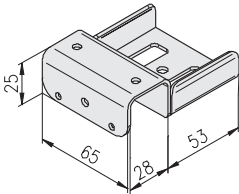


**Technical data**  
material: steel galvanised

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

| Description             | Weight | Product No.     |
|-------------------------|--------|-----------------|
| Roller track support 40 | 129 g  | 21.16.3.10F.040 |

**60**



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

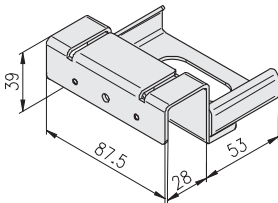


**Technical data**  
material: steel galvanised

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

| Description             | Weight | Product No.     |
|-------------------------|--------|-----------------|
| Roller track support 60 | 193 g  | 21.16.3.10F.060 |

**85**



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



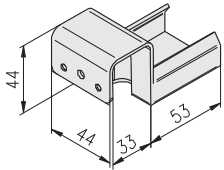
**Technical data**  
material: steel galvanised

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

| Description             | Weight | Product No.     |
|-------------------------|--------|-----------------|
| Roller track support 85 | 250 g  | 21.16.3.10F.085 |



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



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track support 40, type B

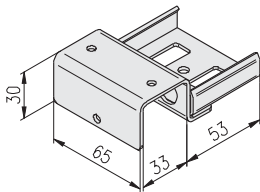
**Weight**

150 g

**Product No.**

21.16.3.11F.040

**60 type B**



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track support 60, type B

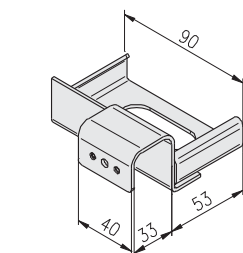
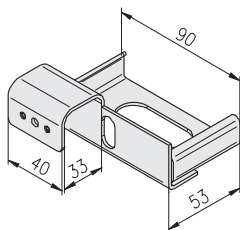
**Weight**

178 g

**Product No.**

21.16.3.11F.060

**85 type B**



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track support 85, type B, left

**Weight**

212 g

**Product No.**

21.16.3.11F.085L

**Description**

Roller track support 85, type B, right

**Weight**

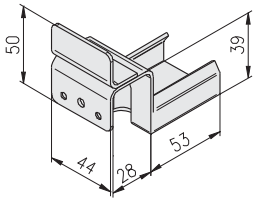
212 g

**Product No.**

21.16.3.11F.085R

**Roller track supports with stop**

40



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



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track support 40 with stop

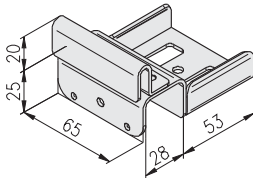
**Weight**

160 g

**Product No.**

21.16.3.20F.040

60



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



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track support 60 with stop

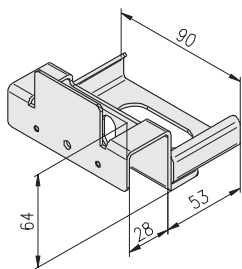
**Weight**

205 g

**Product No.**

21.16.3.20F.060

85



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



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track support 85 with stop

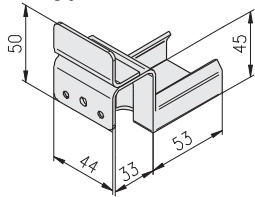
**Weight**

249 g

**Product No.**

21.16.3.20F.085

Roller track supports  
with stop  
overlapping joint  
40 type B



**Technical data**

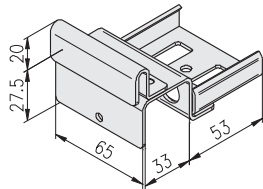
material: steel galvanised

**Optional**

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

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

60 type B



**Technical data**

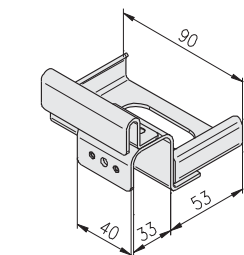
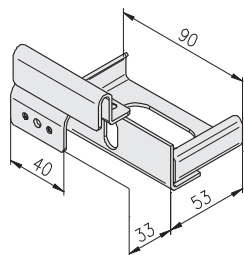
material: steel galvanised

**Optional**

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

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

85 type B



**Technical data**

material: steel galvanised

**Optional**

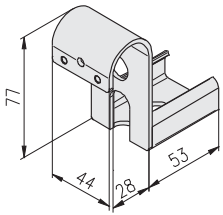
self cutting screw M4,2×13,  
galvanised white steel 0.63.7504.4,2x132

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

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

Roller track supports with offset

40



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



**Technical data**

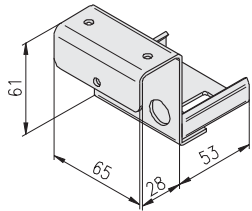
material: steel galvanised

**Optional**

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

| Description                                | Weight | Product No.     |
|--|--------|-----------------|
| Roller track support 40 round, with offset | 148 g  | 21.16.3.30R.040 |

60



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



**Technical data**

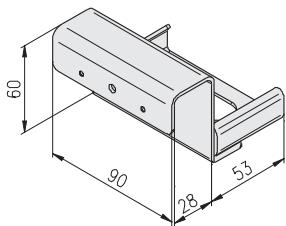
material: steel galvanised

**Optional**

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

| Description                         | Weight | Product No.     |
|-------------------------------------|--------|-----------------|
| Roller track support 60 with offset | 209 g  | 21.16.3.30F.060 |

85



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



**Technical data**

material: steel galvanised

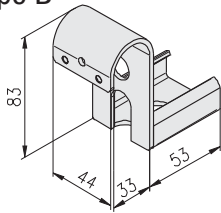
**Optional**

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

| Description                         | Weight | Product No.     |
|-------------------------------------|--------|-----------------|
| Roller track support 85 with offset | 291 g  | 21.16.3.30F.085 |

**Roller track supports with offset overlapping joint**

**40 type B**



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



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track support 40 round, with offset, type B

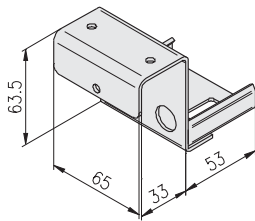
**Weight**

170 g

**Product No.**

21.16.3.31R.040

**60 type B**



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



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track support 60 with offset, type B

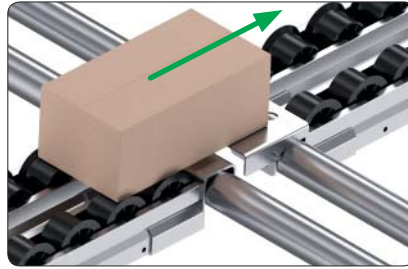
**Weight**

218 g

**Product No.**

21.16.3.31F.060

Roller track supports with return stop



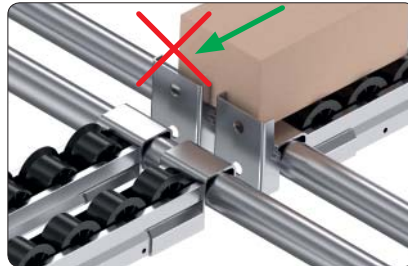
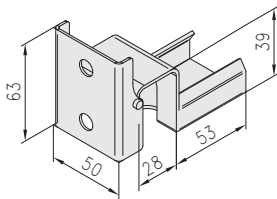
**Technical data**

material: steel galvanised

**Optional**

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

40



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

**Description**

Roller track support 40 with return stop

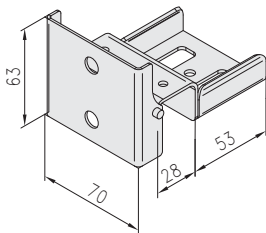
**Weight**

193 g

**Product No.**

21.16.3.32F.040

60



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

**Description**

Roller track support 60 with return stop

**Weight**

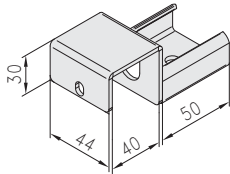
230 g

**Product No.**

21.16.3.32F.060

Roller track supports for profiles

40



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

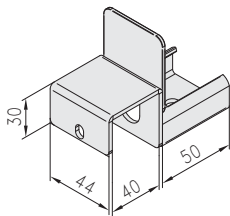


**Technical data**

material: steel galvanised

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

40 with stop



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

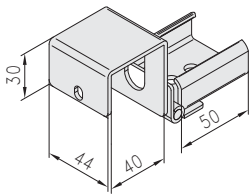


**Technical data**

material: steel galvanised

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

40 foldable



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

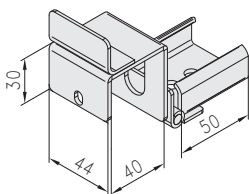


**Technical data**

material: steel galvanised

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

40 foldable, with stop



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

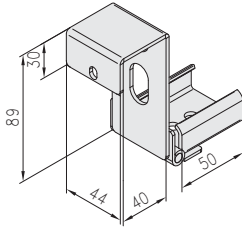


**Technical data**

material: steel galvanised

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

40 foldable, with offset



**Technical data**

material: steel galvanised

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

**Description**

Roller track support 40 for profiles, foldable, with offset

**Weight**

234 g

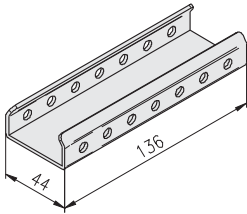
**Product No.**

21.16.3.P50.040



Roller track extensions

40



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



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track extension 40

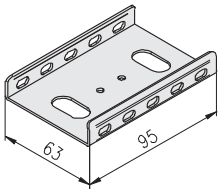
**Weight**

129 g

**Product No.**

21.16.3.4.040

60



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



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track extension 60

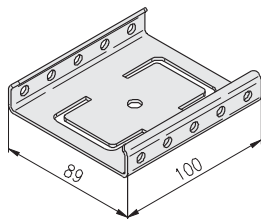
**Weight**

93 g

**Product No.**

21.16.3.4.060

85



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



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track extension 85

**Weight**

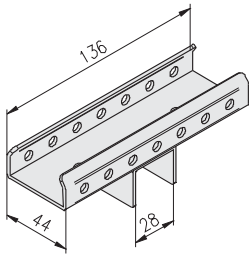
206 g

**Product No.**

21.16.3.4.085

Roller track supports

40



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



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track support 40

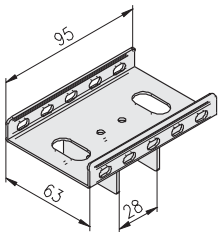
**Weight**

179 g

**Product No.**

21.16.3.50F.040

60



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



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track support 60

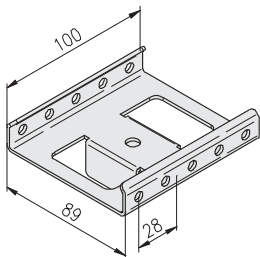
**Weight**

147 g

**Product No.**

21.16.3.50F.060

85



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



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track support 85

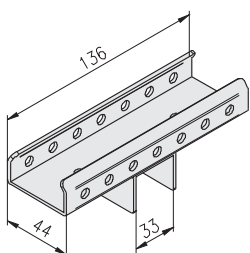
**Weight**

205 g

**Product No.**

21.16.3.50F.085

Roller track supports 40, type B



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



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track support 40, type B

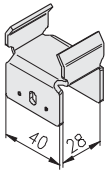
**Weight**

182 g

**Product No.**

21.16.3.51F.040

Roller track supports, short  
40



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

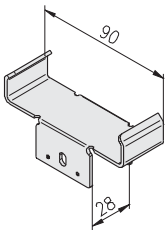


**Technical data**  
material: steel galvanised

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

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

85



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



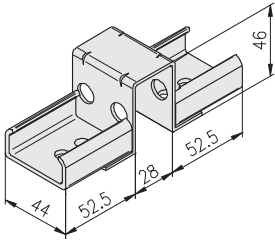
**Technical data**  
material: steel galvanised

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

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

**Roller track bridges**

40



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track bridge 40

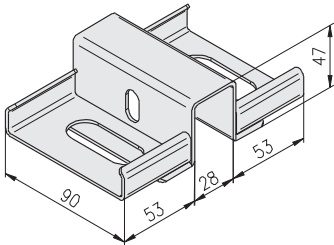
**Weight**

248 g

**Product No.**

21.16.3.70F.040

85



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Roller track bridge 85

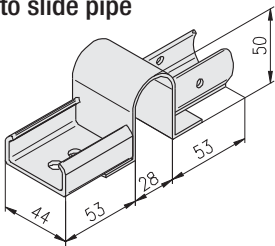
**Weight**

297 g

**Product No.**

21.16.3.70F.085

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



**Technical data**

material: steel galvanised

**Optional**

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

**Description**

Adapter bridge 40

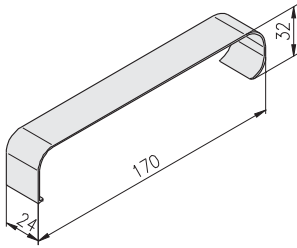
**Weight**

240 g

**Product No.**

21.16.3.80F.040

**Roller track brakes**



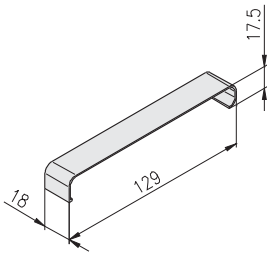
- 40
- 40 F
- 60
- 60 F
- 85



**Technical data**

material: steel galvanised

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



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

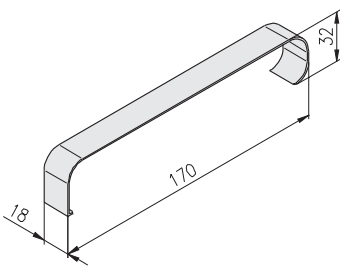


**Technical data**

material: steel galvanised

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

**Roller track brake for roller track 40 with edge rollers**

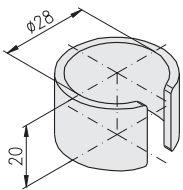
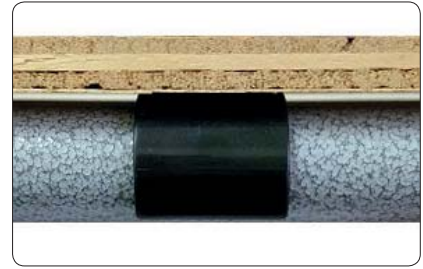


**Technical data**

material: steel galvanised

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

Plastic pipe collars



**Technical data**

material: PE

**Description**

Plastic pipe collar, black

**Weight**

5 g

**Product No.**

21.17.01.01.01

Plastic pipe collar, black, ESD

5 g

21.17.01.01.01E

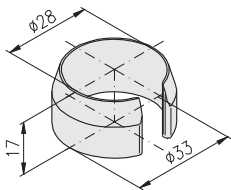


Sleeves



**Technical data**

material: PE



**Description**

Sleeve, black

**Weight**

4 g

**Product No.**

21.17.01.02.01

Sleeve, black, ESD

4 g

21.17.01.02.01E

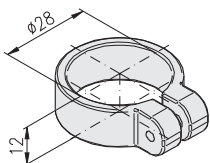


Bolted pipe collars



**Technical data**

material: PE



**Description**

Bolted pipe collar, black

**Weight**

4 g

**Product No.**

21.17.01.03.01

Pipe hanger

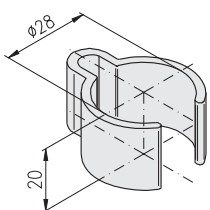


**Application**

for label holder

**Technical data**

material: PE



**Description**

Pipe hanger, black

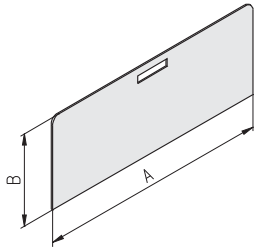
**Weight**

6 g

**Product No.**

21.17.01.04.01

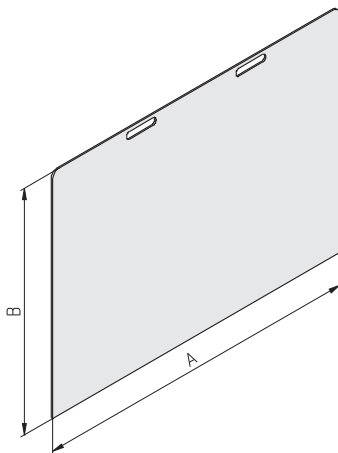
Label holder



Technical data

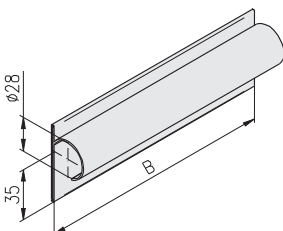
material: plastic, transparent

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



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

Label bar

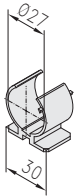


Technical data

material: plastic, transparent

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

**Label clip**

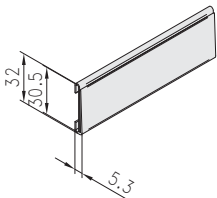


**Technical data**

material: PVC, transparent

| Description | Weight | Product No.   |
|-------------|--------|---------------|
| Label clip  | 7 g    | 21.17.03.2.00 |

**Label strip 32**

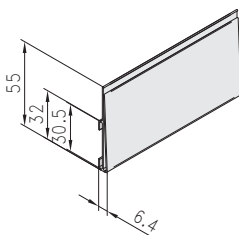


**Technical data**

material: PVC, transparent  
length: 2 m

| Description    | Weight | Product No.   |
|----------------|--------|---------------|
| Label strip 32 | 126 g  | 21.17.03.2.32 |

**Label strip 55**



**Technical data**

material: PVC, transparent  
length: 2 m

| Description    | Weight | Product No.   |
|----------------|--------|---------------|
| Label strip 55 | g      | 21.17.03.2.55 |

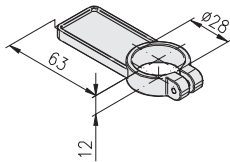


Position retainer



Technical data

material: PE



Description

Position retainer 63, black

Weight

11 g

Product No.

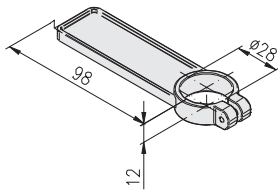
21.17.04.063.01



Position retainer 63, black, ESD

11 g

21.17.04.063.01E



Description

Position retainer 98, black

Weight

16 g

Product No.

21.17.04.098.01



Position retainer 98, black, ESD

16 g

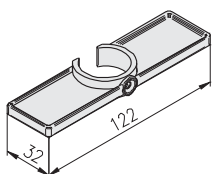
21.17.04.098.01E

Double sided position retainer



Technical data

material: PE



Description

Double sided position retainer, black

Weight

15 g

Product No.

21.17.04.122.01

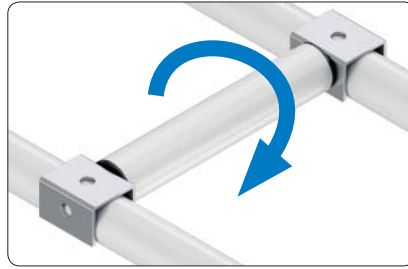
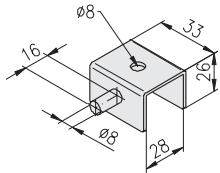


Double sided position retainer, black, ESD

15 g

21.17.04.122.01E

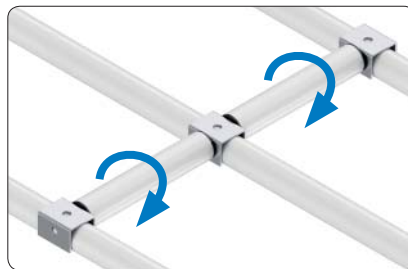
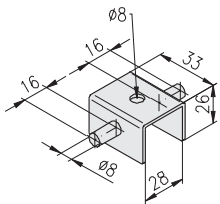
**Roller fixture  
single-sided**



**Technical data**  
material: steel, galvanised

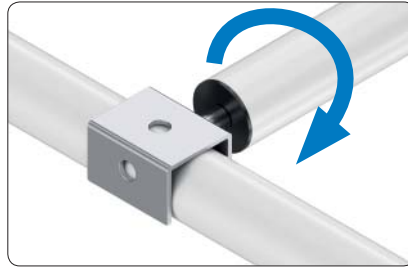
| Description                  | Weight | Product No. |
|------------------------------|--------|-------------|
| Roller fixture, single-sided | 48 g   | 21.17.05.01 |

**double-sided**

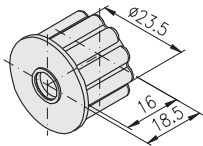



| Description                  | Weight | Product No. |
|------------------------------|--------|-------------|
| Roller fixture, double-sided | 59 g   | 21.17.05.02 |

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

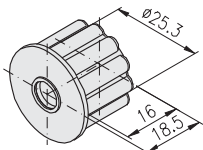



**Technical data**  
 material: PE



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

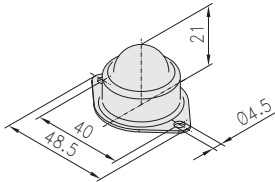
**for stainless steel pipe**  
 with a wall thickness of 1.2 mm



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

Ball castors

21

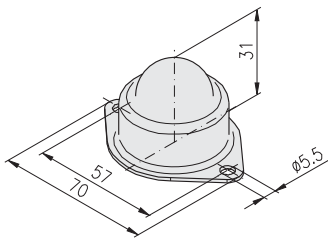


Technical data

material: steel

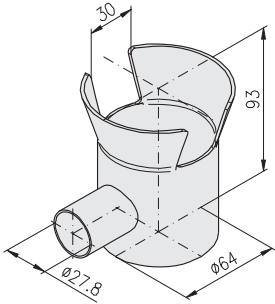
| Description    | Weight | Product No.  |
|----------------|--------|--------------|
| Ball castor 21 | 45 g   | 21.17.06.021 |

31



| Description    | Weight | Product No.  |
|----------------|--------|--------------|
| Ball castor 31 | 141 g  | 21.17.06.031 |

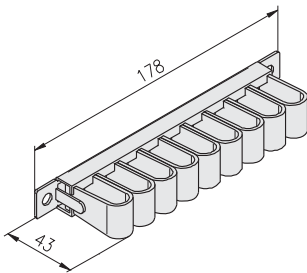
**Tool holder**



**Technical data**  
material: steel, black

| Description | Weight | Product No. |
|-------------|--------|-------------|
| Tool holder | 221 g  | 21.17.08.01 |

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



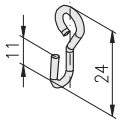
| Description          | Weight | Product No. |
|----------------------|--------|-------------|
| Multiple tool holder | 115 g  | 21.17.08.02 |

**Hook  
24**



**Technical data**

material: steel, powder coated



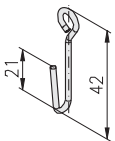
| Description | Weight | Product No. |
|-------------|--------|-------------|
| Hook 24     | 1 g    | 21.17.09.01 |

**42**



**Technical data**

material: steel, powder coated



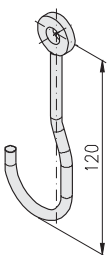
| Description | Weight | Product No. |
|-------------|--------|-------------|
| Hook 42     | 2 g    | 21.17.09.02 |

**100**



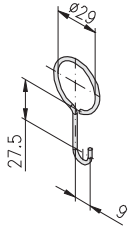
**Technical data**

material: steel, nickel plated



| Description | Weight | Product No. |
|-------------|--------|-------------|
| Hook 100    | 47 g   | 21.17.09.03 |

**Ring hook**

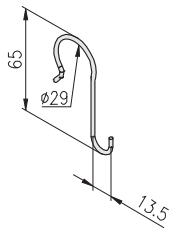


**Technical data**

material: steel, nickel plated

| Description | Weight | Product No. |
|-------------|--------|-------------|
| Ring hook   | 6 g    | 21.17.09.04 |

**Hang up hook**

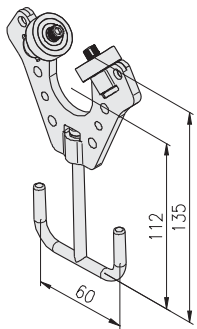


**Technical data**

material: steel, nickel plated

| Description  | Weight | Product No. |
|--------------|--------|-------------|
| Hang up hook | 5 g    | 21.17.09.05 |

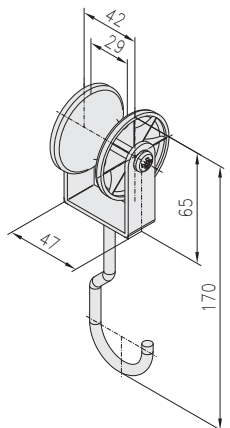
**Sliding hooks**



**Technical data**

material: steel, nickel plated

| Description  | Weight | Product No. |
|--------------|--------|-------------|
| Sliding hook | 210 g  | 21.17.09.06 |



**Technical data**

material:  
roller: PA  
hook: steel, nickel plated

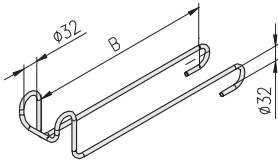
| Description      | Weight | Product No. |
|------------------|--------|-------------|
| Sliding hook, PA | 130 g  | 21.17.09.07 |

Tilt rails



**Technical data**

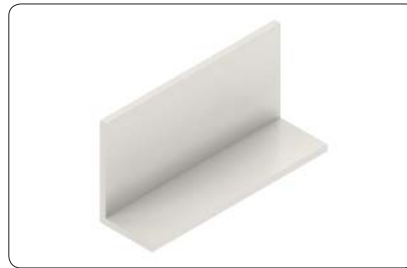
material: steel, nickel plated



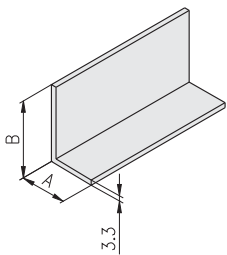
| Description | B   | Weight | Product No.  |
|-------------|-----|--------|--------------|
| Tilt rail   | 200 | 186 g  | 21.17.10.200 |
| Tilt rail   | 250 | 209 g  | 21.17.10.250 |
| Tilt rail   | 300 | 231 g  | 21.17.10.300 |
| Tilt rail   | 400 | 278 g  | 21.17.10.400 |






L-profiles  
3.3



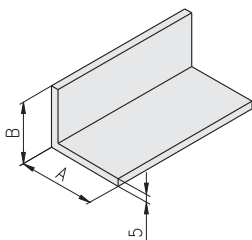
Technical data  
material: PE













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

/... = length in mm

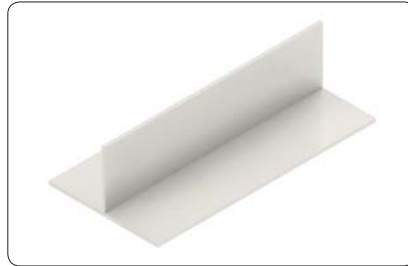
5



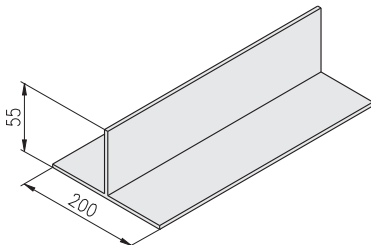
| Description   | A × B         |               | Weight    | Product No.          |
|---|---------------|---------------|-----------|----------------------|
| L-profile   | 50×40×5       | length 3 m    | 1.8 kg    | 21.17.12.050040.30   |
| L-profile   | 50×40×5       | cut to length | 0.60 kg/m |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



/... = length in mm

T-profiles



**Technical data**  
material: PE



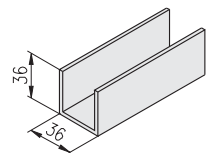
| Description   |               | Weight    | Product No.             |
|---|---------------|-----------|-------------------------|
| T-profile 100×55×4  | length 3 m    | 2.6 kg    | 21.17.13.100055.30      |
| T-profile 100×55×4  | cut to length | 0.87 kg/m | 21.17.13.100055/...     |
|  T-profile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



/... = length in mm

U-profiles



**Technical data**  
material: PE



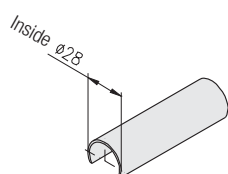
| Description  |               | Weight    | Product No.          |
|--|---------------|-----------|----------------------|
| U-profile 36×36×4  | length 3 m    | 1.1 kg    | 21.17.14.036036.30   |
| U-profile 36×36×4  | cut to length | 0.37 kg/m | 21.17.14.036036/...  |
|  U-profile 36×36×4, ESD | length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



/... = length in mm

Pipe cover



**Technical data**  
material: PE



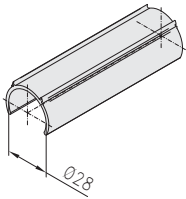
| Description   |               | Weight    | Product No.          |
|---|---------------|-----------|----------------------|
| Pipe cover  | length 3 m    | 2.0 kg    | 21.17.15.036036.30   |
| Pipe cover  | cut to length | 0.67 kg/m | 21.17.15.036036/...  |
|  Pipe cover, ESD | length 3 m    | 2.1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

/... = length in mm

Cable duct

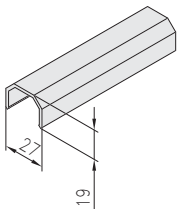


**Technical data**  
material: PE



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

/... = length in mm



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

/... = length in mm



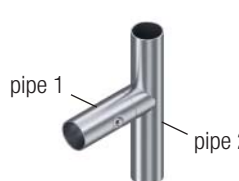

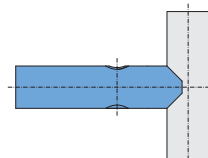
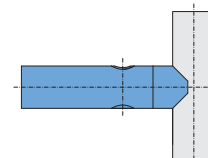
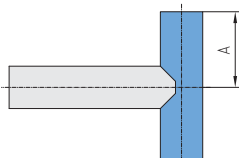


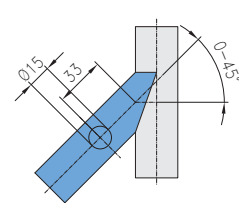
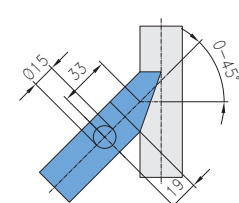
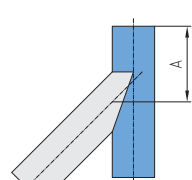


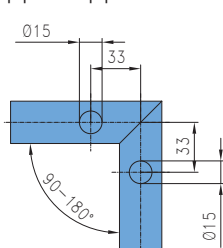
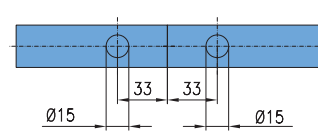

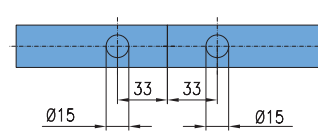
















Patent pending

|                                 |                                |                     |                   |
|---------------------------------|--------------------------------|---------------------|-------------------|
| <p>Pipe -&gt; Pipe</p>          | <p>Pipe -&gt; Pipe profile</p> | <p><b>B + A</b></p> | <p><b>D R</b></p> |
| <p>Pipe -&gt; Pipe</p>          |                                | <p><b>B + A</b></p> | <p><b>D R</b></p> |
| <p>Pipe -&gt; Profile</p>       |                                | <p><b>B + A</b></p> | <p><b>D</b></p>   |
| <p>Pipe -&gt; Panel element</p> |                                | <p><b>B + A</b></p> | <p><b>D</b></p>   |

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







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

| Connection w/o intermediary  | Wall thickness<br>Pipe 1 | Connector      |                   |   |    | Connector sleeve   |              |    |  |
|--|--------------------------|----------------|-------------------|---|----|--|--------------|----|--|
|  |                          | Product-No.    | steel<br>standard | E | VA | Product-No.  | PA           | AL |  |
|  |                          |                |                   |   |    |  |              |    |  |
| Standard<br>                  | 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°<br>                       | 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<br>-hinge l+r<br>    | 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°<br>-hinge<br>   | 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<br>-hinge l+r<br>     | Stainless steel 1.2      | 21.M28V1228G11 |                   |   | V  | <br>2 pieces<br>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°<br>-hinge l+r<br> | Stainless steel 1.2      | 21.M28V1228G12 |                   |   | V  | <br>2 pieces<br>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<br>               | 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<br>Pipe 1 |   | Product-No.        |
|    | Stainless steel 1.2      |    | 21.MR28V1228T      |
|   | Aluminium 2.0            |   | 21.MR28A2028T      |
|   | ABS coated 1.0           |   | 21.MR28S10□□28T    |
|   | 2.0                      |   | 21.MR28S20□□28T    |
|    | Stainless steel 1.2      |    | 21.MR28V1228T      |
|   | Aluminium 2.0            |   | 21.MR28A2028T      |
|   | ABS coated 1.0           |   | 21.MR28S10□□28T    |
|   | 2.0                      |   | 21.MR28S20□□28T    |
|   | Stainless steel 1.2      |    | 21.MR28V1228K/□□   |
|   | Aluminium 2.0            |   | 21.MR28A2028K/□□   |
|   | ABS coated 1.0           |   | 21.MR28S10□□28K/□□ |
|   | 2.0                      |   | 21.MR28S20□□28K/□□ |
|  | Stainless steel 1.2      |  | 21.MR28V1228K/□□   |
|   | Aluminium 2.0            |   | 21.MR28A2028K/□□   |
|   | ABS coated 1.0           |   | 21.MR28S10□□28K/□□ |
|   | 2.0                      |   | 21.MR28S20□□28K/□□ |
|   |                          |   |                    |
|   |                          |   |                    |
|   |                          |   |                    |

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

| Connection w/o intermediary   |                 |     | Connector                      |    |                   |        |   |              | Connector sleeve |             |  |
|---|-----------------|-----|--------------------------------|----|-------------------|--------|---|--------------|------------------|-------------|--|
|   |                 |     | Product-No. for connector with |    |                   |        |   |              |                  |             |  |
|   |                 |     | Wall thickness<br>Pipe 1       |    |                   | F-head |   | E-head       |                  | Product-No. |  |
|   |                 |     | steel<br>standard              | VA | steel<br>standard | VA     |   |              |                  |             |  |
|   |                 |     | E                              |    | E                 |        | PA  | AL           |                  |             |  |
|    | Stainless steel | 1.2 | 21.M28V12FU11                  | V  | 21.M28V12EU11     | V      |    | 21.MD28V12TP | •                |             |  |
|   | Aluminium       | 2.0 | 21.M28A20FU11                  | V  | 21.M28A20EU11     | V      |   | 21.MD28A20TP | •                |             |  |
|   | ABS coated      | 1.0 | 21.M28S10FU11                  |    | 21.M28S10EU11     |        |   | 21.MD28S10TP | •                |             |  |
|   |                 | 2.0 | 21.M28S20FU11                  |    | 21.M28S20EU11     |        |   | 21.MD28S20TP | •                |             |  |
|    | Stainless steel | 1.2 | 21.M28V12FT11                  | V  | 21.M28V12ET11     | V      |    | 21.MD28V12TP | •                |             |  |
|   | Aluminium       | 2.0 | 21.M28A20FT11                  | V  | 21.M28A20ET11     | V      |   | 21.MD28A20TP | •                |             |  |
|   | ABS coated      | 1.0 | 21.M28S10FT11                  |    | 21.M28S10ET11     |        |   | 21.MD28S10TP | •                |             |  |
|   |                 | 2.0 | 21.M28S20FT11                  |    | 21.M28S20ET11     |        |   | 21.MD28S20TP | •                |             |  |
|   | Stainless steel | 1.2 | 21.M28V12FT12                  | V  | 21.M28V12ET12     | V      |   | 21.MD28V12TP | •                |             |  |
|   | Aluminium       | 2.0 | 21.M28A20FT12                  | V  | 21.M28A20ET12     | V      |   | 21.MD28A20TP | •                |             |  |
|   | ABS coated      | 1.0 | 21.M28S10FT12                  |    | 21.M28S10ET12     |        |   | 21.MD28S10TP | •                |             |  |
|   |                 | 2.0 | 21.M28S20FT12                  |    | 21.M28S20ET12     |        |   | 21.MD28S20TP | •                |             |  |
|  | Stainless steel | 1.2 | 21.M28V12FK11                  | V  | 21.M28V12EK11     | V      |  | 21.MD28V12KA | •                |             |  |
|   | Aluminium       | 2.0 | 21.M28A20FK11                  | V  | 21.M28A20EK11     | V      |   | 21.MD28A20KA | •                |             |  |
|   | ABS coated      | 1.0 | 21.M28S10FK11                  |    | 21.M28S10EK11     |        |   | 21.MD28S10KA | •                |             |  |
|   |                 | 2.0 | 21.M28S20FK11                  |    | 21.M28S20EK11     |        |   | 21.MD28S20KA | •                |             |  |
|  |                 |     | 21.M28V12FK12                  | V  | 21.M28V12EK12     | V      |  | 21.MD28V12KA | •                |             |  |
|   |                 |     | 21.M28A20FK12                  | V  | 21.M28A20EK12     | V      |   | 21.MD28A20KA | •                |             |  |
|   |                 |     | 21.M28S10FK12                  |    | 21.M28S10EK12     |        |   | 21.MD28S10KA | •                |             |  |
|   |                 |     | 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  |  |   |
|-----------------------------|---|---------------------|--------------|----|---|--|---|
|                             |   | Product-No.         |              | VA | Product-No.   |  |   |
| Standard                    | Wall thickness<br>Pipe 1  | steel<br>standard   | E            |    |  | 21.MD28V12TP<br>21.MD28A20TP<br>21.MD28S10TP<br>21.MD28S20TP | PA  |
|                             |  | Stainless steel 1.2 | 21.M28V12S11 | V  |   |  |  |
| Aluminium 2.0               |   | 21.M28A20S11        | V            | •  |   |  |   |
| ABS coated 1.0              |   | 21.M28S10S11        |              | •  |   |  |   |
| 2.0                         |   | 21.M28S20S11        |              | •  |   |  |   |

E = ground-connector  
VA = Stainless steel 1.4305

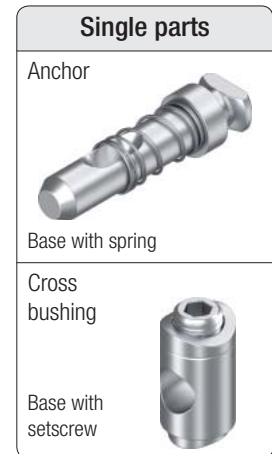
PA = PA  
AL = Aluminium







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

E = ground connector, VA = Stainless steel 1.4305

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


E = ground connector, VA = Stainless steel 1.4305



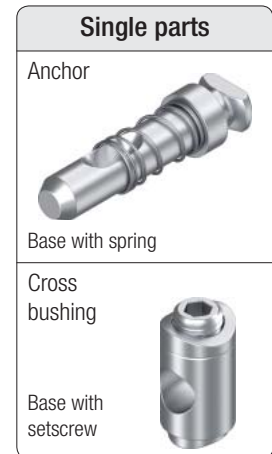
| Pipe connector for Ø28 pipe   |   |                         | Connectors, complete           |        |                                |        |
|---|---|-------------------------|--------------------------------|--------|--------------------------------|--------|
|   |   |                       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

|   |                   |               |               |
|---|-------------------|---------------|---------------|
|  | Cross bushing, VA | 21.MB1228V12V | 21.MB1228A20V |
|   |                   |               |               |

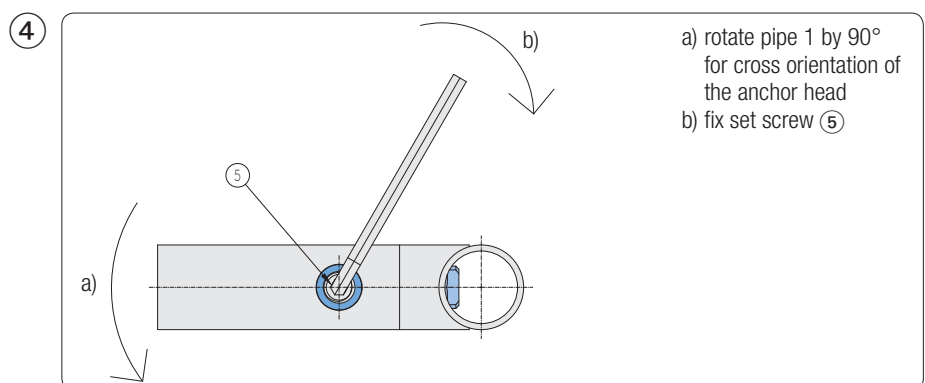
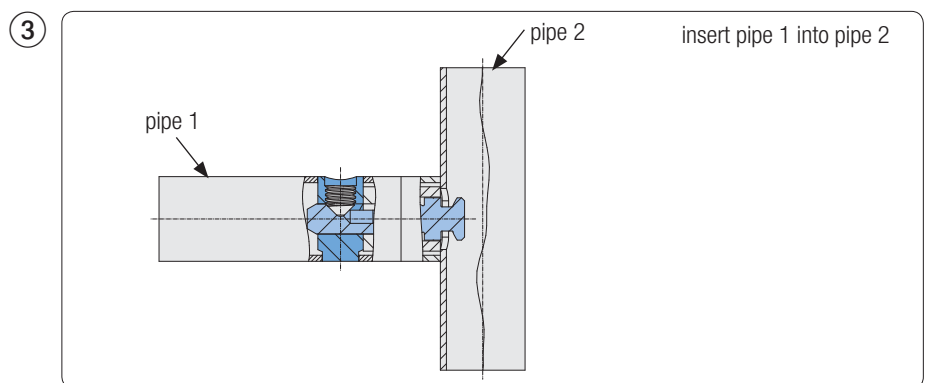
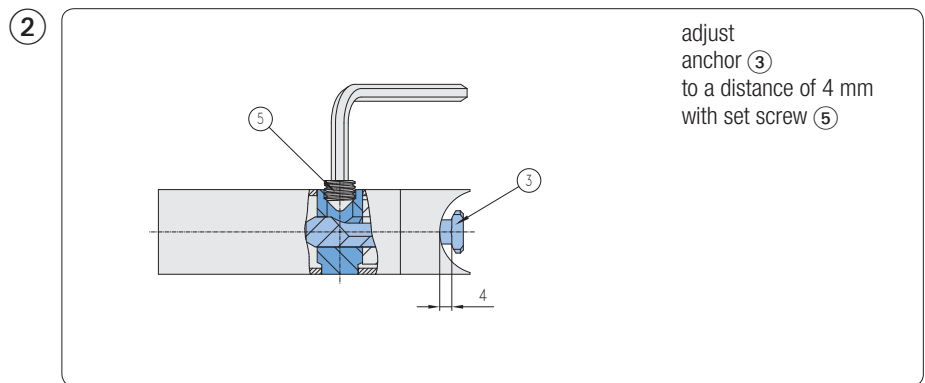
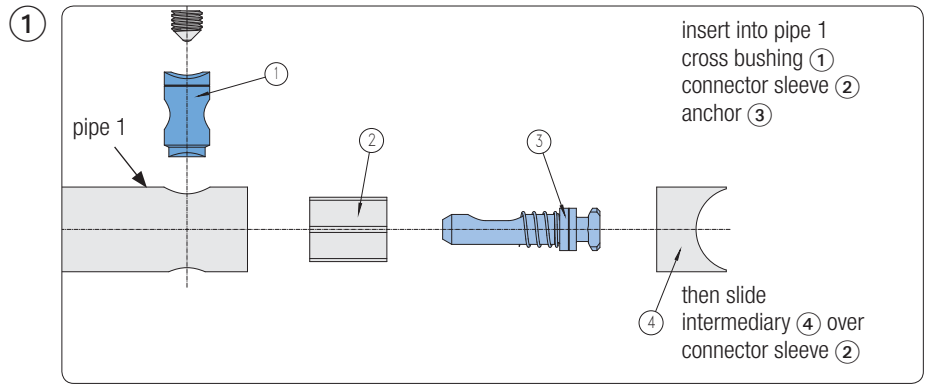
E = ground connector, VA = Stainless steel 1.4305

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

E = ground connector, VA = Stainless steel 1.4305



Pipe connector, Standard with intermediary



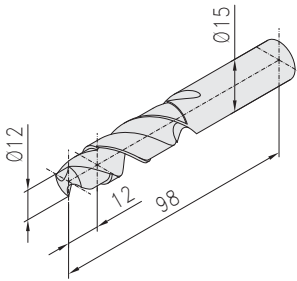


**Step drills  
for cross bushing**



**Technical data**

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



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

Material trolley, stainless steel



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MayTec GmbH plant in Olching



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**MayTec** Aluminium  
Systemtechnik GmbH  
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D-82140 Olching

**Australia**

**MayTec Australia P/L**  
Unit 8, 175 James Ruse Drive  
Rosehill, NSW 2142

country code: +61  
phone (0)2/9898 9929  
fax (0)2/9638 4086  
e-mail: [info@maytec.com.au](mailto:info@maytec.com.au)  
<http://www.maytec.com.au>

**Germany**

**MayTec** Aluminium  
Systemtechnik GmbH  
Kopernikusstraße 20  
D-85221 Dachau

country code: +49  
phone (0)8131/3336-0  
fax (0)8131/3336-119  
e-mail: [mail@maytec.de](mailto:mail@maytec.de)  
<http://www.maytec.de>

**USA**

**MayTec Inc.**  
901 Wesemann Drive  
West Dundee, IL 60118

country code: +1  
phone 847-429-0321  
fax 847-429-0460  
e-mail: [mail@maytecinc.com](mailto:mail@maytecinc.com)  
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